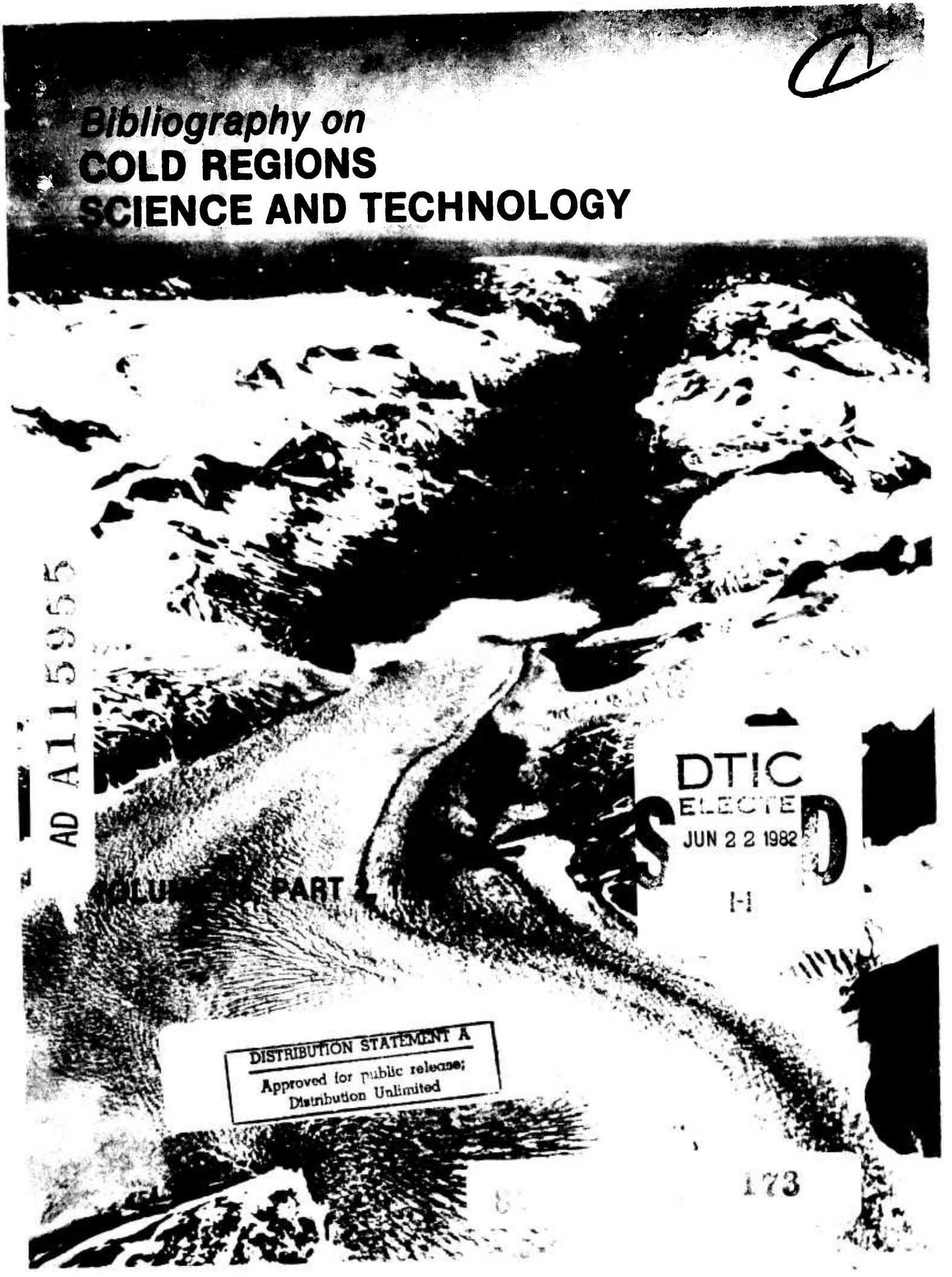
Bibliography on
COLD REGIONS SCIENCE AND TECHNOLOGY



AD A115965

VOLUME [illegible] PART [illegible]

DTIC
ELECTE
JUN 2 2 1982
S D
H

DISTRIBUTION STATEMENT A
Approved for public release;
Distribution Unlimited

173

ADA115955

UNITED STATES DEPARTMENT OF COMMERCE
National Technical Information Service
5285 Port Royal Road
Springfield, Virginia 22161

Date 14 June 1982 NTIS Control #

TO: Defense Technical Information Center - DTIC
Cameron Station
Alexandria, Virginia 22314

FROM: NTIS, Input Branch
5285 Port Royal Road
Springfield, Virginia 22161

Report # Bib on Cold Regions ADA #

Title: Bib on Cold Regions Science and Technology -V35PT2-

Subject report is ☐ Standard Process ☒ STG report. STG - Special Technology Group. ☐ Computer Product ☐ Follow up date

☐ The report will be accessioned by DDC. The form noting the ADA number is returned.

☐ The report has been assigned the ADA number noted above and is returned to NTIS for processing.

☐ DDC will not process the report. It is returned to NTIS

Mag Tape Price
PC & MF Price 30.50
Stock Quantity

Source ACRSTC field 3
Source Share 18.50
NTIS 12.00

Comments:

PC - A00 field 4
MF - A00

Dottie Adams
Signature (for billing)

Copy when completed to Finance Branch

DOD Report Action Request
(Replaces NTIS-164 5-72)

Please return to NTIS - Information Services Branch, Room 301, Yorktown Building.
Attention: Dottie Adams

December 1981

US Army Corps
of Engineers
Cold Regions Research &
Engineering Laboratory

Bibliography on
COLD REGIONS SCIENCE AND TECHNOLOGY

VOLUME 35, Part 2

Geza T. Thuronyi, Editor

DTIC
ELECTE
JUN 22 1982
S H D

Accession For
NTIS GRA&I ☑
DTIC TAB ☐
Unannounced ☐
Justification NTIS
$30.50
By
Distribution/
Availability Codes
Dist | Avail and/or Special
A | 1

DTIC COPY INSPECTED 2

NOTE

This is a companion issue to Vol. 35, Pt. 1. The latter contains the full bibliographic citations referred to in the author and subject indexes included in this issue. In the author index principal and joint personal and corporate authors are listed along with the title, date, pagination, and language of the document and the accession number. The subject index is composed of three basic elements: 1) terms taken from a controlled vocabulary based on the *Thesaurus of Engineering and Scientific Terms* (LEX-EJC), 2) free terms added as needed, 3) geographic names, generally entered under countries. The terms are listed in a single alphabetical arrangement, along with title (original, translated, abridged, expanded, or supplied), principal author, date, pagination, and language of pertinent documents, and their accession numbers.

When ordering this publication, both Parts 1 and 2 should be ordered, as they are complementary.

AUTHOR INDEX

101 modern machines keep Olympics moving
101 modern machines keep Olympics moving [1980, p.28, eng] **35-2934**

Aartolahti, T.
Research of periglacial morphology in Finland [1980, p.74-87, fin] **35-1071**

Abakumenko, V.P.
Identification of naleds in the Baykal-Amur railroad zone on satellite photographs [1980, p.75-82, rus] **35-2977**

Abal'ian, T.S.
Glacier alimentation and possibilities of long-range forecasting runoff of mountain rivers in catchment areas with widespread glaciation [1980, p.42-49, 124-129, rus] **35-2815**

Abaturov, IU.D.
Last plot of virgin spruce forests in southern taiga of the Russkaya Plain [1980, p.38-45, rus] **35-955**

Abbate, G.
Temperature coefficient of the refractive index of H2O and D2O and proposed models of water structure [1980, p.1171-1177, eng] **35-1691**

Abbey, F.L.
Estimating the areal snow water equivalent in the prairie environment [1979, p.302-322, eng] **35-419**

Abdushelishvili, K.L.
Avalanches in the Tskhenistskali River basin [1980, p.75-82, rus] **35-3801**

Abe, O.
Grain-boundary relaxation peak of Antarctic Mizuho ice observed in internal friction measurements at low frequency [1979, p.165-171, eng] **35-520**
On measurements of solar radiation, collection of the solar energy and feasibility for the snow melting by the energy in winter of Shinjo area [1980, p.245-270, jap] **35-2891**

Abegg, F.
Burning coal in Alaska - a winter experience [1980, 9p., eng] **35-1187**

Abele, G.
Infiltration characteristics of soils at Apple Valley, Minn.; Clarence Cannon Dam, Mo; and Deer Creek Lake, Ohio, land treatment sites [1980, 41p., eng] **35-1726**

Abornikov, V.N.
Land-based stereophotogrammetric surveying of an avalanche formation section of a road [1980, p.20-21, rus] **35-3010**

Abramenko, N.A.
Mudflows in the southern Krasnoyarsk region and Tuva ASSR [1980, p.49-54, rus] **35-1806**
Studying properties of concrete placed under winter conditions [1980, p.130-135, rus] **35-3530**

Abramenkov, N.M.
Using a kinetic equation for describing the frazil ice formation process [1980, p.97-104, rus] **35-932**

Abramovich, K.G.
Method of objective determination of aircraft icing zones according to aerological data [1980, p.75-85, rus] **35-2427**

Abshaev, M.T.
Absorption and scattering of microwaves by separate spherical particles of water and ice [1975, p.40-71, rus] **35-1616**

Aburakawa, H.
Characteristics on the distribution of snow accumulation in Sapporo [1978, p.139-153, jap] **35-1182**
Development of a portable albedometer [1978, p.171-174, jap] **35-1553**
Differences in snow-melting rate between urban and rural areas in Sapporo [1978, p.155-168, jap] **35-1183**
Observation of snow depth in Teshio mountainous region [1978, p.175-178, jap] **35-1554**
Urban-rural differences in the daily minimum air temperature during nocturnal radiative cooling in Sapporo [1978, p.121-137, jap] **35-1181**

Acheson, C.H.
Time-depth and velocity-depth relations in sedimentary basins - a study based on current investigations in the Arctic Islands and an interpretation of experience elsewhere [1981, p.707-716, eng] **35-3061**

Achuff, P.L.
Subalpine cryosolic soils in Banff and Jasper National Parks [1980, p.579-581, eng] **35-1708**

Ackermann, N.L.
Wintertime flow distribution in river channels [1980, p.805-817, eng] **35-705**

Ackley, S.F.
Drifting buoy measurements on Weddell Sea pack ice [1979, p.106-108, eng] **35-676**
Modeling of anisotropic electromagnetic reflection from sea ice [1980, p.247-294, eng] **35-554**
Modeling of anisotropic electromagnetic reflection from sea ice [1980, 15p., eng] **35-1722**
Review of sea-ice weather relationships in the Southern Hemisphere [1981, p.127-159, eng] **35-3026**
Sea-ice atmosphere interactions in the Weddell Sea using drifting buoys [1981, p.177-191, eng] **35-3029**
Sea ice studies in the Weddell Sea aboard USCGC Polar Sea [1980, p.84-96, eng] **35-3188**

Adam, K.M.
Solving snow-drifting problems at Baker Lake, N.W.T., using snow-modeling techniques [1980, p.394-408, eng] **35-2130**
Travel over snow [1981, p.521-561, eng] **35-3757**

Adamenko, V.N.
Pressure and circulation conditions prevailing during the last millenium over West Siberia and Central Asia (the Central Region) [1980, p.130-143, rus] **35-1453**

Adams, W.P.
Glaciological research at Trent University with a bibliography of faculty and student publications, 1968-1980 [1980, p.178-193, eng] **35-50**
Illustrations of biological roles of winter lake cover [1980, p.1-18, eng] **35-3143**
Observations on the use of a mechanical device for measuring the thickness of lake ice [1980, p.189-192, eng] **35-3160**
Snow and ice on lakes [1981, p.437-474, eng] **35-3755**
Snow and living things. Section 1: Snow and man; Section 2: Plants and animals [1981, p.3-31, eng] **35-3746**

Adlin, A.I.
Designing preliminary heating devices for hydraulic drive systems of digging-wheel excavators [1979, p.60-67, rus] **35-808**

Adrian, D.D.
Rational design of overland flow systems [1980, p.114-121, eng] **35-2571**

Adrian, L.
Fire protection in the North [1980, p.225-229, eng] **35-2118**

Adzhiev, A.Kh.
Formation of ice crystals on AgI particles through quasi-liquid films [1975, p.107-113, rus] **35-1618**

Afanasenko, V.E.
Peculiarities of water exchange between the Aldan hydrogeologic massive, the Baykal-Aldan and the Amur-Ussuriyskaya folded areas [1981, p.85-90, rus] **35-3299**

Afanas'ev, S.G.
Induced polarization of concretes, containing antifreeze admixtures, in a direct current field [1980, p.52-58, rus] **35-3529**

Afanas'ev, V.A.
Microclimatic changes in taiga geosystems due to human factors [1980, p.90-100, rus] **35-3052**

Afonina, O.M.
Distribution of lichens and mosses in forest steppes of the central Indigirka River area [1980, p.66-82, rus] **35-393**

Agapkin, V.M.
Economic effectiveness of pipe transportation by the Northern Sea Route [1981, p.16-17, rus] **35-3345**
Thermal and hydraulic design of pipelines for oil and petroleum products [1981, 256p., rus] **35-3931**

Ageenkov, A.V.
Calculation and design of closed circulating water supply systems for dredging [1977, p.87-100, rus] **35-3807**

Ager, T.A.
Climatic changes in the interior Alaska [1980, p.16-23, eng] **35-1560**

Ageta, Y.
Snow crystal observations at Mt. Yalung Kang, Kangchenjunga region, east Nepal [1978, p.45-49, eng] **35-55**

Ahlbrecht, H.
Handbook for winter road servive [1978, 319p., ger] **35-152**

Ahrens, T.J.
Low-velocity impact craters in ice and ice-saturated sand with implications for Martian crater count ages [1979, p.8023-8032, eng] **35-1181**

Air deployed oceanographic mooring (ADOM)
Air deployed oceanographic mooring (ADOM) [1980, 77p., eng] **35-1589**

Aitken, G.W.
Dynamic testing of free field stress gages in frozen soil [1980, 26p., eng] **35-2601**
Impact fuse performance in snow (Initial evaluation of a new test technique) [1980, p.31-45, eng] **35-1584**

Aiunts, K.M.
Microflora biomass in pine biocenoses [1972, p.177-180, rus] **35-1376**

Akademiia nauk SSSR. Sibirskoe otdelenie. Gosudarstvennaia publichnaia nauchno-tekhnicheskaia biblioteka
Problems of the North: a current bibliography [1980, 3 volumes, rus] **35-858**
Problems of the North, a current bibliography [1980, 198p., rus] **35-859**
Soils of Siberia and the Far East; a current bibliography [1978, 2 volumes, rus] **35-852**
Soils of Siberia and the Far East; a current bibliography [1978, 4 volumes, rus] **35-853**
Soils of Siberia and the Far East; a current bibliography [1980, 58p., rus] **35-854**
Vegetation of Siberia and the Far East; a current bibliography [1980, 97p., rus] **35-857**
Vegetation of Siberia and the Far East; a current bibliography [1979, 2 volumes, rus] **35-856**
Vegetation of Siberia and the Far East, a current bibliography [1980, 2 volumes, rus] **35-855**

Akasofu, S.-I.
Electrical resistivity measurements in permafrost terrain at the Engineer Creek road cut, Fairbanks, Alaska [1980, p.277-286, eng] **35-745**

Akbarov, A.A.
Dynamics of melt waters on the Abramov glacier [1980, p.92-96, 161-165, rus] **35-2823**

Akeyama, A.
11- and 18-GHz radio wave attenuation due to precipitation on a slant path [1980, p.580-585, eng] **35-2413**

Akhtyrtsev, B.P.
Genesis of gray forest soils [1979, p.521-531, eng] **35-962**

Akhundzhanov, Sh.M.
Statistical analysis of data on snow cover and precipitation in the Uriadar'ia River Basin [1978, p.29-33, rus] **35-2702**

Akiba, T.
New method of measuring snowflake size and falling velocity [1981, p.1-8, jap] **35-4201**

Akif'eva, K.V.
Compiling avalanche cadasters for unexplored areas taking the eastern part of the Ketmen' Range as an example [1980, p.25-34, rus] **35-712**

Akimov, A.T.
Geophysical methods of studying permafrost in the USSR [1980, 51p., rus] **35-1928**

Akitaya, E.
Boring core of ice taken from beneath the soil of a landslide [1978, p.179-180, jap] **35-1555**
Development of a long-term temperature recorder [1978, p.167-169, jap] **35-1552**
Measurements of free water content of wet snow by calorimetric method [1978, p.103-111, jap] **35-1179**
Observations of ground avalanches with a video tape recorder (VTR) [1980, p.493-496, eng] **35-2389**
Physical properties of the snow cover on Mt. Tateyama in Central Honshu, Japan [1976, p.157-164, jap] **35-257**

Akkerman, G.L.
Optimal distribution of railroad settlements [1980, p.19-20, rus] **35-106**

Aksenov, M.IA.
Comparison of ice-forming activity of 1,5-dioxynaphthalene and phloroglucinol [1980, p.68-75, rus] **35-2695**
SALIA-1 cloud chamber designed by the Central Aerological Observatory for airborne measurements of ice nuclei concentration [1980, p.123-127, rus] **35-24**
Stationary cloud chamber for measuring atmospheric ice nuclei concentrations [1980, p.118-122, rus] **35-23**
Studying ice-forming properties of copper acetylacetonate of varied dispersiveness [1980, p.82-88, rus] **35-2697**

Aksenov, V.I.
Deformation and failure of frozen saline sandy loam [1973, p.50-54, rus] **35-1601**

Alaska coastal bibliography and index statewide
Alaska coastal bibliography and index statewide (1980, 407p., eng) **35-3553**
Alaska Consultants, Inc.
Southcentral region of Alaska deep-draft navigation study (1981, c140p + 10 appends., eng) **35-3674**
Alaska gas line—largest construction project in history
Alaska gas line—largest construction project in history (1981, p.26-28, 50, 60, eng) **35-3691**
Alaska gas line project continues to advance
Alaska gas line project continues to advance (1981, p.41, eng) **35-2466**
Alaska roadbuilding: just add water
Alaska roadbuilding: just add water (1981, p.44, eng) **35-4253**
Alaska Science Conference, 31st, Anchorage, Alaska, Sep. 17-19, 1980
Proceedings, Agenda 80s (1980, 148p., eng) **35-1469**
Alaska. University
Research annual report 1979-80 (1981, 129p., eng) **35-1774**
Alaska. University. Geophysical Institute
Annual report 1979-80 (1980, 208p., eng) **35-3430**
Alaska. University. Institute of Social, Economic and Government Research
Bristol Bay environment, a background study of available knowledge (1974, 858p., eng) **35-3550**
Alaska. University. Institute of Water Resources
Annual report, 1980 (1980, 32p., eng) **35-2241**
Albert, D.G.
Dynamic testing of free field stress gages in frozen soil (1980, 26p., eng) **35-2601**
Geophysical investigation of the dome C area (1979, p.98-100, eng) **35-670**
Impact fuse performance in snow (Initial evaluation of a new test technique) (1980, p.31-45, eng) **35-1584**
Alberts, F.G.
Geographic names of the Antarctic (1981, 959p., eng) **35-3164**
Albright, L.J.
Effects of streambank materials additions upon microbial activities of two sub-Arctic Canadian rivers (1980, p.1363-1366, eng) **35-115**
Microbial dynamics of two sub-Arctic Canadian rivers (1980, p.1353-1362, eng) **35-114**
Variations in water quality during winter in two Yukon rivers with emphasis on dissolved oxygen concentration (1980, p.1345-1351, eng) **35-113**
Aleksandrov, V.
Complex solutions of navigation extension problems (1979, p.35-37, rus) **35-902**
Aleksandrova, V.D.
Arctic and Antarctic: their division into geobotanical areas (1980, 247p., eng) **35-130**
Geobotanical division of the Soviet Arctic (1981, p.25-34, eng) **35-3375**
Phytomass and primary production of tundra communities, USSR (1981, p.227-238, eng) **35-3381**
Project for classification of Arctic vegetation (1979, p.1715-1730, rus) **35-341**
Significance of B.N. Gorodkov's studies for the development of tundra science (1980, p.1513-1522, rus) **35-3214**
Aleksandrovskii, S.V.
Frost weathering of cellular concrete (1980, p.41-42, rus) **35-1654**
Aleksankin, A.V.
Land reclamation in the non-chernozem zone of the RSFSR (1980, 288p., rus) **35-996**
Alekseenko, L.N.
Spreading impregnating compounds over the surface of monolithic reinforced concrete in freezing weather (1981, p.67-71, rus) **35-4291**
Alekseev, P.D.
Modular construction of petroleum industry objects (1980, p.2-5, rus) **35-447**
Alekseev, P.E.
Comparative effectiveness of pneumatic tube transportation in mines in southern Yakutia (1978, p.72-80, rus) **35-4114**
Alekseev, S.I.
Interaction of asbestos-cement pipelines with freezing and heaving soils (1980, p.13-16, rus) **35-783**
Alekseev, V.N.
Operation of the lubrication, hydraulic and pneumatic systems of construction machines under northern conditions (1979, 111p., rus) **35-814**
Alekseev, V.R.
Descent regimes of avalanches in northern Transbaikal (1972, p.40-49, rus) **35-761**
Interrelations among natural conditions, economic development and population in the Baykal Amur railroad construction zone (1975, p.13-18, rus) **35-792**
Principles and methods of evaluating naled danger (1980, p.117-122, rus) **35-3464**
Workshop on the study of naleds along the Baykal Amur railroad and other areas of the uSSR (1980, p.272, rus) **35-1258**
Alekseeva, G.V.
Dynamics of natural temperature fields in the ground (1980, p.106-111, rus) **35-2336**
Alekseeva, N.S.
Organic matter in soils of Kola Peninsula (1980, 227p., rus) **35-3279**
Alexander, C.S.
Radiocarbon dating of the rate of movement of two solifluction lobes in the Ruby Range, Yukon Territory (1980, p.365-379, eng) **35-1129**
Alexander, E.C., Jr.
Temperature profiles in the Barnes Ice Cap, Baffin Island, Canada, and heat flux from the subglacial terrane (1980, p.1174-1188, eng) **35-1266**
Alexander, V.
Oil spill effects (1980, p.388-406, eng) **35-1756**
Primary producers (1980, p.179-250, eng) **35-1752**
Soils and their nutrients (1980, p.219-254, eng) **35-1936**
United States Arctic science policy (1981, 62p., eng) **35-3738**
Alfimov, A.V.
Climate peculiarities of alpine tundras in the upper courses of the Kolyma and Indigirka rivers (1980, p.7-31, rus) **35-4333**
Alifanov, V.M.
Paleocryogenesis and evolution of grey forest soils (1980, p.154-156, rus) **35-2304**
Allan, A.J.
Proceedings (1980, 360p., eng) **35-3835**
Report on ice conditions relating to the immobilization of *CCGS Franklin* in Viscount Sound, September, 1979 (1980, p.77-104, eng) **35-3702**
Allen, A.A.
Alaskan Beaufort Sea Oilspill Response Body (1980, p.129-132, eng) **35-3881**
Allen, C.C.
Volcano-ice interactions on Mars (1979, p.8048-8059, eng) **35-1102**
Allen, V.
Ground temperature studies at an arctic drained lake site (1981, p.642-658, eng) **35-2527**
Alley, B.J., Jr.
Low temperature X-ray diffraction investigation of embrittled minimum signature Chaparral propellant (1980, p.77-90, eng) **35-1585**
Allison, I.
Antarctic sea ice growth and oceanic heat flux (1981, p.161-170, eng) **35-3027**
Sea level, ice and climatic change; Proceedings of the Symposium, 7-8 Dec. during the 17th General Assembly of IUGG, Canberra (1981, 471p., eng) **35-3017**
Allison, I.F.
Preliminary investigation of the physical characteristics of the Vahsel Glacier, Heard Island (1980, 31p., eng) **35-3916**
Al'perovich, A.I.
Modernized tower crane KB-403.A (1980, p.17-19, rus) **35-870**
New tower crane KB-504 (1980, p.12-14, rus) **35-1357**
Al'perovich, S.V.
Deformation mechanism of cemented clayey soils (1980, p.51-57, eng) **35-496**
Al'shits, M.Z.
Digging-wheel excavator ETR-254 for trenching (1980, p.4-6, rus) **35-2621**
Alter, A.J.
Winter city (1980, 16p., eng) **35-2714**
Al'tshuler, E.B.
Evaluating conditions of lightning protection on northern petroleum fields (1980, p.35-37, rus) **35-629**
Grounding parameters for electrical installations in the Far North (1981, p.55-59, rus) **35-3485**
Lightning protection in electrical installations of northern gas fields (1980, p.33-36, rus) **35-628**
Problems in providing safe conditions in electrical installations of the Far North (1980, p.34-35, rus) **35-3535**
Ambach, W.
Dielectric behavior of snow: a study versus liquid water content (1980, p.69-92, eng) **35-1737**
Heat budget of the Greenland ice sheet: comparative study in the areas of accumulation and ablation (1979, p.44-54, ger) **35-2643**
Net ice ablation in a vertical profile on the Greenland ice sheet (1979, p.55-62, ger) **35-2644**
Tracing the flow of meltwater in the water table of a temperate glacier (1979, p.229-234, ger) **35-3732**
Ambler, D.C.
Runoff simulation, Falls River watershed near d'Iberville Fiord, Ellesmere Island, N.W.T. (1979, p.277-289, eng) **35-418**
Amendt, R.
Combatting cold (1980, 10p., eng) **35-993**
American Society of Civil Engineers. National Convention, Session No.3, Portland, Oregon, Apr. 14-18, 1980
Cold regions engineering (1980, Var. p., eng) **35-2710**
American Society of Naval Engineers. ASNE Day
Session no. 6. Paper no 1. Comments and discussion. Parts I and II (1980, p.70-83, 100-110, eng) **35-1383**
Amichba, T.M.
Permafrost weathering in relation to subarctic morphogenesis in Northeastern Yakutia (1978, p.93-94, rus) **35-14**
Amos, C.L.
Hibernia and Ben Nevis seabed study, Polaris V Cruise report, June 1980 (1980, 40p., eng) **35-1846**
Amstislavskii, A.Z.
Possible changes in hydrobiocenoses of the Ob' estuarine area during redistribution of water resources (1980, p.94-96, rus) **35-3121**
An, V.V.
Geocryological conditions of the southern spur of the Kodar Range (1980, p.124-127, rus) **35-3326**
An, Z.
Formation and evolution of permanent ice mound on Qing-Zang Plateau (1980, p.25-30, chi) **35-122**
Ananian, A.A.
Causes of freezing temperature drop in fine grained rocks and their content of unfrozen water (1980, p.130-135, rus) **35-767**
Anan'ina, N.M.
Thermal and physical properties of cellular concrete enclosures (1979, p.72-76, rus) **35-4058**
Andersen, B.G.
Glacial history of the Ellsworth Mountains (1980, p.56-57, eng) **35-3172**
Last great ice sheets: a global view (1981, p.263-317 + 10 sheets, eng) **35-2068**
Late Weichselian ice sheets in Eurasia and Greenland (1981, p.1-65 + 5 sheets, eng) **35-2063**
Anderson, A.V.
Enhanced enrichment of metals in precipitation on Ross Ice Shelf (1979, p.75-76, eng) **35-656**
Heavy metal enrichment in antarctic snow and firn (1979, p.76-78, eng) **35-657**
Anderson, D.M.
Analysis of water in the Martian regolith (1979, p.33-38, eng) **35-2756**
Did ice streams carve martian outflow channels (1981, p.759-763, eng) **35-3363**
Low temperature phase changes in montmorillonite and montronite at high water contents and high salt contents (1980, p.139-144, eng) **35-728**
Unfrozen water contents of submarine permafrost determined by nuclear magnetic resonance (1980, p.400-412, eng) **35-2755**
Anderson, D.R.
Roadside management (1980, p.22-25, eng) **35-3788**
Anderson, F.A.
Thermal behavior in a concrete structure in interior Alaska (1980, p.279-290, eng) **35-1982**
Anderson, J.B.
Clast shape as an indicator of transport and depositional mechanisms in glacial marine sediments, George V Continental Shelf, Antarctica (1980, p.813-820, eng) **35-884**
Geological survey of east antarctic continental margin aboard USCGC *Glacier* (1979, p.142-144, eng) **35-678**
Marine sediment core descriptions IWSOE: 68, 69, 70, Deep Freeze 79 (1981, 60p., eng) **35-2148**
Observations of sediment-laden icebergs in antarctic waters: implications to glacial erosion and transport (1980, p.387-396, eng) **35-1502**
Sedimentation on the Antarctic continental slope (1979, p.265-283, eng) **35-327**
USCGC *Glacier* Deep Freeze 80 (1980, p.58-75, eng) **35-3191**
Anderson, J.H.
Eagle Summit, Alaska, USA (1981, p.779-780, eng) **35-3402**
Anderson, J.W.
Changes in the volatile hydrocarbon content of Prudhoe Bay crude oil treated under different simulated weathering conditions (1981, p.109-119, eng) **35-2937**
Anderson, K.G.
Strain measurements in floating ice platforms (1980, p.33-54, eng) **35-3837**
Strain measurements in floating ice platforms and their application to platform design: Discussion (1980, p.564-565, fre) **35-837**
Anderson, R.C.
Reflectance of snow at millimeter wavelengths (1980, 40p., eng) **35-1582**
Andrawes, K.Z.
Tension resistant inclusions in soils (1980, p.1313-1326, eng) **35-1494**
Andreas, E.L.
Estimation of heat and mass fluxes over Arctic leads (1980, p.2057-2063, eng) **35-2754**
Turbulent heat flux from Arctic leads (1979, p.57-91, eng) **35-159**
Andreev, D.P.
Studies of humification processes in soils of the Okhotsk Sea area (1979, p.146-149, rus) **35-4331**
Andreev, M.P.
Lichen genera Cladina and Cladonia from the Anyuy Highlands (1981, p.31-41, rus) **35-3221**
Andreev, V.N.
Data on dehchenization of tundra (1980, p.201-205, rus) **35-294**
Flora of the Saskylakh village area (the Anabar River, northwestern Yakutia) (1980, p.1560-1568, rus) **35-3218**
Geobotanical division of the Soviet Arctic (1981, p.25-34, eng) **35-3375**

Influence of man on tundra vegetation [1981, p 747-750, eng] 35-3398
Introduction of useful plants in Yakutia (collection of papers) [1980, 100p., rus] 35-3048
Vegetation and soils of subarctic tundra [1980, 209p., rus] 35-282
Vegetation of the lower Kolyma tundra [1980, p 5-43, rus] 35-283

Andreev, V.V.
Effects of freezing conditions and contact with cryogenic media on the strength of concrete used in petroleum industry [1980, p 5-11, rus] 35-1032
Strength of concrete at the contact with perennially frozen ground [1980, p 10-13, rus] 35-102
Thermal regime of ground with thermally conductive inserts [1981, p 33-35, rus] 35-2786

Andreeva, V.N.
Age spectrum of the Lapland poppy population in the Khibiny Mountains [1980, p 40-49, rus] 35-3066
Initial growth stages of *Papaver lapponicum* (A. Tolm.) Nordh. s.str. in the Kola Peninsula [1980, p 26-39, rus] 35-3065

Andreevskii, A.K.
Calculating thermal regime of basements containing technical equipment (discussion) [1980, p 19-21, rus] 35-2625

Andreiashkina, N.I.
Increment and defoliation of shrubs and dwarf shrubs (hyperarctic and arctoalpine species) [1981, p 80-83, rus] 35-3510

Andres, D.D.
Breakup process and the documentation of the 1978 ice jams on the Athabasca River at Fort McMurray [1981, p 143-161, eng] 35-2548
On river ice hydraulics (a discussion) [1981, p 182-190, eng] 35-2550

Andrews, J.T.
Late Holocene and present-day vegetation, Prudhoe Bay and Atigun River, Alaskan arctic slope [1981, p 153-172, eng] 35-4089
Rapid ice-sheet growth and initiation of the last glaciation [1979, p 119-134, eng] 35-1776

Andriashek, L.D.
Glacier-bed landforms of the prairie region of North America [1980, p 457-476, eng] 35-1508

Andriushkin, E.E.
Task force units in block-set construction [1980, p 8-9, rus] 35-95

Angelakos, D.J.
Snow electromagnetic measurements [1980, p 93-117, eng] 35-1738

Angell, C.A.
Volumetric and derived thermal characteristics of liquid D2O at low temperatures and high pressures [1980, p 1940-1947, eng] 35-441

Anisimova, N.P.
Chemical composition of atmospheric and condensation waters infiltrating the seasonally thawing sands of Central Yakutia [1980, p 82-90, rus] 35-3997
Seasonal variations in chemical composition of atmospheric precipitation in central Yakutia [1980, p 30-37, rus] 35-3992

Aniya, M.
Morphometric analyses of antarctic cirques from photogrammetric measurements [1981, p 41-53, eng] 35-4019

Annan, A.P.
Comparison of thermal and radar active layer measurement techniques in the Leaf Bay area, Nouveau-Quebec [1979, p 317-326, eng] 35-1047

Annexstad, J.O.
Glaciological studies in Allan Hills, 1978-79 [1979, p 87-88, eng] 35-663
Glaciological studies in Allan Hills, 1979-80 [1980, p 65-66, eng] 35-3176
Studies on the ice flow in the bare ice area near the Allan Hills in Victoria Land, Antarctica [1980, p 1-13, eng] 35-2964

Anokhin, K.V.
Land-based stereophotogrammetric surveying of an avalanche formation section of a road [1980, p 20-21, rus] 35-3010

Anopchenko, V.
Frost resistant automobile [1981, p.16, rus] 35-3800

Antar, Y.M.M.
Differential propagation constants on slant paths through snow and ice crystals as measured by 16.5 GHz polarization-diversity radar [1981, p.133-139, eng] 35-3885

Antipina, G.S.
Epiphyte algae of peat mosses [1980, p 167-175, rus] 35-1330

Antipina, Z.N.
Oceanic eustacy, cryolithozone dynamics during the period of 25,000 years and cryogenic forecasts for the Laptev Sea shelf [1980, p 134-135, rus] 35-3133

Antipov, A.N.
Evaluating the transpiration consumption of plant communities in mountain taiga geosystems [1980, p 115-124, rus] 35-3474
Principles of complex investigations of the regularities governing formation and transformation of water resources in small river basins [1980, p 175-184, rus] 35-3424
Transpiration of vegetation in taiga biogeocenoses in the West Sayan foothills [1975, p 55-62, rus] 35-795

Antipova, N.D.
Evaluating the transpiration consumption of plant communities in mountain taiga geosystems [1980, p 115-124, rus] 35-3474
Transpiration of vegetation in taiga biogeocenoses in the West Sayan foothills [1975, p 55-62, rus] 35-795

Antonenko, A.M.
Trends in changes of soil microflora during reservoir construction in the lower Irtysh River area [1979, p 63-75, rus] 35-2324

Antonov, IU.G.
Mudflows in the areas of recent volcanic activities [1980, p 42-48, rus] 35-1805

Antonov, N.A.
Thermal regime, oxidation-reduction processes and the effectiveness of fertilizers in southern tundra soils [1980, p 117-118, rus] 35-2293

Antonova, I.M.
Characteristic epilithophyte lichen synusia in the area of Vud'iavrchorr (Khibiny Mtns.) [1980, p 87-95, rus] 35-3071

Antropova, L.V.
Calculation of the basic components of the ice balance in the Denmark Strait [1980, 16p., eng] 35-1727

Aota, M.
Arctic sea ice research, 4 - measurements of uniaxial compressive strength [1978, p 131-139, jap] 35-1549
Divergence and rotation of an ice field off Okhotsk Sea coast of Hokkaido [1980, p 273-282, eng] 35-2170
Observation of oceanographic condition in the Okhotsk Sea coast of Hokkaido in winter [1978, p 93-105, jap] 35-1545
Relationship between ice-conditions and frequency characteristics of radar returns [1978, p 115-123, jap] 35-1547

Apmann, R.P.
Runoff of deicing salt in Buffalo, New York [1974, p 407-411, eng] 35-4257

Apostolova, G.P.
Critical strength of concretes with antifreeze admixtures [1979, p 27-28, rus] 35-474

Appel', I.L.
Calculation of air temperature in numerical models of redistribution of ice [1981, p 23-28, eng] 35-4130
Evaluating the effect of thermal processes on changes in sea ice packing [1980, p 29-44, rus] 35-3491
Evaluating variations in salinity of the surface layer of the Kara Sea due to river diversion and its effect on ice conditions [1980, p 127-130, rus] 35-3131
Numerical model of ice cover redistribution in summer [1980, p 4-28, rus] 35-3490
Peculiarities of ice drift in the southeastern part of the Laptev Sea [1979, p.45-65, rus] 35-4188
Reflectivity of ice cover during the ice melting period in the southeastern part of the Laptev Sea [1979, p 27-31, rus] 35-4185

Araoka, K.
Measurements of restitution coefficients of ice [1978, p 55-65, jap] 35-1175
Physical aspects of the wind-snow interaction in blowing snow [1979, p 127-141, eng] 35-517

Arben'ev, A.S.
Development and prospects of using electically heated concrete mixtures [1980, p 87-91, rus] 35-1088

Arbuzov, V.A.
Using liquid chlorides in winter on slippery roads [1980, p 11, 21, rus] 35-3005

Archegova, I.B.
Humus profile and some properties of typical podsol in the northeastern European USSR [1974, p 43-49, rus] 35-691
Origin of loamy soils in the East European tundra [1980, p 37-39, rus] 35-2265

Archer, S.
Growth and physiological responses of tundra plants to defoliation [1980, p 531-552, eng] 35-3204

Archikov, E.I.
Climatic factors in the formation of coastal topography of the western Okhotsk Sea and northern Sakhalin Island [1976, p 50-56, rus] 35-1852

Arcone, S.A.
HF to VHF radio frequency polarization studies in sea ice at Pt. Barrow, Alaska [1980, p 225-245, eng] 35-553

Arctic bulk carriers from the GDR
Arctic bulk carriers from the GDR [1981, p 182, 184-185, eng] 35-3696

Arctic Environmental Information and Data Center
Bibliography of the environmental and engineering studies on the Arctic coast and Beaufort and Chukchi Seas [1977, 11p., eng] 35-3360
Bristol Bay environment, a background study of available knowledge [1974, 858p., eng] 35-3550

Arctic lubrication
Arctic lubrication [1981, p 186, 189, eng] 35-3697

Arctic technology
Arctic technology [1980, p 145-218, eng] 35-51

Arend, E.
Brief summary of Arctic engineering and construction problems [1976, 20p., eng] 35-3404

Arikainen, A.I.
Experience in scientific information provided for the experimental cruise of the atomic icebreaker *Arktika* to the north pole [1981, p 137-139, rus] 35-3961
Forecasting spring ice phenomena in the Anadyr Bay [1980, p 68-76, rus] 35-3495
Long range forecasting of ice conditions in the Anadyr Bay in May [1980, p 77-82, rus] 35-3496
Peculiarities of formation of considerable glacial anomalies in the East Arctic during the summer of 1975 [1980, p 83-88, rus] 35-3497
Salinity and thermal state of Bering Sea waters as indices of development of the Chukchi flaw lead in June [1981, p 75-82, eng] 35-4134

Arinchenkov, V.I.
Operation of the lubrication, hydraulic and pneumatic systems of construction machines under northern conditions [1979, 111p., rus] 35-814

Arion, D.N.
Review of techniques for measuring soil moisture *in situ* [1980, 17p., eng] 35-976

Aristarain, A.J.
Contribution to the geochemical study of the ice cover on James Ross Island, Antarctic Peninsula [1980, p 113-126, spa] 35-3774

Aristovskaia, T.V.
Changes in bacterial biomass in soils of different geographic zones [1974, p 23-29, rus] 35-1204

Arkhangelov, A.A.
Cryogenic structure and facies changes in the ice-bearing loess (Edoma) series of the Duvannyy Yar, Kolyma lowland [1979, p 145-156, rus] 35-1835
Origin and conditions of formation of Upper Pleistocene ice-bearing silts in Chukochiy Yar, Kolyma lowland [1979, p 110-135, rus] 35-1833

Arkhangel'skii, I.V.
Offshore drilling of engineering-geological wells [1980, 263p., rus] 35-202

Armand, A.D.
Nivation cirques and rivers as self-organizing systems [1980, p 3-15, rus] 35-778
Transition zone between forest and swamp landscapes in the Lake Valday region [1979, p 194-213, rus] 35-4125

Armstrong, B.C.
Water and energy conservation alternatives for the North [1980, p 47-88, eng] 35-2110

Armstrong, R.L.
Analysis of compressive strain in adjacent temperature-gradient and equi-temperature layers in a natural snow cover [1980, p 283-289, eng] 35-2371

Army Science Conference, 12th, West Point, N.Y., U.S. Military Academy, June 17-20, 1980
Proceedings, Vol 1 [1980, 516p., eng] 35-1583

Arnold, H.W.
Ice depolarization statistics for 19-GHz satellite-to-earth propagation [1980, p 546-550, eng] 35-2412

Arockiasamy, M.
Viscoelastic analysis of calving glaciers [1980, p 37-41, eng] 35-2203

Artemenko, I.G.
Origin of the Timpton springs [1980, p 14-21, rus] 35-3990

Artemov, Z.P.
Strength and deformation properties of sandy loam with high ice content [1973, p 55-61, rus] 35-1602

Asaev, A.A.
Problems of the relations between climatic zones and exogenic relief formation [1978, p 9-21, rus] 35-12

Ashby, M.F.
Kink velocities on dislocation in ice, a comment on the Whitworth, Paren and Glen model [1976, p 951-961, eng] 35-151

Ashton, G.D.
Modeling of ice in rivers [1979, p 14.1-14.26, eng] 35-1127
Point source bubbler systems to suppress ice [1979, p 93-100, eng] 35-695
Proceedings of the Specialty Conference on Computer and Physical Modeling in Hydraulic Engineering [1980, 492p., eng] 35-255

Ashurov, U.
Saline soil stabilization with waste cinders [1980, p 16-17, rus] 35-479

Aslam, A.
Radar spectral observations of snow [1981, p 654-668, eng] 35-3440

Aslanikashvili, N.A.
Regularities of distribution of low subzero air temperatures in East Georgia [1980, p 80-88, rus] 35-2988

Asmatulaev, B.A.
Technology of soil stabilization with slag cements in freezing weather [1980, p 9-10, rus] 35-477

Assel, R.A.
Evaluation of climatic impact of the Niagara ice boom relative to air and water temperature and winter severity [1980, 31p., eng] 35-2936
Maximum freezing degree-days as a winter severity index for the Great Lakes, 1897-1977 [1980, p 1440-1445, eng] 35-883

Association of Asphalt Paving Technologists. Technical sessions, Denver, Colorado, Feb. 19-21, 1979
Proceedings (1979, 773p., eng) **35-331**

Assur, A.
Soviet construction under difficult climatic conditions (1980, p.47-53, eng) **35-1397**

Astapenko, P.D.
Weather and flights of airplanes and helicopters (1980, 280p., rus) **35-1362**

Atkins, J.T.
Environmental constraints on technology (1981, p.208-224, eng) **35-2505**

Atkinson, J.
Dynamics of NH4 and NO3 in cropped soils irrigated with wastewater (1980, 20p., eng) **35-872**

Audunson, T.
Transport measurements in the Arctic ice-pack (1980, p.293-302, eng) **35-833**

Aufdermaur, A.N.
Electrification by collisions of ice particles on ice or metal targets (1977, p.294-301, eng) **35-3777**

Australia. Department of Science and the Environment. Antarctic Division
Antarctic Treaty exchange information : particulars for the Australian National Antarctic Research Expeditions (ANARE) for 1980-81 (1980, 62p., eng) **35-1400**

Avalanche statistics for France, winter 1979-1980
Avalanche statistics for France, winter 1979-1980 (1980, p.3-20, fre) **35-3981**

Avdonin, N.A.
Mathematical description of crystallization processes (1980, 178p., rus) **35-2318**

Aver'ianov, V.G.
15th session of the Scientific Committee for Antarctic Research and the 9th meeting of the Coordinating Committee of the International Antarctic Glaciological Project (1980, p.128-132, rus) **35-2047**
Determining the components of antarctic ice cover mass exchange with the atmosphere (1981, p.10-16, rus) **35-2025**
Glaciochimatological research topics in Antarctica (1980, p.85-89, rus) **35-2182**
Morphometric features of the antarctic ice cover (1980, p.5-9, rus) **35-2024**
Thermal energy exchange between the ice cover and the atmosphere in East Antarctica (1981, p.32-39, eng) **35-3903**
Use of water balance method to evaluate precipitation measurement in Antarctica (1980, p.17-22, rus) **35-2026**

Avksent'ev, I.V.
Characteristics of mining excavations in permafrost areas (1979, p.105-106, rus) **35-199**
Improving mining techniques in coal and placer mines of the North (1979, p.106-108, rus) **35-200**

Avrutov, E.A.
Influence of degree of hydrophoby of external surface on the operational thermal regime of current-conducting deicing coating (1981, p.90-101, eng) **35-4135**

Axen, B.
Thermography control of heat insulation and tightness of buildings (1980, 214p., eng) **35-2004**

Ayras, M.
Problems of geochemical contrasts in Finnish soils (1977, p.34-44, eng) **35-2723**

Azmetov, Kh.A.
Device for anchoring pipelines (1980, p.6-7, rus) **35-621**

Azouni, M.A.
Model of rotating convective rolls in water over a freezing front (1981, p.450-454, eng) **35-3521**

Babanov, O.S.
Superpower turbines for Siberia and the Far East (1980, 135p., rus) **35-2447**

Babikov, B.V.
Drainage of paluded forests and alimentation of rivers (1980, p.14-26, rus) **35-1861**

Babin, L.A.
Treating earth with binders when laying pipelines on swamps (1980, p.23-24, rus) **35-313**

Babinski, Z.
Observation on permafrost within the Bayan-Nuurin-khotnor basin (Mongolia) (1976, p.1-17, pol) **35-1165**

Babintseva, R.M.
Resistance of forest soils to erosion in the Baykal Lake basin (1976, p.49-54, rus) **35-802**

Babkin, S.I.
Using radioacoustic sounding in determining temperature, wind speed and direction in the surface atmospheric layer (1980, p.36-45, rus) **35-770**

Babkina, L.P.
Mapping snow cover on plains from satellite survey data (1980, p.21-29, rus) **35-2970**

Baboshina, O.A.
Geothermal conditions of sedimentary mantle in the Siberian Platform (1980, p.5-13, rus) **35-1570**

Babushkin, M.N.
Biological components of landscapes in the eastern Baykal Amur railroad area (1979, 183p., rus) **35-1518**

Bachurin, G.V.
Climate and waters of Siberia (1980, 232p., rus) **35-3413**
Geographic aspects of redirection of river courses in West Siberia (1979, 135p., rus) **35-2320**
Long range program of complex studies of the Ob'-Irtysh Natural Resource Development Center (1979, p.3-16, rus) **35-2321**
Redistribution of water resources in the Central Region and studies of natural conditions in northern West Siberia (1980, p.52-56, rus) **35-1334**
Some results of regional and research station investigations of climate and waters in the Institute of Geography of Siberia and the Far East (1980, p.3-41, rus) **35-3414**
Waters of the Lake Baykal area (hydrographic outline) (1980, p.190-200, rus) **35-3426**

Backman, L.
Environmental impact of highway deicing (1980, 62p. + tables, swe) **35-570**

Badu, IU.B.
Buried glacier ice in the north of West Siberia (1921, p.66-77, rus) **35-1422**
Cryogenic structure and ice content of perennially frozen rocks in the West Siberian Platform (1980, 246p., rus) **35-385**
Regional forecasting of ground sagging depth due to permafrost thawing in the West Siberian Platform (1981, p.101-112, rus) **35-3460**

Bagdanavichene, Z.P.
Changes in bacterial biomass in soils of different geographic zones (1974, p.23-29, rus) **35-1204**

Bagdasarian, A.B.
Climatic problems of mountainous regions in the USSR (1980, p.29-36, rus) **35-1436**

Bagrov, N.A.
Movement of continental ice (1980, p.54-62, rus) **35-2249**

Bahadur, J.B.
Snow and glacier contributions in a Western Himalayan catchment (1980, p.121-125, rus) **35-1240**

Bai, Z.
Some features of radiation and heat balance of Batura Glacier (1980, p.57-82, chi) **35-4030**
Surface ablation and its variation of Batura Glacier (1980, p.83-98, chi) **35-4031**

Bailey, P.K.
Periglacial landforms and processes in the southern Kenai Mountains, Alaska (1980, 159p., eng) **35-949**

Baishev, B.B.
Analytical method of calculating runoff storage (1980, 200p., rus) **35-3641**

Baker, L., Jr.
Transient freezing of liquids in tube flow (1976, p.1-9, eng) **35-3922**

Baker, R.G.
Palynology of Pinedale sediments, Devlins Park, Boulder County, Colorado (1980, p.319-333, eng) **35-1668**

Baker, R.W.
Textural and crystal-fabric anisotropies and the flow of ice masses (1981, p.1043-1044, eng) **35-2716**

Bakhanov, V.P.
Modeling the evolution of ice aerosol, generated by carbon dioxide granules, in the turbulent wake behind the granules (1980, p.41-50, rus) **35-2990**

Bakhanova, R.A.
Evaluating quantities of free silver separating on AgI aerosol particles exposed to ultraviolet radiation (1980, p.102-106, rus) **35-2993**
Possibility of more effective use of AgI aerosol in cloud seeding (1980, p.98-101, rus) **35-2992**

Bakhtin, N.P.
Evaluating changes in hydrological regime of the Yenisey River due to human factors (1980, p.45-46, rus) **35-3114**

Bakkehoi, S.
Empirical calculations of snow-avalanche run-out distance based on topographic parameters (1980, p.165-177, eng) **35-2359**

Baklanov, A.M.
Studies of silver iodide ice-forming activity : 2. Influence of aerosol particle size and structure on the ice-forming activity (1980, p.61-65, eng) **35-1778**

Balabaev, F.G.
"Chernolgan-78" (1980, p.64-71, rus) **35-1809**
Mudflows in the areas of recent volcanic activities (1980, p.42-48, rus) **35-1805**

Baladi, G.Y.
Terrain-vehicle model for analysis of steerability of tracked vehicles (1980, p.135-149, eng) **35-1586**

Balandin, S.A.
Snow cover effect on vegetation distribution in the southeastern Chukotskiy Peninsula (1980, p.1719-1733, rus) **35-3219**

Balandin, V.N.
Experience in using airborne geodetic radar equipment for surveying ice drift and currents in the Gulf of Finland (1981, p.19-21, rus) **35-3936**

Balek, J.
Role of snow cover in the modelling of water balance (1980, p.152-157, rus) **35-1248**

Ball, J.
Vessel icing forecasts (1979, p.10-11, eng) **35-3925**

Ballantyne, C.K.
Short-lived damming of a high Arctic ice-marginal stream, Ellesmere Island, N.W.T., Canada (1980, p.487-491, eng) **35-1510**

Balshaw, K.M.
Antarctic glacial chronology reflected in the Oligocene through Pliocene sedimentary sector of the Ross Sea (1981, 140p., eng) **35-3915**
Marine sediment core descriptions IWSOE 68, 69, 70, Deep Freeze 79 (1981, 60p., eng) **35-2148**

Balzaretti, P.
Active avalanche protection : structural models (1981, p.61-66, ita) **35-3986**
Determining maximum snow depth for the purpose of avalanche control structure design (1980, p.44-46, ita) **35-223**
Remarks on snow static overloadings on building coverings in relation with weather conditions from January 1978 in Piedmont (1980, p.36-40, ita) **35-945**

Bankoff, S.G.
Crust behavior in simultaneous melting on a submerged flat plate (1979, p.40-53, eng) **35-3348**

Bannikova, I.A.
Water balance and productivity of Cobresia alpine meadow in the Eastern Khangai (MPR) (1980, p.27-35, rus) **35-1039**

Barabanshchikov, S.G.
Deformation of bearing ground and structure of the Community Center building in the Novyy Urengoy village (1980, p.7-9, rus) **35-449**
Stability of the national power grid in East and West Siberia (1980, p.14-16, rus) **35-624**

Baranov, A.M.
Weather and flights of airplanes and helicopters (1980, 280p., rus) **35-1362**

Baranov, G.I.
Space-time variations of hydrophysical fields of the Arctic Basin (1980, p.967-970, rus) **35-306**

Baranov, N.M.
Development of plants and the forest fire season in Transbaikal (1980, p.49-50, rus) **35-1767**

Baranowski, S.
Climate of West Spitsbergen in the light of material obtained from Isfjord Radio and Hornsund (1975, p.21-34, eng) **35-3609**
Glaciological investigations and glaciomorphological observations made in 1970 on Werenskiold Glacier and its forefield (1975, p.69-94, eng) **35-3611**
Meteorological and hydrological investigations in the Hornsund region made in 1970 (1975, p.35-59, eng) **35-3610**
Naled type of ice in front of some Spitsbergen glaciers (1977, p.85-89, eng) **35-3623**
Results of dating of the fossil tundra in the forefield of Werenskioldbreen (1977, p.31-36, eng) **35-3620**

Barbat, IU.P.
Using linear discriminant functions in evaluating avalanche danger conditions (1980, p.99-102, rus) **35-3580**

Bardin, V.I.
Specific features in the formation of chemical composition of natural waters in East Antarctica (1980, p.166-171, rus) **35-1251**

Bardyshev, O.A.
Modernizing prefabricated buildings for repair shops and preventive maintenance equipment at the Baykal Amur railroad (1981, p.17-19, rus) **35-2844**

Barica, J.
Factors controlling oxygen depletion in ice-covered lakes (1980, p.185-194, eng) **35-1164**

Barkley, S.A.
Nutritional ecology of microtine rodents : a simulation model of mineral nutrition of brown lemmings (1980, p.103-114, eng) **35-1786**
Soils and their nutrients (1980, p.219-254, eng) **35-1936**

Barkov, N.I.
Borehole compression in antarctic ice cover (1980, p.54-58, rus) **35-2032**
Glaciological research at the South Pole, Dome C and in the McMurdo Sound area in 1974-1976 (1980, p.107-113, rus) **35-2043**
Orientation of optical axes of ice crystals from Vostok Station ice cover (1980, p.70-74, rus) **35-2035**

Barnaby, I.E.
Snowmelt observations in Alberta (1980, p.128-137, eng) **35-2235**

Barnes, A.A., Jr.
Improved method for obtaining the water content values of ice hydrometeors from aircraft and radar data (1980, p.1293-1299, eng) **35-3865**

Barnes, J.C.
Snow hydrology studies using data from the Heat Capacity Mapping Mission (1981, p.1211-1217, eng) **35-3594**
Survey paper on remote sensing techniques to map snow cover (1981, p.123-132, eng) **35-3438**

Barnes, P.
Break in gouge character related to ice ridges (1981, p.333-343, eng) **35-3265**
Geologic processes and hazards of the Beaufort Sea shelf and coastal regions (1981, p.257-355, eng) **35-3261**

Geologic processes and hazards of the Beaufort Sea shelf and coastal regions (April-June 1979) (1980, p 130-188, eng) 35-1156

Geologic processes and hazards of the Beaufort Sea shelf and coastal regions (July-Sep 1979) (1980, p 189-192, eng) 35-1157

Geologic processes and hazards of the Beaufort Sea shelf and coastal regions (Oct-Dec 1979) (1980, p 193-249, eng) 35-1158

Reassessment of ice gouging on the inner shelf of the Beaufort Sea, Alaska - a progress report (1981, p 318-332, eng) 35-3264

Barnhardt, B.

Radar reflectivity and precipitation rate studies at Palmer Station and Faraday Base (1979, p 212-213, eng) 35-680

Barnhardt, R.

Log school - a case for appropriate design (1981, p 143-156, eng) 35-2504

Barrett, P.

Interaction of bryophytes and thermal cracking in the genesis of hummock and string-like microtopography in High Arctic tundra meadows (1979, p 70-79, ger) 35-2646

Barrett, S.

Window performance in extreme cold (1981, p 396-408, eng) 35-2514

Barrie, J.

Nearshore studies of marine benthos in the Makkovik Bay and Cartwright regions (1980, p 154-173, eng) 35-3094

Barrie, J.V.

Hibernia and Ben Nevis seabed study, Polaris V Cruise report, June 1980 (1980, 40p., eng) 35-1846

Ice scour studies on the Labrador shelf (1980, p 264-265, eng) 35-3097

Iceberg-seabed interaction (northern Labrador Sea) (1980, p 71-76, eng) 35-2209

Barron, E.J.

Ice-free Cretaceous? Results from climate model simulations (1981, p 501-508, eng) 35-3687

Barry, R.G.

Fast ice regimes of the Beaufort and Chukchi Sea coasts, Alaska (1979, p 129-152, eng) 35-699

Tundra climates (1981, p 81-114, eng) 35-3378

Barsdate, R.J.

Oil spill effects (1980, p 388-406, eng) 35-1756

Physics (1980, p 51-75, eng) 35-1750

Soils and their nutrients (1980, p 219-254, eng) 35-1936

Barsegian, A.V.

Experience in fabricating plates with porous glass-concrete thermal insulation (1980, p 22-26, rus) 35-1142

Barskii, B.L.

Advisability of using telescopic piles (1980, p 19-20, rus) 35-97

Barthelemy, J.L.

Performance of natural convection heat exchange system for subgrade cooling of permafrost (1980, p 235-261, eng) 35-1980

Bartishvili, G.S.

Hailstone formation under a dry regime and in mixed fractions (1975, p 140-150, rus) 35-1621

Methods of studying hailstone structure (1975, p 114-121, rus) 35-1619

Bartolomei, A.A.

Integral methods of determining the parameters of one-dimensional consolidation (1981, p 250-255, eng) 35-4151

Barutenko, A.S.

Concrete brands by frost resistance for meliorative structures (1980, p 9-11, rus) 35-780

Basharat'ian, P.P.

Improving the construction of underwater pipelines (1981, p 32-33, rus) 35-4241

Basharinov, A.E.

Kosmos 243 and Nimbus 5 experimental results on SHF radiative characteristics of the earth (1979, p 263-267, eng) 35-1690

Basic types of foundation design for buildings and underground structures in 1981-1985

Basic types of foundation design for buildings and underground structures in 1981-1985 (1980, p 7-9, rus) 35-1647

Basilier, K.

Growth of *Sphagnum riparium* Angstr. in relation to some environmental factors in the Stordalen mire (1980, p 191-207, eng) 35-1481

Basistov, M.A.

Designing and excavation of recesses in hard rocks under complicated geologic conditions (1980, p 5-7, rus) 35-1525

Bass, B.A.

Ways of improving excavation equipment for frozen ground (1980, p 24-27, rus) 35-601

Bass, D.W.

Stability of icebergs (1980, p 43-47, eng) 35-2204

Bastian, R.

Engineering assessment of aquaculture systems for wastewater treatment: an overview (1980, p 1-12, eng) 35-2860

Bastian, R.K.

Aquaculture systems for wastewater treatment: an engineering assessment (1980, 127p., eng) 35-2859

Bastin, B.

Study of a section taken across a rampart of a pingo scar in Brackvenn (1974, p 341-357, fre) 35-1995

Batalov, D.M.

Heat release of plugging cement hardening at low and subzero temperatures (1978, p 46-50, rus) 35-61

Pressure kinetics during freezing of dispersed systems in a closed space (1978, p 51-55, rus) 35-62

Studying heat release of plugging cements (1978, p 41-46, rus) 35-60

Bates, H.F.

Breaking ice with gravity waves (1980, p 148-153, eng) 35-1108

Plane waves in a viscoelastic floating ice sheet (1981, p 4269-4273, eng) 35-3912

Bates, R.E.

Analysis of ice jams and their meteorological indicators for three winters on the Ottauquechee River, Vermont (1981, 27p., eng) 35-3926

Lake Champlain: ice formation and ice free dates and predictions from meteorological indicators (1980, p 125-143, eng) 35-3153

New 2 and 3 inch diameter CRREL snow samplers (1980, p 199-200, eng) 35-3163

Winter thermal structure, ice conditions and climate of Lake Champlain (1980, 26p., eng) 35-2585

Bathelt, A.G.

Heat transfer during solidification around a cooled horizontal cylinder (1979, p 103-111, eng) 35-3353

Batzli, G.O.

Distribution, abundance, and foraging patterns of ground squirrels near Atkasook, Alaska (1980, p 501-510, eng) 35-3202

Herbivore-based trophic system (1980, p 335-410, eng) 35-1939

Herbivory: a strategy of tundra consumers (1981, p 359-375, eng) 35-3385

Nutritional ecology of microtine rodents: a simulation model of mineral nutrition of brown lemmings (1980, p 103-114, eng) 35-1786

Nutritional ecology of microtine rodents: digestibility of forage (1979, p 740-750, eng) 35-989

Nutritional ecology of microtine rodents: resource utilization near Atkasook, Alaska (1980, p 483-499, eng) 35-3201

Populations and energetics of small mammals in the tundra ecosystem (1981, p 377-396, eng) 35-3386

Production, assimilation and accumulation of organic matter in ecosystems (1974, p 205-217, eng) 35-2242

Some effects of mammalian herbivores and fertilization on tundra soils and vegetation (1980, p 565-578, eng) 35-3206

Baudais, D.J.

New rig for ice platform drilling (1981, p 41-44, eng) 35-1960

Bauer, A.

Experiences with moist salt for skid prevention on highways in Rhineland-Palatinate (1981, p 39-48, ger) 35-3984

Bauer, J.

Bering Sea ice-edge phenomena (1980, p 189-211, eng) 35-4140

Field observations of the Bering Sea ice edge properties during March 1979 (1980, p 2045-2055, eng) 35-3650

Baulin, V.V.

History of permafrost development in the USSR and methods of its study (1981, p 24-40, rus) 35-4067

Main stages of permafrost development in the northeast European USSR and western Siberia (1981, p 41-60, rus) 35-4068

Baur, P.S.

How to solve frozen-coal problems (1981, p 57-59, eng) 35-4015

Baxter, A.

C-axes growth rate of ice crystals (1976, p 219-230, eng) 35-4294

Bazeley, D.P.

Proceedings (1980, 505p., eng) 35-545

Proceedings (1980, 360p., eng) 35-3835

Bazhan, V.T.

Scraper with adjustable cutting angle (1981, p 20-21, rus) 35-2096

Bazhbeuk-Melikov, N.K.

Studying some properties of frozen sands in the process of dry enrichment (1977, p 15-28, rus) 35-3806

Bazhenova, O.I.

Cryomorphogenesis in Transbaikal steppes (1978, p 106-108, rus) 35-20

Frost shattering of soils in Transbaikal steppes (1980, p 107-115, rus) 35-3473

Bazhev, A.B.

Methods of determining internal seepage alimentation of glaciers (1980, p 73-81, 147-154, rus) 35-2820

Bazilevich, N.I.

Organization of spruce ecosystems in southern taiga (1979, 220p., rus) 35-4117

Beach thaw depth and the effect of ice-bonded sediment on beach stability, Canadian Arctic Islands

Beach thaw depth and the effect of ice-bonded sediment on beach stability, Canadian Arctic Islands (1980, p 103-125, fre) 35-2960

Beaglehole, D.

Transition layer on the surface on ice (1980, p 357-363, eng) 35-1063

Bean, R.M.

Changes in the volatile hydrocarbon content of Prudhoe Bay crude oil treated under different simulated weathering conditions (1981, p 109-119, eng) 35-2937

Beard, G.A.

Summary of snow survey measurements for Idaho and pertinent measurements in Montana, Wyoming, Utah and Nevada (1980, 393p., eng) 35-1843

Beaton, R.

New method and apparatus for testing air content of fresh concrete in situ (1980, p 472-476, eng) 35-1493

Beaty, K.G.

Preliminary comparison of runoff relationships and water budgets in three experimental lake basins in the continental, sub-Arctic and Arctic climatic regions of the Precambrian Shield (1979, p 516-535, eng) 35-431

Bechtel, R.B.

Post occupancy evaluation of a planned community in Arctic Canada (1980, 27p., eng) 35-2596

Post occupancy evaluation of a remote Australian community: Shay Gap, Australia (1980, 57p., eng) 35-2600

Beck, E.

Snow and avalanches in the Davos area (1980, p 30-43, ger) 35-2564

Becker, P.

Final technical development plans, Gulf of Alaska: North East Gulf of Alaska (Sale No 55), Lower Cook Inlet (Sale No 60), Kodiak (Sale No 62) - Fiscal Year 1981 (1980, 130p., eng) 35-2020

Beggs, G.C.

C-axes growth rate of ice crystals (1976, p 219-230, eng) 35-4294

Beghin, P.

Study of power avalanche flow on a scale model of an actual case (1980, 42-57, fre) 35-3983

Beglianova, M.I.

Ecologic-geographic analysis of the *Mitella nuda* L. spruce forest in the northern foothills of eastern Sayan (1981, p 37-52, rus) 35-3892

Behrendt, J.C.

Aeromagnetic and radio-echo ice-sounding measurements over the Dufek intrusion, Antarctica (1981, p 3014-3020, eng) 35-3362

Aeromagnetic and radio echo ice-sounding measurements show much greater area of the Dufek intrusion, Antarctica (1980, p 1014-1017, eng) 35-218

Behrens, H.

New results of the movement of melt water through the firn in the accumulation area of an alpine glacier (Kesselwandferner, Oetztal Alps) (1979, p 219-228, ger) 35-3731

Belinson, M.M.

Specifying the dependence of melting ice albedo on solar elevation (1979, p 108-112, rus) 35-2986

Bel'dei, V.V.

Assurance of reliable winter performance of electric locomotives (1979, p 10-15, rus) 35-456

Belinev, A.P.

Construction-engineering properties of peat soils in the Komi ASSR (1980, p 19-20, rus) 35-1033

Belinev, S.P.

Measuring the size of artificial ice-forming nuclei with diffusion batteries (1980, p 57-63, rus) 35-2865

Belinev, V.S.

Thermophysical characteristics of external walls consisting of two-layer panels with macroporous haydite concrete insulation (1979, p 81-87, rus) 35-4060

Belinova, T.V.

Phytoplankton in the area of the drift station "Severnyy polus-22" (1980, p 133-142, rus) 35-1321

Belinkov, A.A.

Design and construction of hydroelectric developments under severe climatic conditions (1980, p 68-72, rus) 35-1636

Belinkov, L.N.

Space distribution of mesoscale subsurface currents in the Amerasian subbasin of the Arctic Ocean (1980, p 752-754, rus) 35-1386

Vertical structure of the small-scale turbulent friction coefficient in the upper layer of the Arctic Basin (1979, p 116-120, rus) 35-4195

Belisle, J.

Characteristics of podzolised soils formed in carbonate-bearing tills in the Schefferville area (1981, p 85-95, eng) 35-3980

Bel'kind, M.B.

Drilling-crane assembly BKTS-1 (1981, p 25-27, rus) 35-3534

Bellegay, R.D.

Baseline data on chemical oceanography in the southern Beaufort Sea, 1974-5 (1980, 51p., eng) 35-2946

Beloglazov, N.I.

Loosening frozen ground by blasting (1980, p 12, rus) 35-1026

Belokonev, A.

Portable equipment for frozen-ground sampling (1979, p 78-79, rus) 35-336

Belonogova, A.E.
Optimizing the development and arrangement of the construction base in the Baykal Amur railroad area [1978, p 36-55, rus] **35-1277**

Belopukhova, E.B.
Formation and development of ridge-and-valley topography in Taz Peninsula [1980, p 95-101, rus] **35-3471**
Peculiarities of permafrost development in the Taz Peninsula in the Upper Pleistocene-Holocene [1981, p 92-96, rus] **35-4073**
Reconstruction of air temperature of the climatic optimum in West Siberia on the basis of investigations of permafrost composition and thickness [1981, p 78-84, rus] **35-4071**

Belorusova, Zh.M.
Thermokarst in Arctic regions of the USSR and abroad [1972, p 41-43, rus] **35-2424**

Belotserkovskaia, G.V.
Rig foundations for deep drilling in the North [1981, p 12-13, rus] **35-3341**

Belov, A.V.
Compiling a medium-scale vegetation map of the northern Baykal area from space survey data [1980, p 97-102, rus] **35-3543**

Belov, I.F.
High-strength pipes for overhead electrical contact systems [1981, p 6-7, rus] **35-2076**

Belova, A.A.
Vegetation and structure of peat deposits in the Sturginskoye Swamp [1970, p 49-50, rus] **35-2615**

Belova, G.M.
Design of residential and public buildings for the first climatic zone [1973, 75p, rus] **35-1596**

Belova, N.I.
Solar radiation absorption by snow, firn and ice in the Aktru glacial basin (Central Altai) [1970, p 53-64, rus] **35-1571**

Beltaos, S.
Field studies on the response of floating ice sheets to moving loads [1981, p 1-8, eng] **35-4217**
Flow resistance of fragmented ice covers (ice jams) [1979, p 93-126, eng] **35-407**
Proceedings [1981, 301p, eng] **35-2539**
Transverse mixing tests in natural streams [1980, p 1607-1625, eng] **35-4127**

Belykh, A.G.
Stability of the national power grid in East and West Siberia [1980, p 14-16, rus] **35-624**

Belzaretti, P.
Active avalanche protection: structural models [1981, p 61-65, ita] **35-3512**

Bendler, A.I.
BM-254 drilling equipment [1980, p 3-5, rus] **35-387**

Benedict, C.P.
Controlling iceberg toll: stability during towing around drillships [1981, p 109-114, eng] **35-3446**
Iceberg detection for Canadian frontier production [1981, p 115-122, eng] **35-3447**
Icebergs on the Grand Banks: oil and gas considerations [1981, p 109-114, eng] **35-4014**

Bengtsson, L.
Horizontal mixing in water quality modelling [1980, p 401-416, eng] **35-3794**
Runoff from a surface study plot [1979, 12p, eng] **35-3629**

Bennett, F.L.
Building construction technology under wintertime conditions: recent experience in interior Alaska [1980, p 16-31, eng] **35-1968**

Benoit, R.E.
Microflora: composition, biomass, and environmental relations [1980, p 255-290, eng] **35-1937**

Benson, C.S.
Air pollution in Alaska [1980, p 210-215, eng] **35-1489**
Alaska's snow [1980, p 207-205, eng] **35-1487**

Bent, C.
Accommodation design for remote settlements [1981, p 115-131, eng] **35-2502**

Bentley, C.R.
And if the antarctic ice sheet melts ... [1980, p 24-29, eng] **35-2963**
Dome C geophysical survey, 1979-80 [1980, p.2-5, eng] **35-3165**
Geophysical investigation of the dome C area [1979, p 98-100, eng] **35-670**
If West Sheet melts rapidly ... what then [1980, p 20-21, eng] **35-2954**
Variations in valley glacier activity in the Transantarctic Mountains as indicated by associated flow bands in the Ross Ice Shelf [1981, p.247-251, eng] **35-3036**

Bercha, F.G.
Effect of pile-ups and rubble fields on ice-structure interaction forces [1980, p 297-305, eng] **35-3634**

Berdnikov, V.V.
Relic cryogenic microrelief near Vyaz'ma [1981, p 200-211, rus] **35-3294**

Berenger, D.
Ice conditions affecting offshore hydrocarbon production in the Labrador Sea [1980, p 307-319, eng] **35-3100**

Beretta, M.
Sodium chloride solutions used to prevent highway icing [1980, p 17-19, ita] **35-222**

Berezina, N.A.
Interaction between swamps and the surrounding environments in the central part of the West Siberian Plain [1980, p 95-112, rus] **35-1444**

Berezinskii, N.A.
Equipment, technique and results of studying atmospheric ice-forming nuclei [1980, p 105-110, rus] **35-771**

Berezner, A.S.
Scales of runoff redistribution in the European USSR [1980, p 12-16, rus] **35-3106**

Berezovskii, B.I.
Use of systems theory in the organization of construction management in the Far North [1980, p 10-15, eng] **35-1967**

Berg, R.
Frost heave in an instrumented soil column [1980, p 211-221, eng] **35-737**

Berg, R.L.
Environmental engineering and ecological baseline investigations along the Yukon River-Prudhoe Bay Haul Road [1980, 187p, eng] **35-1768**
Field scaling rates of asphalt concrete overlays at low temperatures [1980, 11p, eng] **35-2002**
New Hampshire field studies of membrane encapsulated soil layers with additives [1980, 46p, eng] **35-977**
One-dimensional frost heave model based upon simultaneous heat and water flux [1980, p 253-262, eng] **35-742**
Road performance and associated investigations [1980, p 53-100, eng] **35-1770**
Some approaches to modeling phase change in freezing soils [1981, p 137-145, eng] **35-3670**

Bergen, J.D.
Slip-velocity hypothesis applied to hydraulically smooth wind flow over a snow cover [1980, p 447-452, eng] **35-2385**

Berger, R.L.
Roadside management [1980, p 22-25, eng] **35-3788**

Bergersen, O.F.
Wastage features of the inland ice sheet in central South Norway [1980, p 251-269, eng] **35-2140**

Bergin, T.J.
Wind generated electric power for sanitation services: a case study [1980, p 89-104, eng] **35-2111**

Bergman, H.
Area-harvesting as a method of estimating phytomass changes in a tundra mire [1980, p 127-137, eng] **35-1477**

Berkin, N.S.
Regularities of snow cover distribution in the Ushakovka River basin and their role in the spring flood runoff and ground water regime [1980, p 200-207, rus] **35-3427**
Studying local runoff in the forest-steppe of the Angara River area [1980, p 97-102, rus] **35-3462**

Berman, D.I.
Alpine tundras of the Bol'shoy Annachag Range (upper course of the Kolyma River) [1980, 178p, rus] **35-4332**
Biological cycle in forest tundras of the southern Magadan area [1979, 164p, rus] **35-4323**
Peat accumulation in intensively drained soils of the far northeastern USSR [1979, p 134-145, rus] **35-4330**
Soil algae on the southern spurs of Khasynskiy Range [1979, p 125-133, rus] **35-4329**

Bernard, W.F.
Dome's "kick tolerance" formula for safe Beaufort Sea drilling [1981, p 33-36, eng] **35-3277**

Bernini, U.
Temperature coefficient of the refractive index of H2O and D2O and proposed models of water structure [1980, p 1171-1177, eng] **35-1691**

Berri, B.L.
Satellite system for recording radio signals from dynamic processes in the lithosphere, at the earth surface, and in the atmosphere [1981, p 108-113, rus] **35-3336**

Berry, M.O.
Snow and climate [1981, p 32-59, eng] **35-3747**
Snowfall formation [1981, p 129-152, eng] **35-3749**

Bertasi, M.
Fibrous insulating materials as standard reference materials at low temperatures [1978, p 30-49, eng] **35-1126**

Berthel, R.O.
Improved method for obtaining the water content values of ice hydrometeors from aircraft and radar data [1980, p 1293-1299, eng] **35-3865**

Bertie, J.E.
On the determination from Raman spectra of the polarizability derivative with respect to the O-D bond stretching coordinate in the ices [1980, p 6352-6353, eng] **35-1696**

Bertsov, V.G.
Blastability of rocks under permafrost conditions [1980, p 252-255, eng] **35-964**

Bespalov, N.A.
Road construction machines and equipment manual [1980, 182p (Pertinent p 13-17), rus] **35-2684**

Bessonov, A.V.
Upbuilding ash tailings of the Tom-Usa State Regional Electric Power Plant [1981, p 37-38, rus] **35-4231**

Bettine, F.J.
Single wire ground return transmission for rural Alaska [1981, p 409-424, eng] **35-2515**

Bezruchko, N.P.
Scraper for frozen ground [1980, p 33-34, rus] **35-779**

Bezrukov, V.F.
Hydraulic models for studying temperature fields beneath embankments [1980, p 12-15, rus] **35-2779**
Modeling temperature regime in different types of ground cross-sections when building earth dams [1981, p 18-19, rus] **35-4245**

Bezuglyi, I.
Satellites help define icing areas [1980, p 28, rus] **35-1644**

Bhula, D.N.
Steel production structure for the Alaskan Beaufort Sea [1981, p 449-458, eng] **35-3452**

Bibiluri, L.Sh.
Effect of water vapor supersaturation on ice-forming properties of copper acetylacetonate [1980, p 31-36, rus] **35-2871**

Biddle, K.B.
Glacial marine sedimentation in the Ross Sea, DSDP sites 270-273 [1980, p 57-59, eng] **35-3173**

Bigl, R.A.
Hot-water drilling and coring at site J-9, Ross Ice Shelf [1979, p 60-61, eng] **35-649**

Bigolaro, G.
Fibrous insulating materials as standard reference materials at low temperatures [1978, p 30-49, eng] **35-1126**

Bilello, M.A.
Maximum thickness and subsequent decay of lake, river and fast sea ice in Canada and Alaska [1980, 160p, eng] **35-2588**
Pothole primer, a public administrator's guide to understanding and managing the pothole problem [1981, 24p, eng] **35-2758**

Bilialov, K.B.
Calculating avalanche retardation at the terminal section of the descent path when the snow flows through rows of wedge-shaped braking structures [1980, p 79-84, rus] **35-3577**

Billings, W.D.
Carbon and nutrient budgets and their control in coastal tundra [1980, p 458-482, eng] **35-1941**
Leaf ultraviolet optical properties along a latitudinal gradient in the arctic-alpine life zone [1980, p 612-617, eng] **35-829**
Tundra vegetational patterns and succession in relation to microtopography near Atkasook, Alaska [1980, p 473-482, eng] **35-3200**
Vegetational change and ice-wedge polygons through the thaw-lake cycle in Arctic Alaska [1980, p 413-432, eng] **35-3197**

Bindschadler, R.A.
Ice-sheet dynamics by satellite laser altimetry [1981, p 1012-1022, eng] **35-3593**

Birchfield, G.E.
Paleoclimate model of Northern Hemisphere ice sheets [1981, p 126-142, eng] **35-3676**

Biriukov, V.IU.
New data on structural geomorphology of coastal plains and the continental shelf of East Arctic seas in the USSR [1980, p 91-98, rus] **35-952**

Birks, H.J.B.
Modern pollen assemblages and vegetational history of the moraines of the Klutlan Glacier and its surroundings, Yukon Territory, Canada [1980, p 101-129, eng] **35-3720**
Present flora and vegetation of the moraines of the Klutlan Glacier, Yukon Territory, Canada [1980, p 60-86, eng] **35-3718**
Soil development on recent end moraines of the Klutlan Glacier, Yukon Territory, Canada [1980, p 87-100, eng] **35-3719**

Birman, B.A.
Probability and duration of wind velocities dangerous for navigation in the North Atlantic Ocean [1980, p 14-37, rus] **35-29**

Bishop, P.L.
Water pollution from snow removal operations [1980, p 377-388, eng] **35-851**

Biskopshaun, B.
Use of radar in polar areas [1981, p 303-305, eng] **35-3907**

Biswas, N.N.
Monitoring sea ice ridgebuilding and stresses [1980, p 209-236, eng] **35-3844**
Seismotectonic studies of western Alaska and sea ice studies in Beaufort Sea [1981, p 575-618, eng] **35-3250**

Bitkolov, N.Z.
Artificial snow cover for dust suppression on quarry roads at subzero air temperatures [1980, p 58-60, rus] **35-867**

Bjorklund, A.
Re-evaluation of ore potential at Korsnas, Finland, by means of geochemistry [1977, p 56-62, eng] **35-2725**

Bjorlykke, A.
Exploration for disseminated lead in southern Norway [1973, p 111-126, eng] **35-2749**

Bjornsson, H.
Avalanche activity in Iceland, climatic conditions, and terrain features [1980, p 13-23, eng] **35-2343**

Radio-echo equipment for depth sounding of temperate glaciers (1980, p.477-486, eng) 35-1509

Blachut, S.P.
Behavior of a polar ice-dammed lake, Ellesmere Island, Canada (1981, p.63-74, eng) 35-4084
Glacial hydrology of an ice-dammed lake, Ellesmere Island, N.W.T. (1976, 202p., eng) 35-1466

Blackey, E.A.
Materials availability study of the Dickey-Lincoln dam site (1980, p.158-170, eng) 35-153

Blagoveshchenskii, V.P.
Calculating vertical temperature gradients in Central Asian and Kazakhstan mountains (1979, p.83-87, rus) 35-190

Blaix, P.L.
Mechanical properties of snow: treatment as a Burgers body (1977, 31p., fre) 35-1885

Blake, W., Jr.
Lake sediment coring along Smith Sound, Ellesmere Island and Greenland (1981, p.191-200, eng) 35-3086

Blankenship, D.D.
Dome C geophysical survey, 1979-80 (1980, p.2-5, eng) 35-3165
Geophysical investigation of the dome C area (1979, p.98-100, eng) 35-670

Bleskina, N.A.
Deep stabilization of soils with synthetic resins (1980, 147p., rus) 35-875

Blinov, M.A.
Ballasting pipelines in the Far North (1980, p.23-25, rus) 35-1303

Blinov, N.I.
Oceanographic investigations in polar regions of the World Ocean (1980, 256p., rus) 35-2888

Bliss, L.C.
Current extractive industrial development, North America (1981, p.751-771, eng) 35-3399
North American and Scandinavian tundras and polar deserts (1981, p.8-24, eng) 35-3374
Physiology and life cycles of arctic-alpine plants (1980, p.65-78, eng) 35-581
Primary production of tundra (1981, p.187-225, eng) 35-3380
Proposed ecological natural landmarks in the Brooks Range, Alaska (1981, 175p., eng) 35-3554
Tundra ecosystems: a comparative analysis (1981, 813p., eng) 35-3373

Block, B.
Anticipate pipe freeze-ups (1980, p.34-35, eng) 35-850

Block, W.
Nanorchestes antarcticus Strandtmann (Prostigmata) from antarctic ice (1980, p.173-176, eng) 35-1073

Blokhin, IU.I.
Regularities of snow cover distribution in the Ushakovka River basin and their role in the spring flood runoff and ground water regime (1980, p.200-207, rus) 35-3427

Blouin, S.
Block motion from detonations of buried near-surface explosive arrays (1980, 62p., eng) 35-1999

Blumer, M.
Practical experience with ice-inhibiting pavements (1980, p.414-420, ger) 35-1131

Blunk, G.
Resistance of concrete to urea and freezing (1980, p.119-131, ger) 35-569

Blythe, P.A.
Convection in a porous layer for a temperature dependent viscosity (1981, p.497-506, eng) 35-3519

Boaz, I.B.
Steel production structure for the Alaskan Beaufort Sea (1981, p.449-458, eng) 35-3452

Bobbitt, J.
Environmental aspects of winter navigation into Lake Melville (1980, p.287-306, eng) 35-3099
Patterns of freeze-up in lake Melville (1980, p.266-286, eng) 35-3098

Bobby, W.
Viscoelastic analysis of calving glaciers (1980, p.37-41, eng) 35-2203

Bobkova, K.S.
Suction force and respiration rate of pine roots under northern conditions (1974, p.116-122, rus) 35-1927

Bobov, N.G.
Classification of geocryological conditions (1980, p.90-97, rus) 35-775

Bobrovitskaia, N.N.
Determining loci and dimensions of active soil erosion areas on aerial photographs (1980, p.108-111, rus) 35-2981

Bobryshev, A.V.
Calculating of snow cover stability on mountain slopes (1980, p.84-88, rus) 35-1231

Bobylev, V.A.
Disc-cutter excavators for frozen ground (1980, p.30-31, rus) 35-98

Boch, M.S.
Bogs in the vicinity of Lake Segezhskoye (Southern Karelia) (1980, p.27-38, rus) 35-392
Swamps of the Taymyr biogeocenologic research station (Tareya village) and its surroundings (1980, p.47-58, rus) 35-1404

Bocharov, V.I.
Seminar on lightning protection problems in polar regions and perennially frozen ground (1980, p.?, rus) 35-606

Bocharova, I.S.
Structurally unstable soils of different compositions and methods of estimating their engineering and geological properties (1980, p.167-175, rus) 35-1351

Bochin, V.A.
Road construction manual for engineers (1980, 511p. (Pertinent p.367-498), rus) 35-3888

Bockheim, J.G.
Pedology of the Darwin Glacier area (1979, p.58-59, eng) 35-647
Properties and classification of some desert soils in coarse-textured glacial drift in the Arctic and Antarctic (1980, p.45-69, eng) 35-219
Soil development and rock weathering in the Ellsworth Mountains, Antarctica (1980, p.33-34, eng) 35-3170
Soil development on moraines of Taylor Glacier, lower Taylor Valley, Antarctica (1980, p.341-348, eng) 35-225
Solutions and use of chronofunctions in studying soil development (1980, p.71-85, eng) 35-220

Boev, A.A.
Residential complex for 40 outpost workers (1980, p.31-32, rus) 35-1308

Bogatyrev, P.B.
Preventing water pollution when building underwater pipelines (1980, p.21-22, rus) 35-504

Bogdanov, B.G.
Stability of bench marks in perennially frozen ground (1980, p.22-23, rus) 35-1860

Bogdanova, E.G.
Atmospheric precipitation (1980, p.24-25, rus) 35-2807

Bogorodskii, P.V.
Acoustic effects produced by drifting ice breaking under an icebreaker's body (1980, p.67-70, rus) 35-372
Acoustic method of determining three-dimensional inhomogeneities in ice cover from a ship (1980, p.71-73, rus) 35-373
Statistical analysis of water temperature fluctuations in the central part of the Arctic Basin (1980, p.101-104, rus) 35-378
Using sound velocity measuring instruments in studying hydrophysical fields from drifting ice (1980, p.94-100, rus) 35-377

Bogorodskii, V.V.
Active methods for sea ice thickness measurements (1980, p.361-372, eng) 35-560
Active-passive radio system for sounding sea ice (1980, p.23-26, rus) 35-364
Electromagnetic properties of sea ice (1980, p.23-51, eng) 35-547
Ice -- Physical properties -- Modern methods of glaciology (1980, 384p., rus) 35-1123
Map of subglacial topography of the Vavilov Ice Dome (Severnaya Zemlya) (1980, p.192-194, rus) 35-2830
Physics of ice and ocean (1980, 157p., rus) 35-360
Radar technique of studying peat and sapropel deposits (1980, p.27-29, rus) 35-365
Simultaneous investigations of deformation, acoustic and electric properties of glacier ice (1980, p.51-55, rus) 35-369
Slow waves at the surface of the Arctic Ocean (1980, p.1466-1468, rus) 35-1387
Space-time variations of hydrophysical fields of the Arctic Basin (1980, p.967-970, rus) 35-306
Structure of electric parameters in the upper layers of Arctic drift ice in the ultra-high frequency range, allowing for real distributions of physical characteristics (1980, p.6-14, rus) 35-361
Studying plastic deformation of fresh-water ice under impact loads (1980, p.43-50, rus) 35-368
Synchronized measurements of ultra-low frequency acoustic and electromagnetic waves in marine environments (1980, p.80-86, rus) 35-375
Use of radio-echo measurements in determining the thickness and velocity of an antarctic ice sheet (1979, p.60-74, eng) 35-2886

Boguslavskii, L.D.
Economic effectiveness of optimizing the amount of thermal insulation of buildings (1981, 102p., rus) 35-3965
Improving the methods of optimizing thermal insulation levels of buildings (discussion) (1979, p.15-16, rus) 35-464

Bohlen, B.
The effects of alpine reservoirs on the environment; Proceedings, Vol.8C, technical meeting No.3 (1980, 12 papers, ger) 35-897

Boiarintsev, E.L.
Simplified genetic formula for calculating maximum spring flood runoff in the Upper Kolyma River basin (1980, p.3-11, rus) 35-2875

Boiarskii, I.IA.
Experimental study of avalanche-like movements of mudflows (1980, p.120-126, rus) 35-216

Boland, B.
Quality of sewage lagoon discharges during winter and impact on stream water quality and biota (1979, p.547-558, eng) 35-433

Bolduc, S.
Use of Markov chain in the study of snow occurrences (1970, 139p., eng) 35-4171

Bolikhovskii, V.
"Edoma" problems and puzzles (1980, p.265-271, rus) 35-3232

Bolotnikov, G.I.
Determining ice friction coefficient in natural conditions (1980, p.88-91, rus) 35-1017

Bolotnikova, E.G.
Thermal balance of the active layer and its possible variations during interzonal redistribution of river flow (1980, p.107-109, rus) 35-3125

Bolsenga, S.J.
New observations on the daily variation of natural ice albedo (1980, 36p., eng) 35-3921

Bolviken, B.
Exploration for disseminated lead in southern Norway (1975, p.111-126, eng) 35-2749
Geological, geophysical and geochemical investigations of the molybdenum-copper deposit at Langvatn, Setesdalsheiene, south-central Norway (1975, p.32-40, eng) 35-2736

Bolzan, J.F.
Glaciology of dome C area (1979, p.100-101, eng) 35-671

Bondarev, E.A.
Mathematical model of heat transfer between a semi-buried duct and the surrounding medium and its computer algorithm (1979, p.62-70, rus) 35-235
Mathematical modeling and experimental study of heat and mass transfer processes (1979, 136p., ru.) 35-233

Bondarev, L.G.
Uranium and plutonium isotopes in glaciers and waters of the Issyk-Kul' basin (1981, p.198-200, rus) 35-3302

Bonnet, G.
Seismic detection of avalanches (1980, p.30-41, fre) 35-3982

Boone, D.J.
Construction of an artificial drilling island in intermediate water depths in the Beaufort Sea (1980, p.231-247, fre) 35-2961
Construction of an artificial drilling island in intermediate water depths in the Beaufort Sea (1980, p.187-195, eng) 35-3633

Borg, S.G.
Early Miocene subglacial basalts, the East Antarctic ice sheet and uplift of the Transantarctic Mountains (1980, p.757-759, eng) 35-2792

Boriskova, G.A.
Solving an axially symmetrical two-dimensional problem of heat transfer between permafrost and a well in the process of drilling (1981, p.134-140, rus) 35-3291

Borisoglebskii, G.I.
Using the coefficients of brightness of natural formations in the interpretation of satellite photographs (1980, p.123-127, rus) 35-3798

Borns, H.W., Jr.
Ross Sea glaciations: events in the Lower Victoria Valley (1979, p.52-53, eng) 35-643

Borodachev, V.E.
Allowing for linear dimensions of ice blocks in visual evaluation of ice packing (1981, p.65-71, rus) 35-3947
Genetic-morphologic classification of cracks in ice covers (1981, p.79-84, rus) 35-3950
Ice surveying methods and results (1981, 144p., rus) 35-3933

Borodavkin, P.P.
Environmental protection in areas of main pipeline construction and operation (1981, 160p., rus) 35-3566
Pipeline construction and environmental protection (1980, p.14-15, rus) 35-1304

Borodin, N.N.
Evaluating conditions of lightning protection on northern petroleum fields (1980, p.35-37, rus) 35-629

Borodulin, V.V.
Distribution of ice cover thickness on the Lena, Vitim and Olekma rivers according to radar ice survey data (1980, p.112-124, rus) 35-2982
Role of naleds in the formation of ice cover on rivers (1980, p.56-77, rus) 35-1015

Borovikov, A.A.
Methods of remote measurements of air temperature and humidity at sea (1980, p.52-56, rus) 35-2639

Borovikova, L.N.
Modeling formation of runoff in a basin with widespread glaciation (1980, p.49-55, 130-134, rus) 35-2816

Bosikov, N.P.
Paleocryogenic structure of fluvio-glacial deposits in valleys of the Baykal Mountains (1980, p.153-156, rus) 35-3331

Bostian, C.W.
Ice depolarization at 11.7 and 19 GHz on slant paths in Virginia, USA (1981, p.148-153, eng) 35-3886

Botnikov, V.N.
Assessing several characteristics of antarctic ice (1980, p.88-92, rus) 35-1158

Botteron, G.
Preliminary observations on the distribution of permafrost in the Great Whale River basin, Ungava (1979, p.291-298, fre) 35-1045

Boucher, G.
New seismic evidence for a widespread occurrence of gas in submarine sediments at shallow depths, Prudhoe Bay, Alaska (1981, p.276-283, eng) 35-3262

Boucher, G. *(cont.)*
Seismic evidence for an extensive gas-bearing layer at shallow depth, offshore from Prudhoe Bay, Alaska (1981, p 63-71, eng) **35-2419**

Boudouris, G.
Depolarization thermocurrents in ice Ih at low temperature (1961, p 321-328, eng) **35-3690**

Boulton, G.S.
Marine seismic study of late Quaternary sedimentation and inferred glacier fluctuations along western Inverness-shire, Scotland (1981, p 39-51, eng) **35-2938**

Bourke, R.H.
Ocean circulation and fronts as related to ice melt-back in the Chukchi Sea (1981, p 4215-4230, eng) **35-3911**

Boutron, C.
Are the past variations of the stratospheric sulfate burden recorded in central antarctic snow and ice layers (1980, p 5645-5649, eng) **35-1119**
Historical record of global atmospheric pollution revealed in polar ice sheets (1980, p 210-215, eng) **35-2470**
Respective influence of global pollution and volcanic eruptions on the past variations in the trace metals content of antarctic snows since 1880's (1980, p 7426-7432, eng) **35-1911**
Sources of twelve trace metals in antarctic snows determined by principal component analysis (1980, p 5631-5638, eng) **35-1118**
Trace metals in remote Arctic snows: natural or anthropogenic (1980, p 574-576, eng) **35-1218**

Bouzoun, J.R.
Aquaculture for wastewater treatment in cold climates (1981, p 482-492, eng) **35-2519**
Land treatment systems and the environment (1979, p 201-225, eng) **35-2752**
Removal of organics by overland flow (1980, 9p., eng) **35-2052**
Spray application of wastewater effluent in a cold climate: performance evaluation of a full-scale plant (1980, p 620-626, eng) **35-2574**

Bovid, G.C.
Frost depth prediction for highway subgrade soils (1981, p 719-733, eng) **35-2533**

Bovis, M.J.
Soil loss in the Colorado Front Range: sampling design and areal variation (1978, p 10-21, eng) **35-1902**

Bowley, C.J.
Snow hydrology studies using data from the Heat Capacity Mapping Mission (1981, p 1211-1217, eng) **35-3594**

Boyd, D.W.
Snow and buildings (1981, p 562-579, eng) **35-3758**

Boyer, D.G.
Distributions of extreme snowfall in West Virginia (1980, p 36-44, eng) **35-3145**

Boyer, S.J.
Glacial geologic observations in the Dufek Massif and Forrestal Range, 1978-79 (1979, p 46-48, eng) **35-640**

Boyle, D.R.
Copper-molybdenum porphyry mineralization in central British Columbia, Canada: an assessment of geochemical sampling media useful in areas of glaciated terrain (1975, p 6-15, eng) **35-2735**

Boyne, H.S.
Active microwave water equivalence measurements (1980, p 119-129, eng) **35-1739**
Snow stratigraphy and water equivalence measured with an active micro-wave system (1980, p 225-233, eng) **35-2365**

Bozhinskii, A.N.
Calculating of snow cover stability on mountain slopes (1980, p.84-88, rus) **35-1231**

Bozozuk, M.
Foundation performance of a steel tower silo at Richmond, Ontario (1980, p.85-89, eng) **35-277**

Bradbury, J.P.
Limnology of the Klutlan moraines, Yukon Territory, Canada (1980, p.130-148, eng) **35-3721**
Paleolimnology of two lakes in the Klutlan Glacier region, Yukon Territory, Canada (1980, p.149-168, eng) **35-3722**

Bradford, J.D.
Bibliography on northern sea ice and related subjects (1980, 194p., eng) **35-890**

Bradley, R.S.
Multiple glaciations and marine transgressions, western Kennedy Channel, Northwest Territories, Canada (1981, p.71-89, eng) **35-2939**

Brady, H.T.
Cape Spirit mirabilite beds (1979, p 50-52, eng) **35-642**

Braham, R.R., Jr.
Role of the winter land breeze in the formation of Great Lake snow storms (1981, p.482-491, eng) **35-4005**

Braithwaite, R.J.
Glacier energy balance and air temperature: comments on a paper by Dr. M. Kuhn (1980, p.501-503, eng) **35-1513**

Braslavskii, A.P.
Specifying the dependence of melting ice albedo on solar elevation (1979, p.108-112, rus) **35-2986**

Bratenkova, E.S.
Meadows of the forest tundra river Yuri-Yakhi (1971, p 5-7, rus) **35-2685**

Braun, C.E.
Alpine bird communities of western North America: implications for management and research (1980, p 280-291, eng) **35-4235**

Bravard, Y.
Comparative geomorphology of mountain systems of the Alps and Caucasus (1981, p 313-318, fre) **35-3741**

Brecher, H.H.
Apparent surface lowering on Byrd Glacier between 1960 and 1978 (1980, p 64-65, eng) **35-3175**

Bredkina, L.I.
Distribution of lichens and mosses in forest steppes of the central Indigirka River area (1980, p 66-82, rus) **35-393**

Bredthauer, S.R.
Subarctic snowmelt runoff generation (1981, p 591-601, eng) **35-2526**

Breslina, I.P.
Coastal meadows of the Kandalakshskaya Guba, White Sea (1980, p 132-143, rus) **35-3075**
Flora of Srednie Ludy, the Kandalaksha Bay of the White Sea (1980, p 72-83, rus) **35-3069**

Brett, C.P.
Project Westmar — A shallow marine geophysical survey on the West Greenland continental shelf (1979, 29p., eng) **35-111**

Brezgunov, V.S.
Using natural, stable oxygen isotopes in studying estuarine salinity of Arctic seas (1980, p 101-105, rus) **35-469**
Water balance and the balance of stable oxygen isotopes in the Issyk-Kul' Basin (1981, p 10-14, rus) **35-3297**

Briazgin, N.N.
Method for monthly charting of antarctic atmospheric precipitation (1980, p 106-112, rus) **35-2183**
Variations in precipitation amounts in the lower courses of the Ob' and Yenisey rivers over a period of years (1980, p 101-103, rus) **35-3123**

Brimblecombe, P.
Lewis Glacier (Mt. Kenya) and possible links tropical climate (1981, p 63-78, eng) **35-3022**

Brink, G.E.
Process-oriented model for simulating avalanche danger (1980, p 53-63, eng) **35-2347**

Brochu, M.
Marine glaciology of the east coast of Greenland and prospects of oil production (1980, p 77-81, ita) **35-1674**

Brockett, B.E.
Infiltration characteristics of soils at Apple Valley, Minn., Clarence Cannon Dam, Mo, and Deer Creek Lake, Ohio, land treatment sites (1980, 41p., eng) **35-1726**

Brod, H.G.
Influence of deicing salts on soil and turf cover (1980, p 461-468, eng) **35-3771**

Brodersen, A.
Resistance of concrete to urea and freezing (1980, p 119-131, ger) **35-569**

Brodskaia, N.A.
Role of condensation in the water balance of hydraulically filled sands of tailings (1980, p 57-62, rus) **35-3995**

Brohm, D.R.
Application of removal and control methods — Section 1: Railways, Section 2: Highways, Section 3: Airports (1981, p 671-706, eng) **35-3763**

Bronfenbrener, L.E.
Approximate determination of temperature at the internal surface of a liquefied gas reservoir (1980, p.25-26, rus) **35-1306**
Studying heat transfer in natural ground during phase transformations (1980, p.6-8, rus) **35-101**
Studying temperature fields in natural ground (1980, p.8-10, rus) **35-1633**

Bronfenbrener, L.V.
Thermal regime of ground with thermally conductive inserts (1981, p.33-35, rus) **35-2786**

Bronitskii, E.I.
Road construction on West Siberian oil fields (1980, p.3-5, rus) **35-939**

Bronnikova, N.A.
Studying heat transfer in natural ground during phase transformations (1980, p.6-8, rus) **35-101**
Thermal regime of ground with thermally conductive inserts (1981, p.33-35, rus) **35-2786**

Bronson, W.A.
Spray application of wastewater effluent in a cold climate: performance evaluation of a full-scale plant (1980, p.620-626, eng) **35-2574**

Brooks, C.K.
Geomorphological observations at Kangerdlugssuaq, East Greenland (1979, 25p., eng) **35-4213**

Brooks, K.N.
Snowmelt modeling of upper Missouri River watersheds with SSARR (1980, p.72-82, eng) **35-2229**

Brooks, L.D.
Deepwater vibrator operations — Beaufort Sea, Alaska, 1979 winter season (1981, p.172-181, eng) **35-2578**

Brooks, R.L.
Ice freeboard determination by satellite altimetry (1980, p.295-304, eng) **35-555**

Broster, B.E.
Deposition of multiple lodgment till by competing glacial flows in a common ice sheet (1981, p.197-204, eng) **35-4092**

Brovko, P.F.
Climatic factors in the formation of coastal topography of the western Okhotsk Sea and northern Sakhalin Island (1976, p.50-56, rus) **35-1852**

Brown, A.C.
"Spinodals" in the mean field theory of freezing (1981, p.6960-6964, eng) **35-3693**

Brown, A.J.
California's transition from conventional snowpack measurements to a developing remote sensing capability for water supply forecasting (1980, p.11-19, eng) **35-1734**

Brown, E.G., Jr.
Water conditions in California, basic data supplement, July 1980 (1980, 29p., eng) **35-2059**

Brown, G.S.
Ice freeboard determination by satellite altimetry (1980, p.295-304, eng) **35-555**

Brown, I.C.
Hydrology (1978, p.247-251, eng) **35-3929**

Brown, J.
1977 tundra fire at Kokolik River, Alaska (1978, 11p., eng) **35-2591**
Abiotic components: introduction (1981, p.79, eng) **35-3377**
Arctic ecosystem: the coastal tundra at Barrow, Alaska (1980, 571p., eng) **35-1929**
Coastal tundra at Barrow (1980, p.1-29, eng) **35-1930**
Environmental engineering and ecological baseline investigations along the Yukon River-Prudhoe Bay Haul Road (1980, 187p., eng) **35-1768**
Geobotanical atlas of the Prudhoe Bay region, Alaska (1980, 69p., eng) **35-2150**
LANDSAT digital analysis of the initial recovery of burned tundra at Kokolik River, Alaska (1980, p.263-272, eng) **35-2462**
Point Barrow, Alaska, USA (1981, p.775-776, eng) **35-3400**
Road and its environment (1980, p.3-52, eng) **35-1769**
Tundra and analogous soils (1981, p.139-179, eng) **35-2705**

Brown, J.A.
Reclamation process as affected by the surface mining regulations (1980, p.148-152, eng) **35-586**

Brown, M.-L.
Analysis of ice jams and their meteorological indicators for three winters on the Ottauquechee River, Vermont (1981, 27p., eng) **35-3926**

Brown, R.A.
Modeling the geostrophic drag coefficient for AIDJEX (1981, p.1989-1994, eng) **35-3273**

Brown, R.J.E.
Permafrost distribution in the southern part of the discontinuous zone in Quebec and Labrador (1979, p.279-289, eng) **35-276**
Permafrost existence and distribution in the Chic-Chocs Mountains, Gaspesie, Quebec (1979, p.299-316, eng) **35-1046**

Brown, R.L.
Analysis of non-steady plastic shock waves in snow (1980, p.279-287, eng) **35-1822**
Numerical simulation of snow avalanche impact on structures (1980, 21p., eng) **35-849**
Propagation of stress waves in alpine snow (1980, p.235-243, eng) **35-2366**
Snow-avalanche impact on structures (1980, p.445-455, eng) **35-1507**

Brown, R.W.
Assessment of revegetation techniques for alpine disturbances (1980, p.126-146, eng) **35-585**

Brown, W.L.
Ice in the polar regions of the moon (1981, p.3949-3950, eng) **35-3908**

Browne, S.
Nearshore studies of marine benthos in the Makkovik Bay and Cartwright regions (1980, p.154-173, eng) **35-3094**

Browning, J.A.
Hot-water drilling and coring at site J-9, Ross Ice Shelf (1979, p.60-61, eng) **35-649**

Bruce, H.E.
Final technical development plans, Bering Sea: Norton Sound (Sale No.57), St. George Basin (Sale No.70), North Aleutian Shelf (Sale No.75), Navarin Basin (Sale No.83): Fiscal year 1981 (1980, 209p., eng) **35-2019**
Final technical development plans, Gulf of Alaska: North East Gulf of Alaska (Sale No.55), Lower Cook Inlet (Sale No.60), Kodiak (Sale No.62): Fiscal Year 1981 (1980, 130p., eng) **35-2020**

Bruggers, D.E.
Soil and permafrost conditions in the Alaskan Beaufort Sea (1980, p.325-338, eng) **35-3637**

Brugnot, G.
Snow and avalanche research in France (1980, p.73, eng) **35-2162**

Bruk, G.A.
Asynchronism of heavy and light snow winters in the basin of Lake Baykal [1976, p.145-148, rus] 35-1192
Brunner, K.
Remarks to the orthophoto map "Langtaler Ferner 1971", Scale 1:7500 [1979, p.195-199, ger] 35-3728
Brunsden, D.
Weathering [1979, p.73-129, eng] 35-1686
Brunson, J.O.
Adenosine triphosphate (ATP), chlorophyll, and organic nitrogen in endolithic microbial communities and adjacent soils in the dry valleys of southern Victoria Land [1980, p.164-166, eng] 35-3193
Bruun, P.
Design of mound breakwaters [1979, p.265-27?, eng] 35-176
Bubolo, L.S.
Ultrastructure of cells of leaf chlorenchyma in some Arctic plants [1980, p.1523-1530, rus] 35-3215
Buck, K.R.
Sea ice studies in the Weddell Sea aboard USCGC Polar Sea [1980, p.84-96, eng] 35-3188
Budaev, Kh.R.
Forest-strip method of reclaiming eroded soils [1976, 159p., rus] 35-799
Land reclamation resources, the present state and prospects of protective afforestation in Buryatiya [1976, p.10-1?, rus] 35-800
Regionalization of the Buryat ASSR for agriculture and forest strip method of land reclamation [1976, p.18-36, rus] 35-801
Budd, W.F.
Antarctic iceberg melt rates derived from size distributions and movement rates [1980, p.103-112, eng] 35-2214
Derivation of past climate changes from observed changes of glaciers [1981, p.31-52, eng] 35-3020
Growth and retreat of ice sheets in response to orbital radiation changes [1981, p.369-409, eng] 35-3040
Budgell, W.P.
Study of plankton ecology in Chesterfield Inlet, Northwest Territories, an arctic estuary [1980, p.185-197, eng] 35-3079
Bud'kov, S.T.
Forest resources of West Siberian taiga and their utilization [1980, p.5-50, rus] 35-881
Bufal, V.V.
Climate and waters of Siberia [1980, 232p., rus] 35-3413
Climatic conditions and microclimate of taiga geosystems in Siberia [1980, 232p., rus] 35-2485
Radiation balance of the Siberian taiga zone [1980, p.5-30, rus] 35-2486
Some results of regional and research station investigations of climate and waters in the Institute of Geography of Siberia and the Far East [1980, p.3-41, rus] 35-3414
Bufton, J.L.
Satellite laser altimeter for measurement of ice sheet topography [1981, p.1003-1011, eng] 35-3592
Bulkov, M.V.
Studying the effect of crystal shape on properties of mixed stratiform clouds [1980, p.51-63, rus] 35-2991
Bulnitskii, V.Kh.
New data on circulation of sea water and ice in the Southern Ocean [1980, p.3-18, rus] 35-1344
Oceanology from space [1980, 167p., rus] 35-1343
Bukhvalov, A.I.
Cutter bar excavating equipment mounted on T-74 tractors [1979, p.24-25, rus] 35-353
Buks, I.I.
Route of the Baykal Amur railroad and some problems for further study [1975, p.3-12, rus] 35-791
Bulanov, A.A.
Most powerful excavator ever built [1980, p.20-21, rus] 35-391
Bulatkin, R.
Winter maintenance of access roads [1978, p.78-80, rus] 35-2451
Bulatov, G.A.
Polyurethane foam insulation for pipelines [1980, p.37-38, rus] 35-100
Bulatov, N.V.
Eddy pattern of subarctic front in the northwestern Pacific [1980, p.61-72, rus] 35-1346
Bulavkin, V.M.
Determining optimal intervals between ice surveys in Arctic seas [1981, p.76-78, rus] 35-3949
Time dependence and optimal discreteness of ice packing observations [1981, p.72-75, rus] 35-3948
Bulgakov, A.B.
Climate peculiarities of alpine tundras in the upper courses of the Kolyma and Indigirka rivers [1980, p.7-31, rus] 35-4333
Bumpass, D.
Economic impact of proposed amendments to snowmobile noise regulations, R79-10 [1980, 11p. + appends., eng] 35-2856
Bunnell, F.L.
Arctic ecosystem: the coastal tundra at Barrow, Alaska [1980, 571p., eng] 35-1929
Between-site comparisons of carbon flux in tundra by using simulation models [1981, p.685-715, eng] 35-3396
Ecosystem synthesis - a "fairytale" [1981, p.637-646, eng] 35-3394
Herbivory - a strategy of tundra consumers [1981, p.359-375, eng] 35-3385
Microflora activities and decomposition [1980, p.291-334, eng] 35-1938
Microflora: composition, biomass, and environmental relations [1980, p.255-290, eng] 35-1937
Ungulates on arctic ranges [1981, p.397-483, eng] 35-3387
Burbank, D.C.
Circulation studies in Kachemak Bay and Lower Cook Inlet [1977, 207p., eng] 35-491
Environmental studies of Kachemak Bay and lower Cook Inlet. Vol.1: Impact of oil on the Kachemak Bay environment [1977, 123p., eng] 35-888
Burdick, J.
Ice force measurement on the Yukon River bridge [1981, p.749-777, eng] 35-2536
Burges, S.J.
Seasonal runoff volumes conditioned on forecasted total runoff volume [1980, p.1079-1084, eng] 35-1875
Burgess, M.
Ground temperature studies at an arctic drained lake site [1981, p.642-658, eng] 35-2527
Burns, N.M.
Lake Erie in mid-winter [1978, p.134-141, eng] 35-4320
Burns, S.F.
Alpine soil factors in disturbance and revegetation [1980, p.210-227, eng] 35-592
Burnshtein, A.V.
Horizontal freezing in tunnel construction in East Germany [1981, p.52-54, rus] 35-2084
Burova, L.P.
Moisture cycles in the lower course of the Ob' River and the Kara Sea and their possible variations due to interzonal redistribution of runoff [1980, p.131-135, rus] 35-3132
Burrell, B.
Conveyance capacity with ice cover for the Nashwaak River, N.B. [1981, p.34-56, eng] 35-2542
Burrell, D.C.
Marine environmental studies in Boca de Quadra and Smeaton Bay: physical and chemical, 1979 [1980, 134p., eng] 35-490
Some geochemical characteristics of Bering Sea sediments [1980, p.305-319, eng] 35-4146
Burton, R.
Icebreaking by hovercraft [1980, p.78-83, eng] 35-483
Burtsev, G.G.
New hydraulic excavator for mining assemblies of the "Severovostokzoloto" Association [1978, p.34-37, rus] 35-1080
Buschena, C.
Six-year growth of trees and shrubs along Minnesota roads especially as affected by deicing salts [1980, 31p., eng] 35-2942
Buser, O.
Electrification by collisions of ice particles on ice or metal targets [1977, p.294-301, eng] 35-3777
Influence of the observatory summit on radiation measurements [1980, p.152-154, ger] 35-2567
Observed maximum run-out distance of snow avalanches and the determination of the friction coefficients *mu* and *xi* [1980, p.121-130, eng] 35-2355
Bushueva, E.N.
Annual consumption and return of chemical elements by the biomass of green-moss spruce forest in the central taiga of Komi ASSR [1971, p.62-63, rus] 35-2612
Businger, J.A.
Turbulent heat flux from Arctic leads [1979, p.57-91, eng] 35-159
Buska, J.
Waste heat utilization through soil heating [1980, p.105-120, eng] 35-2112
Buska, J.S.
Window performance in extreme cold [1981, p.396-403, eng] 35-2514
Butler, M.
Macrobenthos [1980, p.297-339, eng] 35-1754
Butsenko, A.N.
Changes in temperature regime of cryogenic meadow-swamp soils due to cultivation [1980, p.134-136, rus] 35-2298
Effect of cryogenesis on physical properties and moisture regime of cryogenic meadow-swamp soils of the Baykal Amur railroad area [1980, p.102-104, rus] 35-2287
Butt, K.A.
Airborne impulse radar sounding of sea ice [1980, p.187-191, eng] 35-2244
Technology of an airborne impulse radar [1980, p.385-412, eng] 35-562
Buxton, R.
Frictional characteristics of materials sliding against ice [1980, p.283-289, eng] 35-1953
Buzin, V.A.
Evaluating changes in the dates of ice breakup on rivers due to runoff diversion [1980, p.20-32, rus] 35-1012
Factors determining maximum water level during ice jams [1980, p.33-39, rus] 35-1013
Hydrology [1980, 177p., rus] 35-1865
Buzuev, A.IA.
Evaluating areas of meltwater on ice from aerial photographs [1979, p.92-106, rus] 35-4192
Buzunov, Z.T.
Complex organization of snow removal [1980, p.10-11, rus] 35-5
Buzykin, A.I.
Moss cover effect on temperature regime of forest soils subject to long seasonal freezing [1980, p.141-143, rus] 35-2300
Buzzell, T.D.
Land treatment of wastewaters for rural communities [1975, p.23-39, eng] 35-2568
Bykov, A.S.
Unified electrical installation of the "Kapitan M. Izmailov" type icebreakers [1980, p.31-33, rus] 35-2635
Bykov, I.IU.
Ice melting in solutions of potassium salts [1980, p.11-13, rus] 35-632
Bystriakov, G.M.
Pale yellow soils of northern taiga in East Siberia and the Far East [1980, p.30-37, rus] 35-534
Bystrov, A.S.
Improving the methods of optimizing thermal insulation levels of buildings (discussion) [1979, p.15-16, rus] 35-464
Byzyniuk, V.T.
Instrument for measuring heat flux through enclosures [1979, p.127-131, rus] 35-4064
Cacchione, D.A.
Areas of active, large scale sand wave and ripple fields with scour potential on the Norton Basin sea floor [1981, p.315-331, eng] 35-3244
Cade, T.J.
Breeding of Say's Phoebe in Arctic Alaska [1973, p.360-361, eng] 35-4008
Cady, E.C.
Cryo-anchor-proven performance for Arctic foundation stabilization [1980, p.262-278, eng] 35-1981
Cahalan, R.F.
Energy balance climate models [1981, p.91-121, eng] 35-2579
Cai, X.
Basic features of the meltwater of Batura Glacier [1980, p.111-132, chi] 35-4033
Calculating the peak discharge of Batura Glacier [1980, p.133-145, chi] 35-4034
Migrating subglacial channel of Batura Glacier and the tendency of the new channel [1980, p.153-165, chi] 35-4036
Mud-rock flows in the vicinity of Batura Glacier [1980, p.146-152, chi] 35-4035
On the formation and future aspect of glacial mud-rock flow in Baltbare gully [1980, p.22-25, chi] 35-83
Calabrese, S.J.
Frictional characteristics of materials sliding against ice [1980, p.283-289, eng] 35-1953
Calder, J.A.
Eastern Bering Sea shelf: oceanography and resources [1980, 625p., eng] 35-4136
Final technical development plans, Bering Sea, Norton Sound (Sale No.57), St. George Basin (Sale No.70), North Aleutian Shelf (Sale No.75), Navarin Basin (Sale No.83), Fiscal year 1981 [1980, 209p., eng] 35-2019
Caldwell, M.M.
Leaf ultraviolet optical properties along a latitudinal gradient in the arctic-alpine life zone [1980, p.612-617, eng] 35-829
Calkin, P.E.
Lichenometric dating curve and its application to Holocene glacier studies in the central Brooks Range, Alaska [1980, p.245-264, eng] 35-1665
Sand dunes of Victoria Valley, Antarctica [1974, p.189-216, eng] 35-3139
Calkins, D.J.
Analysis of velocity profiles under ice in shallow streams [1981, p.94-111, eng] 35-2545
Measurement of the shear stress on the underside of simulated ice covers [1980, 11p., eng] 35-1723
Callaghan, T.V.
Life cycles, population dynamics and the growth of tundra plants [1981, p.257-284, eng] 35-3383
Cameron, J.J.
Water and energy conservation alternatives for the North [1980, p.47-88, eng] 35-2110
Cameron, R.D.
Effects of the Trans-Alaska pipeline on caribou movements [1980, 16p., eng] 35-3923
Campbell, W.J.
Application of microwave remote sensing for snow and ice properties [1981, p.951-957, eng] 35-3587
Arctic sea-ice variations from time-lapse passive microwave imagery [1980, p.99-106, eng] 35-1115
Continuum sea ice model for a global climate model [1980, p.187-196, eng] 35-2169
Observation of sea ice properties with the NIMBUS-7 SMMR [1981, ; 69-78, eng] 35-3433
Seasonal variation of total antarctic sea ice area, 1973-75 [1979, p.102-103, eng] 35-673

Canada. Environmental Assessment Panel
Alaska Highway Gas Pipeline Project, Yukon public hearings (March-April 1979) [1979, 126p., eng] 35-1120

Canadian Coastal Conference, Burlington, Ontario, April 22-24, 1980
Proceedings [1980, 460p., eng] 35-2957

Canadian Hydrology Symposium: 79-Cold Climate Hydrology, Vancouver, B.C., May 10-11, 1979
Proceedings [1979, 597p., eng] 35-403

Canadian Permafrost Conference, 4th, Calgary, Alberta, March 2-6, 1981
Abstracts [1981, 172p., eng] 35-2465

Cannon, P.J.
Environmental geology and geomorphology of the barrier island-lagoon system along the Beaufort Sea coastal plain from Prudhoe Bay to the Colville River [1981, p.619-634, eng] 35-3251

Carbee, D.L.
Thermal diffusivity of frozen soil [1980, 30p., eng] 35-2603

Carey, G.F.
Efficient solution of nonlinear time-dependent problems with applications to permafrost modeling [1980, p.185-192, eng] 35-734

Carey, K.L.
Estimating costs of ice damage to private shoreline structures on Great Lakes connecting channels [1980, 33p., eng] 35-2599

Carleton, A.M.
Polynya development in the Cape Thompson-Point Hope region, Alaska [1980, p.205-214, eng] 35-1662

Carlson, R.F.
Improvement of the Fairbanks atmospheric carbon monoxide transport model - a program for calibration, verification and implementation [1980, 49p., eng] 35-1841
Theory of aufeis and streambed erosion [1979, p.197-205, eng] 35-413

Carmack, E.C.
Wintertime temperature inversion in Kootenay Lake, British Columbia [1981, p.2024-2034, eng] 35-3275

Carmichael, T.J.
Evaluation of Ontario shoreline protection materials [1980, p.248-262, fre] 35-2962

Carrara, P.
Former extent of glacial ice in the Orville Coast region, Antarctic Peninsula [1979, p.45-46, eng] 35-639

Carrara, P.E.
Late-Neoglacial histories of the Agassiz and Jackson Glaciers Glacier National Park, Montana [1981, p.183-196, eng] 35-4091

Carroll, T.R.
Airborne snow survey using natural gamma radiation [1980, p.1-10, eng] 35-1161
Operational airborne measurement of snow water equivalent using natural terrestrial gamma radiation [1980, p.97-106, eng] 35-2232

Carsey, F.D.
Microwave observation of the Weddell polynya [1980, p.2032-2044, eng] 35-3649
Microwave radiance of early fall sea ice at 1.55 cm [1981, p.989-994, eng] 35-3590
Seasonal variation of total antarctic sea ice area, 1973-75 [1979, p.102-103, eng] 35-673

Carson, R.K.
Discharge/water level relationship for ice cover stability [1981, p.112-120, eng] 35-2546

Carstens, T.
Thermal ice forces [1980, p.1-33, eng] 35-508
Working group on ice forces on structures [1980, 146p., eng] 35-507

Carter, D.
Laws and mechanisms of apparent brittle fracture of river and lake ice [1971, 393p., fre] 35-330

Carter, P.A.
Little America: town at the end of the world [1979, 301p., eng] 35-2863

Cary, L.E.
Snow accumulation and ablation: a stochastic model [1979, p.32-43, eng] 35-1398

Cassell, E.A.
Spray application of wastewater effluent in a cold climate: performance evaluation of a full-scale plant [1980, p.620-626, eng] 35-2574

Cassidy, D.S.
Dry Valley Drilling Project: summary of core storage Florida State University and sample distribution [1979, p.231-232, eng] 35-681

Cassidy, W.A.
Antarctic search for meteorites, 1979-80 [1980, p.49-50, eng] 35-3171

Caskwell, R.A.
Variations of Lewis Glacier, Mount Kenya, 1974-78 [1979, p.292-297, eng] 35-358

Cavalieri, D.J.
Observation of sea ice properties with the NIMBUS-7 SMMR [1981, p.69-78, eng] 35-3433

Cegla, J.
Sedimentary and geomorphological consequences of the occurrence of naled sheets on the outwash plain of the Gas Glacier, Sorkappland, Spitsbergen [1977, p.63-84, eng] 35-3622

Chacho, E.
Snow drifting on phosphate mine dumps in southeastern Idaho [1980, p.31-42, eng] 35-2224

Chagelishvili, R.G.
Scientific basis of controlling avalanche formation and triggering by means of forest reclamation [1976, p.71-75, rus] 35-72

Chaika, A.T.
Determining design temperature of asphalt-concrete mixtures when transporting them at low and subzero air temperatures [1980, p.107-110, rus] 35-309

Chalich, P.C.
Sublimation and its control in the CRREL permafrost tunnel [1981, 12p., eng] 35-3736

Chamberlain, E.
Delineation and engineering characteristics of permafrost beneath the Beaufort Sea [1980, p.103-110, eng] 35-1153
Delineation and engineering characteristics of permafrost beneath the Beaufort Sea [1981, p.125-157, eng] 35-3256

Chamberlain, E.J.
Permafrost beneath the Beaufort Sea near Prudhoe Bay, Alaska [1980, p.35-48, eng] 35-1105

Chamberlain, J.M.
Sodium, magnesium, potassium and calcium concentrations in ice cores from the Law Dome, Antarctica [1981, p.771-776, eng] 35-2885

Chan, C.
Chinese research work on frozen ground and engineering work in the last 30 years [1979, p.7-12, chi] 35-2896

Chang, A.T.C.
Albedo of snow for partially cloudy skies [1981, p.371-389, eng] 35-3964
Comparative study of microwave radiometer observations over snowfields with radiative transfer model calculations [1980, p.215-229, eng] 35-3855
Incident flux and snow cover albedo for partially cloudy skies [1980, p.76-90, eng] 35-3149
Monitoring snowpack properties by passive microwave sensors on board of aircraft and satellites [1980, p.235-248, eng] 35-1746
On the angular variation of solar reflectance of snow [1981, p.465-472, eng] 35-3601
On the angular variation of solar reflectance of snow [1981, p.465-472, eng] 35-2750
On the angular variation of solar reflectance of snow [1981, p.465-472, eng] 35-2340
Remote sensing of snow properties by passive microwave radiometry GSFC truck experiment [1980, p.169-185, eng] 35-1742
Solar reflecta ice of a snow field [1979, p.121-128, eng] 35-698

Chang, M.
Distributions of extreme snowfall in West Virginia [1980, p.36-44, eng] 35-3145

Chang, T.C.
Global snow cover of 1978-79 as observed with the NIMBUS-7 SMMR [1981, p.83-84, eng] 35-3435

Chapin, F.S., III
Carbon and nutrient budgets and their control in coastal tundra [1980, p.458-482, eng] 35-1941
Control of tundra plant allocation patterns and growth [1980, p.140-185, eng] 35-1934
Ecotypic differentiation of growth processes in *Carex aquatilis* along latitudinal and local gradients [1981, p.1000-1009, eng] 35-4316
Field measurements of growth and phosphate absorption in *Carex aquatilis* along a latitudinal gradient [1981, p.83-94, eng] 35-4086
Nutrient allocation and responses to defoliation in tundra plants [1980, p.553-563, eng] 35-3205
Nutrients in tundra ecosystems [1981, p.647-683, eng] 35-3395
Response to fertilization by various plant growth forms in an Alaskan tundra: nutrient accumulation and growth [1980, p.662-675, eng] 35-830
Seasonal movement of nutrients in plants of differing growth form in an Alaskan tundra ecosystem: implications for herbivory [1980, p.189-209, eng] 35-1169
Vegetation: pattern and succession [1980, p.187-218, eng] 35-1935

Chapin, M.C.
Ecotypic differentiation of growth processes in *Carex aquatilis* along latitudinal and local gradients [1981, p.1000-1009, eng] 35-4316

Chapman, D.L.
Jokulhlaups on Snow River in southcentral Alaska [1981, 48p., eng] 35-3680

Charbonneau, J.O.G.
Glacier surveys in Alberta- 1979 [1981, , eng] 35-4208

Chari, T.R.
Hydrodynamic effects on iceberg gouging [1981, p.55-61, eng] 35-2418

Charushnikov, IU.A.
Some effects of artificial ice production by sprinklers [1980, p.254-260, rus] 35-1254

Chebotareva, V.A.
Temperature and salinity distribution in the Atlantic part of the Arctic Basin [1980, p.109-111, rus] 35-379
Using the radio-hydroacoustic technique in shallow water areas of the Arctic Basin [1980, p.112-118, rus] 35-380

Chechenkov, M.S.
Modern methods of hard ground excavation [1980, 127p., rus] 35-2881

Chee, S.P.
Influence of channel cross-section on the regime of streams in winter [1979, p.164-174, eng] 35-410
Investigation of the resistance coefficient for the underside of ice covers [1981, p.23-33, eng] 35-2541

Chekhovskii, A.L.
Main stages of permafrost development in the northeast European USSR and western Siberia [1981, p.41-60, rus] 35-4068
Present state and dynamics of permafrost in West Siberia near its southern boundary [1980, p.106-112, rus] 35-1533
Reconstruction of air temperature of the climatic optimum in West Siberia on the basis of investigations of permafrost composition and thickness [1981, p.78-84, rus] 35-4071

Chelnokov, V.L.
Problems of lightening underground structures and methods of constructing them under permafrost conditions [1980, p.131-140, eng] 35-963

Chen, D.
Measurement of permafrost table by portable seismograph [1980, p.9-12, chi] 35-2651

Chen, F.F.
Effects of natural convection in the melting region around a heated horizontal cylinder [1980, p.667-672, eng] 35-1677

Chen, J.
General features of Batura Glacier [1980, p.8-27, chi] 35-4027
Measuring of glacier variations by repeated terrestrial stereophotogrammetric method [1980, p.54-56, chi] 35-2668
Terrestrial stereophotographic mapping of the drainage area of Batura Glacier [1980, p.208-220, chi] 35-4040

Chen, S.
Chinese research work on frozen ground and engineering work in the last 30 years [1979, p.7-12, chi] 35-2896

Chen, X.
First International Symposium of Ground Freezing [1980, p.59, chi] 35-91
New stage in the development of measuring and testing technique in glaciology and cryopedology [1980, p.1-2, chi] 35-2648
Observations of frost heave and frost heaving force in the Jiangcan District, Qiliang Shan [1980, p.36-40, chi] 35-124
Pore water pressure of saturated gravel during freezing [1980, p.33-37, chi] 35-2916
Remote measuring and auto-recording of ground temperature [1980, p.7-9, chi] 35-2650
Survey of preventing cold region engineering constructions from frost damage in China [1981, p.734-740, eng] 35-2534

Cheng, G.
Measuring ground temperature of permafrost with thermistor [1980, p.66-68, chi] 35-2923

Cheng, J.
Terrestrial stereophotogrammetric surveying and mapping in the region of Mt. Qomolangma, the Batura Glacier in Karakoram [1980, p.22-28, chi] 35-2914

Cheng, K.
Some differences between the Chinese Ching-hai Tibet Plateau aged frozen ground and the old frozen ground in northern Canada [1979, p.39-42, chi] 35-2901

Cheng, K.C.
Wave formation and heat transfer at an ice-water interface in the presence of a turbulent flow [1980, p.619-640, eng] 35-521

Cheng, T.T.
Numerical computation of avalanche motion [1979, 12p., eng] 35-3552
Two-parameter model of snow-avalanche motion [1980, p.197-207, eng] 35-2362

Cheng, W.
Discussion on determining the content of (-2)(SO)4 [1980, p.70-71, chi] 35-2924

Chentemirov, M.G.
Science assists the builders of Siberia and the Far East [1980, 192p., rus] 35-1136

Chepurko, N.L.
Regionalization of the USSR by levels of demands for environmental protection measures [1981, p.44-50, rus] 35-4277

Cheremisov, K.M.
Thermal insulation properties of external enclosures of residential large panel buildings, series 135, designed for the Baykal Amur railroad area [1980, p.68-70, rus] 35-2102

Cherepanov, IU.P.
Single chemical admixture of composite nature for improving frost resistance of concretes [1980, p.13-14, rus] 35-781

Cherevko, V.I.
Modernizing prefabricated buildings for repair shops and preventive maintenance equipment at the Baykal Amur railroad (1981, p 17-19, rus) 35-2844
Cherkasov, A.E.
Asynchronism of heavy and light snow winters in the basin of Lake Baykal (1976, p 145-148, rus) 35-1192
Cherkasov, P.A.
Basic assumptions of the method of radiation balance calculation on the physical surface of mountain glaciers during ablation (1980, p 98-104, rus) 35-1235
Chemical composition and properties of Kazakhstan glacier meltwater (1980, p 162-166, rus) 35-1250
Radiation balance at the physical surface of mountain glaciers during ablation (1980, 143p., rus) 35-3963
Chernenok, V.N.
Organizing reclamation work in freezing weather in the Far East (1980, p 10-12, rus) 35-3537
Chernink, M.B.
Organizing land reclamation work in freezing weather (in the Leningrad region) (1980, p 59-61, rus) 35-1641
Chernivskii, V.L.
Spreading impregnating compounds over the surface of monolithic reinforced concrete in freezing weather (1981, p 67-71, rus) 35-4291
Chernitskii, A.V.
"Flying cranes" and their opportunities (1980, p 26-27, rus) 35-2
Chernoukhov, A.M.
Reclamation of heavy paluded soils in the Amur River area (1980, p 250-253, rus) 35-3060
Chernov, E.E.
Participating in major construction projects (1980, p 9-12, rus) 35-2632
Chernov, I.M.
Characteristics of ice cover in the lower Yenisey River (1980, p 38-44, rus) 35-452
Long-range forecasting of ice cover thickness in the lower course of the Yenisey River at Yeniseysk (the estuary area) (1981, p 21-28, rus) 35-4301
Chernov, V.A.
Modern technology of building cross-over poles (1980, p 57-61, rus) 35-603
Chernova, L.P.
Annotated list of Soviet literature on glaciology for 1978 (1980, p 216-283, rus) 35-2837
Glacier systems of the Northeastern USSR (1980, p 17-33, rus) 35-1532
Cherskii, N.
Technical equipment for the North (1981, p 26-28, rus) 35-2765
Chervinkov, V.A.
Cartographic-statistical method of studying interrelations among the components of natural environments in the Chita region (1980, p 114-124, rus) 35-1707
Chesnokov, V.A.
Temperature and freezing of soils in forest lands during drainage (1980, p 115-117, rus) 35-2292
Cheter, A.J.
New sediment trap and particulate flux measurements in Lower Cook Inlet, Alaska (1979, p 269-282, eng) 35-3810
Cheung, F.B.
Periodic growth and decay of a frozen crust over a heat generating liquid layer (1981, p 369-375, eng) 35-3517
Transient freezing of liquids in tube flow (1976, p 1-9, eng) 35-3922
Cheverev, V.G.
Experimental study of moisture migration and ice release in the frozen zone of thawing soils (1976, p 89-91, eng) 35-2405
Chi, J.
Glaciers in China (1980, c200p., eng) 35-1564
Solar penetration radiometer and its preliminary testing results (1980, p 12-14, chi) 35-2652
Chiao, K.
Structure and changing shape, due to ice melting, of the Quaternary stratum of the middle reaches of Hei-lung-chiang River (1979, p.61-66, chi) 35-2904
Chien, C.C.
Runoff of deicing salt in Buffalo, New York (1974, p.407-411, eng) 35-4257
Chigir, V.G.
All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct. 29-31, 1980. Abstracts (1980, 203p., rus) 35-2251
Cryogenic patterned microrelief (1979, p 66-101, rus) 35-1831
Freeze-thaw and thermal resources of soils with long seasonal freezing periods (1980, p.55-58, rus) 35-2269
Geocryology of northeastern Khangay (People's Republic of Mongolia) (1980, p 175-177, rus) 35-2310
Problems of rational development and preservation of soils in northern territories (1980, p.5-8, rus) 35-2252
Soil preservation in northern territories (1980, p.188-190, rus) 35-2313
Chikunov, A.M.
Truck-mounted hydraulic crane KS-3572 (1980, p 9-10, rus) 35-388
China. Ministry of Communications. Scientific Research Unit for the Ching-hai Tibet Highway
Problem of stability of the foundation in building the Ching-hai Tibet highway (1979, p 43-51, chi) 35-2902
Chirkova, A.A.
Results of a statistical analysis of conditions of avalanche formation (1980, p 74-78, rus) 35-3576
Chisholm, S.W.
SUNDAY, a simulation model of an arctic Daphnia population (1979, p 349-362, eng) 35-1785
Chistiaev, V.B.
Calculating water accumulation in the glacier ice-moraine complex during ablation periods allowing for heat balance of its different surfaces (1978, p 64-84, rus) 35-71
Chistiakova, T.N.
Use of satellites in surveying for urban construction (1981, 159p., rus) 35-4310
Chizhevskii, M.V.
Experience with the construction and performance of pile foundations under oil-pumping units (1981, p 125-127, eng) 35-2840
Industrial design of pile foundations of oil-pumping assemblies (1981, p 14-15, rus) 35-3343
Chizhik, V.I.
Studies of the temperature-dependence of the brine content of sea ice by the pulse NMR method (1981, 6p., eng) 35-2589
Study of the temperature-dependence of the brine content in sea ice by the pulsed NMR method (1980, p 535-537, eng) 35-3304
Chizhov, A.B.
Exogenic geologic processes and phenomena (Southern Yakutia) (1980, 227p., rus) 35-1701
Isotope methods of studying rock stream formation (1981, p 90-96, rus) 35-3300
Chizhov, A.N.
Calculating ice cover thickness on rivers and reservoirs (1980, p 40-55, rus) 35-1014
Distribution of ice cover thickness on the Lena, Vitim and Olekma rivers according to radar ice survey data (1980, p 112-124, rus) 35-2982
Investigations, calculations and forecasts of ice conditions on rivers (1980, 118p., rus) 35-1009
Role of naleds in the formation of ice cover on rivers (1980, p 56-77, rus) 35-1015
Chizhova, N.I.
Exogenic geologic processes and phenomena (Southern Yakutia) (1980, 227p., rus) 35-1701
Chizhova, V.P.
Regionalization of the USSR by levels of demands for environmental protection measures (1981, p 44-50, rus) 35-4277
Chkhikvadze, A.K.
Productivity of high altitude grass communities in the central Caucasus (1980, 159p., rus) 35-3899
Chmelik, F.
Port feasibility study, Nome, Alaska (1981, p 235-248, eng) 35-2506
Cho, H.-R.
On the orientation of ice crystals in a cumulonimbus cloud (1981, p 1111-1114, eng) 35-4043
Chochishvili, K.M.
Effect of water vapor supersaturation on ice-forming properties of copper acetylacetonate (1980, p.31-36, rus) 35-2871
Chong, T.M.Y.
Water supply system for the world's most northerly permanent community (1980, p 367-393, eng) 35-2129
Chosson, A.
Translational Raman spectrum of hexagonal monocrystalline ice (1981, p 120-126, fre) 35-3882
Choudhury, B.
Radiative properties of snow for clear sky solar radiation (1981, p 103-120, eng) 35-3667
Choudhury, B.J.
Albedo of snow for partially cloudy skies (1981, p 371-389, eng) 35-3964
Incident flux and snow cover albedo for partially cloudy skies (1980, p.76-90, eng) 35-3149
On the angular variation of solar reflectance of snow (1981, p.465-472, eng) 35-3601
On the angular variation of solar reflectance of snow (1981, p.465-472, eng) 35-2340
On the angular variation of solar reflectance of snow (1981, p.465-472, eng) 35-2750
Solar reflectance of a snow field (1979, p.121-128, eng) 35-698
Christa, R.
Artificial release of avalanches and its influence on the soil cover (1979, p 175-181, ger) 35-3726
Christensen, M.
Streamflow modelling for the Narsaq River Basin, Greenland (1980, p.81-86, 154-157, rus) 35-2821
Christensen, V.
Evolution of the water and sanitation policy and program in the Northwest Territories (1980, p.9-18, eng) 35-2108
Chroston, P.N.
Marine seismic study of late Quaternary sedimentation and inferred glacier fluctuations along western Inverness-shire, Scotland (1981, p.39-51, eng) 35-2938
Chu, L.
Research on a model of thermal treatment of frozen ground (1979, p 67-71, chi) 35-2905
Chuang, S.L.
Theoretical models for microwave snow response and applications to remote sensing (1980, p 147-167, eng) 35-1741
Chubakov, K.
Routes in the ice (1980, p 104-111, rus) 35-3231
Chubenko, A.G.
Avalanche activity in the upper course of Katun' River (1981, p 77-86, rus) 35-4303
Chubukov, L.A.
Weather-forming factors and their role in bioclimatology (1980, 108p., rus) 35-1448
Chudinovskikh, A.G.
Improving the design of oil field roads in western Siberia (1980, p 15-19, rus) 35-2780
Chudnovskii, A.D.
Role of transport in the outpost method of economic development of northern USSR (1981, p 25-30, rus) 35-4287
Chugunov, V.A.
Scheme for a generalized method of integral correlations for multivariate single phase Stefan problems and its applications (1980, p 43-52, rus) 35-2395
Chugunova, R.V.
Revegetation of larch (*Larix dahurica* Turcz) in the Zhigansk regions of the Yakut ASSR (1971, p 76-82, rus) 35-1393
Chum C.M.
Scattering and absorption by thin flat aerosols (1980, p 2066-2071, eng) 35-2409
Chumakov, I.U.M.
Influence of superplasticizers on concrete properties (1980, p 16-17, rus) 35-1649
Chung, P.
Chinese research work on frozen ground and engineering work in the last 30 years (1979, p 7-12, chi) 35-2896
Chupakhin, V.M.
Prospects of rational utilization of natural resources (1980, 113p., rus) 35-1423
Churakov, D.S.
Calculating precipitation contributing to spring flooding of rivers in the plains and foothills of the Altai Mountains (1977, p 35-39, rus) 35-1292
Churinov, M.V.
Manual of engineering geology (1981, 325p., rus) 35-4305
Churkin, M., Jr.
Ocean basins and margins Volume 5 The Arctic Ocean (1981, 672p., eng) 35-3431
Chzhan, R.V.
Soil moisture dynamics in low pressure dams under permafrost conditions (1981, p 117-121, rus) 35-3289
Cities vs. snow: how goes the battle
Cities vs snow how goes the battle (1981, p 37-38, eng) 35-4313
Ciupka-Luzzi, C.
Oceanographic data report from the north shore of the Gulf of St. Lawrence (1980, 52p., eng) 35-2011
Clapp, F.D.
Snow electromagnetic measurements (1980, p 93-117, eng) 35-1738
Clark, D.L.
Stratigraphy and glacial-marine sediments of the Amerasian basin, central Arctic Ocean (1980, 57p. + maps, eng) 35-1844
Clark, J.W.
Summary of satellite observations of Great Lakes ice 1974-1980 (1980, p 21-33, eng) 35-2159
Clark, L.K.
Winter city (1980, 16p., eng) 35-2714
Clarke, E.S.
Present condition (1980) of the TAPS gravel workpad (1981, p 678-692, eng) 35-2530
Clausen, H.B.
Surface accumulation on Ross Ice Shelf (1979, p 68-72, eng) 35-654
Clayton, L.
Glacier-bed landforms of the prairie region of North America (1980, p 457-476, eng) 35-1508
Clement, F.
Limitations to numerical modeling of ice in rivers (1981, p.243-262, eng) 35-2556
Recent improvements in numerical modelling of river ice (1981, p 263-280, eng) 35-2557
Closmann, P.J.
Effect of a heat-conducting well casing on temperature distribution in an observation well (1979, p 20-27, eng) 35-1113
Cloud G.
Measurement of surface strain rate in glaciers using embedded wire strain gages (1974, p 24-28, eng) 35-4319
Clough, J.W.
Ross Ice Shelf Project 1978-79 (1979, p 60, eng) 35-648
Surface accumulation on Ross Ice Shelf (1979, p 68-72, eng) 35-654
Clukey, E.C.
Geotechnical characteristics of bottom sediment in the northern Bering Sea (1981, p 389-419, eng) 35-3247

Clukey, E.C. *(cont.)*
Thermogenic gases in near-surface sediments of Norton Sound, Alaska (1981, p.251-260, eng) **35-3241**
Coakley, J.A., Jr.
Energy balance climate models (1981, p.91-121, eng) **35-2579**
Coen, G.M.
Subalpine cryosolic soils in Banff and Jasper National Parks (1980, p.579-581, eng) **35-1708**
Cohen, S.
Application of removal and control methods. Section 1. Railways. Section 2. Highways. Section 3. Airports (1981, p.671-706, eng) **35-3763**
Coker, W.B.
Relation of lake-sediment composition to mineralization in different limnological environments in Canada (1975, p.112-125, eng) **35-2739**
Colbeck, S.C.
Introduction to the basic thermodynamics of cold capillary systems (1981, 9p., eng) **35-3712**
Liquid distribution and the dielectric constant of wet snow (1980, p.21-39, eng) **35-1735**
Thermodynamics of snow metamorphism due to variations in curvature (1980, p.291-301, eng) **35-2372**
Cole, D.
Cyclic loading and fatigue in ice (1981, p.41-53, eng) **35-2417**
Cole, D.M.
Preparation of polycrystalline ice specimens for laboratory experiments (1979, p.153-159, eng) **35-700**
Cole, F.R.
Nutritional ecology of microtine rodents: digestibility of forage (1979, p.740-750, eng) **35-989**
Collier, B.D.
Herbivore-based trophic system (1980, p.335-410, eng) **35-1939**
Nutritional ecology of microtine rodents: a simulation model of mineral nutrition of brown lemmings (1980, p.103-114, eng) **35-1786**
Collins, C.M.
Fate and effects of crude oil spilled on subarctic permafrost terrain in interior Alaska (1980, 67p., eng) **35-2001**
Snow pads used for pipeline construction in Alaska, 1976 construction, use and breakup (1980, 28p., eng) **35-2584**
Collins, D.N.
Separation of runoff components in glacierized alpine watersheds by hydrochemical analysis (1979, p.570-581, eng) **35-435**
Collins, N.J.
Life cycles, population dynamics and the growth of tundra plants (1981, p.257-284, eng) **35-3383**
Colonell, J.M.
Port Valdez environmental studies: 1976-1978 (1980, p.907-917, eng) **35-985**
Colony, R.
Horizontal coherency of the motion of summer Arctic sea ice (1980, p.1281-1289, eng) **35-1052**
Comfort, G.
Field measurement of kinematic friction between ice and rigid structures (1980, p.303-321, eng) **35-3847**
Comiskey, A.
Vessel icing - know where to expect it (1976, p.6-7, eng) **35-3924**
Comiskey, A.L.
Superstructure icing in Alaskan waters (1980, 30p., eng) **35-3791**
Superstructure icing study (1980, 10p. + figs., eng) **35-2582**
Condiff, D.W.
Surface ablation by melting or sublimation on a submerged rotating disc (1979, p.134-147, eng) **35-3357**
Conference on Soil-Water Problems in Cold Regions, 4th, Calgary, Alberta, Canada, Sep. 19-20, 1979
Proceedings (1980, 262p., eng) **35-724**
Conference on the Use of Icebergs: Scientific and Practical Feasibility, Cambridge, UK, April 1-3, 1980
Proceedings (1980, 136p., eng) **35-2196**
Connor, B.
Farmers loop sinkhole (1980, p.6-10, eng) **35-3856**
Pavement structure evaluation of Alaskan highways (1980, 208p., eng) **35-893**
Rational seasonal load restrictions and overload permits (1980, 52p., eng) **35-1681**
Construction equipment for snow removal
Construction equipment for snow removal (1980, p.54, eng) **35-2138**
Construction sites of West Siberia
Construction sites of West Siberia (1981, p.13, rus) **35-2787**
Cooke, N.
Thermal analysis of thick concrete sections (1980, p.347-357, eng) **35-824**
Coon, M.D.
Ice flow through straits (1979, p.61-74, eng) **35-163**
Cooper, B.J.
Township of Temagami: one alternative for servicing a northern community (1980, p.140-149, eng) **35-2115**
Cooper, J.W., Jr.
Criteria for ice prevention in counterflow natural draft cooling towers (1980, p.47-53, eng) **35-3862**
Corradini, M.
Thermodynamical study of the Martian permafrost (1979, p.8115-8130, eng) **35-1103**
Cornish, C.R.
Meteorological and seasonal effects of snow chemistry of Ross Ice Shelf, Antarctica (1981, p.17-37, eng) **35-4147**
Time-related changes in snow chemistry - Ross Ice Shelf, Antarctica (1981, p.27-39, eng) **35-2416**
Corradini, M.L.
Forced convection melting heat transfer in a tube for a two component system (1979, p.55-68, eng) **35-3349**
Courtin, G.M.
Tundra climates (1981, p.81-114, eng) **35-3378**
Coutts, H.J.
Winter air pollution at Fairbanks, Alaska (1981, p.512-528, eng) **35-2522**
Coveney, D.B.
Peculiar melt pattern in fresh-water ice (1980, p.499-501, eng) **35-1512**
Railway track switch operable in snow and ice - Part 4 Prototype modifications (1980, p.11p. + 3 figs., eng) **35-832**
Cox, D.C.
Ice depolarization statistics for 19-GHz satellite-to-earth propagation (1980, p.546-550, eng) **35-2412**
Cox, G.F.N.
OSI ice stress sensor (1980, p.193-207, eng) **35-3843**
Coyne, P.I.
Carbon and nutrient budgets and their control in coastal tundra (1980, p.458-482, eng) **35-1941**
Crabb, J.A.
Triggering of lightning by corona from ice hydrometeors or colliding raindrops (1977, p.618-622, eng) **35-3781**
Cravalho, E.G.
Instability of the planar freeze front during solidification of an aqueous binary solution (1980, p.673-677, eng) **35-1678**
Crawford, M.A.
Wind generated electric power for sanitation services - a case study (1980, p.89-104, eng) **35-2111**
Crecy, L. de
Avalanche zoning in France - regulation and technical bases (1980, p.325-330, eng) **35-2375**
Creech, M.F.
Deferred maintenance (1980, p.15-22, eng) **35-3787**
Cremers, C.J.
Prediction of growth parameters of frost deposits in forced convection (1981, p.3-6, eng) **35-2145**
Crepault, J.
Geophysical study of a palsa field at Poste-de-la-Baleine, Ungava (1979, p.327-337, fre) **35-1048**
Crissman, R.D.
Ice transport in Great Lakes (1979, 275p., eng) **35-1773**
Crites, R.W.
Cost of land treatment systems (1979, 135p., eng) **35-2464**
Land treatment: present status, future prospects (1978, p.98-102, eng) **35-2760**
Crittenden, E.B.
Design of the built environment in cold regions (1981, p.103-114, eng) **35-2501**
Urban design lessons for Alaska (1981, p.16-23, eng) **35-2498**
Crossdale, K.R.
Ice forces on fixed, rigid structures (1980, p.34-106, eng) **35-809**
Croce, K.
Handbook for winter road servive (1978, 319p., ger) **35-152**
Croft, S.K.
Low-velocity impact craters in ice and ice-saturated sand with implications for Martian crater count ages (1979, p.8023-8032, eng) **35-1101**
Cromack, D.E.
Investigation of the feasibility of using wind power for space heating in cold climates; annual report for the period ending June 30, 1978 (1979, 110p., eng) **35-522**
Cronenberg, A.W.
Stefan-like problems in finite geometry (1979, p.69-80, eng) **35-3350**
Croot, D.G.
Scourge of surging glaciers (1976, p.328-334, eng) **35-3708**
Crory, F.E.
Piles in permafrost for bridge foundations (1967, 41p., eng) **35-2753**
Use of piling in frozen ground (1980, 21 p., eng) **35-2711**
Cui, Z.
On the periglacial mark in permafrost area and the relation between glaciation and periglaciation (1980, p.1-6, chi) **35-117**
Cummings, N.H.
Cold Regions Science and Technology Bibliography (1981, p.73-75, eng) **35-2420**
Cundy, T.W.
Snowmelt modeling of upper Missouri River watersheds with SSARR (1980, p.72-82, eng) **35-2229**
Currey, R.
Thawing of frozen water services (1980, p.310-313, eng) **35-2125**
Custer, T.W.
Demographic features of a Lapland longspur population near Barrow, Alaska (1977, p.505-525, eng) **35-1682**
Czajkowski, R.
Results of investigations into microquakes on the Hans Glacier (1977, p.119-138, eng) **35-3625**
Czajkowski, R.L.
Dynamic properties of frozen silt under cyclic loading (1980, p.963-980, eng) **35-526**
Dadone, L.U.
Helicopter icing review (1980, 233p., eng) **35-1731**
Daley, R.J.
Primary producers (1980, p.179-250, eng) **35-1752**
Zooplankton (1980, p.251-296, eng) **35-1753**
Dalinger, R.E.
Contribution to the geochemical study of the ice cover on James Ross Island, Antarctic Peninsula (1980, p.113-126, spa) **35-3774**
Dalmatov, B.I.
Interaction of asbestos-cement pipelines with freezing and heaving soils (1980, p.13-16, rus) **35-783**
Dalton, J.A.
Preliminary comparison of runoff relationships and water budgets in three experimental lake basins in the continental, sub-Arctic and Arctic climatic regions of the Precambrian Shield (1979, p.516-535, eng) **35-431**
Daly, S.F.
Modeling hydrologic impacts of winter navigation (1981, p.1073-1080, eng) **35-4166**
Danelliia, E.V.
Experimental study of dynamic loads exerted by ground on bridge piers (1980, p.50-55, rus) **35-146**
Danielian, IU.S.
Formation of ice laminae in freezing moist grounds (1980, p.103-107, rus) **35-874**
Kinetics of water freezing in moist grounds (1979, p.89-94, rus) **35-873**
Stability of the interphase surface in the freezing of moist ground (1981, p.781-785, eng) **35-3818**
Danilenko, I.I.
Utilization of explosive energy in construction (1981, 167p., rus) **35-3531**
Danilov, I.D.
Origin of moraine-like strata in plains of the North (1979, p.97-135, rus) **35-67**
Structure and evolution of lagoons and bars along the Arctic coast of the Chukotskiy Peninsula (1980, p.77-84, rus) **35-1765**
Studying coastal plains and shelves of Arctic seas (1979, 135p., rus) **35-64**
Danilov, M.P.
Floristic peculiarities of rocky landscapes in the forest belt of the Systyg-Khem River basin (western Sayan) (1981, p.119-133, rus) **35-3895**
Danilov, N.N.
Biocenotic role of animals in the Yamal forest tundra (1977, 146p., rus) **35-2866**
Role of animals in Subarctic biogeocenoses (1977, p.3-30, rus) **35-2867**
Danilova, N.P.
Performance of thermal deformation compensators during pipeline icing (1980, p.111-115, rus) **35-1365**
Danilova, N.S.
History of permafrost development in the USSR and methods of its study (1981, p.24-40, rus) **35-4067**
Yamal Peninsula (1981, p.84-91, rus) **35-4072**
Dankerl, J.
Methods for calculating the travel distance and impact pressure of flowing avalanches (1981, 125p., ger) **35-4211**
Dansgaard, W.
Ice core studies: dating the past to find the future (1981, p.360-361, eng) **35-2893**
Surface accumulation on Ross Ice Shelf (1979, p.68-72, eng) **35-654**
Daoo, V.J.
Snowmelt run off estimate from the Beas catchment in the Himalayas using energy balance techniques (1978, p.183-192, eng) **35-32**
Darve, F.
Incremental formulation of constitutive equations for deposited snow (1980, p.289-307, eng) **35-1823**
Mechanical properties of snow: finite element model study of a snow cover deposited on a slope (1979, 39p., fre) **35-1889**
Mechanical properties of snow: incremental rheological regularities (1979, 28p., fre) **35-1887**
Mechanical properties of snow: incremental rheological regularities, Pt.2 (1979, 21p., fre) **35-1888**
Das, M.S.
Snow and glacier contributions in a Western Himalayan catchment (1980, p.121-125, rus) **35-1240**

Dashkov, A.G.
Sand-concrete panels for building partitions [1980, p.19-21, rus] **35-502**
Dats'ko, P.S.
Differentiated evaluation of frozen ground strength [1980, p.73-80, rus] **35-1389**
Davar, K.S.
Conveyance capacity with ice cover for the Nashwaak River, N.B. [1981, p.34-56, eng] **35-2542**
General introduction [to Resistance to flow in ice covered rivers] [1979, p.32-51, eng] **35-405**
Davenport, C.V.
Fate and effects of crude oil spilled on subarctic permafrost terrain in interior Alaska [1980, 67p., eng] **35-2001**
Davey, C.T.
Electrostatics and the Arctic environment [1] [1976, p.1-8, eng] **35-3792**
Davids, R.
When the icehouse blooms [1980, p.56-63, eng] **35-248**
Davidson, C.I.
Deposition of trace metals and sulfates onto arctic snow [1981, 59p., eng] **35-4248**
Davidson, L.W.
Perspective on oilspill modelling offshore Labrador [1980, p.21-32, eng] **35-3091**
Davies, J.A.
Estimating the surface wind speed over drifting pack ice from surface weather charts [1979, p.421-429, eng] **35-157**
Davies, T.D.
Lewis Glacier (Mt. Kenya) and possible links tropical climate [1981, p.63-78, eng] **35-3022**
Davies, T.V.
Wave-ice interaction [1968, 102p., eng] **35-2647**
Davis, A.M.
Modern pollen spectra from the tundra - boreal forest transition in northern Newfoundland, Canada [1980, p.89-100, eng] **35-221**
Davis, A.S.
Asphalt viscosity: an indicator of low temperature fracture strain in asphalt mixtures [1979, p.221-237, eng] **35-332**
Davis, J.L.
Comparison of thermal and radar active layer measurement techniques in the Leaf Bay area, Nouveau-Quebec [1979, p.317-326, eng] **35-1047**
Electrical property measurements of sea ice *in situ* using a wideband borehole radar and a time-domain reflectometer [1980, p.155-187, eng] **35-551**
Davis, R.
Undisturbed measurement of the energy and mass balance of a deep alpine snowcover [1980, p.62-67, eng] **35-2227**
Davis, S.B.
Marine sediment core descriptions IWSOE 68, 69, 70; Deep Freeze 79 [1981, 60p., eng] **35-2148**
Davis, T.N.
United States Arctic science policy [1981, 62p., eng] **35-3738**
Davison, J.I.
Linear expansion due to freezing and other properties of bricks [1981, 24p., eng] **35-4209**
Davitaia, F.F.
Common and proper features of the climatic regime of glaciers and their oscillations [1981, p.319-328, fre] **35-3742**
Davos, Switzerland. Eidgenössisches Institut für Schnee- und Lawinenforschung
Snow and avalanches in the Swiss Alps, winter 1978 79 [1980, 155p., ger] **35-2563**
Davydov, A.K.
Economic effectiveness of using screw piles in foundations of exploratory well rigs [1921, p.14-15, rus] **35-4286**
Davydov, S.A.
Blastability of rocks under permafrost conditions [1980, p.252-255, eng] **35-964**
De Ponte, F.
Fibrous insulating materials as standard reference materials at low temperatures [1978, p.30-49, eng] **35-1126**
De Quervain, M.
Swiss Federal Institute for Snow and Avalanche Research on Weissfluhjoch, near Davos [1980, 54p., ger] **35-1877**
De Zaiacomo, T.
Experimental technique to study the effect of size on ice nucleations [1980, p.1448-1450, eng] **35-2423**
Dean, A.M., Jr.
Evaluation of ice-covered water crossings [1980, p.443-453, eng] **35-1587**
Dearborn, L.L.
Potential and developed water-supply sources in Alaska [1981, p.1-11, eng] **35-3682**
Deck, D.
Analysis of velocity profiles under ice in shallow streams [1981, p.94-111, eng] **35-2545**
Dedkov, A.P.
All-Union conference on climate, relief and human activities. Abstracts of the papers, Pt.1 [1978, 155p., rus] **35-11**
Dedkov, V.S.
Non-podsolized forest soils of Tannu-Ola (East Sayan Mountains) [1979, p.100-118, rus] **35-1790**
Deev, IU.A.
Spring ice jams in stream channels; physical principles and quantitative analysis [1981, 175p., eng] **35-3278**
Deeva, N.M.
Potential photosynthesis of West Taymyr plants [1980, p.145-164, rus] **35-1410**
Seasonal development of plants and plant communities at the Taymyr biogeocenologic station [1980, p.59-96, rus] **35-1405**
DeFelice, D.R.
Relative diatom abundance as tool for monitoring winter sea ice in the fluctuations in southeast Atlantic [1979, p.105-106, eng] **35-675**
Defense meteorological satellite program data
Defense meteorological satellite program data [1981, 4p., eng] **35-3900**
Degtiarev, A.D.
Computing ice loads in the lower 500 m layer of the atmosphere [1980, p.57-62, rus] **35-2985**
Degtiarev, V.N.
Calculating oil temperature in a hot line after shutdown [1980, p.9-11, rus] **35-927**
Temperature distribution over the cross-section of a large diameter hot oil line after shut-down [1979, p.5-8, rus] **35-492**
Degtiarev, V.V.
River transport of the Baykal Amur railroad area [1980, 89p., rus] **35-2966**
Deikin, B.N.
Space-time variations of naled albedo during thawing periods [1980, p.53-60, rus] **35-1869**
Delaney, A.
Delineation and engineering characteristics of permafrost beneath the Beaufort Sea [1981, p.125-157, eng] **35-3256**
Delaney, A.J.
HF to VHF radio frequency polarization studies in sea ice at Pt. Barrow, Alaska [1980, p.225-245, eng] **35-553**
Deleur, M.S.
Complex geocryological interpretation of space photographs [1980, p.98-106, rus] **35-3322**
Della Faille, G.
Methods for measuring melting salts on roads [1981, p.48-52, ger] **35-3985**
Various methods of measuring the quantity of melting agents on the road surface [1980, p.75-81, fre] **35-946**
Delmas, R.
Are the past variations of the stratospheric sulfate burden recorded in central antarctic snow and ice layers [1980, p.5645-5649, eng] **35-1119**
Contribution to the geochemical study of the ice cover on James Ross Island, Antarctic Peninsula [1980, p.113-126, spa] **35-3774**
Historical record of global atmospheric pollution revealed in polar ice sheets [1980, p.210-215, eng] **35-2470**
Delsol, F.
Study of gradient metamorphism by simulation in a cold chamber [1978, 42p., fre] **35-1890**
DeMark, D.J.
Design parameters for a South African iceberg power and water project [1980, p.129-133, eng] **35-2218**
Demchishin, M.G.
Conditions of landslide formation on clay slopes [1980, p.34-38, rus] **35-226**
Dem'ianov, V.A.
Analyzing the cenotic role of Gmelin larch at the extreme northern limit of woody vegetation (Taymyr) [1980, p.926-937, rus] **35-396**
Dem'ianova, F.N.
Temperature and moisture effects on microflora and nitrogen regime of transition-type peat soils [1980, p.114-123, rus] **35-1328**
Demin, I.D.
New design standards for airports [1980, p.17-18, rus] **35-612**
Dempsey, B.J.
Asphalt concrete for cold regions: a comparative laboratory study and analysis of mixtures containing soft and hard grades of asphalt cement [1980, 55p., eng] **35-2587**
Dempster, R.T.
Viscoelastic analysis of calving glaciers [1980, p.37-41, eng] **35-2203**
Denisov, A.P.
Grouping of mining blocks in mathematical modeling of placers [1978, p.9-19, rus] **35-1079**
Denisov, G.V.
Environmental protection in the North [1981, p.29, rus] **35-2784**
Fodder plants in the permafrost zone [1980, 182p., rus] **35-1121**
Oats in the permafrost zone [1979, 184p., rus] **35-812**
Denisov, IU.M.
Calculating the effect of morainal deposits on glacier melting [1980, p.67-80, rus] **35-717**
Computation of the mean vertical density of snow cover [1980, 4p., eng] **35-984**
Evaluating the effect of natural and artificial dusting on ice and snow melting [1980, p.67-72, 143-147, rus] **35-2819**
Denisov, V.V.
Calculating water movements in a partially ice-covered sea caused by cyclones [1979, p.49-59, rus] **35-934**
Denner, W.W.
"Pack ice and icebergs" - report to POAC 79 on problems of the seasonal sea ice zone: an overview [1979, p.320-337, eng] **35-178**
Relationship of stress and strain in sea ice [1980, p.5-32, eng] **35-3836**
Report to POAC 79 from the Symposium on Research in the Labrador Coastal and Offshore Region [1979, p.583-602, eng] **35-182**
Denoth, A.
Dielectric behavior of snow: a study versus liquid water content [1980, p.69-92, eng] **35-1737**
Densmore, D.
Vegetation and forest dynamics of the upper Dietrich River Valley, Alaska [1980, p.183p., eng] **35-2408**
Dent, D.
Scale modeling of snow-avalanche impact on structures [1980, p.189-196, eng] **35-2361**
Dent, J.D.
Modeling of snow flow [1980, p.131-140, eng] **35-2356**
Denton, G.H.
Arctic ice sheet: an outrageous hypothesis [1981, p.437-467 + 4 sheets, eng] **35-2070**
Glacial history of the Byrd-Darwin Glacier area, Transantarctic Mountains [1979, p.57-58, eng] **35-646**
Glacial history of the Ellsworth Mountains [1980, p.56-57, eng] **35-3172**
History of the marine ice sheet in West Antarctica during the last glaciation: a working hypothesis [1981, p.319-436 + 5 sheets, eng] **35-2069**
Last great ice sheets [1981, 484p., eng] **35-2062**
Last great ice sheets: a global view [1981, p.263-317 + 10 sheets, eng] **35-2068**
Late Wisconsin ice sheets in North America [1981, p.67-178 + 3 sheets, eng] **35-2064**
Deriugin, A.G.
Influence of basic physical characteristics on the strength of frozen ground [1980, p.45-53, rus] **35-3284**
Relation between loading speed and the strength of frozen ground [1981, p.53-70, rus] **35-3285**
Desiatkin, R.V.
Soil formation and vegetation in alassy of the Lena-Amga interfluve, their use and preservation [1980, p.72-79, rus] **35-1568**
Desinov, L.V.
Using satellite information in glaciology [1980, p.59-65, rus] **35-2975**
Deslauriers, P.C.
Field manual for cold-climate oil spills [1980, p.95-101, eng] **35-3878**
Observations of oil behaviour in ice floes and the 1977 *Ethel H* spill [1980, p.87-94, eng] **35-3877**
Desrues, J.
Incremental formulation of constitutive equations for deposited snow [1980, p.289-307, eng] **35-1823**
Mechanical properties of snow: experimental study by triaxial compression [1979, 25p., fre] **35-1886**
Mechanical properties of snow: finite element model study of a snow cover deposited on a slope [1979, 39p., fre] **35-1889**
Mechanical properties of snow: incremental rheological regularities [1979, 28p., fre] **35-1887**
Mechanical properties of snow: incremental rheological regularities. Pt.2 [1979, 21p., fre] **35-1888**
Deuser, W.G.
Concentration and isotopic composition of CO2 occluded in the polar ice [1979, p.78, eng] **35-658**
Deviatkin, V.N.
Geothermal conditions of the Yubileynaya kimberlite pipe [1980, p.79-82, rus] **35-3319**
Device for deicing ship's propellers
Device for deicing ship's propellers [1980, p.29, rus] **35-916**
Dey, B.
Applications of the satellite thermal infrared images for monitoring North Water during the periods of polar darkness [1980, 425-438, eng] **35-1505**
Monitoring winter sea ice dynamics in the Canadian Arctic with NOAA-TIR images [1981, p.3223-3235, eng] **35-3372**
Sea ice cover and related atmospheric conditions in Arctic Canada during the summer of 1978 [1980, p.2092-2097, eng] **35-3654**
Snow cover, snowmelt and runoff in the Mackenzie basin [1979, p.449-460, eng] **35-429**
Variations of August ice cover in the Beaufort Sea and related weather conditions [1980, p.213-217, eng] **35-894**
Dhaliwin, M.
Investigations on the currents influencing iceberg motion [1980, p.89-93, eng] **35-2212**
Dischuk, V.A.
Peculiarities of hailstone thawing and corona discharge in electrical fields [1980, p.107-118, rus] **35-2994**
Diaz, H.F.
Atlas of mean winter temperature departures from the long-term mean over the contiguous United States 1895-1979 [1980, 88p., eng] **35-707**

Dibrov, G.D.
Studying concrete strength after the introduction of some anionic surface-active substances [1980, p.64-66, rus] **35-308**

Dickason, O.E.
Methane productions in sanitary landfills in cold regions [1981, p.507-511, eng] **35-2521**

Diersch, H.-J.
Multiphase transport of matter, impulse and heat in unsaturated and saturated porous media [1980, p.351-407, ger] **35-3563**

Dietrich, H.
Methodological aspects of the geological investigation of the subglacial relief demonstrated by the example of the Hays Glacier [1980, p.20-24, ger] **35-2430**

Dietrich, R.
Vertical earth crustal movements and variations in gravity potential related to changing ice load [1980, p.47-51, ger] **35-2433**

Differences between permafrost in China and Canada
Some differences between the Chinese Ching-hai Tibet Plateau aged frozen ground and the old frozen ground in northern Canada [1979, p.39-42, chi] **35-2901**

Dikarev, A.N.
Research icebreaker *Otto Schmidt* [1980, p.3-6, rus] **35-2634**

Dilworth, I.J.
Propagation measurements due to rain and ice using the OTS satellite over the period January 1979-May 1980 [1981, p.126-132, eng] **35-3884**

Dimo, V.N.
Peculiarities of thermal regime of soils in the USSR as parameters of soil climate [1980, p.47-59, rus] **35-1449**

Dimov, L.A.
Testing peat soils with cylindrical- and flat-base dies [1980, p.12-14, rus] **35-1634**

Dinevich, V.A.
Results of field experiments on modification of supercooled fog [1980, p.3-11, rus] **35-2693**

Ding, D.
Divisional indexes and marks of horizontal distribution of permafrost in China [1981, p.659-663, eng] **35-2528**

Ding, J.
Method of determining the horizontal frost heave force *in situ* [1980, p.33-36, chi] **35-2662**

Dingman, S.L.
Climate, snow cover, microclimate, and hydrology [1980, p.30-65, eng] **35-1931**

Dinn, G.J.
Controlling iceberg roll stability during towing around drillships [1981, p.109-114, eng] **35-3446**

Dionne, J.C.
Ice action in the littoral zone of the eastern James Bay shore, Quebec [1980, p.80-92, fre] **35-2958**

Diudneva, N.I.
Effect of transportation expenses on the cost of construction and assembly of petroleum industry objects in the Central Ob' River area [1980, p.20-23, rus] **35-625**

Dinnin, A.K.
Redistribution of snow in the mountains under the effect of heavy snow-storms [1980, p.287-294, eng] **35-746**

Diurgerov, M.B.
Nature of snow cover density distribution along a Pionerskaya Station—Dome C profile [1980, p.66-69, rus] **35-2034**

Dizer, E.I.
Norms for designing pipeline anchors [1980, p.7-10, rus] **35-622**

Dmitrash, Zh. A.
New data on circulation of sea water and ice in the Southern Ocean [1980, p.3-18, rus] **35-1344**

Dmitriev, A.A.
Peculiarities of formation of considerable glacial anomalies in the East Arctic during the summer of 1975 [1980, p.83-88, rus] **35-3497**

Dmitriev, D.N.
Calculating elastic properties of ice at Vostok Station [1980, p.80-84, rus] **35-2037**

Dmitriev, P.A.
Problems in the improvement of wooden structures [1980, p.15-12, rus] **35-1086**

Dmitrievskii, V.A.
Improving the system of cargo transportation on winter roads [1981, p.15, rus] **35-3344**

Doake, C.S.M.
Polarization of radio waves in ice sheets [1981, p.539-558, eng] **35-2883**

Dobrinskii, A.A.
Fundamentals of sanitation and hygiene in urban construction of the Novosibirsk region [1974, 118p., rus] **35-805**

Dobromyslov, V.N.
Satellite data on antarctic ice conditions [1978, p.99-102, rus] **35-1002**

Dobromyslov, V.V.
Interannual and long-period variations of ice distribution in the Atlantic sector of the Antarctic [1981, p.40-44, eng] **35-3904**

Dobroumov, B.M.
Hydrometeorological provisions for the Baykal Amur railroad [1980, p.3-10, rus] **35-1791**

Dobrov, E.M.
Roadbeds built of high-moisture earth [1980, p.3-4, rus] **35-3003**

Dobshits, L.M.
New antifreeze admixtures for unheated concreting and grouting [1979, p.47-55, rus] **35-1278**

Relation between the frost resistance criterion and the real frost resistance of concretes [1981, p.19-20, rus] **35-3002**

Using the frost resistance criterion in forecasting frost resistance of concretes [1980, p.3-17, rus] **35-3525**

Dodson, S.I.
Body size patterns in arctic and temperate zooplankton [1979, p.940-949, eng] **35-3768**

Selective feeding of Red Phalaropes on zooplankton of arctic ponds [1980, p.755-763, eng] **35-2239**

Dokhunaev, V.N.
Root systems of trees and shrubs introduced in Yakutia [1980, p.25-32, rus] **35-4101**

Dokuchaev, V.V.
Analysis of foundations in permafrost [1980, p.97-117, eng] **35-1974**

Determining deformation properties of ground ice [1973, p.62-67, rus] **35-1603**

Foundation design for fine-grained sands and deep seasonal freezing [1973, p.3-11, rus] **35-1597**

Studying clay shale deformation during thawing [1973, p.12-22, rus] **35-1598**

Dokuchaeva, V.B.
Alpine tundra vegetation in the Bol'shoy Annachag Range [1980, p.93-109, rus] **35-4338**

Dolezalek, H.
Electrical processes in atmospheres [1977, 865p., eng] **35-3775**

Dolgilevich, M.I.
Biomass structure in narrow forest strips of West Siberian dry steppes [1978, p.57-68, rus] **35-1097**

Dolgin, I.M.
Antarctic climatic research [1980, 206p., rus] **35-2178**

Dolginskaia, T.M.
Prospects of utilization and preservation of land resources in the non-chernozem zone of the RSFSR [1980, p.35-41, rus] **35-1424**

Domack, E.W.
Clast shape as an indicator of transport and depositional mechanisms in glacial marine sediments: George V Continental Shelf, Antarctica [1980, p.813-820, eng] **35-884**

Late Quaternary geology of the George V and Adelie continental shelf, East Antarctica [1980, p.127-128, eng] **35-3192**

Marine sediment core descriptions IWSOE 68, 69, 70; Deep Freeze 79 [1981, 60p., eng] **35-2148**

Observations of sediment-laden icebergs in antarctic waters, implications to glacial erosion and transport [1980, p.387-396, eng] **35-1502**

Dome makes rich discoveries despite severe environment
Dome makes rich discoveries despite severe environment [1981, p.46-48, eng] **35-1962**

Donchenko, R.V.
Investigations, calculations and forecasts of ice conditions on rivers [1980, 118p., rus] **35-1009**

Methods of evaluating possible changes in river freezing regimes due to diversion of part of the runoff [1980, p.12-19, rus] **35-1011**

Model of the river freezing process [1980, p.3-11, rus] **35-1010**

Doanou, D.
Mission to Antarctica [1979, p.26-34, eng] **35-3369**

Dorman, B.A.
Studying the effect of crystal shape on properties of mixed stratiform clouds [1980, p.51-63, rus] **35-2991**

Dorofeeva, R.P.
Geothermal studies in the Baykal-Angarakan River area of the Baykal Amur railroad [1980, p.139-153, rus] **35-139**

Doroshenko, A.K.
Selection of methods for determining winter hardiness of introduced plants [1980, p.35-37, rus] **35-2445**

Doroshenko, I.G.
Thermosiphons for ice crossing construction [1980, p.21, rus] **35-503**

Dorrier, R.T.
Outer continental shelf oil and gas activities in the Gulf of Alaska (including lower Cook Inlet) and their onshore impacts: a summary report, September 1980 [1980, 78p., eng] **35-861**

Dorzhsuren, Ch.
Dynamics of pseudo-taiga larch phytocenoses of the Central Khangay (Mongolia) induced by successive felling [1980, p.87-97, rus] **35-2478**

Dostovalov, V.B.
Legends for detailed engineering-geological maps of permafrost areas [1981, p.42-43, rus] **35-2088**

Douglas, R.G.
Miocene stable isotope record: a detailed deep Pacific Ocean study and its paleoclimatic implications [1981, p.665-668, eng] **35-3137**

Dowding, P.
Nutrients in tundra ecosystems [1981, p.647-683, eng] **35-3395**

Dowse, B.E.W.
Design of hydrostatically supported sand islands for Arctic drilling [1980, p.49-54, eng] **35-1106**

Doyle, G.
Primary production of tundra [1981, p.187-225, eng] **35-3380**

Doyle, P.F.
Measuring peak runoff at culverts on the interior plains [1979, p.390-402, eng] **35-425**

Dozier, J.
Clear-sky spectral solar radiation model for snow-covered mountainous terrain [1980, p.709-718, eng] **35-438**

Drabkin, V.V.
Dynamic and morphometric peculiarities of ice cover in the Gulf of Finland [1978, p.137-144, rus] **35-1297**

Experience in using airborne geodetic radar equipment for surveying ice drift and currents in the Gulf of Finland [1981, p.19-21, rus] **35-3936**

Drake, D.E.
Areas of active, large scale sand wave and ripple fields with scour potential on the Norton Basin sea floor [1981, p.315-331, eng] **35-3244**

Drake, J.J.
Effects of surface dust on snowmelt rates [1981, p.219-223, eng] **35-4094**

Dreier, N.N.
Fifth meeting of the editorial board of the World Atlas of Snow and Ice Resources [1980, p.5-6, rus] **35-2803**

Snowmelt and glacial runoff [1980, p.25-26, rus] **35-2808**

Dreimanis, A.
Deposition of multiple lodgment tills by competing glacial flows in a common ice sheet [1981, p.197-204, eng] **35-4092**

Dreiseitl, E.
Mass balance of glaciers and general atmospheric circulation [1980, p.115-118, rus] **35-1238**

Dremliug, V.V.
Oceanographic investigations in polar regions of the World Ocean [1980, 239p., rus] **35-2888**

Drewry, D.J.
Aeromagnetic and radio-echo ice-sounding measurements over the Dufek intrusion, Antarctica [1981, p.3014-3020, eng] **35-3362**

Aeromagnetic and radio echo ice-sounding measurements show much greater area of the Dufek intrusion, Antarctica [1980, p.1014-1017, eng] **35-218**

Airborne geophysical investigations of ice sheet and bedrock, 1978-79 [1979, p.95-96, eng] **35-667**

Airborne radio echo sounding of glaciers in Svalbard [1980, p.261-266, eng] **35-943**

Pleistocene bimodal response of antarctic ice [1980, p.214-216, eng] **35-1075**

Stable isotope and radio echo sounding investigations of Taylor Valley, Victoria Land [1979, p.93-94, eng] **35-666**

Drilling north of the Arctic Circle
Drilling north of the Arctic Circle [1980, p.56-57, eng] **35-2139**

Driscoll, F.G., Jr.
Formation of the neoglacial surge moraines of the Klutlan Glacier, Yukon Territory, Canada [1980, p.19-30, eng] **35-3715**

Wastage of the Klutlan ice-cored moraines, Yukon Territory, Canada [1980, p.31-39, eng] **35-3716**

Drouin, M.
Impact properties of St. Lawrence River ice [1971, 78p., fre] **35-329**

Droumev, I.V.
On plastic design of an ice-strengthened frame [1978, 54p., eng] **35-4179**

Drozdov, O.A.
Changes in climatic conditions and moisture cycle in the atmosphere caused by redistribution of water resources [1980, p.133-149, rus] **35-1432**

Drozdovskaia, N.F.
Basic problems in forecasting avalanche danger [1980, p.35-40, rus] **35-713**

Glaciology of mountain regions (snow cover, avalanches and glaciers) [1980, 144p., rus] **35-709**

Glaciology of mountainous regions (snow cover, avalanches) [1980, 144p., rus] **35-3569**

Statistical methods of forecasting and their use in avalanche investigations [1980, p.48-63, rus] **35-3574**

Druzhinin, I.P.
Methodology of forecasting natural phenomena in Siberia [1980, 144p., rus] **35-148**

Druzhinin, N.I.
Land reclamation in the non-chernozem zone of the RSFSR [1980, 288p., rus] **35-996**

Druzhinina, N.P.
Biomass of flood plain plant communities in the Moil'sk area of the lower Irtysh River course [1979, p.76-89, rus] **35-2325**

Du, N.
Late-glacial floras in eastern China [1980, p.29-32, chi] **35-2915**

Dubbs, P.
Log school: a case for appropriate design [1981, p.143-156, eng] **35-2504**

Dubikov, G.I.
Cryogenic structure and ice content of perennially frozen rocks in the West Siberian Platform [1980, 246p., rus] **35-385**

Dubinchuk, V.T.
Possibilities of using cosmic radiation in determining the nature of mudflows [1980, p.85-89, rus] **35-774**

Dubnov, IU.D.
Swelling of frozen soils and its effect on structure foundations [1980, 286p., eng] **35-1697**

Dubreuil, M.A.
Some aspects of the recovery of a stream from iron ore activities near Schefferville, Quebec [1981, p.39-55, eng] **35-3978**

Dubrovin, L.I.
Infiltration and freezing of sea water in coastal glaciers [1980, p.104-108, rus] **35-1462**

Dubtsov, O.V.
Experience in fabricating plates with porous glass-concrete thermal insulation [1980, p.22-26, rus] **35-1142**

Duckstein, L.
Snow accumulation and ablation: a stochastic model [1979, p.32-43, eng] **35-1398**

Dudkin, A.S.
Increasing frost resistance of cemented clayey soils [1980, p.7-8, rus] **35-476**

Duerdil, Y.
Use of mercury as a pathfinder for buried base-metal deposits in the Parkejaure area, Swedish Lapland [1975, p.1-5, eng] **35-2734**

Dugarov, V.I.
Some functional interrelationships between the hydrothermal and cryogenic regimes of soils [1980, p.76-78, rus] **35-2277**

Dunbar, M.
Robeson Channel ice drift and oceanographic measurements, 1970-1975 [1980, 24p. + 125 figs., eng] **35-887**

Dunbar, M.J.
Marine life and its environment in the Canadian Eastern Arctic: a biogeographic study [1980, 119p., eng] **35-1760**

Dunn, B.P.
Carcinogenic load of the environment: benzo(a)pyrene in sediments of arctic waters [1980, p.807-814, eng] **35-2174**

Dunn, S.A.
Alternatives to sodium chloride for highway deicing (Abridgment) [1980, p.12-15, eng] **35-3786**

Dunne, T.
Land surface and lake storage during snowmelt runoff in a subarctic drainage system [1981, p.277-285, eng] **35-4260**

Dupre, W.R.
Ice-dominated regimen of Norton Sound and adjacent areas of the Bering Sea [1980, p.263-278, eng] **35-4144**

Durcheva, V.N.
Concrete dam of the Ust'-Ilim hydroelectric power plant (Field observations and studies) [1981, 137p., rus] **35-3898**

Durnev, V.F.
Climate-forming processes and their interactions in the Minusinsk Basin [1980, p.59-77, rus] **35-3417**
Description and analysis of spectra of the horizontal component of wind velocity over the Asiatic USSR [1980, p.196-210, rus] **35-2492**
General characteristics of local circulation and distribution of basic meteorological elements in the Minusinsk Basin [1980, p.77-104, rus] **35-3418**

Dushkin, M.A.
Solar radiation absorption by snow, firn and ice in the Aktru glacial basin (Central Altai) [1970, p.53-64, rus] **35-1571**

Dutta-Choudhury, M.K.
Isotope effects in aqueous systems. II. Excess volumes in H2O–D2O mixtures. The apparent molar volume of NaCl in an H2O–D2O mixture [1980, p.2735-2740, eng] **35-995**

Duval, J.
Production system is planned for iceberg infested waters [1980, p.81-86, eng] **35-831**

Duval, P.
Evidence of climatic change in Antarctica over the last 30,000 years from the Dome C ice core [1981, p.217-225, eng] **35-3032**

Dvalishvili, O.I.
Snow accumulation and melting in forested and open land in moist subtropical climate [1976, p.104-107, rus] **35-73**

Dwight, L.P.
Builder's guide to water and energy [1980, 78p., eng] **35-2021**

Dyke, L.D.
Bedrock heave in the central Canadian Arctic [1981, p.157-167, eng] **35-3085**

Dymina, G.D.
Floral-phytocenologic classification of grass communities in the Zeya-Bureya area of the Amur River region [1980, p.1392-1403, rus] **35-3213**

Dyrenkov, S.A.
Diversity of species in plant communities of spruce taiga forest [1981, p.26-33, rus] **35-3508**

Dysli, M.
Assessment of loss in carrying capacity after thawing [1980, p.394-399, fre] **35-1130**

Dzhordzhio, M.V.
Studying snow cover dynamics and evaluating mean discharge of the Amudar'ya River during the vegetation period from satellite photographs [1980, p.30-34, rus] **35-2971**

Dzhurik, V.I.
Engineering and seismic conditions of bridge construction for the Baykal Amur railroad [1980, p.164-173, rus] **35-140**
Velocities of seismic wave propagation in frozen and thawed rocks of northern Transbaikal [1980, p.96-103, rus] **35-776**

Dziubenko, L.F.
Calculating heat protection measures for earth dam construction by the wash-up technique, under severe climatic conditions [1980, p.103-108, rus] **35-2103**

Earth beneath the poles
Earth beneath the poles [1980, p.4-14, eng] **35-400**

Earth's heat may solve problem of dangerous iced bridge decks
Earth's heat may solve problem of dangerous iced bridge decks [1981, p.12, eng] **35-4161**

Eastern Snow Conference
Proceedings of the 37th annual meeting, June 5 and 6, 1980 [1980, 224p., eng] **35-3142**

Eastern-western Arctic sea ice analysis
Eastern-western Arctic sea ice analysis [1979, 104p., eng] **35-2928**

Eaton, F.D.
Multiple reflection effects on irradiance in the presence of Arctic stratus clouds [1981, p.2049-2057, eng] **35-3276**

Eaton, R.
Pothole primer; a public administrator's guide to understanding and managing the pothole problem [1981, 24p., eng] **35-2758**

Eaton, R.A.
Field cooling rates of asphalt concrete overlays at low temperatures [1980, 11p., eng] **35-2002**
New Hampshire field studies of membrane encapsulated soil layers with additives [1980, 46p., eng] **35-977**
Structural evaluation of porous pavement test sections at Walden Pond State Reservation, Concord, Massachusetts [1980, 43p., eng] **35-2006**

Ebihara, H.
New method of measuring snowflake size and falling velocity [1981, p.1-8, jap] **35-4201**

ECE Symposium on Human Settlements Planning and Development in the Arctic, Godthab, Greenland, Aug. 18-25, 1978
Human settlements in the Arctic [1980, 125p., eng] **35-2927**

Echert, D.C.
Bering Sea ice project [1980, 34p., eng] **35-3675**

Eckman, J.F.
Ship operations, Deep Freeze 79 [1979, p.234-235, eng] **35-682**

Edapin, V.A.
Determining thickness of subgrades made of earth weakly- or non-susceptible to frost heave (for clay earth dams in West Siberia) [1980, p.28-29, rus] **35-1642**

Edmiston, K.
Canadian Arctic - the promise [1981, p.35-37, eng] **35-1959**

Edwards, A.
Dynamics of NH4 and NO3 in cropped soils irrigated with wastewater [1980, 20p., eng] **35-872**

Edwards, J.S.
Diel activity patterns in snowfield foraging invertebrates on Mount Rainier, Washington [1980, p.359-368, eng] **35-1671**

Edwards, R.
Ship's hull as a test instrument [1980, p.237-274, eng] **35-3845**

Efimenko, A.I.
Organizing the construction of the Sayano-Shushenskaya hydroelectric power plant [1981, p.4-11, rus] **35-4280**

Efimenko, V.N.
Climatic subdivision of southeastern West Siberia for road construction [1980, p.19-21, rus] **35-481**
Using dispersion analysis for forecasting climatic effects on the spring moisture content of roadbeds [1977, p.95-103, rus] **35-75**

Efimov, A.B.
Method of a small parameter in the classical Stefan problem [1980, p.211-216, eng] **35-967**

Efimov, S.S.
Phase composition of sorption moisture at subzero temperature [1979, p.97-100, rus] **35-238**
Sorption properties and phase composition of pore water in silica gels of different porosity at natural subzero temperatures [1979, p.91-96, rus] **35-237**

Efremov, E.I.
Comparative effectiveness of pneumatic tube transportation in mines in southern Yakutia [1978, p.72-80, rus] **35-4114**

Efremov, S.P.
Changes in thermal properties of forest peat soils in West Siberia due to drainage [1980, p.124-126, rus] **35-2295**

Efremova, T.N.
Changes in bacterial biomass in soils of different geographic zones [1974, p.23-29, rus] **35-1204**

Efremova, T.T.
Changes in thermal properties of forest peat soils in West Siberia due to drainage [1980, p.124-126, rus] **35-2295**

Efroimson, V.A.
Some radiation effects in ice melting [1978, p.70-74, rus] **35-998**

Egger, D.L.
Selective feeding of Red Phalaropes on zooplankton of arctic ponds [1980, p.755-763, eng] **35-2239**

Egginton, P.A.
Impact of disturbance on mudboil activity, north Henik Lake, District of Keewatin [1981, p.299-303, eng] **35-3087**

Eglit, M.E.
Mathematical modeling of snow avalanches [1980, p.79-84, rus] **35-1230**

Egorov, E.G.
Economic problems of regional technical policy in the North [1978, p.3-14, rus] **35-4109**
Technical progress and production rate in the North (exemplified by the Yakut ASSR) [1978, 162p., rus] **35-4108**

Egorov, I.G.
Aerial surveys for hydrometeorological provision of national economy branches in the northern Caspian Sea [1981, p.14-18, rus] **35-3935**

Egorov, S.T.
Radiophysical methods of sounding atmosphere and ocean surface from space [1981, p.63-70, rus] **35-3542**

Egorov, V.F.
Container transportation of superphosphate to the Far North [1980, p.13, rus] **35-543**

Egorova, A.A.
Biological peculiarities of tussock-forming sedge in the lower course of Kolyma River area [1980, p.44-65, rus] **35-284**

Egorova, G.N.
Landscape structure of the Sibit-Tyellakh River basin [1980, p.32-53, rus] **35-4334**
Recent processes which formed the present surface of the Yana-Indigirka Plain [1976, p.55-65, rus] **35-3830**

Egorova, N.V.
Changes in chemical composition of litter decaying in peat soils [1980, p.135-155, rus] **35-1329**

Egorova, R.A.
Changes in chemical composition of litter decaying in peat soils [1980, p.135-155, rus] **35-1329**

Egupov, A.A.
Improving stability of physico-chemical and detonation properties of simplest explosives [1978, p.84-97, rus] **35-1083**

Egupov, P.E.
Studying some properties of frozen sands in the process of dry enrichment [1977, p.15-28, rus] **35-3806**

Ehwald, E.
Genesis of burozems and of brown forest and taiga soils similar to them [1980, p.131-143, eng] **35-4154**

Eidel'man, S.IA.
Concrete dam of the Ust'-Ilim hydroelectric power plant (Field observations and studies) [1981, 137p., rus] **35-3898**

Eidsvig, P.
Exploration for disseminated lead in southern Norway [1973, p.111-126, eng] **35-2749**
Geological, geophysical and geochemical investigations of the molybdenum-copper deposit at Langvatn, Setesdalsheiene, south-central Norway [1975, p.32-40, eng] **35-2736**

Eisenhawer, S.W.
Forced convection melting heat transfer in a tube for a two component system [1979, p.55-68, eng] **35-3349**

Eisler, L.A.
Experimental and analytical method of studying oscillations, stresses and stability of bases beneath foundations of machines [1981, p.7-21, rus] **35-4288**

Eisner, H.
Tracing the flow of meltwater in the water table of a temperate glacier [1979, p.229-234, ger] **35-3732**

Ek, J.
Use of mercury as a pathfinder for buried base-metal deposits in the Parkejaure area, Swedish Lapland [1975, p.1-5, eng] **35-2734**

Ekba, IA.A.
Effect of crystalline phase on hailstone growth [1975, p.151-162, rus] **35-1622**

Ekibaeva, A.A.
Influence of dispersed glass fiber on physico-mechanical properties of gypsum-containing matrices [1980, p.134-142, rus] **35-2426**

El-Geak, M.S.
Stefan-like problems in finite geometry [1979, p.69-80, eng] **35-3350**

El-Tahan, M.
Prediction of an iceberg drift trajectory during a storm [1980, p.77-82, eng] **35-2210**

Elagin, I.N.
Influence of low soil temperature on hormonal metabolism of common pine [1980, p.70-74, rus] **35-958**

Elagin, I.N. *(cont.)*
Phenology of Krasnoyarsk forest-steppe forests (1980, p.159-175, rus) **35-2480**

El'chaninov, E.A.
Ways of reducing disturbance of ecologic systems in mining areas of permafrost regions (1980, p.43-49, rus) **35-2189**

Elin, S.N.
Solution of complex technical problems related to open pit mining of apatite deposits (1979, p.10-14, rus) **35-865**

Ellerbruch, D.A.
Active microwave water equivalence measurements (1980, p.119-129, eng) **35-1739**
Snow stratigraphy and water equivalence measured with an active micro-wave system (1980, p.225-233, eng) **35-2365**

Ellingwood, B.
Wind and snow load statistics for probabilistic design (1981, p.1345-1350, eng) **35-4004**

Ellis, J.M.
Lichenometric dating curve and its application to Holocene glacier studies in the central Brooks Range, Alaska (1980, p.245-264, eng) **35-1665**

Ellis, S.
Investigation of weathering in some arctic-alpine soils on the northeast flank of Oksskolten, north Norway (1980, p.371-385, eng) **35-1709**

Elmore, D.
Analysis of Cl-36 in environmental water samples using an electrostatic accelerator (1979, p.22-25, eng) **35-1593**
Cl-36 in polar ice, rainwater and seawater (1980, p.983-986, eng) **35-1536**

Elovskaia, I.G.
Tundra soils of the Kolyma River area (1980, p.158-194, rus) **35-292**

Elsner, R.
United States Arctic science policy (1981, 62p., eng) **35-3738**

Em, F.S.
Snow cover distribution over the Abramov glacier in years of average and maximum snowfall intensity (1980, p.133-137, rus) **35-723**

Embleton, C.
Glacial processes (1979, p.272-306, eng) **35-1688**
Nature of fluid motion (1979, p.39-72, eng) **35-1685**
Nival processes (1979, p.307-324, eng) **35-1689**
Process in geomorphology (1979, 436p., eng) **35-1684**
Sub-surface processes (1979, p.187-212, eng) **35-1687**

Emel'ianov, V.I.
Enrichment of perennially frozen ore and placer deposits (1977, p.175, rus) **35-3805**
Mining perennially frozen placers and ore deposits (1978, 136p., rus) **35-1077**
Studying the technology of erecting artificial ice pillars and their bearing strength for underground mining of perennially frozen placers (1978, p.49-73, rus) **35-1082**
Thirtieth anniversary of the All-Union Scientific Research Institute of Gold and Rare Metals (1978, p.3-8, rus) **35-1078**

Emiliani, C.
Ice sheets and ice melts (1980, p.82-91, eng) **35-3905**

Emtsev, V.T.
Influence of aeration levels on multiplication of anaerobic and aerobic bacteria in sod-podsol soils (1974, p.83-87, rus) **35-1208**

Endo, S.
Phase relations of ice under pressure (1980, p.2454-2456, eng) **35-442**

Endo, T.
On the formation of snow crystals in a vertical wind tunnel (1980, p.29-32, jap) **35-1065**
Random waves attack on a composite breakwater (1979, p.275-288, eng) **35-177**

Endoh, T.
Observation of electric charge of ice crystals (diamond dust) and atmospheric electric potential gradient in winter fog at Inuvik, N.W.T., Canada (1979, p.49-59, eng) **35-514**

Energy Interface Associates, Inc.
Investigation and analysis of frozen coal handling problems (1979, c125p., eng) **35-1957**

Engine cold-starting and warm-up tests
Engine cold-starting and warm-up tests (1980, 12p., eng) **35-1580**

England, J.
Multiple glaciations and marine transgressions, western Kennedy Channel, Northwest Territories, Canada (1981, p.71-89, eng) **35-2939**

Englin, B.A.
Using liquid fuels at low temperatures (1980, 207p., rus) **35-2998**

Ennis, G.L.
Effects of streambank materials additions upon microbial activities of two sub-Arctic Canadian rivers (1980, p.1363-1366, eng) **35-115**
Microbial dynamics of two sub-Arctic Canadian rivers (1980, p.1353-1362, eng) **35-114**

Environmental assessment of the Alaskan continental shelf. Comprehensive bibliography
Environmental assessment of the Alaskan continental shelf. Comprehensive bibliography (1980, 177p., eng) **35-847**

Environmental assessment of the Alaskan continental shelf, Vol.1
Environmental assessment of the Alaskan continental shelf, Vol.1 (1980, 595p., eng) **35-846**

Environmental assessment of the Alaskan continental shelf, Vol.2
Environmental assessment of the Alaskan continental shelf, Vol.2 (1980, 534p., eng) **35-1150**

Environmental assessment of the Alaskan continental shelf, Vol.4. Hazards
Environmental assessment of the Alaskan continental shelf, Vol.4 Hazards (1981, 677p., eng) **35-3255**

Environmental assessment of the Alaskan continental shelf, Vol.5. Hazards
Environmental assessment of the Alaskan continental shelf, Vol.5 Hazards (1981, 659p., eng) **35-3234**

Environmental assessment of the Alaskan continental shelf, Vol.7. Biological studies
Environmental assessment of the Alaskan continental shelf, Vol.7 Biological studies (1981, 678p., eng) **35-3253**

Environmental assessment of the Alaskan continental shelf, Vol.8. Biological studies
Environmental assessment of the Alaskan continental shelf, Vol.8 Biological studies (1981, 359p., eng) **35-3252**

Environmental studies (1974); James Bay territory and surrounding area
Environmental studies (1974), James Bay territory and surrounding area (1975, 108p. + 14 figs., eng) **35-566**

Environmental Workshop on Offshore Hydrocarbon Development, 9th, Fairmont Hot Springs, B.C., Canada, May 4-7, 1980
Proceedings (1980, 440p., eng) **35-3081**

Epifanov, A.P.
Controlling stresses in concrete dams with columnar joints during the concrete placing process (1981, p.5-8, rus) **35-4227**

Epshtein, L.I.
Pavement elements made of frost resistant, colored sand-concrete (1980, p.8-10, rus) **35-472**

Epstein, M.
Penetration of a freezing liquid into an annular channel (1979, p.95-102, eng) **35-3352**
Solidification in two-phase flow (1980, p.784-786, eng) **35-1680**

Ergin, V.P.
Evaluating the influence of natural factors on the strength of melting ice covers on rivers and lakes (1981, p.29-38, rus) **35-4302**
Improving the accuracy of calculating thicknesses of thawing ice covers (1980, p.51-55, rus) **35-454**

Erickson, P.
Baseline data on chemical oceanography in the southern Beaufort Sea, 1974-5 (1980, 51p., eng) **35-2946**

Eriksson, K.
Prospecting in an area of central Sweden (1973, p.83-86, eng) **35-2746**

Erlebach, W.
Variations in water quality during winter in two Yukon rivers with emphasis on dissolved oxygen concentration (1980, p.1345-1351, eng) **35-113**

Ermakov, V.P.
"Nedra" sampler with suspended core lifter for development test wells (1978, p.120-124, rus) **35-63**

Ermikov, V.D.
Environmental protection problems in the oil-gas bearing regions of West Siberia (1980, p.3-9, rus) **35-1702**

Ermolaev, V.I.
Phytoplankton of the Pyasina River (western Taymyr) (1981, p.16-29, rus) **35-3891**

Ermolenko, P.N.
Dynamics of synusium structure during progressive successions in pine forest of West Sayan mountains (1980, p.54-87, rus) **35-2477**

Ermolenko, V.A.
Using rock salt byproducts for preventing road pavement icing (1980, p.15-16, rus) **35-3009**

Ermolin, E.D.
Cryogenic structure of moraines in Zailiyskiy Alatau (1980, p.147-153, rus) **35-3330**
Formation of cryogenic relief in lake basins of the Pamirs and Tien Shan cryolithozone (1979, p.88-105, rus) **35-191**
Methods and results of studying the Medeo artificial skating rink (1980, p.249-254, rus) **35-1253**
Plastic deformations and faulting in the lacustrine deposits of the Pamirs and Tien Shan cryolithozone and their paleogeographic significance (1979, p.42-66, rus) **35-188**

Erofeev, A.A.
Seminar on lightning protection problems in polar regions and perennially frozen ground (1980, p.77, rus) **35-606**

Erokhin, K.A.
Influence of former loading on frost resistance of butt-welded joints (1981, p.24-26, rus) **35-3338**

Erokhov, I.
Results of icebreaker operation (1980, p.18, rus) **35-910**

Ershov, E.D.
Experimental study of moisture migration and ice release in the frozen zone of thawing soils (1976, p.89-91, eng) **35-2405**

Ershov, E.M.
Evaporation thermosiphons for heating stairs in pedestrian tunnels (1981, p.48-49, rus) **35-2090**

Ershov, I.U.I.
Soils of Tokinskiy Stanovik (1979, p.112-131, rus) **35-1523**

Ershov, M.S.
Reliability of electrical equipment under northern conditions (1980, p.25, rus) **35-3011**

Ershova, L.M.
Influence of hydroelectric plants on water content, ice and thermal regimes of the Yenisey River (1977, p.11-14, rus) **35-1291**
Studying the effect of human activities on the hydrologic regime of water bodies in the southern part of Central Siberia (1977, p.3-11, rus) **35-1290**
Water balance of the Motoiskiy swamp (1977, p.39-47, rus) **35-1293**

Esch, D.
Pavement structure evaluation of Alaskan highways (1980, 208p., eng) **35-893**
Rubber in pavements for ice control (1980, p.34-39, eng) **35-3860**

Eschner, A.R.
Seasonal streamflow estimation using snow data (1980, p.45-53, eng) **35-3146**

Escritt, E.A.
Scourge of surging glaciers (1976, p.328-334, eng) **35-3708**

Eskin, L.I.
Characteristics of iceberg drift (1980, p.68-76, rus) **35-1455**
Iceberg drift in the Antarctic Circumpolar Current (1980, p.77-81, rus) **35-1456**

Esser, A.C.
New U.S. station for Antarctica (1981, p.288-299, eng) **35-2510**

Esterman, J.R.
Chemical treatment helps prevent frozen coal (1979, p.93-94, eng) **35-154**

Etkin, V.S.
Studying microwave emission from a snow cover (1981, p.58-62, rus) **35-3541**

Etter, H.J.
Accidents and damage due to avalanches (1980, p.93-151, ger) **35-2566**

Evans, B.G.
Propagation measurements due to rain and ice using the OTS satellite over the period January 1979-May 1980 (1981, p.126-132, eng) **35-3884**

Evans, C.D.
Cook Inlet environment, a background study of available knowledge (1972, 136p., eng) **35-3359**

Evans, D.V.
Wave-ice interaction (1968, 102p., eng) **35-2647**

Evans, M.S.
Zooplankton in a Canadian arctic estuary (1980, p.199-210, eng) **35-3080**

Evans, R.L.
Public works, Deep Freeze 79 (1979, p.235-237, eng) **35-683**

Evdokimova, G.A.
Seasonal and short-range changes in microorganism populations in the rhizosphere of perennial grasses under polar conditions (1974, p.98-103, rus) **35-1209**

Evdokimova, L.A.
Geochemical and physico-chemical aspects of fabric formation in soil stabilization using fly-ashes (1980, p.204-212, rus) **35-1354**

Everett, K.R.
Coastal tundra at Barrow (1980, p.1-29, eng) **35-1930**
Distribution and properties of road dust along the northern portion of the Haul Road (1980, p.101-128, eng) **35-1771**
Distribution and variability of soils near Atkasook, Alaska (1980, p.433-446, eng) **35-3198**
Edaphic factors and their influence in patterns of tundra revegetation (1980, p.30-47, eng) **35-579**
Geobotanical atlas of the Prudhoe Bay region, Alaska (1980, 69p., eng) **35-2150**
Some effects of mammalian herbivores and fertilization on tundra soils and vegetation (1980, p.565-578, eng) **35-3206**
Tundra and analogous soils (1981, p.139-179, eng) **35-2705**

Evseev, A.V.
History of cryogenic soil development in tundra lake landscapes (1980, p.173-174, rus) **35-2309**

Evseev, V.P.
Ice formation in migrating frost mounds of West Siberia according to ice structure analyses (1979, p.183-193, rus) **35-1839**

Evstifeev, V.
Tug-boats for Siberia (1980, p.46-47, rus) **35-913**

Evzerov, V.IA.
Kola Peninsula till stratigraphy (1977, p.30-33, eng) **35-2722**

Ewing, R.E.
Shallow-depth temperature models for Dome C (1980, p.75-76, eng) **35-3181**

Exhibition *The Scientific-Technical Creative Power of Youth—80*, for construction sites of western Siberia
Exhibition *The Scientific-Technical Creative Power of Youth 80*, for construction sites of western Siberia (1980, p.26-27, rus) **35-3012**

Eyre, D.
Report on an ice crossing at Riverhurst during the winter of 1974-75 (1976, 109p + numerous figs., eng) **35-1842**

Ezhov, IU.A.
New data on chemical regime of karst waters in the Kungur Ice Cave (1976, p.35-40, rus) **35-1296**

Fabrics makes foundation garment
Fabrics makes foundation garment (1981, p.14, eng) **35-2839**

Faddeev, O.V.
Selecting principal parameters of ice-breaking cargo ships (1979, p.4-6, rus) **35-319**

Fagerlund, G.
Influence of slag cement on the frost resistance of concrete - a theoretical analysis (1980, 86p., eng) **35-2060**

Fain, I.I.
Significance of hydraulic power plant construction in Siberia and the Far East to the national economy (1980, p.63-66, rus) **35-1298**

Farkhazov, R.I.
Economic effectiveness of using screw piles in foundations of exploratory well rigs (1921, p.14-15, rus) **35-4286**

Farley, R.D.
Numerical simulation of ice-phase convective cloud seeding (1980, p.950-977, eng) **35-885**

Farmer, E.E.
Relationship of the snowpack to acid mine drainage from a western surface mine (1980, p.79-100, eng) **35-582**

Farmer, L.D.
Eastern Arctic SURSAT SAR ice experiment, radar signatures of sea ice features (1980, 14p + 24 figs., eng) **35-841**

Farnes, P.E.
Proposed metric snow samplers (1980, p.107-119, eng) **35-2233**

Farrally, B.A.
NIMBUS-7 SMMR evaluation performed during the Norwegian Remote Sensing Experiment (NORSEX) (1981, p.86-88, eng) **35-3436**

Farrell, B.
Role of polar regions in global climate, and a new parametrization of global heat transport (1980, p.2064-2079, eng) **35-3652**

Fartyshev, A.I.
Oceanic eustacy, cyrolithozone dynamics during the period of 25,000 years and cryogenic forecasts for the Laptev Sea shelf (1980, p.134-135, rus) **35-3133**
Thermal denudation relief forms in northern Yakutia (1980, p.128-132, rus) **35-3327**

Fashchevskii, B.V.
Determining allowable quantities of partial flow diversion from northern and Siberian rivers (1980, p.21-24, rus) **35-3108**

Fastook, J.L.
History of the marine ice sheet in West Antarctica during the last glaciation: a working hypothesis (1981, p.319-436 + 5 sheets, eng) **35-2069**
Last great ice sheets: a global view (1981, p.263-317 + 10 sheets, eng) **35-2068**

Faure, G.
Interpretation of Rb-Sr dates of feldspar in tillite on Mt. Tuatara, Byrd Glacier (1980, p.59-60, eng) **35-3174**

Faure, P.
Translational Raman spectrum of hexagonal monocrystalline ice (1981, p.120-126, fre) **35-3882**

Fawkes, P.E.
Probable maximum flood for the Peace River at site C (1979, p.239-250, eng) **35-417**

Fedina, A.E.
Utilization and protection of mountain landscapes in the USSR (1980, p.107-119, rus) **35-1441**

Fedorchuk, V.N.
Diversity of species in plant communities of spruce taiga forests (1981, p.26-33, rus) **35-3508**

Fedoriak, G.M.
Artificial freezing technique for excavating sloping mine shafts in water-saturated rocks (1980, p.24-26, rus) **35-325**

Fedorov, B.G.
Applying system analysis to modeling geomorphologic consequences of river diversion (1980, p.120-123, rus) **35-3129**

Fedorov, B.S.
Deep stabilization of soils with synthetic resins (1980, 147p., rus) **35-875**
Wall-in-the ground method of building foundations and structures (1976, 129p., rus) **35-1718**

Fedorov, E.K.
Slow waves at the surface of the Arctic Ocean (1980, p.1466-1468, rus) **35-1387**

Fedorov, I.P.
Safety rules for docking ships under severe climatic conditions (1980, 152p., rus) **35-3897**

Fedorov, S.F.
Evaluating the variations of water balance elements in coniferous forests due to forest use and maintenance (1979, p.185-193, rus) **35-4124**

Fedorov, V.A.
Porous fiberglass insulation used in modular construction (1981, p.17-19, rus) **35-2079**

Fedorova, F.G.
Studying mass transfer properties of polymer thermal insulation materials (1979, p.106-109, rus) **35-240**

Fedorovich, D.
Foundation construction in Ugal BAM village (1980, p.42-45, rus) **35-929**

Fedorovich, D.I.
Calculation of the thermal regime of bases of cold-storage plants with air spaces (1970, p.81-83, eng) **35-498**
Experimental investigations of the elastic moduli of the soil in a lateral fill (1981, p.29-31, eng) **35-4152**
Fundamentals of the thermal interaction of buildings and structures with permafrost (1980, p.85-96, eng) **35-1973**

Fedosenko, N.
Flying under complicated conditions (1921, p.33-36, rus) **35-971**

Fedotov, V.P.
Sewage treatment in settlements of the Baykal-Amur railroad (1980, p.20-21, rus) **35-600**

Fei, C.
Data on the glacier of Chi-hien-shan Mountain (1979, p.77-80, chi) **35-2907**

Feick, J.R.
Heat sink capacity of a snow dump site (1980, p.179-181, eng) **35-3157**

Feldman, U.
Estimating the surface wind speed over drifting pack ice from surface weather charts (1979, p.421-429, eng) **35-157**

Felin, B.
Observation of rime and glaze deposits in Quebec (1976, 53p + Appends., eng) **35-1907**

Feltham, P.
Computer simulation of creep of clay (1981, p.95-104, eng) **35-1675**

Femiano, M.D.
Satellite laser altimeter for measurement of ice sheet topography (1981, p.1003-1011, eng) **35-3592**

Feng, J.
Tentative study of transistor direct numerical reading thermometer (1980, p.23-26, chi) **35-2656**

Feng, Y.
Cartographic methods of the map of Batura Glacier (1980, p.221-228, chi) **35-4041**

Fenton, J.H.C.
Rate of peat accumulation in antarctic moss banks (1980, p.211-228, eng) **35-1170**

Fenton, M.M.
Glacier-bed landforms of the prairie region of North America (1980, p.457-476, eng) **35-1508**

Ferguson, H.L.
Measurement and data analysis (1981, p.191-274, eng) **35-3751**

Ferguson, N.B.
Sea ice: its characteristics, distribution and role in human affairs (1980, p.169-176, eng) **35-49**

Ferguson, S.A.
Snow-pack structure, stability analyzed by pattern-recognition techniques (1980, p.506-511, eng) **35-2392**

Ferraro, R.D.
Cl-36 in polar ice, rainwater and seawater (1980, p.983-986, eng) **35-1536**

Ferronskii, V.I.
Isotope methods of studying natural waters (1981, 260p., rus) **35-3296**

Fesler, D.
Informal cooperative state-federal avalanche-warning system and public education program for south-central Alaska, U.S.A. (1980, p.497-500, eng) **35-2390**

Festel, E.
Results from tracer experiments on the water flow through the Aletschgletscher (1979, p.209-218, eng) **35-3730**

Fiala, T.
Advanced northern utility piping system (1981, p.425-437, eng) **35-2516**

Fiebiger, G.
Measurements of avalanches in forests (1979, p.183-194, ger) **35-3727**

Field, M.E.
Areas of active, large scale sand wave and ripple fields with scour potential on the Norton Basin sea floor (1981, p.315-331, eng) **35-3244**

Field, R.
Water pollution and associated effects from street salting (1975, p.317-340, eng) **35-2569**

Fielding, M.B.
Studies of utility construction in cold regions (1980, p.136-139, eng) **35-2114**

Figlin, I.Z.
Studying frozen ground excavation with disc-cutter excavators (1980, p.24-26, rus) **35-540**

Filenko, R.A.
Complex natural-meliorative regionalization of the Non-chernozem zone in the Russian Soviet Federated Republic (1980, 231p., rus) **35-2439**

Filippov, A.G.
Deep-seated, covered and armored karst of the upper reaches of the Alakit River (Yakutia) (1980, p.942-944, rus) **35-305**

Filippov, A.Kh.ed
Problems in meteorology and hydrology of Siberia (1976, 218p., rus) **35-1189**

Filippov, A.M.
Determining ice friction coefficient in natural conditions (1980, p.88-91, rus) **35-1017**
Methods of evaluating possible changes in river freezing regimes due to diversion of part of the runoff (1980, p.12-19, rus) **35-1011**

Filippov, I.V.
Organization of road protection from snowdrifts (1980, p.9-10, rus) **35-1022**

Filippova, L.N.
Phytocenotic relations, age spectra and seed productivity of the Arctic sunrose (Helianthemum) (1980, p.9-26, rus) **35-3064**

Filonidov, A.M.
Ultrasound technique of determining frost resistance of concretes in hydraulic structures (1981, p.14-15, rus) **35-4228**

Final SURSAT Ice Workshop Atmospheric Environment Service, Toronto, June 23-27, 1980
Proceedings (1981, 7 sections, eng) **35-3656**

Finkel', G.N.
Safety rules for docking ships under severe climatic conditions (1980, 152p., rus) **35-3897**

Finkel, R.C.
Cl-36 in polar ice, rainwater and seawater (1980, p.983-986, eng) **35-1536**

Finkel'shtein, M.I.
Radar video pulse device for measuring the thickness of sea ice as a new promising means of ice reconnaissance (1981, 16p., eng) **35-2590**
Using radar video pulse equipment for measuring ice cover thickness during the expedition of the atomic icebreaker *Arktika* to the north pole (1981, p.117-119, rus) **35-3958**

Finley, K.J.
Marine mammals inhabiting the Baffin Bay North Water in winter (1980, p.724-738, eng) **35-2171**

Fireman, E.L.
Gas studies ice from Allan Hills meteorite site and Byrd Station (1979, p.85-86, eng) **35-662**
Radioactive dating and the compositions of the gas in Antarctic ice (1980, p.67-68, eng) **35-3177**

Firsova, V.P.
Microflora of mountain forest soils in the Urals (1974, p.147-150, rus) **35-1216**

Fisenko, G.L.
Increasing the stability of benched hard and semi-hard rocks in quarries of permafrost areas (1980, p.18-20, rus) **35-869**

Fitzg..ald, B.M.
Predatory birds ..d mammals (1981, p.485-508, eng) **35-3388**

FitzGibbon, J.E.
Land surface and lake storage during snowmelt runoff in a subarctic drainage system (1981, p.277-285, eng) **35-4260**

Fitzharris, B.B.
Frequency of major avalanche winters (1980, p.43-52, eng) **35-2346**
Winter avalanche activity and weather in a Canterbury alpine basin (1980, p.103-111, eng) **35-2341**

Five stage program beats snow with Toledo's mobilized forces
Five stage program beats snow with Toledo's mobilized forces (1980, p.9-11, eng) **35-3207**

Flagg, L.B.
Environmental studies of Kachemak Bay and lower Cook Inlet. Vol.1. Impact of oil on the Kachemak Bay environment (1977, 123p., eng) **35-888**

Flamini, E.
Thermodynamical study of the Martian permafrost (1979, p.8115-8130, eng) **35-1103**

Flanagan, P.W.
Decomposition and accumulation of organic matter in tundra (1981, p.587-633, eng) **35-3393**
Microbial ecology and decomposition in Arctic tundra and Subarctic taiga ecosystems (1978, p.161-168, eng) **35-2177**
Microflora activities and decomposition (1980, p.291-334, eng) **35-1938**
Microflora: composition, biomass, and environmental relations (1980, p.255-290, eng) **35-1937**

Flanders, S.N.
Measuring building R-values for large areas (1981, p.137-138, eng) **35-2463**

Flanders, S.N. *(cont.)*
Time constraints on measuring building R-values (1980, 30p., eng) **35-1998**
Window performance in extreme cold (1981, p.396-408, eng) **35-2514**

Flatow, F.S.
Satellite laser altimeter for measurement of ice sheet topography (1981, p.1003-1011, eng) **35-3592**

Flavigny, E.
Incremental formulation of constitutive equations for deposited snow (1980, p.289-307, eng) **35-1823**
Mechanical properties of snow: experimental study by triaxial compression (1979, 25p., fre) **35-1886**

Fleishman, S.M.
Engineering geography of mountain regions: subject matter and current problems (1980, p.66-73, rus) **35-1439**
Protective measures in glacial mudflow areas (1980, p.268-271, rus) **35-1257**

Fletcher, R.H.
Building the northern urban environment (1981, p.71-87, eng) **35-2500**

Flint, P.S.
Soils and their nutrients (1980, p.219-254, eng) **35-1936**

Flohn, H.
Climatic change, ice sheets and sea level (1981, p.431-440, eng) **35-3041**
Our climatic future: an ice-free Arctic Ocean? (1979, p.35-51, fre) **35-2576**

Floss, R.
Consideration of frost protection layers in the design of road structures with standard pavement (1979, p.158-161, ger) **35-527**

Flower-Ellis, J.G.K.
Diurnal dry weight variation and dry matter allocation of some tundra plants: 1. *Andromeda polifolia* L. (1980, p.139-162, eng) **35-1478**
Diurnal dry weight variation and dry matter allocation of some tundra plants: 2. *Rubus chamaemorus* L. (1980, p.163-179, eng) **35-1479**

Fogel, M.M.
Snow accumulation and ablation: a stochastic model (1979, p.32-43, eng) **35-1398**

Föhn, P.
Snow and avalanches in the Davos area (1980, p.30-43, ger) **35-2564**

Föhn, P.M.B.
Snow transport over mountain crests (1980, p.469-480, eng) **35-2387**

Fokeev, N.V.
Effect of coring conditions and size of sections on density determination in sea ice (1980, p.109-114, rus) **35-1463**

Foldvik, A.
Flow around icebergs (1980, p.67-70, eng) **35-2208**
Measurements of oscillations and flexure of icebergs (1980, p.29-30, eng) **35-2201**
Measurements of the radiation temperature of antarctic icebergs and the surrounding surface water (1980, p.19-22, eng) **35-2199**

Fomicheva, E.N.
Combined use of lightweight and cellular concretes in large panel construction (1980, p.37-38, rus) **35-1653**

Fominykh, L.A.
Origin and evolution of soils in southern tundra of the European USSR in relation to cryogenic relief (1980, p.159-161, rus) **35-2305**
Problems of rational development and preservation of soils in northern territories (1980, p.5-8, rus) **35-2252**

For those who work in the North
For those who work in the North (1980, p.30-31, rus) **35-914**

Forbes, D.L.
Bottomfast ice in northern rivers: hydraulic effects and hydrometric implications (1979, p.175-184, eng) **35-411**

Forbes, G.A.
Fixed platform providing an integrated deck on a multiple leg ice resistant structure (1980, p.315-324, eng) **35-3636**

Ford, J.P.
Drumlin fields and glaciated mountains: a contrast in geomorphic perception from SEASAT radar images (1981, p.864-869, eng) **35-3586**

Forland, T.
On the theory of frost heave (1980, p.45-48, eng) **35-1993**

Fors, L.
Physical properties of the tundra soil-water system at Stordalen, Abisko (1980, p.27-54, eng) **35-1472**

Forter, J.L.
Snowpack monitoring in North America and Eurasia using passive microwave satellite data (1980, 20p., eng) **35-3603**

Fortin, J.P.
Comparison of snow cover retreat calculated by the CEQUEAU hydrologic model to that estimated with the help of ESSA-8 satellite imagery (1979, p.424-448, fre) **35-428**

Fossum, B.A.
Studies of icebergs, ice fronts and ice walls using side-scanning sonar (1980, p.31-36, eng) **35-2202**

Foster, J.L.
Monitoring snowpack properties by passive microwave sensors on board of aircraft and satellites (1980, p.235-248, eng) **35-1746**

Fountain, A.G.
Break-up dates for the Yukon River, Pt.1: Rampart to Whitehorse, 1896-1978 (1979, c50 leaves, eng) **35-133**
Break-up dates for the Yukon River, Pt.2: Alakanuk to Tanana, 1883-1978 (1979, c50 leaves, eng) **35-134**

Fowler, A.C.
Uniqueness of steady state flows of glaciers and ice sheets (1980, p.333-345, eng) **35-2243**

Frampton, M.
Mapping snow surface temperature from thermal satellite data in the southern Sierra Nevada (1980, p.88-96, eng) **35-2231**

Francis, B.F.
On the determination from Raman spectra of the polarizability derivative with respect to the O-D bond stretching coordinate in the ices (1980, p.6352-6353, eng) **35-1696**

Frash, G.B.
Allowing for the properties of freezing soils when building trenches by blasting (1980, p.20-22, rus) **35-782**

Frechette, A.
Duchesnay Experimentation Station: report on its operation during the 1978-79 winter (1980, p.91-100, fre) **35-3150**

Frederking, R.
Tubular transducer for in situ stress measurements in sea ice (1980, p.165-192, eng) **35-3842**

Frederking, R.M.W.
Cantilever beam tests in an ice cover: influence of plate effects at the root (1981, p.93-101, eng) **35-3666**
Ice action on Nantsivik wharf, Strathcona Sound, N.W.T., winter 1978-1979 (1980, p.558-563, fre) **35-836**
NRC ice property measurements during the *Canmar Kigoriak* trials in the Beaufort Sea, winter 1979-80 (1980, 11p. + 54 figs., eng) **35-1881**

Fredley, J.E.
Investigation of the heat transfer at the liquid-solid interface of rapidly melting ice (1980, 87p., eng) **35-1591**

Freer, G.L.
Snow-avalanche hazard zoning in British Columbia, Canada (1980, p.345-354, eng) **35-2377**

Freidin, I.L.
Environmental protection in the Far North (1980, p.65-72, rus) **35-1425**

Freifel'd, V.IA.
Dust clouds of firn-ice avalanches of the Tramplinnyi glacier (northwestern Pamirs) (1980, p.113-120, rus) **35-3582**

French, D.D.
Decomposition and accumulation of organic matter in tundra (1981, p.587-633, eng) **35-3393**
Multivariate comparisons of IBP Tundra Biome site characteristics (1981, p.47-75, eng) **35-3376**

French, H.M.
Origin of pingos in regions of thick permafrost, western Canadian Arctic (1977, p.149-160, eng) **35-1884**
Periglacial geomorphology and permafrost (1970, p.254-261, eng) **35-3558**
Terrain, land use and waste drilling fluid disposal problems, Arctic Canada (1980, p.794-806, eng) **35-2173**

Friedmann, E.I.
Adenosine triphosphate (ATP), chlorophyll, and organic nitrogen in endolithic microbial communities and adjacent soils in the dry valleys of southern Victoria Land (1980, p.164-166, eng) **35-3193**

Fritz, P.
Laboratory studies to investigate isotope effects occurring during the formation of permafrost (1978, 43p., eng) **35-2537**

Frohlich, K.
Research on environmental nuclides in Antarctica (1980, p.122-144, ger) **35-2437**
Tritium and C-14 investigations in the framework of GDR research in Antarctica (1980, p.187-194, ger) **35-2438**
Tritium in ice near Molodezhnaya Station (1980, p.91-94, rus) **35-2039**

Frolov, A.D.
Geophysical methods of studying permafrost in the USSR (1980, 51p., rus) **35-1928**

Frolov, I.E.
Evaluating variations in salinity of the surface layer of the Kara Sea due to river diversion and its effect on ice conditions (1980, p.127-130, rus) **35-3131**

Frolov, K.D.
Distribution of thermal insulation along a hot oil pipeline (1980, p.4-5, rus) **35-924**
Investigating the effectiveness of using heat from gas compressor stations for heating oil in main petroleum pipelines (1980, p.2-5, rus) **35-926**

From Chinese Society of Glaciology and Cryopedology
From Chinese Society of Glaciology and Cryopedology (1980, p.72-79, chi) **35-2925**

From display to production
From display to production (1981, p.65, rus) **35-2092**

Frost, H.J.
Kink velocities on dislocation in ice, a comment on the Whitworth, Paren and Glen model (1976, p.951-961, eng) **35-151**

Frozen Sea Research Group
Oceanographic data report Cambridge Bay, N.W.T., September 1971 to April 1972 (1973, 267p., eng) **35-889**
Oceanographic data report d'Iberville Fiord, Ellesmere Island, N.W.T. March to April 1974 (1975, 139p., eng) **35-1058**

Frutiger, H.
History and actual state of legalization of avalanche zoning in Switzerland (1980, p.313-324, eng) **35-2374**
Observed maximum run-out distance of snow avalanches and the determination of the friction coefficients *mu* and *xi* (1980, p.121-130, eng) **35-2355**

Fu, R.
Preliminary research on ultrasonic measurement of frozen soil and ice (1980, p.44-48, chi) **35-2665**

Fujii, Y.
Aerophotographic interpretation of surface features and an estimation of ice discharge at the outlet of the Shirase drainage basin, Antarctica (1981, p.1-15, eng) **35-4220**
Measured and computed temperature profiles at Mizuho Station, East Antarctica (1981, p.239-246, eng) **35-3035**
Observation of snow particles at Hidden Valley, Mukut Himal (1978, p.42-44, eng) **35-54**
Research activities at Mizuho Station, 1977 (1980, p.2-10, jap) **35-1268**

Fujino, K.
Sedimental process in Harding Lake (1980, p.24-35, eng) **35-1561**

Fujiwara, S.
NMR study of the freezing-thawing mechanism of water in polyacrylamide gel (1980, p.2320-2325, eng) **35-443**

Fukami, H.
Development of a portable albedometer (1978, p.171-174, jap) **35-1553**
Study of snow melting in Mt. Asahidake, Hokkaido (1978, p.181-188, jap) **35-1185**

Fukazawa, D.
Experiment of melting snow sliding down a steep roof into a pool where river water is led in (1976, p.188-195, jap) **35-261**

Fukuchi, M.
Sea ice colored by ice algae in a lagoon, Lake Saroma, Hokkaido, Japan (1981, p.113-120, eng) **35-4149**

Fukuda, M.
Experimental studies of coupled heat and moisture transfer in soils during freezing (1980, p.223-232, eng) **35-738**
Pore-water pressure profile of a freezing soil (1980, p.31-36, eng) **35-1991**
Simulation model for frost penetration beneath the ground on the basis of equilibrium surface temperatures (1980, p.71-80, jap) **35-272**

Fukuzawa, Y.
On the light attenuation and visibility in snow drift (1976, p.165-170, jap) **35-258**

Funaki, M.
Activities of Japanese Party in McMurdo Sound area during the 1978-79 field season (1980, p.137-148, jap) **35-1055**

Funder, S.
Quaternary geology of the Narssaq area, South Greenland (1979, 24p., eng) **35-110**

Fung, A.K.
Radar spectral observations of snow (1981, p.654-668, eng) **35-3440**

Furman, A.V.
Freezing of fluids in fully developed turbulent streams in underground channels (1981, p.117-122, rus) **35-4290**

Furman, M.Sh.
Workshop on the study of naleds along the Baykal-Amur railroad and other areas of the USSR (1980, p.272, rus) **35-1258**

Furukawa, Y.
On the formation of snow crystals in a vertical wind tunnel (1980, p.29-32, jap) **35-1065**

Fushimi, H.
Glaciations in the Khumbu Himal, Pt.2 (1978, p.71-77, eng) **35-899**
Recent fluctuations of glaciers in the eastern part of Nepal Himalayas (1981, p.21-29, eng) **35-3019**
Stratigraphic studies of the Gyajo Glacier, Khumbu Himal (1978, p.17-20, eng) **35-53**

Gaare, E.
Ungulates on arctic ranges (1981, p.397-483, eng) **35-3387**

Gabelaia, R.D.
Roller-plate supports for pipeline construction (1980, p.33-34, rus) **35-314**

Gadd, P.E.
Port feasibility study, Nome, Alaska (1981, p.235-248, eng) **35-2506**

Gadilev, E.O.
Stabilization of earth structure slopes under severe climatic conditions (1980, p.30-32, rus) **35-1637**
Stabilization of slopes in excavations cut in ice-bearing cohesive ground (1980, p.5-6, rus) **35-1139**

Gadzhiev, I.M.
Evolution of soils in the taiga zone of Siberia and their utilization and preservation (1980, p.128-131, rus) **35-3044**

Gagen, T.K.
Potential photosynthesis of West Taymyr plants (1980, p.145-164, rus) **35-1410**

Gaidaenko, E.I.
Mechanical interaction between cast-in-situ bored piles and permafrost [1981, p.140-154, rus] **35-3292**
Gaidukova, N.I.
Participating in major construction projects [1980, p.9-12, rus] **35-2632**
Gaitskhoki, B.IA.
Empirical determination of matrices of light scattering in ice [1980, p.119-128, rus] **35-381**
Horizontal temperature gradients in ice [1980, p.153-157, rus] **35-383**
Galvoronskii, V.N.
Forecasting and controlling soil moisture in roadbeds [1980, p.17-19, rus] **35-2637**
Galaktionova, T.F.
Influence of burning on narrow-leaved cotton grass in subarctic tundra [1980, p.66-72, rus] **35-285**
Galanin, A.V.
Vegetation of the Ust'-Chaun Biological Research Station, West Chukotka [1980, p.1174-1187, rus] **35-1566**
Galazii, G.I.
Climatic peculiarities of the Baykal Amur railroad zone [1979, 144p., rus] **35-813**
Galbraith, P.W.
Numerical study of the transmission of solar radiation through snow [1979, p.346-355, eng] **35-422**
Galich, V.D.
Sand-concrete panels for building partitions [1980, p.19-21, rus] **35-502**
Gal'perin, M.I.
Dynamics of forest landscapes, affected by industrial activities, in southern taiga of the Central Urals [1975, p.11-14, rus] **35-1787**
Gamberg, J.B.
Airborne impulse radar sounding of sea ice [1980, p.187-191, eng] **35-2244**
Technology of an airborne impulse radar [1980, p.385-412, eng] **35-562**
Gammelsrod, T.
Flow around icebergs [1980, p.67-70, eng] **35-2208**
Measurements of oscillations and flexure of icebergs [1980, p.29-30, eng] **35-2201**
Measurements of the radiation temperature of antarctic icebergs and the surrounding surface water [1980, p.19-22, eng] **35-2199**
Gamp, H.W.
Icebreaking procedures on the upper Chesapeake Bay [1981, p.71-78, eng] **35-3361**
Ganguli, A.
Crust behavior in simultaneous melting on a submerged flat plate [1979, p.40-53, eng] **35-3348**
Ganzei, S.S.
Regularities governing material composition of mountain alluvium in different climates of the Far East [1979, p.94-117, rus] **35-3046**
Gapeev, A.
Stepping up ship passage through sluices [1980, p.38-39, rus] **35-1604**
Gara, R.I.
Diel activity patterns in snowfield foraging invertebrates on Mount Rainier, Washington [1980, p.359-368, eng] **35-1671**
Garagulia, L.S.
Effect of engineering works on the development of cryopedologic processes [1975, p.70-80, eng] **35-2402**
Gard, L.M., Jr.
Pleistocene geology of Amchitka Island, Aleutian Islands, Alaska [1980, 38p., eng] **35-990**
Gardos, M.N.
Adhesive shear strength of ice to bonded solid lubricants [1972, p.464-471, eng] **35-274**
Garg, O.P.
Mining of frozen iron ore in northern Quebec and Labrador [1979, p.369-376, eng] **35-1051**
Garkavi, N.G.
Operation of the lubrication, hydraulic and pneumatic systems of construction machines under northern conditions [1979, 111p., rus] **35-814**
Garnes, K.
Wastage features of the inland ice sheet in central South Norway [1980, p.251-269, eng] **35-2140**
Garrenaud, E.
Avalanche forecasting and protection at U.S. stations [1981, p.58-63, fre] **35-4047**
Garrett, J.M.
Coast Guard's red fleet [1980, p.101-103, eng] **35-1072**
Garrett, R.R.
Deep Freeze 1980 Cruise Report [1980, 72p., eng] **35-184**
Garrison, G.R.
Oceanographic measurements in the Chukchi Sea, April-August 1977 [1979, 131p., eng] **35-1581**
Garstka, W.U.
Water supply conveyance problems in winter at high altitudes [1981, p.735-742, eng] **35-4165**
Garton, J.E.
Winter ice removal from stock water ponds [1980, 34p., eng] **35-3406**
Gary, H.L.
Patch clearcuts to manage snow in lodgepole pine [1980, p.335-346, eng] **35-2931**
Gasanov, Sh.Sh.
Cryolithologic analysis [1981, 195p., rus] **35-3211**
Role of ancient and recent hydroclimatic factors in morphogenesis and lithogenesis of plains in the permafrost zone [1979, p.143-156, rus] **35-3047**
Gaskell, W.
Charge transfer accompanying individual collisions between ice particles and its role in thunderstorm electrification [1980, p.841-854, eng] **35-2339**
Gaskill, D.W.
Evaluation of climatic impact of the Niagara ice boom relative to air and water temperature and winter severity [1980, 31p., eng] **35-2936**
Gaskill, H.S.
Free drift of sea ice: a comparison of models [1980, 132p., eng] **35-1845**
Gaskin, D.A.
Revegetation at two construction sites in New Hampshire and Alaska [1980, 21p., eng] **35-2586**
Gasoline: progress is slow but encouraging
Gasoline progress is slow but encouraging [1980, p.18-19, 45-47, eng] **35-2008**
Gassett, R.M.
Dome C geophysical survey, 1979-80 [1980, p.2-5, eng] **35-3165**
Gates, W.L.
January and July performance of the OSU two-level atmospheric general circulation model [1980, p.1914-1943, eng] **35-1074**
Gatto, L.W.
Ice distribution and winter surface circulation patterns, Kachemak Bay, Alaska [1981, p.995-1001, eng] **35-3591**
Inlet current measured with Seasat-1 synthetic aperture radar [1980, p.35-37, eng] **35-3704**
Gaude, E.
New rig for ice platform drilling [1981, p.41-44, eng] **35-1960**
Gavenko, V.M.
Stability of tailing embankments [1980, p.68-71, rus] **35-230**
Gavril'ev, R.I.
Heat conductivity of washed up sandy ground [1980, p.63-68, rus] **35-3317**
Methods of determining thermal properties of frozen ground and rocks [1981, p.22-36, rus] **35-3282**
Peculiarities of thermal properties of soils in the eastern part of the Baykal Amur railroad area [1981, p.5-22, rus] **35-3281**
Gavril'ev, V.N.
Sorption properties and phase composition of pore water in silica gels of different porosity at natural subzero temperatures [1979, p.91-96, rus] **35-237**
Gavrilo, V.P.
Acoustic method of determining three-dimensional inhomogeneities in ice cover from a ship [1980, p.71-73, rus] **35-373**
Hydroacoustic method for studying dynamics of sea ice formation [1980, p.74-69, rus] **35-374**
Ice. Physical properties. Modern methods of glaciology [1980, 384p., rus] **35-1123**
Inherent noise of the Antarctic glacier in the Novolazarevskaya Station area and acoustic attenuations [1980, p.56-61, rus] **35-370**
Seasonal variations in sea ice elasticity [1980, p.37-42, rus] **35-367**
Slow waves at the surface of the Arctic Ocean [1980, p.1466-1468, rus] **35-1387**
Studying plastic deformation of fresh-water ice under impact loads [1980, p.43-50, rus] **35-368**
Gavrilov, A.B.
Spaceborne methods of studying naleds in relation to the development of the Baykal Amur railroad area [1978, p.101-102, rus] **35-17**
Gavrishina, L.N.
Motion picture technique of studying mudflow kinematics [1980, p.72-77, rus] **35-1810**
Gavva, L.I.
Cryogenic phenomena in the Late Pleistocene deposits of southeastern Siberia and their influence on recent soils [1980, p.169-171, rus] **35-2307**
Gebhart, B.
Transport measurements in the Arctic ice-pack [1980, p.293-302, eng] **35-833**
Gedeon, A.
Lake Erie in mid-winter [1978, p.134-141, eng] **35-4320**
Gedney, L.
Seismotectonic studies of western Alaska and sea ice studies in Beaufort Sea [1981, p.575-618, eng] **35-3250**
Gel'berg, M.G.
Forecasting research and control of recoverable natural resources of the extreme North [1980, 45p., eng] **35-979**
Geleta, I.F.
Cartographic-statistical method of studying interrelations among the components of natural environments in the Chita region [1980, p.114-124, rus] **35-1707**
Geographic aspects of redirection of river courses in West Siberia [1979, 135p., rus] **35-2320**
Geletiuk, N.I.
Peculiarities in the behavior of some chemical elements in forest-steppe soils subject to long seasonal freezing, in West Siberia [1980, p.65-66, rus] **35-2272**
Geller, IU.A.
Scraper for frozen ground [1980, p.33-34, rus] **35-779**
Gel'man, E.A.
Modern design of modular buildings [1980, p.61-66, rus] **35-604**
Gennadinik, B.I.
Parameters of statistical analysis of year-round ground temperature data [1980, p.68-79, rus] **35-3318**
Gennadinik, G.V.
Parameters of statistical analysis of year-round ground temperature data [1980, p.68-79, rus] **35-3318**
Georgiev, E.
Attack under winter conditions [1980, 6p., eng] **35-2152**
Geptner, A.R.
Glacial lithogenesis under conditions of active volcanism [1980, p.136-146, rus] **35-810**
Gerard, R.
Flow in ice covered channels: some fundamentals [1981, p.8-22, eng] **35-2540**
Mixing and microorganism survival in the Slave River, N.W.T. [1981, p.449-470, eng] **35-2518**
River ice in hydrotechnical engineering - a review of selected topics [1979, p.1-29, eng] **35-404**
Sessions on the hydraulic resistance of ice covers and ice jams: some reflections [1981, p.296-298, eng] **35-2559**
Gerashchenko, O.A.
Instrument for measuring heat flux through enclosures [1979, p.127-131, rus] **35-4064**
Gerasimenko, T.V.
Potential photosynthesis of West Taymyr plants [1980, p.145-164, rus] **35-1410**
Gerasimov, A.S.
Influence of the transverse cross-section form of metal piles on their bearing capacity in permafrost [1973, p.23-27, rus] **35-1599**
Gerasimov, I.P.
Protection of the environment in northern Siberia [1980, p.191-202, eng] **35-2626**
Gerasimova, L.
Construction equipment [1980, p.9, rus] **35-350**
Gerin-Lajoie, G.
Space-time environment: man, architecture, climate and technology [1981, p.132-142, eng] **35-2503**
German Democratic Republic. Nationalkomitee fur Geodasie und Geophysik
Research results of GDR scientists in Antarctica (1959-1979) [1980, 196p., ger] **35-2428**
German Meteorological Service
Cooling tendency in the surface water of the North Atlantic Ocean [1980, 3p., eng] **35-1729**
Germany. Federal Republic. Minister for Research and Technology
Antarctic research programme of the Federal Republic of Germany [1981, 169p., eng] **35-3917**
Gernandt, H.
Satellite observations of the ice edge in coastal areas from Queen Maud Land to the Filchner Ice Shelf [1979, p.127-131, ger] **35-3489**
Weather satellite observations in the South Polar region [1980, p.79-95, ger] **35-2436**
Gershenzon, V.E.
Studying microwave emission from a snow cover [1981, p.58-62, rus] **35-3541**
Gershevich, E.G.
Biologic productivity and nutrient element balance of cryogenic soils and ways of their optimization [1980, p.183-186, rus] **35-2312**
Gersper, P.L.
Soils and their nutrients [1980, p.219-254, eng] **35-1936**
Gertsekovich, D.A.
Mathematical model of ice clearance from Lake Baykal [1980, p.137-143, rus] **35-3475**
Gerwick, B.C.
Resistance of concrete walls to high concentrated ice loads [1981, p.425-436, eng] **35-3450**
Geta, R.I.
Water balance of the Bratsk reservoir [1978, 134p., rus] **35-811**
Getker, M.I.
Information content of snow cover data used in forecasting mountain river runoff in Central Asia [1980, p.3-12, rus] **35-3570**
Snow cover [1980, p.8-20, rus] **35-2805**
Getsen, M.V.
Biological studies in the northeastern European USSR [1974, 235p., rus] **35-1924**
Gevirts, G.IA.
Problems of lightening underground structures and methods of constructing them under permafrost conditions [1980, p.131-140, eng] **35-963**
Ghermazien, T.
Winter ice removal from stock water ponds [1980, 34p., eng] **35-3406**

Ghoneim, G.A.A.
Effect of pile-ups and rubble fields on ice-structure interaction forces [1980, p.297-305, eng] **35-3634**

Ghosh, R.
Low-temperature mechanical behavior of an "acicular" ferrite HSLA (High Strength-Low Alloy) line pipe steel [1979, p.1941-1944, eng] **35-1780**

Gibson, R.D.
Mathematical model of nozzle blockage by freezing [1981, p.231-241, eng] **35-3269**

Gidney, G.A.
Measurement of finite strain in sea ice by impulse radar techniques [1980, p.127-164, eng] **35-3841**

Gil', T.V.
Content of natural radioactive elements in soils and soil-forming rocks of Southern Komi ASSR [1980, p.52-57, rus] **35-1515**

Influence of pH on Ra absorption in typical strongly podsolized soil (under experimental conditions) [1980, p.58-64, rus] **35-1516**

Gilbert, C.
Preliminary observations on the distribution of permafrost in the Great Whale River basin, Ungava [1979, p.291-298, fre] **35-1045**

Gilbert, R.
Sedimentation in proglacial Sunwapta Lake, Alberta [1981, p.81-93, eng] **35-2707**

Gileva, O.IA.
Temperature distribution over the cross-section of a large diameter hot oil line after shut-down [1979, p.5-8, rus] **35-492**

Gill, D.
Ecological roles of river icings in the Tsichu River Valley, Northwest Territories, Canada [1981, p.119-125, eng] **35-3025**

Gill, R.J.
Environmental aspects of winter navigation into Lake Melville [1980, p.287-306, eng] **35-3099**

Patterns of freeze-up in lake Melville [1980, p.266-286, eng] **35-3098**

Gillet, F.
180-meter core drilling at dome C and measurements in the 905-meter drill hole [1979, p.101, eng] **35-672**

Gilmour, J.B.
Corrosion of welds in ice-breaking ships - a review [1980, 10p., eng] **35-2166**

Gilpin, R.R.
Cooling of a horizontal cylinder of water through its maximum density point at 4C [1975, p.1307-1315, eng] **35-2943**

Effects of dendritic ice formation in water pipes [1977, p.693-699, eng] **35-2944**

Ice formation in a pipe containing flows in the transition and turbulent regimes [1981, p.363-368, eng] **35-3516**

Model for the prediction of ice lensing and frost heave in soils [1980, p.918-930, eng] **35-1492**

Morphology of ice structure in a pipe at or near transition Reynolds numbers [1979, p.89-94, eng] **35-2238**

Morphology of ice structure in a pipe at or near transition Reynolds numbers [1979, p.89-94, eng] **35-3351**

Study of factors affecting the ice nucleation temperature in a domestic water supply [1978, p.466-471, eng] **35-2945**

Wave formation and heat transfer at an ice-water interface in the presence of a turbulent flow [1980, p.619-640, eng] **35-521**

Wire regelation at low temperatures [1980, p.435-448, eng] **35-2153**

Girsh, E.V.
Influence of dispersed glass fiber on physico-mechanical properties of gypsum-containing matrices [1980, p.134-142, rus] **35-2426**

Gislason, G.A.
Electrical resistivity measurements in permafrost terrain at the Engineer Creek road cut, Fairbanks, Alaska [1980, p.277-286, eng] **35-745**

Gjessing, Y.
Flow around icebergs [1980, p.67-70, eng] **35-2208**

Measurements of oscillations and flexure of icebergs [1980, p.29-30, eng] **35-2201**

Measurements of the radiation temperature of antarctic icebergs and the surrounding surface water [1980, p.19-22, eng] **35-2199**

Glacial Climatic Group
Method of radiation and heat balance and its applications in investigation of glacier and permafrost [1980, p.32-33, chi] **35-2661**

Glacier threatens shipping lanes
Glacier threatens shipping lanes [1980, p.10-16, eng] **35-3854**

Glaciological observations and research on Batura Glacier, Karakoram Mountains
Glaciological observations and research on Batura Glacier, Karakoram Mountains [1980, 271p. + figs., chi] **35-4025**

Gladkov, M.G.
Ice cover volume and ice thickness distribution on the southeastern part of the Laptev Sea at the end of the winter 1976 [1979, p.16-19, rus] **35-4184**

Gladkov, V.P.
Natural complex of the Timan-Pechora region and its environmental protection [1979, p.133-140, rus] **35-4107**

Glaser, P.H.
Transport and deposition of leaves and seeds on tundra: a Late-Glacial analog [1981, p.173-182, eng] **35-4090**

Glavatskii, N.S.
Thermal regime in lakes of the Kedar Range [1980, p.15-28, rus] **35-2333**

Glazov, M.V.
Structure and functions of spruce forest biota in the southern taiga of Valday [1979, p.10-29, rus] **35-4118**

Glazovskaia, T.G.
Compiling avalanche cadasters for unexplored areas taking the eastern part of the Ketmen' Range as an example [1980, p.25-34, rus] **35-712**

Workshop session of the authors of avalanche maps, prepared for the World Atlas of Snow and Ice resources [1980, p.26-27, rus] **35-2809**

Glazovskii, A.F.
Working session of the Section of glaciology in February 1980 [1980, p.13-20, rus] **35-1220**

Glazyrin, G.E.
Computation of the mean vertical density of snow cover [1980, 4p., eng] **35-984**

Dependence of annual glacier ablation on mean summer air temperature [1980, p.101-104, rus] **35-719**

Pulsating glaciers of the Gissar-Alay Mountains [1980, p.81-100, rus] **35-718**

Glen, J.W.
Proceedings [1980, 527p., eng] **35-2342**

Glenne, B.
Mechanics of skis [1981, p.741-765, eng] **35-3765**

Skiing [1981, p.709-740, eng] **35-3764**

Glikman, N.A.
Improving the design of foundations for gas-pumping aggregates [1980, p.11-12, rus] **35-312**

Gliko, A.O.
Method of a small parameter in the classical Stefan problem [1980, p.211-216, eng] **35-967**

Gliott, S.
Accidents and damage due to avalanches [1980, p.93-151, ger] **35-2566**

Snow and avalanche conditions in the Swiss Alps [1980, p.44-92, ger] **35-2565**

Gloersen, P.
Arctic sea-ice variations from time-lapse passive microwave imagery [1980, p.99-106, eng] **35-1115**

Observation of sea ice properties with the NIMBUS-7 SMMR [1981, p.69-78, eng] **35-3433**

Seasonal variation of total antarctic sea ice area, 1973-75 [1979, p.102-103, eng] **35-673**

Time-sequential multispectral observation of the Greenland ice sheet [1981, p.79-81, eng] **35-3434**

Glowicki, B.
Meteorological and hydrological investigations in the Hornsund region made in 1970 [1975, p.35-59, eng] **35-3610**

Snow and firn patches between Hornsund and Werenskiold Glacier [1975, p.139-146, eng] **35-3615**

Glozman, G.R.
Increasing the stability of benched hard and semi-hard rocks in quarries of permafrost areas [1980, p.18-20, rus] **35-869**

Glude, W.J.
Reconnaissance snow survey of the National Petroleum Reserve in Alaska, April-May 1979 [1980, 13p., eng] **35-991**

Glukh, I.S.
Relationship between atmospheric processes and basic climatic elements and hydroclimatic characteristics of years anomalous in water content in the northern and central regions of western Siberia [1981, p.93-100, rus] **35-3972**

Glushkov, G.I.
Design and operation of airfields [1980, 441p., eng] **35-703**

Glushkov, V.M.
Application of airborne radar surveying in geologic and geographic investigations [1981, 238p., rus] **35-3224**

Glynn, J.E.
Calibration procedure for airborne gamma ray snow surveys [1980, p.120-127, eng] **35-2234**

Mechanism for the formation of large icebergs [1981, p.3210-3222, eng] **35-3371**

Gobler, M.A.
Rock blasting under complicated mining and geological conditions [1980, 358p. (Pertinent p.144-197), rus] **35-2686**

Goblot, R.
Icebergs threaten offshore oil industry [1977, p.9-11, fre] **35-2422**

Godfrey, R.D.
Experimental study of the thermal performance of a phase change material dispersed in a stone-like matrix [1979, p.127-133, eng] **35-3356**

Goff, M.A.
Investigation of the snow adjacent to Dye-2, Greenland [1981, 23p., eng] **35-3651**

Goff, R.D.
Slope protection for artificial exploration islands off Prudhoe Bay [1981, p.437-448, eng] **35-3451**

Gogolev, E.S.
Forecasting cryogenic processses in the Ob' River delta [1980, p.110-112, rus] **35-3126**

Gogus, M.
Characteristics of flow below a rough floating cover [1981, p.122-142, eng] **35-2547**

Gokhman, M.R.
Experimental investigations of the elastic moduli of the soil in a lateral fill [1981, p.29-31, eng] **35-4152**

Gokhman, V.V.
Observations in the mountain glacier basin of the Bol'shaya Khadata River, the Polar Urals, in the 1977-78 balance year [1980, p.194-200, rus] **35-2831**

Gold, L.W.
Strain measurements in floating ice platforms and their application to platform design: Discussion [1980, p.564-565, fre] **35-837**

Goldberg, E.D.
241Pu/239+240Pu ratios in polar glaciers [1981, p.239-247, eng] **35-4297**

Golden, K.M.
Modeling of anisotropic electromagnetic reflection from sea ice [1980, p.247-294, eng] **35-554**

Modeling of anisotropic electromagnetic reflection from sea ice [1980, 15p., eng] **35-1722**

Sea ice studies in the Weddell Sea aboard USCGC Polar Sea [1980, p.84-96, eng] **35-3188**

Gol'dfarb, IU.I.
Young age of some "ancient" moraines in the upper course of the Kolyma River [1976, p.100-106, rus] **35-3834**

Gol'din, E.
Providing for winter operation of river navigation structures [1980, p.23, rus] **35-912**

Gol'din, IU.A.
Hydraulic method of breaking up frozen soil [1981, p.35-38, eng] **35-4153**

Goldstein, E.W.
Summit house: forces and forms cooperating in an extreme environment [1980, 103p., eng] **35-2236**

Gol'dtman, V.G.
Artificial intrapermafrost taliks for winter water supply in mountains [1976, p.77-84, rus] **35-3833**

Ground ice in massive granite [1976, p.73-76, rus] **35-3832**

Goldyreva, A.P.
Influence of basic physical characteristics on the strength of frozen ground [1980, p.45-53, rus] **35-3284**

Golovanova, T.V.
Seasonal variations in chemical composition of atmospheric precipitation in central Yakutia [1980, p.30-37, rus] **35-3992**

Golovinov, G.G.
Achieving reliable performance of axle bearings in freezing weather [1980, p.57-58, rus] **35-457**

Golovko, E.A.
Relations between different biologic activity indices and properties of peat-bog soils in Kola Peninsula [1974, p.140-142, rus] **35-1212**

Golovkov, A.T.
Construction-engineering properties of peat soils in the Komi ASSR [1980, p.19-20, rus] **35-1033**

Gol'tsberg, I.A.
Climatic regionalization of the Baykal Amur railroad area and the adjacent regions of economic development [1980, p.3-15, rus] **35-1194**

Length of the frost-free period in the Baykal Amur railroad area [1980, p.16-22, rus] **35-1195**

Gol'tsman, V.Kh.
Concrete reinforcement for temperature action [1980, p.815-521, eng] **35-3815**

Golubev, G.N.
Common and proper features of the climatic regime of glaciers and their oscillations [1981, p.319-328, fre] **35-3742**

Dynamics and regime of water-ice balance components of the Dzhankaut Glacier and its basin, Central Caucasus [1980, p.147-152, rus] **35-1247**

Golubov, V.G.
Modern trends in the construction of mountain tunnels [1980, p.11-15, rus] **35-1140**

Golubovich, V.A.
Conditions of runoff formation on moraines of the Malaya Almatinka glaciers and their variations [1980, p.103-106, rus] **35-213**

Slope and stream erosion in source areas of dispersed mudflows [1980, p.78-81, rus] **35-1811**

Golubykh, L.P.
Conditions of formation and the dynamics of seasonal cryolithozone in Central Siberia [1980, p.113-120, rus] **35-3324**

Goncharov, V.V.
Building river-harbor structures under complicated conditions of West Siberia [1980, p.18-20, rus] **35-1299**

Construction of river moorings under severe climatic conditions (a review) [1980, 33p., rus] **35-2965**

Studying frost resistance of concrete [1980, p.52-53, rus] **35-3014**

Gonda, T.
Effect of the diffusion field of water vapor and the crystal size on the morphology of ice crystals grown from the vapor phase [1981, p.60-63, eng] **35-3520**
Gontarenko, M.F.
Drainage construction in freezing weather [1980, p.43-45, rus] **35-3538**
Goodie, G.
Remote sensing of oil in sea ice [1980, p.33-52, eng] **35-3092**
Good, W.
Microwave signatures of the natural snow cover at Weissfluhjoch [1980, p.203-223, eng] **35-1744**
Recent developments of avalanche forecasting by discriminant analysis techniques: a methodological review and some applications to the Parsenn area (Davos, Switzerland) [1980, p.315-346, eng] **35-1825**
Goodison, B.E.
AES Nipher shields for recording precipitation gauges: an assessment [1980, p.196-198, eng] **35-3162**
Measurement and data analysis [1981, p.191-274, eng] **35-3751**
Proposed metric snow samplers [1980, p.107-119, eng] **35-2233**
Goodman, D.G.
Surface strain measuring instruments for use on sea ice [1980, p.75-96, eng] **35-3839**
Goodman, D.J.
Creep and fracture of ice and surface strain measurements on glaciers and sea ice [1977, 149p. + plates, eng] **35-135**
Flexural response of a tabular ice island to ocean swell [1980, p.23-27, eng] **35-2200**
Kink velocities on dislocation in ice: a comment on the Whitworth, Paren and Glen model [1976, p.951-961, eng] **35-151**
Goodrich, L.E.
Three-time-level methods for the numerical solution of soil freezing problems [1980, p.237-242, eng] **35-740**
Goody, R.
Polar processes and world climate (a brief overview) [1980, p.1935-1942, eng] **35-3643**
Gopchenko, E.D.
Simplified genetic formula for calculating maximum spring flood runoff in the Upper Kolyma River basin [1980, p.3-11, rus] **35-2875**
Gorbach, L.V.
Extreme wind speeds in the North Pacific [1980, p.38-53, rus] **35-30**
Gorbachev, V.N.
Influence of cryogenesis on automorphous soil formation in the Central Siberia taiga [1980, p.32-33, rus] **35-2263**
Loose surface deposits of the Central Angara River area, their origin, material composition and formation [1980, p.21-39, rus] **35-297**
Temperature regime of different types of forest soils subject to long seasonal freezing [1980, p.69-70, rus] **35-2274**
Gorbunov, A.P.
Cryogenic phenomena in Kazakhstan and Central Asia [1979, 145p., rus] **35-185**
Geocryologic altitudinal zonation of northern Tien Shan [1979, p.67-83, rus] **35-189**
Plowing boulders [1980, p.160-167, rus] **35-3333**
Rock glaciers of Zailiyskiy Alatau [1979, p.5-34, rus] **35-186**
Gorbunov, B.Z.
Determining the ice forming activity in diffusion chambers [1980, p.22-29, rus] **35-785**
Possible mechanisms of ice formation on silver iodide particles in diffusion and cloud chambers [1980, p.57-63, rus] **35-768**
Studies of silver iodide ice-forming activity. 2. Influence of aerosol particle size and structure on the ice-forming activity [1980, p.61-65, eng] **35-1778**
Gorbunov, I.U.
What a raft tug should be [1980, p.33-35, rus] **35-917**
Gorbunov, I.U.A.
Complex full-scale experiment "IAna" [1979, p.7-15, rus] **35-4183**
Evaluating areas of meltwater on ice from aerial photographs [1979, p.92-106, rus] **35-4192**
Grounded ice hummocks in the southeastern part of the Laptev Sea [1979, p.107-110, rus] **35-4193**
Ice surveying methods and results [1981, 144p., rus] **35-3933**
Ice transfer through the New Siberian straits [1979, p.66-72, rus] **35-4189**
Mobility of ice cover in Long Strait during winter [1981, p.110-113, rus] **35-3956**
Morphometric characteristics of drifting ice in Long Strait [1981, p.129-136, rus] **35-3960**
Peculiarities of ice drift in the southeastern part of the Laptev Sea [1979, p.45-65, rus] **35-4188**
Relationship between ice drift and atmospheric pressure gradient in Long Strait [1981, p.97-103, rus] **35-3954**
Gorbunova, I.A.
Paleocryogenic microdiapiric structures of Pavlograd region and their role in soil formation [1979, p.122-130, rus] **35-194**
Gorchakov, G.I.
Joint effect of loading and subzero temperature on deformation of bending elements [1980, p.7-9, rus] **35-1650**
Gordeev, I.V.
Cryocalorimetry of the solution of ice and frozen water-soluble salt granules in organic solvents [1979, p.78, rus] **35-1274**
Gordeev, P.P.
Peculiarities of ground ice development around the pole of cold [1980, p.141-147, rus] **35-3329**
Gordeeva, G.I.
Effect of engineering works on the development of cryopedologic processes [1975, p.70-80, eng] **35-2402**
Gordeichik, A.V.
Some effects of artificial ice production by sprinklers [1980, p.254-260, rus] **35-1254**
Gordienko, F.G.
Isotope and chemical composition of snow cover in East Antarctica (Studies along the Mirnyy-Vostok profile) [1980, p.36-48, rus] **35-1224**
Oxygen-isotope analysis of Novolazarevskaya Glacier shelf ice cores [1980, p.85-90, rus] **35-2038**
Problems and prospects of studying ice cores from glacier boreholes [1980, p.22-26, rus] **35-1222**
Gordon, A.L.
Circumpolar water masses [1980, p.89-90, eng] **35-3190**
Comments on Southern Ocean near-surface circulation and its variability [1980, p.57-61, eng] **35-2206**
Seasonality of Southern Ocean sea ice [1981, p.4193-4197, eng] **35-3910**
Gordon, J.E.
Glacier margin fluctuations during the 19th and 20th centuries in the Ikamiut kangerdluarssuat area, West Greenland [1981, p.47-62, eng] **35-4083**
Ice-scoured topography and its relationships to bedrock structure and ice movement in parts of northern Scotland and west Greenland [1981, p.55-65, eng] **35-4020**
Gordon, W.R.
Importance of water supply forecasts in power planning [1980, p.83-87, eng] **35-2230**
Gore, A.J.P.
Simulation approach to primary production [1981, p.239-256, eng] **35-3382**
Gorelik, IA.B.
Calculating the decrease of soil temperature beneath thermopile foundations [1980, p.19-20, rus] **35-2781**
Gorischev, V.M.
Physical properties of soils and their forest-forming role in dark coniferous mountain forest of the central Ural Mountains [1976, p.114-123, rus] **35-1920**
Gorin, A.B.
Influence of dispersed glass fiber on physico-mechanical properties of gypsum-containing matrices [1980, p.134-142, rus] **35-2426**
Gorlach, I.A.
Method of objective determination of aircraft icing zones according to aerological data [1980, p.75-85, rus] **35-2427**
Gorodetskii, S.E.
Calculating the strength and creep of artificially frozen grounds [1981, 199p., rus] **35-3932**
Gorokh, E.V.
Radar technique of studying peat and sapropel deposits [1980, p.27-29, rus] **35-365**
Goroshkova, I.N.
Calculating heat transfer between water and atmosphere in the North Atlantic [1980, p.32-36, rus] **35-2999**
Goroshkova, N.I.
Example of calculation of ultimate intensity of spring flood runoff (data of the Kolyma Water Balance Station) [1980, p.10-17, rus] **35-1866**
Reducing ultimate intensity of spring flood runoff [1980, p.33-43, rus] **35-1793**
Gorozhankina, S.M.
Prospects of soil melioration in the Kas-Yenisey interfluve [1980, p.122-124, rus] **35-2294**
Gorshkov, S.P.
Periglacial formations of the northern part of the Yenisey Ridge and western part of the Siberian platform [1975, p.42-48, eng] **35-2400**
Gorski, M.
Observations of natural ice-micro-tremors of the Hans Glacier [1975, p.95-100, eng] **35-3612**
Gorskii, A.T.
Heat release of plugging cement hardening at low and subzero temperatures [1978, p.46-50, rus] **35-61**
Pressure kinetics during freezing of dispersed systems in a closed space [1978, p.51-55, rus] **35-62**
Goryshina, T.K.
Photosynthetic apparatus of leaves in certain subalpine meadow plants in Central Caucasus [1980, p.21-26, rus] **35-1038**
Gosink, J.P.
Hydraulic resistance generated by frazil ice formation [1981, p.192-194, eng] **35-2551**
Sediment-laden sea ice: the role of frazil and anchor ice in its formation and development [1981, p.641-662, eng] **35-3268**
Gosink, T.A.
Atmospheric trace gases in association with sea ice [1980, p.82-83, eng] **35-3186**
Goss, R.D.
Effect of pile-ups and rubble fields on ice-structure interaction forces [1980, p.297-305, eng] **35-3634**
Govseev, IU.N.
Podsol formation in the residually-polygonal microrelief system of northern West Siberia [1980, p.94-101, rus] **35-501**
Goulet, R.
Heat sink capacity of a snow dump site [1980, p.179-181, eng] **35-3157**
Gove, H.E.
Cl-36 in polar ice, rainwater and seawater [1980, p.983-986, eng] **35-1536**
Gow, A.J.
Sea ice studies in the Weddell Sea aboard USCGC Polar Sea [1980, p.84-96, eng] **35-3188**
Subsurface measurements of McMurdo Ice Shelf [1979, p.79-80, eng] **35-659**
Graham, D.
Low temperature stress in crop plants: the role of the membrane [1979, 565p., eng] **35-1849**
Graham, J.M.
Plant growth on a gravel soil: greenhouse studies [1981, 8p., eng] **35-3692**
Grainger, E.H.
Zooplankton in a Canadian arctic estuary [1980, p.199-210, eng] **35-3080**
Grakovich, V.F.
Optimal evaluation of glacier characteristics [1980, p.213-215, rus] **35-2836**
Granaturova, L.P.
Modular construction in West Siberia [1980, p.5-7, rus] **35-448**
Granberg, H.B.
Snow sampling bias in the boreal forest [1980, p.66-75, eng] **35-3148**
Granger, R.J.
Snow surface energy exchange [1981, p.609-627, eng] **35-4212**
Granhall, U.
Nitrogen cycling in a subarctic ombrotrophic mire [1980, p.209-234, eng] **35-1482**
Granovskaia, I.V.
Durability of polymer concretes [1981, p.51, rus] **35-2847**
Experience in fabricating plates with porous glass-concrete thermal insulation [1980, p.22-26, rus] **35-1142**
Grant, M.C.
Genetic differentiation among growth forms of Engelmann spruce and subalpine fir at tree line [1977, p.259-263, eng] **35-1905**
Grasty, R.L.
Calibration procedure for airborne gamma ray snow surveys [1980, p.120-127, eng] **35-2234**
Grave, N.A.
Environmental protection problems in Alaska and northern Canada related to economic development of permafrost regions [1980, p.135-141, rus] **35-2195**
International forum of geocryologists [1979, p.109-119, rus] **35-3470**
Place and trends of geocryologic investigations in the fields of environmental protection and rational use of natural resources in permafrost areas [1980, p.6-12, rus] **35-2185**
Surface stability in the presence of industrial activities in permafrost areas [1980, 142p., rus] **35-2184**
Gravis, G.F.
Regularities of the development of cryogenic processes in relation to changes in paleogeographic conditions (Upper Pleistocene and Holocene of Yakutia, Transbaikal and Mongolia) [1981, p.102-113, rus] **35-4075**
Gray, C.
Disinfection of wastewater by microwaves [1980, 15p., eng] **35-2592**
Gray, D.M.
Distribution of snowcover [1981, p.153-190, eng] **35-3750**
Estimating the areal snow water equivalent in the prairie environment [1979, p.302-322, eng] **35-419**
Handbook of snow: principles, processes, management and use [1981, 776p., eng] **35-3745**
Snowcover ablation and runoff [1981, p.360-436, eng] **35-3754**
Gray, J.M.
Studies in the Lateglacial of north-west Europe [1980, 205p., eng] **35-796**
Gray, J.T.
Comparison of thermal and radar active layer measurement techniques in the Leaf Bay area, Nouveau-Quebec [1979, p.317-326, eng] **35-1047**
Permafrost and active layer in the forest tundra south of Leaf Bay, Ungava [1979, p.253-264, fre] **35-1043**
Permafrost existence and distribution in the Chic-Chocs Mountains, Gaspesie, Quebec [1979, p.299-316, eng] **35-1046**
Gray, L.
Assessment of SAR for oil pollution surveillance in the ice environment [1979, p.99-123, eng] **35-166**
Gray, T.
Preliminary observations on the distribution of permafrost in the Great Whale River basin, Ungava [1979, p.291-298, fre] **35-1045**

Grebenshchikov, O.S.
Main features of similarity and differences of vegetation in the Alps and Caucasus [1981, p.333-352, fre] **35-3743**

Grech, V.I.
Future development of modular construction for petroleum industry in West Siberia [1980, p.32-33, rus] **35-1**

Grechushkina, L.I.
Studying soil and geochemical regimes of forest geosystems in the West Sayan foothills [1975, p.44-54, rus] **35-794**

Green, P.
Static breakage of granitic detritus by ice and water in comparison with breakage by flowing water [1981, p.261-272, eng] **35-4024**

Greenland remote sensing studies using NOAA-5 satellite data
Greenland remote sensing studies using NOAA-5 satellite data [1980, 65p., fre] **35-3551**

Gregersen, O.
Permafrost engineering research on Spitsbergen [1980, p.3-6, eng] **35-1988**

Gregory, A.F.
Snow cover, snowmelt and runoff in the Mackenzie basin [1979, p.449-460, eng] **35-429**

Grenfell, T.C.
Spectral albedos of an alpine snowpack [1981, p.121-127, eng] **35-3668**

Greshnova, E.V.
Influence of human activities, including river diversions, on the environment and economic development of the estuary and lower course of the Ob' River [1980, p.136-137, rus] **35-3134**

Grey, B.J.
Aufeis (overflow ice) in rivers [1979, p.139-163, eng] **35-409**

Spring break-up at pipeline river crossings in the Keewatin District -- Preliminary report [1978, 22p., eng] **35-3795**

Gribova, S.A.
Vegetation of the European part of the USSR [1980, 429p., rus] **35-1491**

Grichuk, V.P.
Problems of Pleistocene paleogeography in glacial and periglacial regions [1981, 251p., rus] **35-3293**

Griffiths, R.F.
Triggering of lightning by corona from ice hydrometeors or colliding raindrops [1977, p.618-622, eng] **35-3781**

Grigor'ev, A.IU.
Influence of fallen spruce trunks on properties of sandy semipodsolic soils [1979, p.176-184, rus] **35-4123**

Grigor'ev, G.N.
Microclimatic changes in taiga geosystems due to human factors [1980, p.90-100, rus] **35-3052**

Radiation regime of southern taiga in the lower course of the Angara River [1980, p.49-109, rus] **35-2488**

Grigor'ev, IU.A.
Giant power plant in the Sayan Mountains [1980, 104p., rus] **35-1271**

Grigor'ev, IU.S.
Using deep, cable-type bench marks of improved structure in monitoring slide slope deformations [1980, p.80-84, rus] **35-773**

Grigor'ev, S.G.
Scheme for a generalized method of integral correlations for multivariate single phase Stefan problems and its applications [1980, p.43-52, rus] **35-2395**

Grigor'ev, V.P.
Comparative effectiveness of pneumatic tube transportation in mines in southern Yakutia [1978, p.72-80, rus] **35-4114**

Grigor'eva, D.V.
Water regime of cereal grasses in Yakutia [1981, 145p., rus] **35-4097**

Grigor'eva, S.O.
Diversity of species in plant communities of spruce taiga forests [1981, p.26-33, rus] **35-3508**

Grigorian, A.A.
Experimental investigation of the distribution of stresses in large bored situ-cast piles [1980, p.102-106, eng] **35-1384**

Grim, M.S.
Aeromagnetic and radio-echo ice-sounding measurements over the Dufek intrusion, Antarctica [1981, p.3014-3020, eng] **35-3362**

Aeromagnetic and radio echo ice-sounding measurements show much greater area of the Dufek intrusion, Antarctica [1980, p.1014-1017, eng] **35-218**

Grinbaum, A.
Tug-boats for Siberia [1980, p.46-47, rus] **35-913**

Grinberg, A.M.
Remote sensing studies of the water component [1980, p.152-154, rus] **35-1923**

Grinberg, N.A.
Surfacing alloys for increasing service life of machine details working at low temperatures [1980, p.52-54, rus] **35-3016**

Grindley, G.W.
Tillite, glacial striae, and hyaloclastite associations on Hobbs Coast, Marie Byrd Land [1979, p.48-50, eng] **35-641**

Grinevich, V.V.
New hydraulic excavator for mining assemblies of the "Severovostokzoloto" Association [1978, p.34-37, rus] **35-1080**

Grishchenko, T.G.
Instrument for measuring heat flux through enclosures [1979, p.127-131, rus] **35-4064**

Grishchenko, V.D.
Surface morphology of ice in the Arctic Basin [1980, p.33-35, rus] **35-1315**

Grishchenko, V.F.
Heavy snowfall and avalanches in the Ukrainian Carpathians in the winter of 1975-76 [1978, p.297-299, eng] **35-3685**

Grishin, G.I.
Building river-harbor structures under complicated conditions of West Siberia [1980, p.18-20, rus] **35-1299**

Construction of river moorings under severe climatic conditions (a review) [1980, 33p., rus] **35-2965**

Grishin, I.A.
River valley soils in the vicinity of Zeya and Bureya hydroelectric power plants [1979, p.95-111, rus] **35-1522**

Grishin, P.A.
Studying clay shale deformation during thawing [1973, p.12-22, rus] **35-1598**

Grishina, L.A.
Dynamics of chemical composition of soil solutions and lysimetric waters in spruce forests [1979, p.86-104, rus] **35-4121**

Microclimate and transpiration of soddy semipodsolic soils of Picea-Oxalis forests [1979, p.70-85, rus] **35-4120**

Grissom, W.N.
Liquid spray cooling of a heated surface [1981, p.261-271, eng] **35-3271**

Gritsenko, V.S.
Geocryological conditions of the southern spur of the Kodar Range [1980, p.124-127, rus] **35-3326**

Gritsko, G.I.
Timbering, maintenance and preservation of mining excavations [1979, 114p., rus] **35-196**

Gritsyk, V.I.
Dimensions of frost heave humps [1980, p.23-25, rus] **35-6**

Grodzinskii, A.M.
Theories and methods of plant introduction and landscaping. Proceedings of a republican conference, Kiev, 1978 [1980, 220p., rus] **35-2444**

Groenevelt, P.H.
Pressure distribution in frozen soils [1979, p.582-591, eng] **35-436**

Gromov, N.N.
Role of transport in the outpost method of economic development of northern USSR [1981, p.25-30, rus] **35-4287**

Gromyko, A.N.
Radar echo sounding of Spitsbergen glaciers in 1977 [1980, p.279-286, rus] **35-1260**

Grossman, A.G.
Transfer processes in disperse systems at moderate concentrations [1978, p.131-134, rus] **35-871**

Grosval'd, M.G.
Climatically and non-climatically induced glacier changes: a review of Soviet studies [1981, p.361-368, eng] **35-3039**

Grosval'd, M.S.
Impending climatic change and the fate of glaciers [1980, p.65-78, eng] **35-1006**

Ground freezing halts sewer collapse
Ground freezing halts sewer collapse [1980, p.85, eng] **35-1698**

Grove, W.M.
Operating the Androscoggin river reservoir system [1980, p.101-105, eng] **35-3151**

Groznov, G.A.
Construction of bulk plants and gasoline stations [1980, 332p. (Pertinent p.56-147), rus] **35-2873**

Grubov, L.A.
Geothermal conditions of producing formations in the Lena-Vilyuy oil-bearing area [1975, p.70-75, rus] **35-398**

Grudinin, G.V.
Calculating evaporation of snow retained by a forest canopy [1980, p.148-160, rus] **35-3423**

Grudinina, N.A.
Studying soil and geochemical regimes of forest geosystems in the West Sayan foothills [1975, p.44-54, rus] **35-794**

Grushevskii, M.S.
Hydrology [1980, 177p., rus] **35-1865**
Hydrology [1978, 224p., rus] **35-2699**

Grushko, I.M.
Concrete with combined chemical admixtures [1980, p.23-24, rus] **35-3007**

Gruza, G.V.
Structure and changes of the observed climate -- Air temperature in the Northern Hemisphere [1980, 72p., rus] **35-2950**

Gruzdev, V.V.
Fortieth anniversary of the All-Union Trust of Industrial Blasting Operations [1981, p.33-35, rus] **35-2086**

Gu, G.
Brief recommendation of the Institute of Hydrosphere Science, Nagoya University, Japan [1980, p.61-62, chi] **35-129**

Discussion on measuring method of sedimentograph for size analysis of glacial sediments [1980, p.91-92, chi] **35-2682**

Gu, Z.
Gravimetric determination of ice thickness and the calculation of ice quantity of Batura Glacier [1980, p.42-56, chi] **35-4029**

Review: advances in radio-echo sounding of glacier in foreign countries [1980, p.93-96, chi] **35-2683**

Gubenkov, E.K.
Horizontal freezing in tunnel construction in East Germany [1981, p.52-54, rus] **35-2084**

Gubin, S.V.
Buried soils of Upper Pleistocene deposits of North Yakutia [1980, p.171-173, rus] **35-2308**

Origin and evolution of soils in southern tundra of the European USSR in relation to cryogenic relief [1980, p.159-161, rus] **35-2305**

Gubler, H.
Simultaneous measurements of stability indices and characteristic parameters describing the snow cover and the weather in fracture zones of avalanches [1980, p.65-74, eng] **35-2348**

Gudkovich, Z.M.
Changes in pack ice density due to dynamic processes [1979, p.73-81, rus] **35-4190**

Complex full-scale experiment "1Ana" [1979, p.7-15, rus] **35-4183**

Evaluating areas of meltwater on ice from aerial photographs [1979, p.92-106, rus] **35-4192**

Evaluating heat spent for ice melting in the southeastern part of the Laptev Sea in the summer 1976 [1979, p.21-27, rus] **35-4186**

Evaluating the effect of thermal processes on changes in sea ice packing [1980, p.29-44, rus] **35-3491**

Evaluating variations in salinity of the surface layer of the Kara Sea due to river diversion and its effect on ice conditions [1980, p.127-130, rus] **35-3131**

Hydrologic observations and the calculation of heat balance in the southeastern part of the Laptev Sea [1979, p.38-44, rus] **35-4187**

Ice cover volume and ice thickness distribution on the southeastern part of the Laptev Sea at the end of the winter 1976 [1979, p.16-19, rus] **35-4184**

Numerical model of ice cover redistribution in summer [1980, p.4-28, rus] **35-3490**

Peculiarities of ice drift in the southeastern part of the Laptev Sea [1979, p.45-65, rus] **35-4188**

Reflectivity of ice cover during the ice melting period in the southeastern part of the Laptev Sea [1979, p.27-31, rus] **35-4185**

Gudmansen, P.
Application of microwave remote sensing for snow and ice properties [1981, p.951-957, eng] **35-3587**

Gudoshnikov, S.V.
Nemorose element in the mosses of the Altai and eastern Sayan highlands [1981, p.52-60, rus] **35-3893**

Gudz', A.G.
Comfortable accommodations for gas industry workers [1980, p.6-7, rus] **35-1645**

Gugalinskaia, L.A.
Cryomorphic indices in soils and their significance in determining soil origin [1980, p.33-35, rus] **35-2264**

Guillaume, M.
Alpine revegetation research at the Climax molybdenum mine [1980, p.185-203, eng] **35-589**

Guillot, P.
Satellite pictures and snow measurements [1978, p.517-526, fre] **35-1163**

Gukhman, L.M.
Preparation of gas from northern fields for distant transportation [1980, 161p., rus] **35-2949**

Gulaia, O.P.
Peculiarities of thermal properties of soils in the eastern part of the Baykal-Amur railroad area [1981, p.5-22, rus] **35-3281**

Gumerov, A.G.
Device for anchoring pipelines [1980, p.6-7, rus] **35-621**

Gunbak, A.
Design of mound breakwaters [1979, p.265-274, eng] **35-176**

Gundersen, P.
Practical frost protection of buried pipes [1980, p.7-22, nor] **35-1989**

Gunter, IU.S.
Promising methods of controlling temperature of concrete [1980, p.19-22, rus] **35-602**

Guo, P.
Discussion of Quaternary Ice Age in the middle and east sections of the Qilian Shan [1980, p.6-16, chi] **35-80**

Gupta, R.S.
Variable time step methods for one-dimensional Stefan problem with mixed boundary conditions [1981, p.251-259, eng] **35-3270**

Gur'ev, I.A.
Tree bark in road pavement construction [1980, p.124-127, rus] 35-1090

Gurinchkov, I.I.
Increasing frost resistance of cemented clayey soils [1980, p.7-8, rus] 35-476

Gur'janov, I.E.
Engineering studies of frozen ground -- Soil properties and the dynamics of cryogenic processes [1981, 159p., rus] 35-3280
Thermophysical characteristics of clayey soils in the numerical solutions of freeze-thaw problems [1981, p.36-45, rus] 35-3283

Gur'janova, L.V.
Studying heat balance of dark conifer forests in the central taiga of West Siberia [1973, p.37-47, rus] 35-762

Gurvich, A.S.
Radiophysical methods of sounding atmosphere and ocean surface from space [1981, p.63-70, rus] 35-3542
Several properties of the radio emission of land surfaces [1973, 29p., eng] 35-1895

Gusarova, S.P.
Method of determining water exchange of the Arctic Basin with a random wind field: barotropic model [1981, p.52-59, eng] 35-4132
On the possibility of determining water exchange of the Arctic Basin caused by wind over it [1981, p.40-51, eng] 35-4131

Gusev, A.V.
Designing thermometric apparature for studies from drifting ice in the Arctic Basin [1980, p.87-93, rus] 35-376
Inherent noise of the Antarctic glacier in the Novolazarevskaya Station area and acoustic attenuations [1980, p.56-61, rus] 35-370
Physics of ice and ocean [1980, 157p., rus] 35-360
Seasonal variations in sea ice elasticity [1980, p.37-42, rus] 35-367
Space-time variations of hydrophysical fields of the Arctic Basin [1980, p.967-970, rus] 35-306
Underwater acoustic emission of Antarctic icebergs [1980, p.62-66, rus] 35-371

Gusev, IU.D.
New data on the adventive flora in different areas of taiga in the European part of the USSR [1980, p.249-255, rus] 35-394

Gusev, V.V.
Equipment for building seepage fills on the Baykal Amur railroad [1981, p.3-5, rus] 35-3532

Gushchenkov, E.M.
Deterioration of ice of different age [1981, p.56-58, rus] 35-3945
Specification of aerial observations of fast ice characteristics [1981, p.49-50, rus] 35-3943

Gushchin, V.I.
Borehole blasting along the Surgut-Polotsk oil pipeline [1980, p.27-29, rus] 35-616

Gus'kov, A.S.
Experience in direct use of glaciers for winter water supply [1980, p.260-264, rus] 35-1255
Studies of Spitsbergen snow cover in spring of 1979 [1980, p.185-192, rus] 35-2829

Gustafson, K.M.
Proposed ecological natural landmarks in the Brooks Range, Alaska [1981, 175p., eng] 35-3554

Gustafson, R.J.
Temperature profiles in the Barnes Ice Cap, Baffin Island, Canada, and heat flux from the subglacial terrane [1980, p.1174-1188, eng] 35-1266

Gustafsson, B.
Case history of discovery and exploration of Pleutajokk uranium deposit, northern Sweden [1977, p.72-79, eng] 35-2726

Guymon, G.L.
Frost heave in an instrumented soil column [1980, p.211-221, eng] 35-737
One-dimensional frost heave model based upon simultaneous heat and water flux [1980, p.253-262, eng] 35-742
Some approaches to modeling phase change in freezing soils [1981, p.137-145, eng] 35-3670

Guzeev, E.A.
Joint effect of loading and subzero temperature on deformation of bending elements [1980, p.7-9, rus] 35-1650

Gvakharia, V.K.
Snow evaporation in the Caucasus [1980, p.337-341, rus] 35-108

Gvozdetskii, N.A.
Complex geographic studies and the development of mountainous regions [1980, 150p., rus] 35-1435

Gzirishvili, T.G.
Influence of vapor supersaturation on the process of heterogeneous nucleation [1980, p.18-30, rus] 35-2870

Haas, W.M.
Frost depth prediction for highway subgrade soils [1981, p.719-733, eng] 35-2533

Hackett, S.W.
Avalanche zoning in Alaska, U.S.A. [1980, p.377-392, eng] 35-2380
Informal cooperative state-federal avalanche-warning system and public education program for south-central Alaska, U.S.A. [1980, p.497-500, eng] 35-2390

Haefner, H.
Snow surveys from earth resources satellites in the Swiss Alps a review of six years' research [1980, 65p., eng] 35-2930

Hagedorn, J.
Montane periglacial zone and its morphological lower limit [1980, p.96-103, eng] 35-3303

Haggag, M.R.
Investigation of the resistance coefficient for the underside of ice covers [1981, p.23-33, eng] 35-2541

Haggag, M.R.I.
Influence of channel cross-section on the regime of streams in winter [1979, p.164-174, eng] 35-410

Hahn, S.
Experiences with moist salt for skid prevention on highways in Rhineland-Palatinate [1981, p.39-48, ger] 35-3984

Haile, G.
Foundation performance of a steel tower silo at Richmond, Ontario [1980, p.85-89, eng] 35-277

Hais, A.B.
Cost-effective use of municipal wastewater treatment ponds [1979, p.177-200, eng] 35-2751
Cost of land treatment systems [1979, 135p., eng] 35-2464

Hakala, M.
On plastic design of an ice-strengthened frame [1978, 54p., eng] 35-4179

Haland, L.
Activities at the Norwegian Meteorological Institute in support of operations in polar regions [1979, p.153-178, eng] 35-169

Halberstam, I.
Model of the planetary boundary layer over a snow surface [1979, p.431-452, eng] 35-158

Haldorsen, S.
Grain-size distribution of subglacial till and its relation to glacial crushing and abrasion [1981, p.91-105, eng] 35-2940

Hale, B.N.
Water monomer on the prism face of ice and above a four layer ice basal face ledge: an effective pair potential model [1981, p.1991-1995, eng] 35-4155

Hale, D.
Alaskan gas breakthrough nearing [1980, p.17-21, eng] 35-1873
Arctic pipeline operation, a different world [1980, p.22-30, eng] 35-1874

Hall, D.K.
1977 tundra fire at Kokolik River, Alaska [1978, 11p., eng] 35-2591
LANDSAT digital analysis of the initial recovery of burned tundra at Kokolik River, Alaska [1980, p.263-272, eng] 35-2462
Monitoring snowpack properties by passive microwave sensors on board of aircraft and satellites [1980, p.235-248, eng] 35-1746
Origin of water feeding icings on the eastern North Slope of Alaska [1981, p.433-438, eng] 35-4341
Utilization of remote sensing in Alaskan permafrost studies [1981, p.676-684, eng] 35-3442

Hall, K.
Freeze-thaw activity at a nivation site in northern Norway [1980, p.183-194, eng] 35-1660
Observations on the stone-banked lobes of Marion Island [1981, p.129-131, eng] 35-4296

Hallikainen, M.
Dielectric properties and passive remote sensing of low-salinity sea ice [1980, 78p., eng] 35-3559

Halttunen, J.
Snow scooter and cross country vehicle as farmers' wood transport vehicles [1981, p.28-30, fin] 35-2798

Hambrey, M.J.
Dynamics and structure of Griesgletscher, Switzerland [1980, p.215-228, eng] 35-1818

Hameedi, J.
Final technical development plans, Gulf of Alaska: North East Gulf of Alaska (Sale No.55), Lower Cook Inlet (Sale No.60), Kodiak (Sale No.62). Fiscal Year 1981 [1980, 130p., eng] 35-2020

Hamilton, F.M.
Longitudinal stiffness analyses for the propulsion shafting systems of the polar class icebreakers [1921, p.179-195, eng] 35-3561

Hamilton, W.L.
Investigation into modeling snow cover elements at Crater Lake National Park and surrounding environs as an improved "ground truth" method for satellite snow observations [1980, 112p., eng] 35-3974

Hammer, C.U.
Acidity of polar ice cores in relation to absolute dating, past volcanism, and radio echoes [1980, p.359-372, eng] 35-1500

Hammond, C.W.
Arctic ice trafficability, Arctic Islands area [1972, 10p., eng] 35-1847
Arctic ice trafficability, Beaufort Sea area [1972, 9p., eng] 35-1958

Hampton, M.A.
Environmental geology of Shelikof Strait, OCS state area 60, Alaska [1981, p.19-34, eng] 35-3456
Synthesis report: environmental geology of Kodiak Shelf [1981, p.49-58, eng] 35-3236

Hamza, H.
Load bearing capacity test on a freshwater ice cover [1980, 50p., eng] 35-565

Hanamoto, B.
Ice control at navigation locks [1981, p.1088-1095, eng] 35-4168

Hanks, M.L.
Artificial and natural icing tests: production UH-60A helicopter [1979, 86p., eng] 35-3467

Hanley, T.O.
Acoustic detection of frazil formation [1981, p.238-241, eng] 35-2555
Freezing potentials in wet clays -- 1. Early results [1980, p.163-168, eng] 35-731
Freezing potentials in wet clays -- 2. Specific systems [1980, p.169-175, eng] 35-732

Hansen, E.
Streamflow modelling for the Narssaq River Basin, Greenland [1980, p.81-86, 154-157, rus] 35-2821

Hanson, A.M.
Snow cover of sea ice during the Arctic Ice Dynamics Joint Experiment, 1975 to 1976 [1980, p.215-226, eng] 35-1663

Hanssen, A.J.
Computer enhanced snow cover analysis of satellite data [1979, p.414-423, eng] 35-427

Hansson, H.-C.
Chemical composition of arctic haze Ny-Alesund, Spitzbergen [1981, p.162-171, eng] 35-3487

Harada, M.
Field operation of explosion seismic experiment in Antarctica [1980, p.158-182, jap] 35-1056

Hare, H.E.
Overland flow: removal of toxic volatile organics [1981, 16p., eng] 35-2581

Harig, S.
Resistivity of bridge concrete pavement to freezing and salting [1980, p.271-276, ger] 35-568

Harimaya, T.
Internal structure and embryo of graupel [1977, p.29-38, eng] 35-571
Observation of size distribution of graupel and snow flakes [1978, p.67-77, eng] 35-574

Harris, H.J.H.
Hydrology and hydrogeochemistry of the south fork, Wright Valley, southern Victoria Land, Antarctica [1981, 341p., eng] 35-3607

Harris, J.R.
Snow accumulation on and around solar collectors [1980, p.54-65, eng] 35-3147

Harris, J.S.
Transition from natural-convection-controlled freezing to conduction-controlled freezing [1981, p.7-12, eng] 35-2146

Harris, S.A.
Climatic relationships of permafrost zones in areas of low winter snow-cover [1961, p.64-70, eng] 35-4053
Distribution of active glaciers and rock glaciers compared to the distribution of permafrost landforms, based on freezing and thawing indices [1981, p.376-381, eng] 35-3513

Harrison, W.D.
Methods and equipment for temperature measurements in subsea permafrost [1981, 32p., eng] 35-3549
Subsea permafrost: probing, thermal regime and data analysis [1981, p.497-677, eng] 35-3267

Harrje, D.T.
Building envelope performance testing [1981, p.39-41, eng] 35-2802

Hartz, R.M.
Review of offshore permafrost studies, Beaufort Sea, Alaska, 1976 to 1980 [1981, p.167-177, eng] 35-3258

Hartz, R.W.
Coastal morphology, coastal erosion, and barrier islands of the Beaufort Sea coast, Alaska [1981, p.178-186, eng] 35-3259
Offshore permafrost studies and shoreline history as an aid to predicting offshore permafrost conditions [1981, p.159-255, eng] 35-3257
Offshore permafrost studies and shoreline history of Chukchi and Beaufort Seas as an aid to predicting offshore permafrost conditions [1980, p.123-129, eng] 35-1155
Offshore permafrost studies, Beaufort Sea, Alaska [1980, p.111-122, eng] 35-1154
Shoreline history of Chukchi and Beaufort Seas as an aid to predicting offshore permafrost conditions [1980, p.371-379, eng] 35-1159

Hasegawa, A.
Random waves attack on a composite breakwater [1979, p.275-288, eng] 35-177

Haspel, R.A.
Design and construction of sea ice roads in the Alaskan Beaufort Sea [1981, p.135-140, eng] 35-3449

Hassell, W.G.
Latest advances in plant materials development at the Meeker Environmental Plant Center [1980, p.153-172, eng] 35-587

Hasselmann, K.
Stochastic dynamic analysis of polar sea ice variability [1980, p.2100-2120, eng] 35-2473
Hassinger, J.
Characteristics and significance of rock glaciers in southern Victoria Land, Antarctica [1980, p.68-69, eng] 35-3178
Hastenrath, S.
Dynamics of crevasse pattern at Lewis Glacier, Mount Kenya [1979, p.201-207, eng] 35-3729
Radiation measurements in Lewis Glacier, Mount Kenya, Kenya [1980, p.439-444, eng] 35-1506
Variations of Lewis Glacier, Mount Kenya, 1974-78 [1979, p.292-297, eng] 35-358
Hatchwell, J.A.
Concepts for data collection in the Arctic [1972, 72p., eng] 35-3466
Hattula, A.
Geophysical methods in thick overburden, Kolari, Finland [1977, p.120-127, eng] 35-2731
Haugen, R.K.
Coastal-inland distributions of summer air temperature and precipitation in northern Alaska [1980, p.403-412, eng] 35-3196
Haukioja, E.
Invertebrate herbivory at tundra sites [1981, p.547-555, eng] 35-3391
Hauser, G.M.
Surface ablation by melting or sublimation on a submerged rotating disc [1979, p.134-147, eng] 35-3357
Havard, D.G.
Detuning for controlling galloping of single conductor transmission lines [1979, 6p., eng] 35-1880
Hawkins, L.M.E.
Application of removal and control methods. Section 1. Railways. Section 2. Highways. Section 3. Airports [1981, p.671-706, eng] 35-3763
Hayashida, S.
Treatment and disposal system of waste materials at Mizuho Station [1981, p.49-60, jap] 35-4174
Hayes, L.J.
Efficient solution of nonlinear time-dependent problems with applications to permafrost modeling [1980, p.185-192, eng] 35-734
Simulation of a hot pipeline buried in permafrost [1978, 8p., eng] 35-3782
Hayes, M.O.
Coastal morphology, sedimentation and oil spill vulnerability of the outer Kenai Peninsula and Montague Island [1980, p.5-13, eng] 35-1151
Hayes, R.D.
Radar clutter models at 95GHz [1980, 13p., eng] 35-1590
Haymet, A.D.J.
Molecular theory for the solid-liquid interface [1981, p.2559-2565, eng] 35-2709
Haynes, D.
Ice force measurement on the Yukon River bridge [1981, p.749-777, eng] 35-2536
Haynes, F.D.
Thermal diffusivity of frozen soil [1980, 30p., eng] 35-2603
He, J.
Application of thermal resistor in measuring temperature of frozen soil [1980, p.20-23, chi] 35-2655
He, Y.
Numerical interpretation of resistivity sounding data in permafrost regions [1980, p.37-39, chi] 35-2663
Heal, O.W.
Decomposition and accumulation of organic matter in tundra [1981, p.587-633, eng] 35-3393
Tundra ecosystems: a comparative analysis [1981, 813p., eng] 35-3373
Healy, T.R.
Morphology of the Onyx River system, McMurdo Sound region, Antarctica [1980, p.223-238, eng] 35-2953
Heidam, N.Z.
On the origin of the Arctic aerosol: a statistical approach [1980, 11p. + figs., eng] 35-3735
Heintzenberg, J.
Chemical composition of arctic haze Ny-Alesund, Spitzbergen [1981, p.162-171, eng] 35-3487
Helbig, A.
Meteorological processes in the antarctic atmosphere [1980, p.64-79, ger] 35-2435
Surface meteorological processes in the Antarctic [1979, p.111-122, ger] 35-3488
Heller, P.L.
Multiple ice flow directions during the Fraser Glaciation in the lower Skagit River drainage, northern Cascade Range, Washington [1980, p.299-308, eng] 35-1667
Henderson-Sellers, A.
Hemispheric asymmetries and the role of the Southern Hemisphere in global climate change [1980, p.373-374, eng] 35-1311
Hendry, A.
Differential propagation constants on slant paths through snow and ice crystals as measured by 16.5 GHz polarization-diversity radar [1981, p.133-139, eng] 35-3885
Herb, H.
Snow conditions in Bavaria, with maps of the Bavarian Alps and subalpine region [1973, 93p. + 11 maps, ger] 35-4339
Herbert, D.
Tritium and C-14 investigations in the framework of GDR research in Antarctica [1980, p.187-194, ger] 35-2436
Tritium in ice near Molodezhnaya Station [1980, p.91-94, rus] 35-2039
Herman, G.F.
Arctic and antarctic climatology of a GLAS general circulation model [1980, p.1974-1991, eng] 35-3645
Sea ice simulation based on fields generated by the GLAS GCM [1980, p.2080-2091, eng] 35-3653
Heron, R.
Ice cover characteristics of two small lakes in the Peterborough area [1980, p.121-132, eng] 35-45
Modelling basin snow storage in a high Arctic environment [1979, p.206-216, eng] 35-414
Occurrence of ice layers at the base of high arctic snowpacks [1981, p.225-230, eng] 35-4095
Heropoulos, C.
Distribution of trace elements in bottom sediment of northern Bering Sea [1981, p.445-567, eng] 35-3249
Herron, M.M.
Firn densification: an empirical model [1980, p.375-385, eng] 35-1501
Hesterman, L.
Report on an ice crossing at Riverhurst during the winter of 1974-75 [1976, 109p. + numerous figs., eng] 35-1842
Hestnes, E.
Natural-hazard maps for land-use planning in Norway [1980, p.331-345, eng] 35-2376
Hibler, W.D., III
Modeling a variable thickness sea ice cover [1980, p.1943-1973, eng] 35-3514
Nonsteady ice drift in the Strait of Belle Isle [1980, p.177-186, eng] 35-2168
Hickman, D.
De-icing radar scanners [1980, 7p. + 7 appends., eng] 35-3772
Hickok, D.M.
United States Arctic science policy [1981, 62p., eng] 35-3738
Higashi, A.
Commemorative monument of the birthplace of the first artificial snow crystals [1980, p.61-62, jap] 35-3664
Formation mechanism of concentric dislocation loops in ice single crystals grown from the melt [1981, p.71-80, eng] 35-1069
Fundamentals of cold regions engineering (Pt.9) [1980, p.33-48, jap] 35-3662
Fundamentals of cold regions engineering (Pt.9) [1981, p.29-40, jap] 35-4205
Glaciological research project in the east Queen Maud Land, Antarctica [1981, p.129-130, jap] 35-4273
High Altitude Revegetation Workshop No.4, Golden, Colorado, Feb. 26-27, 1980
Proceedings [1980, 258p., eng] 35-576
Higuchi, K.
Glaciological studies on the perennial snow patches in Tsurugisawa. Part 2 (Ablation and climate) [1980, p.1-28, jap] 35-1064
Measurements of water vapor condensation on the surface of perennial snow fields [1980, p.118-121, rus] 35-1239
Observation of snow particles at Hidden Valley, Mukut Himal [1978, p.42-44, eng] 35-54
Recent fluctuations of glaciers in the eastern part of Nepal Himalayas [1981, p.21-29, eng] 35-3019
Snow crystal observations at Mt. Yalung Kang, Kangchenjunga region, east Nepal [1978, p.45-49, eng] 35-55
Summary on the studies of perennial snow patches in Japan [1979, p.181-197, jap] 35-266
Hillaire-Marcel, C.
Sakami moraine, Quebec: a 500-km-long moraine without climate control [1981, p.210-214, eng] 35-3138
Hirata, T.
Wave formation and heat transfer at an ice-water interface in the presence of a turbulent flow [1980, p.619-640, eng] 35-521
Hirose, K.
Numerical method for the two-dimensional freezing problem around a horizontal cylinder encompassing a density inversion point [1981, p.147-152, eng] 35-4314
Hirvas, H.
Glacial transport in Finnish Lapland [1977, p.128-136, eng] 35-2732
Hoar, C.L.
Construction in an arctic environment without adequate inspection [1981, p.348-361, eng] 35-2513
Hobbie, J.E.
Decomposers, bacteria, and microbenthos [1980, p.340-387, eng] 35-1755
Ecosystem models vs biological reality: experiences in the systems analysis of an arctic pond [1978, p.105-109, eng] 35-2890
Introduction and site description [1980, p.19-50, eng] 35-1749
Limnology of tundra ponds [1980, 514p., eng] 35-1747
Major findings [1980, p.1-18, eng] 35-1748
Oil spill effects [1980, p.388-406, eng] 35-1756
Hodgins, D.B.
Evaluation of ice jam toughness, Thames River, Ontario [1981, p.281-294, eng] 35-2558
Hoekstra, P.
Low frequency methods for measuring sea ice thickness [1980, p.313-330, eng] 35-557
Hoffman, C.S.
Great Lakes ice: a selected bibliography [1980, p.39-71, eng] 35-2161
Great Lakes ice data archive [1980, p.5-20, eng] 35-2158
Hoffman, H.H.
Ice depolarization statistics for 19-GHz satellite-to-earth propagation [1980, p.546-550, eng] 35-2412
Hogan, A.
Some characteristics of the antarctic aerosols [1980, p.78-86, eng] 35-3411
Hogan, B.J.
Coupling protects snow thrower's motor and power train [1981, p.82-83, eng] 35-3853
Hogg, W.D.
Computer enhanced snow cover analysis of satellite data [1979, p.414-423, eng] 35-427
Hok, C.
Improvement of the Fairbanks atmospheric carbon monoxide transport model: a program for calibration, verification and implementation [1980, 49p., eng] 35-1841
Holdgate, M.W.
Some environmental questions: an after-dinner address [1980, p.135-136, eng] 35-2219
Holding, A.J.
Microflora of tundra [1981, p.561-585, eng] 35-3392
Holdsworth, G.
Mechanism for the formation of large icebergs [1981, p.3210-3222, eng] 35-3371
Hollermann, P.
Arid and periglacial processes in the subtropical semidesert of High Tenerife [1974, p.333-353, ger] 35-1951
Hollin, J.T.
Late Wisconsin-Weichselian mountain glaciers and ice caps [1981, p.179-206, eng] 35-2065
Numerical reconstructions of valley glaciers and small ice caps [1981, p.207-220, eng] 35-2066
Hollinger, J.P.
Measurement of the microwave properties of sea ice at 90 GHz and lower frequencies [1981, p.4283-4289, eng] 35-3914
Holmes, K.W.
Natural revegetation of dredge tailings at Fox, Alaska [1981, p.26-29, eng] 35-1693
Holmes, M.L.
Distribution of gas-charged sediments in Norton Basin, northern Bering Sea [1981, p.261-287, eng] 35-3242
Report on surface and subsurface faulting in Norton Sound and Chirikov Basin, Alaska [1981, p.420-444, eng] 35-3248
Holtzman, J.C.
Circularly polarized measurements of radar backscatter from terrain and snow-covered terrain [1980, 78p. + appends., eng] 35-892
Homshaw, L.G.
Freezing and melting temperature hysteresis of water in porous materials: application to the study of pore form [1980, p.399-414, eng] 35-487
Hood, D.W.
Eastern Bering Sea shelf: oceanography and resources [1980, 625p., eng] 35-4136
Hooke, R.L.
Glacier-bed landforms of the prairie region of North America [1980, p.457-476, eng] 35-1508
Ice fabrics in a vertical flow plane, Barnes Ice Cap, Canada [1980, p.195-214, eng] 35-1817
Mechanical properties of polycrystalline ice: an assessment of current knowledge and priorities for research [1980, p.263-275, eng] 35-744
Temperature profiles in the Barnes Ice Cap, Baffin Island, Canada, and heat flux from the subglacial terrane [1980, p.1174-1188, eng] 35-1266
Hooper, F.C.
Effect of latent heat on frost penetration in moist soil [1979, p.789-790, eng] 35-2889
Hopke, S.W.
Model for frost heave including overburden [1980, p.111-127, eng] 35-726
Hopkins, D.M.
Coastal morphology, coastal erosion, and barrier islands of the Beaufort Sea coast, Alaska [1981, p.178-186, eng] 35-3259
Likelihood of encountering permafrost in submerged areas of northern Bering Sea [1981, p.188-202, eng] 35-3260
Offshore permafrost studies and shoreline history as an aid to predicting offshore permafrost conditions [1981, p.159-255, eng] 35-3257
Offshore permafrost studies and shoreline history of Chukchi and Beaufort Seas as an aid to predicting offshore permafrost conditions [1980, p.123-129, eng] 35-1155
Offshore permafrost studies, Beaufort Sea, Alaska [1980, p.111-122, eng] 35-1154
Review of offshore permafrost studies, Beaufort Sea, Alaska, 1976 to 1980 [1981, p.167-177, eng] 35-3258

Shoreline history of Chukchi and Beaufort Seas as an aid to predicting offshore permafrost conditions [1980, p 371-379, eng] 35-1159
Hopper, H.R.
Hanging dams in the Manitoba Hydro System [1981, p 195-208, eng] 35-2552
Horiguchi, K.
Experimental studies with frozen soil in an "ice sandwich" permeameter [1980, p 177-183, eng] 35-733
Horne, R.J.
Analysis of the ice profiles obtained by submarine sonar in the Beaufort Sea [1980, p 401-414, eng] 35-1504
Horrigan, S.G.
Primary production under the Ross Ice Shelf, Antarctica [1981, p 378-382, eng] 35-4298
Hoshi, K.
Seasonal runoff volumes conditioned on forecasted total runoff volume [1980, p 1079-1084, eng] 35-1875
Hoshiai, T.
Proliferation of ice algae in the Syowa Station area, Antarctica [1981, p 1-12, eng] 35-3596
Sea ice colored by ice algae in a lagoon, Lake Saroma, Hokkaido, Japan [1981, p 113-120, eng] 35-4149
Hoskin, C.M.
Some geochemical characteristics of Bering Sea sediments [1980, p 305-319, eng] 35-4146
Hoskins, E.R.
Flatjack methods of in-situ measurement of the mechanical properties of sea ice [1979, p 196-202, eng] 35-1111
Hossain, K.
Research in oil, gas and ice at the University of Toronto [1980, p 27-31, eng] 35-3871
Hou, Z.
Preliminary research on ultrasonic measurement of frozen soil and ice [1980, p 44-48, chi] 35-2665
House, J.D.
Big oil and small communities in coastal Labrador, the local dynamics of underdevelopment [1980, p 353-397, eng] 35-3101
Houston, B.J.
Regulated set concrete for cold weather construction [1980, p 291-314, eng] 35-1983
How American technology won at the Olympics
How American technology won at the Olympics [1980, p 61, eng] 35-1956
Howarth, P.J.
Estimating the surface wind speed over drifting pack ice from surface weather charts [1979, p 421-429, eng] 35-157
Howell, S.
Measurement of liquid water content in a melting snowpack using cold calorimeter techniques [1980, p 41-67, eng] 35-1736
Heyer, R.
Repetitive geodetic-glaciological measurements of Hays Glacier, 1975-78 [1980, p 32-35, ger] 35-2432
Hromadka, T.V., II
One-dimensional frost heave model based upon simultaneous heat and water flux [1980, p 253-262, eng] 35-742
Some approaches to modeling phase change in freezing soils [1981, p 137-145, eng] 35-3670
Hsiao, S.I.C.
Quantitative composition, distribution, community structure and standing stock of sea ice microalgae in the Canadian Arctic [1980, p 768-793, eng] 35-2172
Hsiao, S.V.
Inlet current measured with Seasat-1 synthetic aperture radar [1980, p 35-37, eng] 35-3704
Hsie, E.-Y.
Numerical simulation of ice-phase convective cloud seeding [1980, p 950-977, eng] 35-885
Hsieh, T.
Progress of Chinese research work on glaciers and frozen ground in the last 30 years [1979, p 1-6, chi] 35-2895
Hu, R.
Avalanches of December 1966 in western T'ien-Shan, China [1980, p 512-514, eng] 35-2393
Huang, M.
Recent situation of Baltbare surging glacier, Pakistan [1980, p 26-31, chi] 35-84
Hubbard, G.E.
Revegetation-restoration for the Trans-Alaska pipeline system [1980, p 113-125, eng] 35-584
Hubert, B.
Ungulates on arctic ranges [1981, p 397-483, eng] 35-3387
Huddart, D.
Origin of ice-marginal terraces and moraine ridges of part Kangerdluarssuk Glacier, SW Greenland [1981, p 31-39, end] 35-4018
Hudleston, P.J.
Ice fabrics in a vertical flow plane, Barnes Ice Cap, Canada [1980, p 195-214, eng] 35-1817
Huemmrich, K.F.
Microwave radiance of early fall sea ice at 1.55 cm [1981, p.989-994, eng] 35-3590
Huggins, C.E.
Instability of the planar freeze front during solidification of an aqueous binary solution [1980, p 673-677, eng] 35-1678
Hughes, H.A.
Independent roof sections for long buildings to resist snow loads [1980, p 968-972, eng] 35-2411
Hughes, T.
Byrd Glacier [1979, p 88-91, eng] 35-664
Hughes, T.J.
Arctic ice sheet: an outrageous hypothesis [1981, p 437-467 + 4 sheets, eng] 35-2070
History of the marine ice sheet in West Antarctica during the last glaciation: a working hypothesis [1981, p 319-436 + 5 sheets, eng] 35-2069
Last great ice sheets [1981, 484p., eng] 35-2062
Last great ice sheets: a global view [1981, p 263-317 + 10 sheets, eng] 35-2068
Late Wisconsin ice sheets in North America [1981, p 67-178 + 3 sheets, eng] 35-2064
Numerical reconstruction of paleo-ice sheets [1981, p 221-261, eng] 35-2067
Tidal flexure of Jakobshavns Glacier, West Greenland [1981, p 3960-3968, eng] 35-3909
Hull, J.A.
Thermodynamic analysis of the water distribution system in Inuvik, N.W.T. [1980, p 332-346, eng] 35-2127
Hull resistance test in floe of synthetic ice
Hull resistance test in floe of synthetic ice [1980, p 1-6, jap] 35-1963
Hung, S.C.
Ice formation and ice control programs of the Saint Lawrence Seaway Development Corporation [1980, p 35-47, eng] 35-2160
Hunt, F.R.
Sea ice thickness radar operating in the high frequency band [1980, p 373-384, eng] 35-561
Hunt, P.
Oil spill contingency plans, present status and future potential [1980, p 53-65, eng] 35-3093
Hunter, R.E.
Depositional and erosional features of the inner shelf, northeastern Bering Sea [1981, p 332-267, eng] 35-3245
Huppert, H.E.
Ice blocks melting into a salinity gradient [1980, p 367-384, eng] 35-1910
Melting of ice in cold stratified water [1980, p 953-960, eng] 35-1060
Physical processes involved in the melting of icebergs [1980, p 97-101, eng] 35-2213
Hutchinson, W.C.A.
Melting electrification of single ice particles in simulated free fall [1977, p 302-308, eng] 35-3778
Hutka, J.
Static breakage of granitic detritus by ice and water in comparison with breakage by flowing water [1981, p 261-272, eng] 35-4024
Hutter, K.
Note on rate process theory and creep response of ice [1980, p 335-336, eng] 35-750
On the distribution of stress and velocity in an ice strip, which is partly sliding over and partly adhering to its bed, by using a Newtonian viscous approximation [1980, p 385-403, eng] 35-3811
Time-dependent surface elevation of an ice slope [1980, p.247-266, eng] 35-1820
Huzioka, T.
Boring core of ice taken from beneath the soil of a landslide [1978, p 179-180, jap] 35-1555
Hwang, C.T.
Use of a geothermal model in northern municipal projects [1980, p 317-331, eng] 35-2126
Hyvarinen, L.
Modern boulder tracing in prospecting [1973, p 87-98, eng] 35-2747
IAgubov, I.M.
Long range forecasting of ice conditions in the Anadyr Bay in May [1980, p.77-82, rus] 35-3496
IAkovlev, IU.V.
Levels and composition of the mineral components in ice cores from central Antarctica [1980, p 152-158, eng] 35-4148
IAkovlev, V.A.
Quick method of checking the pollution of construction materials used in Angarstroi [1981, p 22-23, rus] 35-2845
IAkovleva, T.G.
Centrifugal models for studying water seepage in embankments built on flood plains [1979, p 43-54, rus] 35-1623
Modeling the strength and stability of roadbeds [1980, 255p., rus] 35-281
IAkubovich, D.V.
Using the horizontal freezing technique in construction of the Helsinki subway [1980, p.55-56, rus] 35-1300
IAkunin, I.I.
Construction of rural transmission lines in swampy areas [1981, p 44-47, rus] 35-4232
IAkushevskaia, K.E.
Influence of radiative and turbulent heat exchange on the surface layer temperature (Review) [1980, p.79-92, rus] 35-2441
IAlokha-Kokh, Kh.
Methods of defrosting and cargo freezing prevention used in Poland [1980, p.23-26, rus] 35-542
IAnich, M.
Methods of engineering-geological investigations of high slopes susceptible to cave-ins and landslides [1980, 184p., append., rus] 35-344
IAnitskii, P.A.
Formation of ice laminae in freezing moist grounds [1980, p 103-107, rus] 35-874
Kinetics of water freezing in moist grounds [1979, p 89-94, rus] 35-873
Stability of the interphase surface in the freezing of moist ground [1981, p 781-785, eng] 35-3818
IAnkina, V.A.
Possible changes in thermal regime of the Ob' river estuary after flow diversion [1980, p 78-81, rus] 35-3117
IAntsen, I.A.
Hydropneumatic impact systems of working parts of mining and road construction machines [1980, 199p., rus] 35-1149
IArlushkina, S.Kh.
Frost resistance of concretes of different strengths [1980, p 14-16, rus] 35-1648
IAshikhin, G.I.
Changes in thermal regime of soils induced by tree cultivation [1980, p 129-131, rus] 35-2296
IAstreba, N.V.
Study of the dynamics of vegetative cover damaged by industrial activities [1980, p 144-164, rus] 35-1454
Ice and steep slopes present design challenges for arctic production islands
Ice and steep slopes present design challenges for arctic production islands [1980, p 24-28, eng] 35-2858
Ichinose, Y.
Field operation of explosion seismic experiment in Antarctica [1980, p 158-182, jap] 35-1056
Icing on fishing vessels; some solutions
Icing on fishing vessels, some solutions [1974, p 5, eng] 35-2248
Idel'son, V.B.
Controlling stresses in concrete dams with columnar joints during the concrete placing process [1981, p 5-8, rus] 35-4227
Ignatenko, I.V.
Biological cycle in forest tundras of the southern Magadan area [1979, 164p., rus] 35-4323
Biomass dynamics and biological cycle in tundra and elfing wood-cedar landscapes of the Okhotsk Sea area [1979, p 92-124, rus] 35-4328
Biomass reserves and structure in mountain landscapes of the northern Okhotsk Sea area [1979, p 5-15, rus] 35-4324
Classification of tundra and forest tundra soils in Taymyr [1980, p 26-46, rus] 35-1403
Cryogenic migration and crystallization of substances in tundra and forest tundra soils [1980, p 107-109, rus] 35-2289
Peat accumulation in intensively drained soils of the far northeastern USSR [1979, p 134-145, rus] 35-4330
Soil cover structure in the Alpine tundras of the Bol'shoy Annachag Range [1980, p 54-67, rus] 35-4335
Ignat'ev, N.N.
Influence of aeration levels on multiplication of anaerobic and aerobic bacteria in sod-podsol soils [1974, p 83-87, rus] 35-1208
Ikami, A.
Field operation of explosion seismic experiment in Antarctica [1980, p 158-182, jap] 35-1056
Ikegami, K.
Mass balance studies on Kongma Glacier, Khumbu Himal [1978, p.12-16, eng] 35-52
Ikonin, S.V.
Influence of the laying depth of a horizontally loaded foundation on the bearing strength of underlying clays [1980, p 42-47, rus] 35-227
Ikonnikov, V.G.
Stresses on propelling mechanisms of universal excavators in frozen ground [1979, p 13-14, rus] 35-2619
Il'evskii, IU.A.
Quick method of determining frost resistance of concrete [1980, p 16, rus] 35-1651
Il'icheva, E.M.
Persistence of winters in plains of the Soviet Union [1981, p 24-44, rus] 35-3968
Il'ina, E.B.
Possibilities of distinguishing weak resistivity anomalies against a background of noise in permafrost surveys [1974, p 86-88, eng] 35-2398
Il'ina, I.S.
Larch forests in the northern part of the West Siberian Plain [1980, p 28-44, rus] 35-1426
New review map of vegetation in the West Siberian Plain [1975, p 19-25, rus] 35-793
Il'ina, L.N.
Making the forestry resources accessible in the Baykal-Amure-Magistrate region [1980, 12p., eng] 35-978
Il'inskaia, G.G.
Characteristics of the genesis of the tundra soils of the northern Ob' region [1979, p 512-520, eng] 35-961
Il'inykh, N.I.
Complex natural-meliorative regionalization of the Non-chernozem zone in the Russian Soviet Federated Republic [1980, 231p., rus] 35-2439

Ilinshina, M.T.
Results of studying geobotanical indices for engineering-geological and geocryologic purposes [1971, p.23-28, rus] 35-756

Illingworth, A.J.
Charge transfer accompanying individual collisions between ice particles and its role in thunderstorm electrification [1980, p.841-854, eng] 35-2339

Inatsu, K.
Atmospheric electrical observations of precipitation particles in the winter monsoon at Hokuriku District, Japan (Part 1. Results at Unoke Town) [1979, p.31-48, eng] 35-513
Electric polarity of graupel particles [1979, p.21-30, eng] 35-512

Indin, B.Sh.
Accelerated tempo of road construction [1980, p.10-11, rus] 35-1646

Influence of hydroelectric plants on water content, ice and thermal regimes of the Yenisey River
Influence of hydroelectric plants on water content, ice and thermal regimes of the Yenisey River [1977, p.11-14, rus] 35-1291

Ingersoll, A.P.
Response of a zonal climate-ice sheet model to the orbital perturbations during the Quaternary ice ages [1980, p.301-319, eng] 35-1167

Ingersoll, J.
Asphalt concrete for cold regions; a comparative laboratory study and analysis of mixtures containing soft and hard grades of asphalt cement [1980, 55p., eng] 35-2587
Frost heave in an instrumented soil column [1980, p.211-221, eng] 35-737
Infiltration characteristics of soils at Apple Valley, Minn.; Clarence Cannon Dam, Mo; and Deer Creek Lake, Ohio, land treatment sites [1980, 41p., eng] 35-1726
Laboratory and field use of soil tensiometers above and below 0 deg C [1981, 17p., eng] 35-3796
Method for concidentally determining soil hydraulic conductivity and moisture retention characteristics [1981, 11p., eng] 35-3644

Ingram, R.G.
Characteristics of the Great Whale River plume [1981, p.2017-2023, eng] 35-3274

Inkster, D.R.
Ice and iceberg studies using state-of-the-art remote sensing [1979, p.551-569, eng] 35-180

Innovation in Arctic pipelining
Innovation in Arctic pipelining [1981, p.45-46, eng] 35-1961

Innovations suggested by the trust Severtruboprovodstroi
Innovations suggested by the trust Severtruboprovodstroi [1981, p.36-38, rus] 35-4243

Inoue, J.
Mass balance studies on Kongma Glacier, Khumbu Himal [1978, p.12-16, eng] 35-52
Snow crystal observations at Mt. Yalung Kang, Kangchenjunga region, east Nepal [1978, p.45-49, eng] 35-55

Inoue, T.
11- and 18-GHz radio wave attenuation due to precipitation on a slant path [1980, p.580-585, eng] 35-2413

Inozemtsev, IU.P.
Influence of a complex surfactant admixture on the properties of plasticized portland cement paste, stone and mortar [1980, p.71-75, rus] 35-1364

Instanes, B.
Coal loading pier in Svea, Svalbard [1979, p.217-232, eng] 35-172

International Association for Hydraulic Research. Section on Ice Problems
Multilingual ice terminology [1977, 40p., eng] 35-489

International Conference on Atmospheric Electricity, 5th, Garmisch-Partenkirchen, Germany, Sep. 2-7, 1974
Electrical processes in atmospheres [1977, 865p., eng] 35-3775

International Conference on Port and Ocean Engineering Under Arctic Conditions, 5th, Trondheim, Norway, Aug. 13-18, 1979
Proceedings, Vol.3 [1979, 608p., eng] 35-161

International Exhibition and Technical Meetings for Environmental Sanitation Water—Waste Water—Refuse—Air—Noise, 8th, Basel, Switzerland, June 17-21, 1980
The effects of alpine reservoirs on the environment; Proceedings, Vol.8C, technical meeting No.3 [1980, 12 papers, ger] 35-897

International Geoscience and Remote Sensing Symposium (IGARSS'81), Washington, D.C., June 8-10, 1981
Digest, Vol.1 [1981, 755p., eng] 35-3432
Digest, Vol.2 [1981, p.755-1461, eng] 35-3585

International ice patrol
International ice patrol [1981, p.20-31, eng] 35-2884

International Seminar on Low Temperature Stress in Crop Plants, Honolulu, Hawaii, Mar. 26-30, 1979
Low temperature stress in crop plants; the role of the membrane [1979, 565p., eng] 35-1849

International Workshop on the Remote Estimation of Sea Ice Thickness, St. John's, Newfoundland, Sep. 25-26, 1979
Proceedings [1980, 505p., eng] 35-545

Ipat'eva, A.I.
Anmangynda River naled, its regime and role in the water balance of the river basin [1980, p.86-93, rus] 35-2879

Ipatov, L.F.
Afforestation processes and their control in the European North [1980, 113p., rus] 35-1897

Ipatov, V.S.
Microclimate of moss and lichens habitats in the Hylocomium- lichen pine forests [1980, p.14-20, rus] 35-1037

Iribarne, J.V.
Field-controlled ionic charging of ice crystals [1981, p.3199-3202, eng] 35-3370
On the orientation of ice crystals in a cumulonimbus cloud [1981, p.1111-1114, eng] 35-4043

Irwin, W.W.
New approaches to water and sewer services in permafrost area - Norman Wells, N.W.T. [1980, p.507-542, eng] 35-2136

Isachenko, T.I.
Vegetation of the European part of the USSR [1980, 429p., rus] 35-1491

Isaenko, A.G.
Sand-concrete panels for building partitions [1980, p.19-21, rus] 35-502

Isaev, O.K.
Testing and operation of pneumatic hammers mounted on hydraulic excavators [1980, p.7-10, rus] 35-321

Isaeva, L.N.
Mountain forests of the Baykal Amur railroad zone [1980, 224p., rus] 35-936

Isakov, IU.A.
Organization of spruce ecosystems in southern taiga [1979, 220p., rus] 35-4117

Iserson, K.G.
High-strength pipes for overhead electrical contact systems [1981, p.6-7, rus] 35-2076

Ishchenko, A.A.
Morphogenesis in the bald peak zone of mountains [1978, p.154-155, rus] 35-22

Ishchenko, N.F.
Dynamics of biologic activities of two types of forest tundra soils located east of the Ural Mountains [1974, p.118-121, rus] 35-1215

Ishida, T.
Interaction between wind and snow surface [1979, p.35-47, eng] 35-2245
Measurement of flexural waves on a breaking test of sea ice [1978, p.79-83, jap] 35-1543
Relationship between ice-conditions and frequency characteristics of radar returns [1978, p.115-123, jap] 35-1547

Ishikawa, N.
Differences in snow-melting rate between urban and rural areas in Sapporo [1978, p.155-168, jap] 35-1183
Urban-rural differences in the daily minimum air temperature during nocturnal radiative cooling in Sapporo [1978, p.121-137, jap] 35-1181

Ishimov, I.Z.
Construction of rural transmission lines in swampy areas [1981, p.44-47, rus] 35-4232

Ishizaki, T.
Diurnal variation of soil water tension during soil freezing [1978, p.181-183, jap] 35-1556
Simulation model for frost penetration beneath the ground on the basis of equilibrium surface temperatures [1980, p.71-80, jap] 35-272

Ishmeneva, L.N.
Statistical analysis of the high strength steel 12GN2MFAIL [1981, p.133-136, rus] 35-4292

Iskandar, I.K.
Disinfection of wastewater by microwaves [1980, 15p., eng] 35-2592
Dynamics of NH4 and NO3 in cropped soils irrigated with wastewater [1980, 20p., eng] 35-872
Effectiveness of land application for phosphorus removal from municipal waste water at Manteca, California [1980, p.616-621, eng] 35-3705
Improved enzyme kinetic model for nitrification in soils amended with ammonium. 1. Literature review [1980, 20p., eng] 35-2583
Modeling nitrogen transport and transformations in soils: 1 Theoretical considerations [1981, p.233-241, eng] 35-4081
Modeling nitrogen transport and transformations in soils: 2 Validation [1981, p.303-312, eng] 35-4080
Selected design parameters of existing systems for land application of liquid waste - a computer file [1979, p.65-88, 790] 35-2757

Itagaki, K.
Electric charge current due to drifting snow [1977, p.211-216, eng] 35-3776
Fracture behavior of ice in Charpy impact testing [1980, 13p., eng] 35-973

Ito, F.
Report on the perennial snow patch on mount Hakusan - its location, morphology, transition of annual net mass balance and the ablation rate in the ablation seasons [1979, p.171-180, jap] 35-265

IUdin, L.N.
Flexible reinforced concrete pavements designed by the Central Scientific Research Institute, for the Baykal Amur railroad construction [1980, p.17-19, rus] 35-105

IUdintseva, I.I.
Nitrogen regime of podsolized soils in the central taiga of Komi ASSR [1971, p.61-62, rus] 35-2611

IUfin, V.A.
Thermal and hydraulic design of pipelines for oil and petroleum products [1981, 256p., rus] 35-3931

IUrdanov, A.P.
Possibilities of thermal soil stabilization [1980, p.39-40, rus] 35-1530

IUr'ev, D.N.
Human influence on development of diatomaceous algae growing in the Pil'da River (the Udyl' Lake Basin) [1979, p.64-76, rus] 35-1521

IUrmov, D.M.
Water power and construction of complex hydraulic works during fifty years of Soviet rule [1979, 597p., eng] 35-685

IUrovskaia, A.P.
Construction of petroleum industry objects in Western Siberia [1980, p.4-5, rus] 35-1031
Instantaneous deformation of peat in the general process of sagging ground consolidation [1980, p.10-12, rus] 35-623

IUrtsev, B.A.
Ecosystems in the hot-spring area of Chukotskiy Peninsula (hydrogeology, vegetation structure, autotrophic components) [1981, 141p., rus] 35-3226
Nomenclatural changes in the tundra flora of the Chukotskiy Peninsula [1980, p.99-106, rus] 35-3459
Review of geographic distribution of vascular plants in the Chukot tundra. Pt.1 [1970, p.111-122, rus] 35-1613
Review of geographic distribution of vascular plants in the Chukot tundra. Pt.2 [1979, p.74-83, rus] 35-1614

IUshkov, B.S.
Integral methods of determining the parameters of one-dimensional consolidation [1981, p.250-255, eng] 35-4151

Ivakin, I.V.
Electrical grounding for 110 kv unit substations, designed according to contact voltage standards [1980, p.64-66, rus] 35-598

Ivanikova, N.P.
Variations of clay soil strength depending on water saturation [1980, p.31-39, rus] 35-1567

Ivanov, A.F.
Influence of birch groves on snow distribution and productivity of agricultural crops [1980, p.36-39, rus] 35-1859

Ivanov, A.N.
Double-blade snowplow DE-223 [1980, p.10, rus] 35-539

Ivanov, A.V.
Hydrochemical regime of swamps in the Evoron Lake Basin [1979, p.156-180, rus] 35-1524
Hydrology and hydrochemistry of water bodies in different climatic zones [1980, 159p., rus] 35-2331
Vertical temperature distribution in lakes during subglacial warming of water in the spring [1980, p.3-14, rus] 35-2332

Ivanov, D.I.
Apparatus for modeling flooded structures [1979, p.55-59, rus] 35-1624
Measuring water seepage characteristics when modeling flooded structures [1979, p.60-65, rus] 35-1625
Modeling the strength and stability of roadbeds [1980, 255p., rus] 35-281

Ivanov, G.I.
Basic stages of landscape and soil evolution in the southern Far East [1979, p.48-59, rus] 35-4309
Cryogenic soils of the central part of the Selemdzha River Basin [1980, p.44-46, rus] 35-2267

Ivanov, G.M.
Forest-strip method of reclaiming eroded soils [1976, 159p., rus] 35-799
Regionalization of the Buryat ASSR for agriculture and forest strip method of land reclamation [1976, p.18-36, rus] 35-801

Ivanov, I.I.
Artificial snow cover for dust suppression on quarry roads at subzero air temperatures [1980, p.58-60, rus] 35-867

Ivanov, I.P.
Variations of clay soil strength depending on water saturation [1980, p.31-39, rus] 35-1567

Ivanov, K.E.
Possible changes in swamp landscapes of West Siberia due to changing the course of rivers [1980, p.90-105, rus] 35-1430

Ivanov, L.V.
Safety rules for docking ships under severe climatic conditions [1980, 152p., rus] 35-3897

Ivanov, M.S.
Ground ice distribution in Central Yakutia as the most important factor in economic development of the cryolithozone [1980, p.58-75, rus] 35-2191
Thermodelapsing formations - deposits of young thermokarst basins [1980, p.132-140, rus] 35-3328

Ivanov, N.I.
Transitional forms of glaciation [1970, p.245-263, rus] 35-1573

Ivanov, R.
Preparing rocket gunners for combat duty in winter [1979, p.19-22, rus] 35-495

Ivanov, R.A.
Testing and operation of pneumatic hammers mounted on hydraulic excavators (1980, p.7-10, rus) 35-321
Ivanov, V.I.
Studying plastic deformation of fresh-water ice under impact loads (1980, p.43-50, rus) 35-368
Ivanov, V.V.
Estuarine areas of Arctic rivers and the diversion of stream flow (1980, p.106-123, rus) 35-1431
Results of preliminary studies of the Arctic environment for the first stage of partial runoff diversion (1980, p.8-11, rus) 35-3105
Soils of the lower Ob' forest tundra near the Urengoy deposit (1980, p.12-19, rus) 35-533
Ivanova, A.A.
Evaluating changes in flow dynamics of the Ob' River estuary waters due to river diversion (1980, p.67-70, rus) 35-3115
Ivanova, I.I.
Studying thermal balance of developing areas of northwestern Sibera (1980, p.19-23, rus) 35-3308
Ivanova, N.L.
Quantitative evaluation of the degree of avalanche danger (1980, p.59-66, rus) 35-716
Ivanova, O.S.
Frost resistance of concretes of different strengths (1980, p.14-16, rus) 35-1648
Ivantsov, D.M.
Reliability components of pipeline transport (1981, p.13-16, rus) 35-4238
Ivashchenko, V.V.
Improving the construction of underwater pipelines (1981, p.32-33, rus) 35-4241
Preventing water pollution when building underwater pipelines (1980, p.21-22, rus) 35-504
Ivashkova, V.K.
Models of thermal interaction between lineal sources of cold and surrounding media in the North (1979, p.34-39, rus) 35-4057
Ivchenko, V.O.
Determination of the tangential stresses on the lower surface of ice in the presence of pure wind drift (1980, 7p., eng) 35-1909
Iversen, J.D.
Drifting-snow similitude: transport-rate and roughness modeling (1980, p.393-403, eng) 35-2381
Wind tunnel modeling of snow fences and natural snow fence controls (1980, p.106-124, eng) 35-3152
Ives, J.D.
Avalanche hazard mapping and zoning problems in the Rocky Mountains, with examples from Colorado, U.S.A. (1980, p.363-375, eng) 35-2379
Geoecology of the Colorado Front Range: a study of alpine and subalpine environments (1980, 484p., eng) 35-1900
Proposed history of permafrost development in Labrador-Ungava (1979, p.233-244, eng) 35-1041
Remarks on the stability of timberline (1978, p.313-317, eng) 35-1904
Iwasaki, T.
Fracture toughness of sea ice (1980, p.29-37, eng) 35-816
Iyer, S.H.
Calibration testing of *M.V. Arctic* for the measurement of ice breaking loads (1980, p.275-302, eng) 35-3846
Izmailov, L.I.
Theory of forecasting cryogenic processes (1976, p.78-85, rus) 35-1148
Izmailova, N.N.
Water balance and productivity of Cobresia alpine meadow in the Eastern Khangai (MPR) (1980, p.27-35, rus) 35-1039
Izrael', IU.A.
Studying transformations of dispersive and chemical compositions of atmospheric precipitation on glaciers (1980, p.157-162, rus) 35-1249
Jääsko, J.
Effects of bitumen road constructional faults on the present condition of the surface, and the changes in the bitumen (1980, 103p., fin) 35-2057
Jacka, T.H.
Antarctic iceberg melt rates derived from size distributions and movement rates (1980, p.103-112, eng) 35-2214
Mass balance studies in East Antarctica (1981, p.253-260, eng) 35-3037
Jackman, M.
Cruise report of ice feature observations from the *CCGS Franklin*, summer 1979 (1980, 104p., eng) 35-3701
Jackson, B.L.
Measure of Arctic sea ice characteristics using microwave scatterometry (1979, p.278-280, eng) 35-3707
Jackson, C.L.
Proceedings (1980, 258p., eng) 35-576
Jackson, J.B.
Outer continental shelf oil and gas activities in the Gulf of Alaska (including lower Cook Inlet) and their onshore impacts: a summary report, September 1980 (1980, 78p., eng) 35-861
Jackson, L.E., Jr.
Glacial history and stratigraphy of the Alberta portion of the Kananaskis Lakes map area (1980, p.459-477, eng) 35-1264
Movement of an ice-cored rock glacier, Tungsten, N.W.T., Canada, 1963-1980 (1980, p.842-847, eng) 35-2175
Jackson, M.B.
Winter oxygen loss in three southern Ontario lakes (1980, p.149-159, eng) 35-47
Jackson, R.G.
Relation of lake-sediment composition to mineralization in different limnological environments in Canada (1975, p.112-125, eng) 35-2739
Jackson, T.
Appropriate technologies for water supplies and sanitation in northern communities (1980, p.121-135, eng) 35-2113
Jackson, T.J.
Comparison of areal snow storage sampling procedures for rangeland watersheds (1980, p.71-82, eng) 35-1132
Jacobs, K.M.
Minimizing roadway salt problems in Maine (Abridgment) (1980, p.25-27, eng) 35-3789
Jacobs, S.S.
Interdisciplinary investigations in antarctic oceanography (1980, p.87-89, eng) 35-3189
Jacobson, G.L.
Soil development on recent end moraines of the Klutlan Glacier, Yukon Territory, Canada (1980, p.87-100, eng) 35-3719
Jacobson, N.G.
Parking deck deterioration from chlorides (1981, p.438-448, eng) 35-2517
Jaeggi, M.
Natural and regulated alpine rivers - resemblances and differences in morphology, their influence on river fauna (1980, p.85-90, ger) 35-2246
Jaffe, F.C.
Use of mercury as a pathfinder for buried base-metal deposits in the Parkejaure area, Swedish Lapland (1975, p.1-5, eng) 35-2734
Jahn, A.
Periglacial forms produced by shore ice at Hornsund (Spitsbergen) (1977, p.19-29, eng) 35-3619
Permafrost active layer in the Sudety Mountains during the last glaciation (1981, p.29-42, eng) 35-1883
Jain, A.
Inlet current measured with Seasat-1 synthetic aperture radar (1980, p.35-37, eng) 35-3704
Jairell, R.L.
Studying snowdrifting problems with small-scale models outdoors (1980, p.1-13, eng) 35-2221
Jame, Y.-W.
Heat and mass transfer in a freezing unsaturated porous medium (1980, p.811-819, eng) 35-440
James Bay Hydro-Electric Project; a statement of environmental concerns and recommendations for protection and enhancement measures
James Bay Hydro-Electric Project, a statement of environmental concerns and recommendations for protection and enhancement measures (1981, 45p., eng) 35-1882
James, F.W.
Critical evaluation of insulated shallow buried pipe systems in the Northwest Territories (1980, p.150-186, eng) 35-2116
James, W.
Water distribution pipe networks for arctic settlements (1980, p.347-366, eng) 35-2128
Jania, J.
Debris forms on the Skoddefjellet slope (1977, p.91-117, eng) 35-3624
Jankowski, E.
Aeromagnetic and radio-echo ice-sounding measurements over the Dufek intrusion, Antarctica (1981, p.3014-3020, eng) 35-3362
Aeromagnetic and radio echo ice-sounding measurements show much greater area of the Dufek intrusion, Antarctica (1980, p.1014-1017, eng) 35-218
Airborne geophysical investigations of ice sheet and bedrock, 1978-79 (1979, p.95-96, eng) 35-667
Jarvis, J.
Marine seismic study of late Quaternary sedimentation and inferred glacier fluctuations along western Inverness-shire, Scotland (1981, p.39-51, eng) 35-2938
Jeck, R.K.
Icing characteristics of low altitude, supercooled layer clouds. Revision (1980, 68p., eng) 35-1579
Jen, P.
Progress of Chinese research work on glaciers and frozen ground in the last 30 years (1979, p.1-6, chi) 35-2895
Jenkins, T.F.
Fate and effects of crude oil spilled on subarctic permafrost terrain in interior Alaska (1980, 67p., eng) 35-2001
Forage grass growth on overland flow systems (1980, p.347-354, eng) 35-2573
International and national developments in land treatment of wastewater (1979, 28p., eng) 35-2794
Overland flow: removal of toxic volatile organics (1981, 16p., eng) 35-2581
Rational design of overland flow systems (1980, p.114-121, eng) 35-2571
Removal of organics by overland flow (1980, 9p., eng) 35-2052
Toxic volatile organics removal by overland flow land treatment (1981, 14p., eng) 35-2894
Winter air pollution at Fairbanks, Alaska (1981, p.512-528, eng) 35-2522
Jeschke, P.A.
Himalayan and Trans-Himalayan glacier fluctuations and south Asian monsoon record (1980, p.171-182, eng) 35-1659
Jessberger, H.L.
Theory and application of ground freezing in civil engineering (1980, p.3-27, eng) 35-815
Jewell, W.
Engineering assessment of aquaculture systems for wastewater treatment: an overview (1980, p.1-12, eng) 35-2860
Jezek, K.C.
Geophysical investigation of the dome C area (1979, p.98-100, eng) 35-670
Interpretation of monopulse ice radar soundings on two Peruvian glaciers (1981, p.958-975, eng) 35-3588
Ji, J.
Quartz crystal thermometer and its application in permafrost drilling holes (1980, p.18-20, chi) 35-2654
Jing, C.
Glacial boulder of Nongnongping Dukou (1980, p.58, chi) 35-2920
Johannesson, A.
Radio-echo equipment for depth sounding of temperate glaciers (1980, p.477-486, eng) 35-1509
Johansen, N.I.
Sublimation and its control in the CRREL permafrost tunnel (1981, 12p., eng) 35-3736
Johansson, B.M.
Economics of winter navigation in the northern part of the Gulf of Bothnia; description of computer programme (1977, 8p. + appens., eng) 35-4177
Johansson, L.-G.
Photosynthesis of *Sphagnum* in different microhabitats on a subarctic mire (1980, p.181-190, eng) 35-1480
Johari, G.P.
Dipolar correlation factor and permittivity of ice IV and V (1980, p.241-255, eng) 35-249
John, B.S.
World of ice: the natural history of the frozen regions (1979, 120p., eng) 35-1348
Johnson, A.
Grinnell and Sperry Glaciers, Glacier National Park, Montana: a record of vanishing ice (1980, 29p. + 2 maps, eng) 35-862
Johnson, A.H.
Fire and climax spruce forests in central Yukon (1981, p.60-61, eng) 35-4051
Johnson, A.W.
Revegetation of disturbed sites along the Yukon River to Prudhoe Bay haul road (1980, p.16-29, eng) 35-578
Johnson, B.B.
Sodium, magnesium, potassium and calcium concentrations in ice cores from the Law Dome, Antarctica (1981, p.771-776, eng) 35-2885
Johnson, B.C.
Electric heat tracing and energy conservation for northern installations (1980, p.288-309, eng) 35-2124
Johnson, C.M.
Wintertime Arctic sea ice extremes and the simultaneous atmospheric circulation (1980, p.1782-1791, eng) 35-1720
Johnson, D.A.
Improved plant traits for high altitude disturbances (1980, p.173-184, eng) 35-588
Seasonal movement of nutrients in plants of differing growth form in an Alaskan tundra ecosystem: implications for herbivory (1980, p.189-209, eng) 35-1169
Johnson, D.W.
Exchange crystallization freeze desalination process (1976, p.231-240, eng) 35-4295
Johnson, E.A.
Vegetation organization and dynamics of lichen woodland communities in the Northwest Territories, Canada (1981, p.200-215, eng) 35-2800
Johnson, H.D.
Water conditions in California, basic data supplement, July 1980 (1980, 29p., eng) 35-2059
Johnson, I.R.
Steady motion of ice sheets (1980, p.229-246, eng) 35-1819
Johnson, J.B.
Model for snow-slab failure under conditions of dynamic loading (1980, p.245-254, eng) 35-2367
OSI ice stress sensor (1980, p.193-207, eng) 35-3843
Johnson, J.L.
Report on surface and subsurface faulting in Norton Sound and Chirikov Basin, Alaska (1981, p.420-444, eng) 35-3248
Johnson, L.
1977 tundra fire at Kokolik River, Alaska (1978, 11p., eng) 35-2591
LANDSAT digital analysis of the initial recovery of burned tundra at Kokolik River, Alaska (19.0, p.263-272, eng) 35-2462
Johnson, L.A.
Fate and effects of crude oil spilled on subarctic permafrost terrain in interior Alaska (1980, 67p., eng) 35-2001

Johnson, L.A. *(cont.)*
Revegetation and restoration investigations [1980, p.129-150, eng] **35-1772**
Johnson, P.
Guide for operating cars and light trucks on a floating ice sheet, using thin plate analytical solutions [1980, 29p., eng] **35-2012**
Johnson, P.G.
Glacier-rock glacier transition in the southwest Yukon Territory, Canada [1980, p.195-204, eng] **35-1661**
Johnson, P.R.
Single and double reaction beam load cells for measuring ice forces [1980, 17p., eng] **35-1724**
Snow pads used for pipeline construction in Alaska, 1976 construction, use and breakup [1980, 28p., eng] **35-2584**
Johnson, R.
Resins and non-portland cements for construction in the cold [1980, 19p., eng] **35-1725**
Johnson, R.A.
Land application of sludge [1981, p.8-9, eng] **35-1692**
Johnson, R.E.
Ice in the polar regions of the moon [1981, p.3949-3950, eng] **35-3908**
Johnson, R.G.
Rapid ice-sheet growth and initiation of the last glaciation [1979, p.119-134, eng] **35-1776**
Johnson, T.C.
Asphalt concrete for cold regions, a comparative laboratory study and analysis of mixtures containing soft and hard grades of asphalt cement [1980, 55p., eng] **35-2587**
Embankment dams on permafrost in the USSR [1980, 59p., eng] **35-2005**
Johnson, W.T.
Arctic and antarctic climatology of a GLAS general circulation model [1980, p.1974-1991, eng] **35-3645**
Johnston, G.H.
Permafrost - Engineering design and construction [1981, 540p., eng] **35-3703**
Johnston, R.S.
Assessment of revegetation techniques for alpine disturbances [1980, p.126-146, eng] **35-585**
Jolliff, J.V.
Cold oil salvage pumps [1980, p.239-251, eng] **35-827**
Jonah, C.D.
Electron solvation in crystalline ice on a subnanosecond timescale [1981, p.43-46, eng] **35-4013**
Jones, B.C.
Developments in Alaska in 1979 [1980, p.1345-1353, eng] **35-1775**
Jones, E.B.
Measurement of liquid water content in a melting snowpack using cold calorimeter techniques [1980, p.41-67, eng] **35-1736**
Jones, E.R.
Effect of a heat-conducting well casing on temperature distribution in an observation well [1979, p.20-27, eng] **35-1113**
Jones, H.E.
Simulation approach to primary production [1981, p.239-256, eng] **35-3382**
Jones, J.A.A.
Snowmelt and water equivalent guage for British conditions [1980, p.129-134, eng] **35-484**
Jones, J.M.
Proposed methods for the instrumentation of a small island to measure pack ice forces [1980, p.323-342, eng] **35-3848**
Jones, J.R.
Adhesive shear strength of ice to bonded solid lubricants [1972, p.464-471, eng] **35-274**
Jones, M.J.
Prospecting in areas of glacial terrain [1973, 138p., eng] **35-2741**
Prospecting in areas of glaciated terrain 1975 [1975, 154p., eng] **35-2733**
Jones, R.
Freeze-out of nutrients from lake ice [1980, p.193-195, eng] **35-3161**
Jones, R.H.
Frost heave of roads [1980, p.77-86, eng] **35-2468**
Jones, W.L.
Measure of Arctic sea ice characteristics using microwave scatterometry [1979, p.278-280, eng] **35-3707**
Jonsson, S.
IBP PT Tundra Biome Project. Objectives planning site [1980, p.7-25, eng] **35-1471**
Jordan, E.
Basic considerations of the difference between tropical and extra-tropical glacier economy with special reference to the glaciers of Bolivia [1979, p.297-309, ger] **35-359**
Jordan, R.P.
Response of an alpine watershed to snowmelt [1979, p.323-333, eng] **35-420**
Josberger, E.G.
Effect of bubbles released from a melting ice wall on the melt-driven convection in salt water [1980, p.474-477, eng] **35-1053**
Iceberg melt-driven convection inferred from field measurements of temperature [1980, p.113-117, eng] **35-2215**
Melting of ice in cold stratified water [1980, p.953-960, eng] **35-1060**
On the estimation of antarctic iceberg melt rate [1980, p.1681-1685, eng] **35-2471**
Joshi, B.P.
Study of the Central Himalayan glacier Milam [1980, p.130-132, rus] **35-1242**
Jouzel, J.
Evidence of climatic change in Antarctica over the last 30,000 years from the Dome C ice core [1981, p.217-225, eng] **35-3032**
Jozan, M.M.
Potential schemes for offshore Labrador year round production [1980, p.293-305, eng] **35-3631**
Juday, G.P.
Ecological research report, Volume I: establishing a system for Alaska [1979, 36p. + map, eng] **35-4163**
Judge, A.
Ground temperature studies at an arctic drained lake site [1981, p.642-658, eng] **35-2527**
Permafrost studies in northern Quebec [1979, p.245-251, eng] **35-1042**
Judson, A.
Process-oriented model for simulating avalanche danger [1980, p.53-63, eng] **35-2347**
Jung, H.G.
Nutritional ecology of microtine rodents: resource utilization near Atkasook, Alaska [1980, p.483-499, eng] **35-3201**
Jurick, R.W.
Detecting massive ground ice in permafrost by geophysical methods [1980, p.27-30, eng] **35-3859**
Electrical resistivity measurements in permafrost terrain at the Engineer Creek road cut, Fairbanks, Alaska [1980, p.277-286, eng] **35-745**
Jurochkina, N.I.
Improving stability of physico-chemical and detonation properties of simplest explosives [1978, p.84-97, rus] **35-1083**
Juvigne, E.
Study of a section taken across a rampart of a pingo scar in Brackvenn [1974, p.341-357, fre] **35-1995**
Kachanov, P.
Peculiarities of river crossing in freezing weather [1980, p.31-33, rus] **35-339**
Kachur, V.D.
Artificial freezing technique for excavating sloping mine shafts in water-saturated rocks [1980, p.24-26, rus] **35-325**
Liquid nitrogen technique of artificial rock freezing when sinking shafts [1980, p.17-18, rus] **35-2636**
Kadkina, E.L.
Thermal and filtration regimes of the Ust'-Khantai river-bed earth dam during first operation years of the hydroelectric power plant [1980, p.52-55, rus] **35-8**
Kagan, G.L.
Industrial construction on frozen peat [1980, 144p., rus] **35-280**
Kagan, IA.M.
New method of pipeline construction [1981, p.15-16, rus] **35-2775**
Kaganovskaia, S.E.
Improving the design of foundations for gas-pumping aggregates [1980, p.11-12, rus] **35-312**
Kagermazova, S.V.
Increasing the stability of benched hard and semi-hard rocks in quarries of permafrost areas [1980, p.18-20, rus] **35-869**
Kahn, J.
Temporal and spatial variability of ice-foot morphology [1981, p.69-80, eng] **35-4021**
Kairmova, R.Z.
Device for anchoring pipelines [1980, p.6-7, rus] **35-621**
Kajihara, M.
Sedimental process in Harding Lake [1980, p.24-35, eng] **35-1561**
Kajikawa, M.
On the rebound of supercooled droplets colliding with ice plate (2) [1979, p.93-102, eng] **35-516**
Kakovkin, P.D.
Performance of bulldozer-scrapers depending on the type of tailings [1980, p.8-9, rus] **35-324**
Kakutkina, N.A.
Determining the ice forming activity in diffusion chambers [1980, p.22-29, rus] **35-785**
Possible mechanisms of ice formation on silver iodide particles in diffusion and cloud chambers [1980, p.57-63, rus] **35-768**
Studies of silver iodide ice-forming activity. 2. Influence of aerosol particle size and structure on the ice-forming activity [1980, p.61-65, eng] **35-1778**
Kalashnikov, A.V.
Microclimatic peculiarities of wind regime in the chara Basin [1980, p.35-42, rus] **35-1197**
Kaldani, L.A.
Avalanches in the Tskhenistskali River basin [1980, p.75-82, rus] **35-3801**
Kalesnik, S.L.
Spatial distribution and orientation of cracks in stationary sea and lake ice [1981, p.85-89, rus] **35-3951**
Kalinichev, V.P.
Provision for engineering, geological and seismic information for the construction of the Baykal Amur railroad [1980, p.5-7, rus] **35-138**
Kalinin, E.M.
Construction of the first 750 kv overhead line in mountains [1980, p.49-53, rus] **35-311**
Kalinin, G.S.
Ice phenomena on small rivers of the Upper and Central Kama Basin during the severe winter of 1968-1969 [1975, p.112-117, rus] **35-1789**
Kalinin, M.S.
Multi-story stone buildings in the North [1980, 153p., rus] **35-2882**
Kalinina, A.A.
Development of power engineering in the northeast European USSR [1979, p.68-75, rus] **35-4105**
Kaliuzhnyi, I.I.
Formation of meltwater losses [1981, 160p., rus] **35-4311**
Kaliuzhnyi, I.L.
Applying stable and radioactive isotopes to studying moisture migration to the freezing front [1981, p.164-170, rus] **35-3301**
Methods of calculating infiltration of meltwaters into frozen soil [1980, p.375-379, eng] **35-966**
Numerical evaluation of changes in the drainage-induced thermal regime of peat [1980, p.92-100, rus] **35-769**
Phase composition of water in the frozen soils of the Vyatka River basin [1978, p.255-260, eng] **35-3684**
Kalmykov, P.N.
Artificial intrapermafrost taliks for winter water supply in mountains [1976, p.77-84, rus] **35-3833**
Kalugina, L.V.
Some results of palynological investigation on Severnaya Zemlya in relation to the question of the transport of pollen and spores in the High Arctic [1981, p.27-32, eng] **35-3902**
Kametko, V.A.
New chapter of construction standards SNiP III-17-78 [1980, p.16-18, rus] **35-613**
Kaminuma, K.
Field operation of explosion seismic experiment in Antarctica [1980, p.158-182, jap] **35-1056**
Kamyshev, M.A.
Ice-bedding method of building underwater pipelines [1980, p.36-37, rus] **35-316**
Kanaev, L.A.
Basic problems in forecasting avalanche danger [1980, p.35-40, rus] **35-713**
Calculating parameters of earth-fill cones used in avalanche protection [1980, p.64-73, rus] **35-3575**
Glaciology of mountainous regions (snow cover, avalanches) [1980, 144p., rus] **35-3569**
Problems in avalanche classification [1980, p.11-24, rus] **35-711**
Kanalin, V.G.
Determining geometric parameters of mining excavations in the Far North for shafts with no headwork [1980, p.143-145, rus] **35-304**
Kanavina, G.I.
Determining evaporation from hummocky bogs [1980, p.67-75, rus] **35-1871**
Kanda, K.
Studies of the perennial snow patch in Karasawa, Hotakadake [1979, p.165-170, jap] **35-264**
Kane, D.L.
Hydrologic role of shallow organic soils in cold climates [1979, p.380-389, eng] **35-424**
Physical mechanics of aufeis growth [1981, p.186-195, eng] **35-4219**
Snowmelt infiltration into seasonally frozen soils [1980, p.153-161, eng] **35-730**
Subarctic snowmelt runoff generation [1981, p.591-601, eng] **35-2526**
Kaneda, Y.
Physical aspects of the wind-snow interaction in blowing snow [1979, p.127-141, eng] **35-517**
Study of snow melting in Mt. Asahidake, Hokkaido [1978, p.181-188, jap] **35-1185**
Viscosity and heat transfer in fluidized snow [1980, p.263-274, eng] **35-2369**
Kang, E.
Some results of the research on glacial hydrology in the region of Mt. Tuomuer [1980, p.18-21, chi] **35-2913**
Kanno, H.
Volumetric and derived thermal characteristics of liquid D2O at low temperatures and high pressures [1980, p.1940-1947, eng] **35-441**
Kantsidalov, E.P.
Increasing the effectiveness of pipeline laying and insulation work in the North [1981, p.29-30, rus] **35-2094**
Kapitonova, T.A.
Mathematical model of heat transfer between a semi-buried duct and the surrounding medium and its computer algorithm [1979, p.62-70, rus] **35-235**
Kapitsa, A.P.
Climatic geomorphology of the Far East [1978, 144p., rus] **35-1850**

Kaplan, M.M.
Mudflows in the areas of recent volcanic activities [1980, p.42-48, rus] **35-1805**
Kaplianskaia, F.A.
Recent and ancient glaciation of plains and mountainous regions of the USSR [1978, 131p., rus] **35-1420**
Surface and underground glaciation of the West Siberian Plain during the Pleistocene [1978, p.18-28, rus] **35-1421**
Kaplin, P.A.
Recent deposits and Pleistocene paleogeography of Chukotskiy Peninsula [1980, 295p., rus] **35-3930**
Kaplina, T.N.
History of Late Cenozoic permafrost in Central Yakutia [1981, p.153-181, rus] **35-4078**
Reconstruction of air temperature of the climatic optimum in West Siberia on the basis of investigations of permafrost composition and thickness [1981, p.78-84, rus] **35-4071**
Shamanovsk reference section of Late Pleistocene and Holocene deposits of the Indigirka area [1980, p.74-81, rus] **35-2454**
Kapralov, V.I.
Scraper for frozen ground [1980, p.33-34, rus] **35-779**
Kapustin, K.IA.
Ice-bedding method of building underwater pipelines [1980, p.36-37, rus] **35-316**
Karaban, G.L.
Improving the quality of winter road maintenance [1980, p.6-8, rus] **35-1021**
Karaush, S.A.
Freezing of fluids in fully developed turbulent streams in underground channels [1981, p.117-122, rus] **35-4290**
Karausheva, A.I.
Studying heat balance of dark conifer forests in the central taiga of West Siberia [1973, p.37-47, rus] **35-762**
Karavaev, S.S.
Performance of industrial pipelines in frozen grounds [1980, p.8-12, rus] **35-2778**
Karczewski, A.
Relief of the marginal zone of the Torell Glacier (Austre Torell) in terms of its recession (SW Spitsbergen) [1977, p.37-62, eng] **35-3621**
Karelin, I.D.
Investigation of stationary polynyas from satellite surveying data [1981, p.104-109, rus] **35-3955**
Karklin, V.P.
Evaluating the contribution of quasi-periodical components to the variability of hydrometeorological phenomena [1980, p.142-145, rus] **35-3505**
Karmov, Kh.N.
Absorption and scattering of microwaves by separate spherical particles of water and ice [1975, p.40-71, rus] **35-1616**
Karpel', B.A.
Data on variations in the amount of litter in larch and pine forests of the Lena River area in Yakutia [1971, p.94-102, rus] **35-1395**
Karpenko, A.S.
Methods of mapping protected botanical objects in non-chernozem areas [1980, p.1192-1202, rus] **35-1534**
Karpenko, M.P.
Organizing pipeline construction in swampy taiga [1981, p.29-31, rus] **35-4239**
Using the mobile crew flow-type construction technology in swampy areas [1980, p.33-35, rus] **35-618**
Karpov, V.G.
Using aerial surveys in preparation for pipeline construction [1980, p.20-21, rus] **35-1301**
Karpunichev, B.E.
Organizing the production of improved pipe-laying equipment [1981, p.35, rus] **35-3346**
Karrasch, H.
Smoothing of slopes and cryoplanation shown on examples in the Alps and the Canadian Rockies [1974, p.287-300, ger] **35-1947**
Karri, J.
General conditions in arctic areas [1981, 56p. + 5 figs., fin] **35-4293**
Kartashova, G.G.
Origin and conditions of formation of Upper Pleistocene ice-bearing silts in Chukochiy Yar, Kolyma lowland [1979, p.110-135, rus] **35-1833**
Karte, J.
Development and present state of German periglacial research in arctic and subarctic environments [1979, p.97-115, ger] **35-2640**
Kartha, V.C.
Observation and analysis of freeze up ice jams on the Peace River near Taylor [1981, p.162-181, eng] **35-2549**
Kartsivadze, A.I.
Effect of hail nuclei concentration on their coagulation growth [1980, p.5-17, rus] **35-2869**
Influence of vapor supersaturation on the process of heterogeneous nucleation [1980, p.18-30, rus] **35-2870**
Kasatkin, S.B.
Blast treatment effect on bearing strength of St3 steel at low temperatures [1980, p.11-12, rus] **35-3015**
Kashina, L.I.
Ecologic-geographic analysis of the *Mitella nuda* L. spruce forest in the northern foothills of eastern Sayan [1981, p.37-52, rus] **35-3892**
Kashinov, N.S.
Evaluating variations in water exchange between bays and estuaries and open seas after partial flow diversion from northern river basins to the south slope [1980, p.34-36, rus] **35-3111**
Kashirskii, A.I.
Starting hot oil lines at optimal pumping regime for non-Newtonian oil [1980, p.5-8, rus] **35-493**
Kashlinskii, R.N.
Analyzing the economic-production activities of construction firms in the West Siberian Petroleum Complex [1980, p.21-23, rus] **35-1029**
Kashtanov, A.N.
Development of agriculture in Siberia and the Far East [1980, 352p., rus] **35-3055**
Kashtelian, V.I.
Selecting principal parameters of ice-breaking cargo ships [1979, p.4-6, rus] **35-319**
Kas'ianov, V.V.
Allowing for ultimate equilibrium of grounds in the process of landslide formation [1980, p.47-50, rus] **35-228**
Kasper, I.D.
Starting hot oil lines at optimal pumping regime for non-Newtonian oil [1980, p.5-8, rus] **35-493**
Katayama, S.
NMR study of the freezing thawing mechanism of water in polyacrylamide gel [1980, p.2320-2325, eng] **35-443**
Kaufman, C.
Acoustic fluctuations due to the temperature fine structure of the ocean [1981, p.676-680, eng] **35-2801**
Kauranne, K.
Modern boulder tracing in prospecting [1973, p.87-98, eng] **35-2747**
Kauranne, L.K.
Problems of geochemical contrasts in Finnish soils [1977, p.34-44, eng] **35-2723**
Regional geochemical mapping in Finland [1975, p.71-81, eng] **35-2738**
Kawaguchi, S.
POLEX-South data, Part 2. Micrometeorological data at Mizuho Station, Antarctica in 1979 [1981, 321p., eng] **35-3598**
Kawamura, T.
Divergence and rotation of an ice field off Okhotsk Sea coast of Hokkaido [1980, p.273-282, eng] **35-2170**
Observation of oceanographic condition in the Okhotsk Sea coast of Hokkaido in winter [1978, p.93-105, jap] **35-1545**
Study on ice on Lake Tofutsu [1978, p.85-91, jap] **35-1544**
Kawata, K.
Physical properties of the snow cover on Mt. Tateyama in Central Honshu, Japan [1976, p.157-164, jap] **35-257**
Kay, B.D.
Pressure distribution in frozen soils [1979, p.582-591, eng] **35-436**
Kayyali, O.A.
Frost action on immature cement paste microstructural features [1980, p.264-268, eng] **35-523**
Kazak, A.S.
Performance indices of an individual hydraulic piston pump working on a flooded oil well under winter conditions of West Siberia [1980, p.44-45, rus] **35-1607**
Kazakov, V.G.
Alpine tundra soils of the northern Urals [1974, p.3-9, rus] **35-687**
Kazankova, Z.P.
Artificial crystallization of cloud water droplets on AgI and PbI particles [1980, p.47-50, rus] **35-1201**
Crystallization of precipitation droplets [1975, p.72-76, rus] **35-1617**
Kazanskaia, N.S.
Natural revegetation in Valday spruce forests [1979, p.158-175, rus] **35-4122**
Kazanskii, A.B.
Tests of the stream-melting theory on the Adishi and Khalde glaciers of the Caucasus [1980, p.203-206, rus] **35-2833**
Kazantsev, I.A.
Providing thermal stability for mobile houses [1980, p.18-19, rus] **35-2624**
Kazantsev, V.A.
Influx and transfer of water-soluble substances in the forest-steppe zone of West Siberia [1980, p.84-88, rus] **35-1336**
Kazarnovskii, V.D.
Road construction on West Siberian oil fields [1980, p.3-5, rus] **35-939**
Using synthetic textile materials in the construction of roads and foundations in cluster-drilling areas of western Siberia [1980, p.4-7, rus] **35-2777**
Kazimirov, N.I.
Matter and energy exchange in pine forests of the European North [1977, 304p., rus] **35-807**
Keelty, J.M.
Some tests of a VHF synthetic pulse sea ice thickness sensor [1980, p.305-312, eng] **35-556**
Synthetic pulse radar design [1980, p.349-360, eng] **35-559**
Keenahan, T.
Observation and analysis of freeze up ice jams on the Peace River near Taylor [1981, p.162-181, eng] **35-2549**
Keinonen, A.
Shape and size of ice ridges in the Baltic according to measurements and calculations [1976, 11p. + append., eng] **35-4175**
Keliher, T.E.
Remote estimation of the properties of sea ice, ice core analysis, Beaufort Sea, March 1979 [1980, 172p., eng] **35-335**
Kelley, J.J.
Background levels and biochemical cycle of carbon dioxide in the Arctic, requirements for multimedia monitoring [1980, p.266-271, rus] **35-1270**
Kellogg, W.W.
Arctic sea ice decay simulated for a CO2-induced temperature rise [1979, p.149-162, eng] **35-1657**
Kemmerikh, A.O.
Glacial runoff from Central Asian mountains and its control [1980, p.20-25, rus] **35-467**
Mudflows in the Pamir and Pamir-Alay [1978, p.307-309, eng] **35-3686**
Snow-ice runoff from the Pamirs and Pamiro-Alai [1980, p.88-94, rus] **35-1922**
Kempema, E.
New seismic evidence for a widespread occurrence of gas in submarine sediments at shallow depths, Prudhoe Bay, Alaska [1981, p.276-283, eng] **35-3262**
Overconsolidated surficial deposits on the Beaufort Sea shelf [1981, p.284-312, eng] **35-3263**
Overconsolidated surficial deposits on the Beaufort Sea shelf [1980, 37p., eng] **35-1914**
Seismic evidence for an extensive gas-bearing layer at shallow depth, offshore from Prudhoe Bay, Alaska [1981, p.63-71, eng] **35-2419**
Super sea-ice kettles in the arctic nearshore zone Reindeer Island [1981, p.344-355, eng] **35-3266**
Ken, K.
Studies of the perennial snow patch in Karasawa, Hotakadake [1979, p.165-170, jap] **35-264**
Kennedy, B.C.
Some physical effects of thermal effluents in Boundary Reservoir during winter [1978, p.97-110, eng] **35-2237**
Kennedy, J.L.
LNG carrier underwater noise study for Baffin Bay [1981, 14p + 14 figs., eng] **35-4223**
Kennedy, V.S.
Estuarine perspectives [1980, 533p., eng] **35-3078**
Kent, D.
Use of a geothermal model in northern municipal projects [1980, p.317-331, eng] **35-2126**
Kershaw, G.P.
Ecological roles of river icings in the Tsichu River Valley, Northwest Territories, Canada [1981, p.119-125, eng] **35-3025**
Kerzhentsev, A.S.
Erosion of cryogenic soils in East Transbaikal [1976, p.66-77, rus] **35-803**
Variations of eastern Transbaikal soils in time and space [1980, p.100-102, rus] **35-2286**
Ketchum, R.D.
Passive microwave imagery of sea ice at 33 GHz [1980, p.211-223, eng] **35-1128**
Ketchum, R.D., Jr.
Eastern Arctic SURSAT SAR ice experiment radar signatures of sea ice features [1980, 14p + 24 figs., eng] **35-841**
Keys, J.E.
Robeson Channel ice drift and oceanographic measurements, 1970-1975 [1980, 24p. + 125 figs., eng] **35-887**
Keys, J.R.
Saline discharge at the terminus of Taylor Glacier [1979, p.82-85, eng] **35-661**
Keyser, J.H.
Chemicals and abrasives for snow and ice control [1981, p.580-612, eng] **35-3759**
Khabibulin, K.L.
Allowing for organization-technologic factors when building settlements for transport construction workers [1981, p.16-17, rus] **35-2078**
Khabibullin, I.I.
Experimental investigation of the distribution of stresses in large bored situ-cast piles [1980, p.102-106, eng] **35-1384**
Khabibullina, E.N.
Cement, made on a base of piperylene and fluosilicate acid, for strengthening loess and clayey soils [1981, p.113-117, rus] **35-3461**
Promising compounds for soil stabilization [1980, p.14-15, rus] **35-3006**
Road pavements of cemented earth [1980, p.11-12, rus] **35-918**
Khabibullina, F.S.
Possibilities of stimulating thermokarst phenomena in the Baykal Amur railroad area [1978, p.103-104, rus] **35-18**
Khagleev, E.P.
Analyzing hydrothermal processes in the river-bed dam of the Ust'-Khantai power plant [1980, p.55-58, rus] **35-9**

Khagleev, F.P.
Analyzing hydrothermal processes in the river-bed dam of the Ust'-Khantai power plant [1980, p.55-58, rus] **35-9**

Khaikin, A.B.
Unified electrical installation of the "Kapitan M. Izmailov" type icebreakers [1980, p.31-33, rus] **35-2635**

Khaikis, M.L.
Aggregate method of repairing road construction equipment [1980, 64p., rus] **35-2967**

Khandekar, M.L.
Inertial oscillations in floe motion over the Beaufort Sea observations and analysis [1980, p.1-14, eng] **35-2457**

Khantuleva, A.A.
Field manual for soil science (according to natural zones) [1980, 148p (pertinent p.15-38), rus] **35-2443**

Khapin, IU.B.
Studying microwave emission from a snow cover [1981, p.58-62, rus] **35-3541**

Khapt, M.I.
Concrete mixer for winter concreting [1980, p.23-25, rus] **35-1141**

Kharitonov, G.G.
Methods of calculating total snow transfer in storms [1980, p.23-40, rus] **35-3572**

Kharitonov, V.A.
Construction of seismically stable structures on permafrost [1980, 79p., rus] **35-2872**

Khasanov, M.F.
Engineering-geological conditions of oil and gas-bearing areas in Northern Zaural'e [1981, 143p., rus] **35-3227**

Khaskhachikh, G.D.
Building river-harbor structures under complicated conditions of West Siberia [1980, p.18-20, rus] **35-1299**
Construction of river moorings under severe climatic conditions (a review) [1980, 33p., rus] **35-2965**

Khavkina, N.V.
Role of cryogenesis in the formation of mountain and lowland soils in the eastern part of the Baykal Amur railroad zone [1980, p.51-53, rus] **35-2268**

Kheisin, D.E.
Determination of the tangential stresses on the lower surface of ice in the presence of pure wind drift [1980, 7p., eng] **35-1909**

Khersonskii E.S.
Dynamics of soil water runoff in permafrost areas [1980, p.37-43, rus] **35-3993**

Khetsuriani, L.D.
Photosynthetic apparatus of leaves in certain subalpine meadow plants in Central Caucasus [1980, p.21-26, rus] **35-1038**
Productivity of high altitude grass communities in the central Caucasus [1980, 159p., rus] **35-3899**

Khimin, N.M.
Numerical evaluation of changes in the drainage-induced thermal regime of peat [1980, p.92-100, rus] **35-769**

Khismatullin, Sh.D.
Soil formation and prospects for economic development of land in the Amur region [1980, p.98-124, rus] **35-1630**

Khizhniak, A.N.
Results of field experiments on modification of supercooled fog [1980, p.3-11, rus] **35-2693**

Khlopov, V.V.
Statistical structure of currents in the northwestern part of the Pacific Ocean [1979, p.184-193, rus] **35-4200**

Khodachek, E.A.
Periodicity in the fructification of West Taymyr plants [1980, p.118-130, rus] **35-1408**
Pollination of tundra plants (West Taymyr) [1980, p.105-117, rus] **35-1407**

Khodakov, V.G.
Experience in direct use of glaciers for winter water supply [1980, p.260-264, rus] **35-1255**
Some effects of artificial ice production by sprinklers [1980, p.254-260, rus] **35-1254**
Studies of Spitsbergen snow cover in spring of 1979 [1980, p.185-192, rus] **35-2829**

Khokhlov, G.P.
Dependence of sea ice refractive index on specific attenuation in the UHF range [1980, p.15-17, rus] **35-362**
Snow accumulation on fast ice of the "Severnyy Polius-22" island (1974-75) [1980, p.149-152, rus] **35-382**
Structure of electric parameters in the upper layers of Arctic drift ice in the ultra-high frequency range, allowing for real distributions of physical characteristics [1980, p.6-14, rus] **35-361**

Khokhriakov, A.P.
Alpine tundra vegetation on southeastern spurs of the Bol'shoy Annachag Range [1980, p.78-92, rus] **35-4337**
Refuges of mesophyte relict elements of flora of the northern Okhotsk Sea coast and in the upper Kolyma River Basin [1979, p.84-96, rus] **35-1615**

Kholmanov, V.B.
Geostrophic water circulation in the northeastern part of the Pacific Ocean [1979, p.172-177, rus] **35-4199**

Kholodenko, V.A.
MI-2 helicopters used in long-range ice surveys in the Arctic [1981, p.41-45, rus] **35-3941**

Kholopov, A.I.
New types of plates for road pavements [1980, p.12-13, rus] **35-919**

Khomiakova, Z.P.
Studying heat release of plugging cements [1978, p.41-46, rus] **35-60**

Khomich, V.A.
Land reclamation in the non-chernozem zone in freezing weather [1981, p.22-24, rus] **35-3536**

Khomik, M.V.
Influence of solid phase concentration in drilling mud on mechanical speed of drilling in permafrost [1980, p.27-29, rus] **35-1609**

Khominskii, V.A.
Determining the magnitude of force required for layer-by-layer excavation of frozen rocks treated with ultra-high frequency electromagnetic fields [1980, p.69-74, rus] **35-2455**
Experimental study of frozen rock strength in superhigh frequency electromagnetic fields [1980, p.47-51, rus] **35-636**

Khomutov, A.F.
Automatic information and measuring systems for thermal and technical studies of enclosures [1979, p.118-119, rus] **35-4063**

Khonin, R.V.
Classification of mudflow formation foci [1980, p.51-56, rus] **35-209**
Methods of compiling aerial maps of mudflow-hazard regions in the USSR [1980, p.34-41, rus] **35-1804**
Morphologic peculiarities of mudflow foci [1980, p.27-33, rus] **35-1803**

Khonnolainen, G.
Frost effect on nitrogen transformations in soils [1974, p.136-139, rus] **35-1211**

Khorguani, V.G.
Effect of crystalline phase on hailstone growth [1975, p.151-162, rus] **35-1622**
On the role of giant aerosol particles and ice-forming nuclei in the formation of hailstone nuclei [1980, p.638-643, eng] **35-2838**
Studying hail nuclei in wind tunnels [1975, p.122-139, rus] **35-1620**

Khorosh, A.I.
Stresses on propelling mechanisms of universal excavators in frozen ground [1979, p.13-14, rus] **35-2619**
Thermal state of hydraulic systems of excavators at low temperatures [1981, p.23-24, rus] **35-2097**

Khositashvili, G.R.
Theoretical aspects of regional landslide forecasts [1980, p.193-199, rus] **35-1353**

Khramtsova, I.G.
Frost forecasting for southeastern West Siberia [1980, p.48-55, rus] **35-1361**

Khrapatyi, N.G.
Calculating strength of ice floe impact against separate supports [1978, p.81-85, rus] **35-753**
Experimental study of ice strength [1978, p.85-87, rus] **35-754**

Khrgian, A.Kh.
Investigation of climate parameters under various weather conditions (anomalous years) [1981, 164p., rus] **35-3967**

Khristov, R.
Preventive inspection of hull work in ice [1981, p.47, rus] **35-3483**

Khromets, D.IU.
Temperature regime of plane structures of heated open sport stadiums [1979, p.29-33, rus] **35-4056**

Khromov, IU.N.
Pressure ridges and ice resistance to moving ships [1980, p.100-104, rus] **35-1594**

Khromov, S.P.
Climate formation [1980, 183p., rus] **35-1451**

Khromtsova, M.S.
Icy routes [1980, 128p., rus] **35-1574**

Khrutskii, S.F.
Mechanism of ice vein pseudomorphism [1979, p.163-171, rus] **35-1837**

Khudiakov, O.I.
Changes in temperature regime of cryogenic meadow-swamp soils due to cultivation [1980, p.134-136, rus] **35-2298**
Effect of cryogenesis on physical properties and moisture regime of cryogenic meadow-swamp soils of the Baykal Amur railroad area [1980, p.102-104, rus] **35-2287**
Peculiarities of hydrothermal regimes of cryogenic taiga soils in the Khangay Mountains (People's Republic of Mongolia) [1980, p.177-178, rus] **35-2311**

Kiceniuk, J.W.
Effects of long term crude oil exposure on marine fish [1980, p.212-222, eng] **35-3095**

Kichigin, A.F.
Hydropneumatic impact systems of working parts of mining and road construction machines [1980, 199p., rus] **35-1149**

Kidwell, K.B.
NOAA Polar Orbiter data (TIROS-N and NOAA-6) users guide [1921, c115p., eng] **35-2577**

Kiefer, J.
Water monomer on the prism face of ice and above a four layer ice basal face ledge an effective pair potential model [1981, p.1991-1995, eng] **35-4155**

Kiefer, W.H.
Dawson City water and sewerage program an overview [1981, p.544-554, eng] **35-2523**

Kieffer, H.H.
Mars south polar spring and summer temperatures a residual CO2 frost [1979, p.8263-8288, eng] **35-1104**

Kieffer, S.W.
Low-velocity impact craters in ice and ice-saturated sand with implications for Martian crater count ages [1979, p.8023-8032, eng] **35-1101**

Kihlgren, B.
Rolling resistance of aircraft wheels in dry snow [1977, 22p + tables, sw] **35-702**

Kiktenko, V.A.
Analytical method of calculating runoff storage [1980, 200p., rus] **35-3641**

Kikuchi, K.
Atmospheric electrical observations of precipitation particles in the winter monsoon at Hokuriku District, Japan (Part 1 Results at Unoke Town) [1979, p.31-48, eng] **35-513**
Charging mechanism of snowflakes and soft hail [1977, p.315-321, eng] **35-3780**
Electric polarity of graupel particles [1979, p.21-30, eng] **35-512**
Some observations of snowfall and meteorological conditions in Arctic Canada [1980, p.1656-1664, eng] **35-1414**

Kikushima, M.
11- and 18-GHz radio wave attenuation due to precipitation on a slant path [1980, p.580-585, eng] **35-2413**

Kilfeather, P.
Nutrients in tundra ecosystems [1981, p.647-683, eng] **35-3395**

Kilger, B.
Sedimentological derivation of glacial sediments from active basal till, with the Roseg Glacier (Grisons, Switzerland) serving as an example [1979, p.143-155, ger] **35-2641**

Kim, B.I.
Environmental protection in areas of main pipeline construction and operation [1981, 160p., rus] **35-3566**
Pipeline construction and environmental protection [1980, p.14-15, rus] **35-1304**

Kim, N.S.
Measuring the size of artificial ice-forming nuclei with diffusion batteries [1980, p.57-63, rus] **35-2865**
Studying the effect of the AgI generation regime on ice-forming properties [1980, p.89-98, rus] **35-2698**

Kind, R.J.
Snow drifting [1981, p.338-359, eng] **35-3753**

Kindness, S.W.
Aids for improving vision in white-out [1980, 23p., eng] **35-1416**

King, C.M.
Rail transit winterization technology and systems operations study [1980, 157p., eng] **35-1848**

King, E.A.
Search for cometary dust in the antarctic ice [1980, p.78-79, eng] **35-3184**

King, G.G.
Equation predicts buried pipeline temperatures [1981, p.65-66, 71-72, eng] **35-2467**
Equations speed permafrost-area line analysis [1980, p.80-84, eng] **35-1498**

Kinney, J.A.
Aids for improving vision in white-out [1980, 23p., eng] **35-1416**

Kirby, M.E.
Ice and iceberg studies using state-of-the-art remote sensing [1979, p.551-569, eng] **35-180**

Kirenskaia, T.L.
"Chemolgan-78" [1980, p.64-71, rus] **35-1809**
Basic problems in modeling mudflow processes [1980, p.3-9, rus] **35-1799**
Forecasting rain-induced mudflows [1980, p.36-45, rus] **35-207**
Mudflows, No.4 [1980, 148p., rus] **35-203**

Kirenskii, K.L.
Measuring solar radiation in ice on Lake Syrdakh [1980, p.38-40, rus] **35-3312**

Kir'ianchuk, V.G.
Drilling-crane assembly BKTS-1 [1981, p.25-27, rus] **35-3534**

Kirichenko, A.V.
Descent regimes of avalanches in northern Transbaikal [1972, p.40-49, rus] **35-761**
Thermal regime in lakes of the Kodar Range [1980, p.15-28, rus] **35-2333**

Kirilia, D.K.
Effect of hail nuclei concentration on their coagulation growth [1980, p.5-17, rus] **35-2869**

Kiriliuk, I.V.
Dust clouds of firn-ice avalanches of the Tramplinnyi glacier (northwestern Pamirs) [1980, p.113-120, rus] **35-3582**

Kirillov, A.A.
Correlations of ice conditions in the eastern and western part of the Severnaya Zemlya area [1980, p.94-100, rus] **35-3499**
Dependence of ice conditions in the Severnaya Zemlya area on large-scale characteristics of the distribution of atmospheric pressure [1980, p.101-108, rus] **35-3500**
Principal component method of determining mean seasonal characteristics of ice conditions [1980, p.135-141, rus] **35-3504**
Kirillov, S.A.
Thermal regime of open pumps in the North [1981, p.7-10, rus] **35-3340**
Kiriushkin, V.N.
Using aerial surveys in preparation for pipeline construction [1980, p.20-21, rus] **35-1301**
Kirkin, V.N.
Improving stability of physico-chemical and detonation properties of simplest explosives [1978, p.84-97, rus] **35-1083**
Kirsanov, V.
Under arctic conditions [1979, p.80-82, rus] **35-337**
Kirsanov, V.A.
Formation and development of green moss-berry bush cedar forests in the northern Ural Mountains [1976, p.104-113, rus] **35-1919**
Kiselev, V.F.
Mobile water phase on ice surfaces [1974, p.60-68, eng] **35-3628**
Kiselev, V.I.
Possibility of more effective use of AgI aerosol in cloud seeding [1980, p.98-101, rus] **35-2992**
Kisil, A.
Research in oil, gas and ice at the University of Toronto [1980, p.27-31, eng] **35-3871**
Kisiliakhov, E.K.
Evaluating fire danger in taiga from microwave radiation [1980, p.14-19, rus] **35-3545**
Limits of pine litter burning in air flow [1972, p.242-248, rus] **35-1381**
Kislenko, A.A.
Scraper with adjustable cutting angle [1981, p.20-21, rus] **35-2096**
Kitchell, J.A.
Deep-sea traces from the central Arctic: an analysis of diversity [1979, p.1185-1198, eng] **35-4224**
Kiunttsel', V.V.
Experimental base for studying maintenance fields of roads allowing for landscape structure [1980, p.80-84, rus] **35-968**
Regularities governing landslide processes in the European USSR and regional landslide forecasting [1980, 213p., rus] **35-386**
Theoretical aspects of regional landslide forecasts [1980, p.193-199, rus] **35-1353**
Kjeistad, N.
Rural schools prototype analysis [1980, p.439-474, eng] **35-2133**
Kjeldgaard, J.H.
Thermal ice forces [1980, p.1-33, eng] **35-508**
Kjeldsen, S.P.
Wave-wave and wave-current interactions in deep water [1979, p.179-200, eng] **35-170**
Kjeldstrup Ratkje, S.
On the theory of frost heave [1980, p.45-48, eng] **35-1993**
Kladov, N.P.
Double-blade snowplow DE-223 [1980, p.10, rus] **35-539**
Klassen, R.A.
Aspects of the glacial history of Bylot Island, District of Franklin [1981, p.317-326, eng] **35-3088**
Glacial dispersion of uranium in the District of Keewatin, Canada [1977, p.80-88, eng] **35-2727**
Relation of lake-sediment composition to mineralization in different limnological environments in Canada [1975, p.112-125, eng] **35-2739**
Klein, D.R.
Current extractive industrial development, North America [1981, p.751-771, eng] **35-3399**
Klein, L.A.
Temperature and moisture effects on microflora and nitrogen regime of transition-type peat soils [1980, p.114-123, rus] **35-1328**
Klein, W.
"Spinodals" in the mean field theory of freezing [1981, p.6960-6964, eng] **35-3693**
Kleinman, A.M.
Application of a variable-time-step finite-difference method for the one-dimensional melting problem including the effect of subcooling [1979, p.120-126, eng] **35-3355**
Klen, L.A.
Probability and duration of wind velocities dangerous for navigation in the North Atlantic Ocean [1980, p.14-37, rus] **35-29**
Klepikov, S.N.
Calculating foundations of situ-cast bored piles in second-order sagging grounds [1980, p.53-58, rus] **35-229**
Klepikov, V.V.
Subdivision of the Arctic Ocean into basins [1980, p.114-115, rus] **35-1569**
Klepsvik, J.O.
Studies of icebergs, ice fronts and ice walls using side-scanning sonar [1980, p.31-36, eng] **35-2202**
Klevenskaia, I.L.
Variations in the numbers of oligonitrophilic microorganisms of West Siberian soils [1974, p.146-149, rus] **35-1213**
Kliewer, R.M.
Fixed platform providing an integrated deck on a multiple leg ice resistant structure [1980, p.315-324, eng] **35-3636**
Klimin, A.I.
Specifying the dependence of melting ice albedo on solar elevation [1979, p.108-112, rus] **35-2986**
Klimov, A.S.
Evaluation of soil moisture and interpretation of related processes from multizonal space imagery [1980, p.115-122, eng] **35-3797**
Klimov, G.I.
Role of condensation in the water balance of hydraulically filled sands of tailings [1980, p.57-62, rus] **35-3995**
Klimova, L.A.
Calculating precipitation contributing to spring flooding of rivers in the plains and foothills of the Altai Mountains [1977, p.35-39, rus] **35-1292**
Klimovskii, I.V.
Ground ice of the naled glades in east Siberian mountains [1980, p.103-114, rus] **35-4000**
Kliuchnikov, G.IA.
Airport pavements of fine-grained concrete [1980, p.25, rus] **35-1652**
Kliuev, V.
Stepping up ship passage through sluices [1980, p.38-39, rus] **35-1604**
Klochkov, V.F.
Possible use of blasting for shaft sinking in artificially frozen rocks [1980, p.36-38, rus] **35-1358**
Klokov, V.D.
Extent of meltwater areas in Antarctica [1980, p.29-35, rus] **35-2028**
Thermal regime of ice cover during thaw [1980, p.23-28, rus] **35-2027**
Knight, D.J.
General circulation experiment with a coupled atmosphere, ocean and sea ice model [1980, p.188-1908, eng] **35-2472**
Knighton, A.D.
Channel form and flow characteristics of supraglacial streams, Austre Okstindbreen, Norway [1981, p.295-306, eng] **35-4262**
Knigina, G.I.
Mineral raw materials from Siberia and the North used in construction [1980, p.79-83, rus] **35-1087**
Knizhnik, G.B.
Roadbed design and construction under difficult engineering and geological conditions [1980, p.4-5, rus] **35-599**
Knowles, W.L.
Evaluation of ice jam roughness, Thames River, Ontario [1981, p.281-294, eng] **35-2558**
Knudsen, N.T.
Recent changes of the glacier Osterdalsisen, Svartisen, Norway [1981, p.23-30, eng] **35-4017**
Kobayashi, D.
Rebound of falling snow flakes in snow accumulation process, 1 [1978, p.113-120, jap] **35-1180**
Kobayashi, N.
Erosion prediction for exploration and production structures in the Arctic [1981, p.459-470, eng] **35-3453**
Kobayashi, S.
Experimental studies of snow accretion on electric lines by the use of a wind tunnel: growth of snow accretion under high wind speeds [1978, p.169-180, jap] **35-1184**
Interaction between wind and snow surface [1979, p.35-47, eng] **35-2245**
Koblents, IA.P.
Issue of a connection between the subglacial Gamburtsev and Vernadskiy Mountains in Antarctica [1980, p.224-233, eng] **35-2629**
Kochurov, B.I.
Studying soil and geochemical regimes of forest geosystems in the West Sayan foothills [1975, p.44-54, rus] **35-794**
Koci, B.R.
Polar Ice Coring Office (PICO) drilling activities, 1979-80 [1980, p.76-77, eng] **35-3183**
Kodama, M.
Continuous monitoring of snow water equivalent using cosmic ray neutrons [1980, p.295-303, eng] **35-747**
Kogan, B.A.
Calculation of the basic components of the ice balance in the Denmark Strait [1980, 16p., eng] **35-1727**
Peculiarities of ice distribution in the Danish Strait [1980, p.54-60, rus] **35-31**
Kogan, E.N.
Modern technology of building cross-over poles [1980, p.57-61, rus] **35-603**
Kohler, A.
Handbook for winter road service [1978, 319p., ger] **35-152**
Koide, M.
241Pu/239+240Pu ratios in polar glaciers [1981, p.239-247, eng] **35-4297**
Koiushev, I.A.
Agrobiologic basis for creating cultivated pastures in the central taiga of Komi ASSR [1971, p.16-17, rus] **35-2607**
Koivuniemi, M.
Use of slag in bituminous pavements [1979, 71p. + figs., fin] **35-2058**
Koiwa, S.
Fluctuations of the Ichinokura snow patch to the east of mount Tangawa [1979, p.161-164, jap] **35-263**
Kokkola, M.
Application of humus to exploration [1977, p.104-110, eng] **35-2729**
Stratigraphy of till at Hitura open-pit, Nivala, western Finland, and its bearing on geochemical prospecting [1975, p.149-154, eng] **35-2740**
Kokorin, IU.N.
Regionalization of the Buryat ASSR for agriculture and forest strip method of land reclamation [1976, p.18-36, rus] **35-801**
Kokrashvili, G.Z.
Influence of vapor supersaturation on the process of heterogeneous nucleation [1980, p.18-30, rus] **35-2870**
Kolchanova, L.N.
Effect of transportation expenses on the cost of construction and assembly of petroleum industry objects in the Central Ob' River area [1980, p.20-23, rus] **35-625**
Kolchin, M.
Snowplow with greater intake and ejection distance [1980, p.14-15, rus] **35-938**
Kolesnikov, A.P.
Superpower turbines for Siberia and the Far East [1980, 135p., rus] **35-2447**
Kolesnikov, B.P.
Age and restoration dynamics of forests in the Ural Mountains and east of the Urals [1976, 168p., rus] **35-1916**
Kolesnikov, N.S.
Quick method of roadbed construction on narrow steep-sloping sections of the Baykal Amur railroad [1981, p.3-4, rus] **35-2842**
Kolesnikov, S.F.
Role of cryogenic-eluvial processes in the formation of alluvium and slope deposits in the North Chukotskiy Peninsula [1979, p.68-74, rus] **35-65**
Koliago, S.A.
Loess formations and soil-forming processes in Siberia [1980, p.5-20, rus] **35-296**
Kollmeyer, R.C.
Tidal flow of [illegible] Glacier, West Greenland [1981, p.3960-3968, eng] **35-3909**
Kolmogorov, A.V.
Determining loads on timber after first stages of hanging-wall collapse in permafrost areas [1980, p.101-103, rus] **35-634**
Kolobov, D.D.
Bottom sediments under the Novolazarevskaya ice shelf [1980, p.93-96, rus] **35-1459**
Kolomeitsev, V.T.
Economic effectiveness of using screw piles in foundations of exploratory well rigs [1921, p.14-15, rus] **35-4286**
Guyless prestressed crossings [1980, p.37-38, rus] **35-506**
Kolomiets, G.E.
Landscape types of the Ob' River floodplain [1980, p.101-110, rus] **35-1338**
Kolomyts, E.G.
Indicatory role of the snow cover in studying the winter system of the taiga [1980, 15p., eng] **35-980**
Self-regulation of sublimation metamorphism in snow cover layers [1978, p.37-76, rus] **35-1433**
Kolomytsev, V.A.
Forest drainage effect on landscapes of Karelia [1980, p.52-77, rus] **35-1325**
Koloskov, B.P.
Measurement of snowfall by MRL-2 radar [1979, p.43-52, rus] **35-1188**
Kolosova, A.F.
Lowering construction cost of pile foundations for residential buildings in Yakutsk [1978, p.101-106, rus] **35-4115**
Kolotaev, V.N.
Formation of large ground water naleds (the Mururin naled) [1980, p.37-45, rus] **35-1867**
Komarkova, V.
Alpine vegetation of the Indian Peaks area, Front Range, Colorado Rocky Mountains [1979, 591p. + figs. + maps, eng] **35-3604**
Classification and ordination in the Indian Peaks area, Colorado Rocky Mountains [1980, p.149-163, eng] **35-3767**
Two low Arctic vegetation maps near Atkasook, Alaska [1980, p.447-472, eng] **35-3199**
Vegetation succession and recovery of old oil wells on the Alaskan North Slope [1980, p.38-64, eng] **35-580**
Komarova, V.B.
Application of airborne radar surveying in geologic and geographic investigations [1981, 238p., rus] **35-3224**
Komov, N.I.
Analysis of data on ice deterioration on Dickson Island [1981, p.59-64, rus] **35-3946**
Methods of determining ice deterioration [1981, p.51-55, rus] **35-3944**

Komulainen, A.A.
Scientific conference of Karelian biologists dedicated to the centennial of V.I. Lenin's birth [1970, 167p., rus] **35-2613**

Kondrashov, I.V.
Analysis of the structure and strength of snow cover on the northern slope of Zailiyskiy Alatau during winters with light and heavy snow accumulation [1980, p.85-88, rus] **35-3578**
Factors determining snowfall intensity and avalanche formation from new snow in the Zailiyskiy Alatau mountains [1980, p.51-58, rus] **35-715**

Kondrat'ev, K.IA.
Angular anisotropy of reflection from different types of natural surfaces. I. Snow cover [1980, p.43-53, rus] **35-3803**
Charts of the spectral brightness coefficients of typical natural surfaces in the USSR [1980, p.72-83, rus] **35-3804**
Remote sensing of soil moisture with microwave radiometry [1977, p.66-76, rus] **35-901**

Kondrat'ev, P.N.
Thermal and technical properties of enclosures built of asbestos-cement external panels [1979, p.77-80, rus] **35-4059**

Kondrat'eva, K.A.
Composition and properties of Upper Pleistocene deposits of the Yana-Indigirka coastal lowland [1975, p.59-69, eng] **35-2401**

Kondrat'eva, N.F.
Thermal regime of surface waters in the subarctic zone of the Pacific Ocean [1980, 173p., rus] **35-1798**

Konev, V.A.
Thermal interaction of radiation with combustible forest materials [1972, p.230-235, rus] **35-1379**

Konferentsiia molodykh uchenykh, 3rd, Krasnoyarsk, 1971
Conference of young scientists, 3rd, Krasnoyarsk, 1971 Studies of the nature of Siberian forests [1972, 325p., rus] **35-1373**

Kong, J.A.
Correlation function studies for microwave remote sensing of snow and ice [1981, p.685-690, eng] **35-3443**
Mean dyadic Green's function for remote sensing of a two-layer random medium [1981, p.691-695, eng] **35-3444**
Multiple scattering of electromagnetic waves by random distributions of discrete scatterers with coherent potential and quantum mechanical formulism [1980, p.3465-3485, eng] **35-2410**
Theoretical models for microwave snow response and applications to remote sensing [1980, p.147-167, eng] **35-1741**

Kong, Z.
Late-glacial floras in eastern China [1980, p.29-32, chi] **35-2915**

Konishkin, M.A.
Origin and conditions of formation of Upper Pleistocene ice-bearing silts in Chukochiy Yar, Kolyma lowland [1979, p.110-135, rus] **35-1833**

Konishchev, V.N.
Composition of moraine silt of Spitsbergen Archipelago glaciers [1979, p.102-109, rus] **35-1832**

Kononenko, A.V.
Thermal regime, oxidation-reduction processes and the effectiveness of fertilizers in southern tundra soils [1980, p.117-118, rus] **35-2293**

Kononov, K.E.
Quantitative estimation of factors influencing the phenological rhythms and physiological processes in plants in Central Yakutia [1981, p.39-45, rus] **35-3509**
Thermal balance of meadow vegetation and the climate of cryogenic flood-plain soils [1981, 176p., rus] **35-3567**

Konorovskii, A.K.
Allowing for peculiarities of cryogenic soils during their development [1980, p.17-18, rus] **35-2257**

Konoshko, V.V.
Hydraulic models for studying temperature fields beneath embankments [1980, p.12-15, rus] **35-2779**

Konovalov, A.A.
Peculiarities of foundation design in petroleum provinces of West Siberia [1981, 167p., rus] **35-3918**

Konovalov, I.N.
Physiological aspects of plant adaptation in polar regions [1980, p.3-12, rus] **35-4312**

Konovalov, P.A.
Construction of foundations on peat soils [1980, 161p., rus] **35-2997**

Konovalov, S.V.
Increasing frost resistance of cemented clayey soils [1980, p.7-8, rus] **35-476**

Konovalov, V.G.
Modeling formation of runoff in a basin with widespread glaciation [1980, p.49-55, 130-134, rus] **35-2816**
Using satellite data in mathematical modeling of snow cover formation in mountains [1980, p.3-10, rus] **35-710**

Konrad, J.-M.
Frost heave mechanics [1980, 472p., eng] **35-3405**

Konstantinov, I.P.
Forecasting temperature regime of an earth fill embankment and its base [1981, p.121-134, rus] **35-3290**
Properties of frozen and thawing tundra soils and their role in the formation of gullies [1981, p.80-95, rus] **35-3287**

Konstantinov, V.D.
Prospects of soil melioration in the Kas-Yenisey interfluve [1980, p.122-124, rus] **35-2294**

Konstantinova, N.A.
Basic liverwort synusia in the Khibiny Mountains and their role in the vegetational cover [1980, p.96-107, rus] **35-3072**
Vegetation of the Ozernyy region in Central Yamal [1980, p.76-82, rus] **35-499**

Kontrimavichus, V.L.
Alpine tundras of the Bol'shoy Annachag Range (upper course of the Kolyma River) [1980, 178p., rus] **35-4332**

Koopmans, R.
Evaluation of Ontario shoreline protection materials [1980, p.248-262, fre] **35-2962**

Kopaliani, Z.D.
Hydrology [1978, 224p., rus] **35-2699**

Kopoteva, T.A.
Hydrochemical regime of swamps in the Evoron Lake Basin [1979, p.156-180, rus] **35-1524**

Koptseva, N.N.
Using the coefficients of brightness of natural formations in the interpretation of satellite photographs [1980, p.123-127, rus] **35-3798**

Kopysov, N.S.
Lowering construction cost of pile foundations for residential buildings in Yakutsk [1978, p.101-106, rus] **35-4115**

Korableva, N.A.
Orientation of optical axes of ice crystals from Vostok Station ice cover [1980, p.70-74, rus] **35-2035**

Kordzakhiia, R.S.
Aerosynoptic conditions starting thaws over Georgia [1980, p.89-94, rus] **35-2989**

Korenistov, A.V.
Blastability of rocks under permafrost conditions [1980, p.252-255, eng] **35-964**

Koren'kov, V.A.
Accounting for ice conditions when building bridge crossings [1980, p.10-11, rus] **35-3004**

Korhonen, C.
Hand-held infrared systems for detecting roof moisture [1977, p.261-271, eng] **35-2494**
Roofs in cold regions: Marson's Store, Claremont, New Hampshire [1980, 13p., eng] **35-975**

Koriagin, S.V.
Reduction of the series of maximum spring-flood discharges of rivers in the Baykal Amur railroad zone to a long period [1978, p.64-69, rus] **35-2704**

Korkhov, V.
Preventing the freezing of cargo [1980, p.17, rus] **35-1643**

Körner, H.J.
Avalanche dynamics - what has to be measured [1979, p.165-173, ger] **35-3725**
Energy-line method in the mechanics of avalanches [1980, p.501-505, eng] **35-2391**

Kornienko, V.A.
Using trees and shrubs in the landscaping of Yakutsk [1980, p.64-69, rus] **35-4103**

Kornilova, L.I.
Basic types of paluded spruce forests in Karelia [1980, p.78-99, rus] **35-1326**

Kornilova, R.P.
Long-term weather regime as a basis for health evaluation of climate in the Baykal Amur railroad area [1980, p.60-69, rus] **35-1450**
Seasonal peculiarities of weather in the non-chernozem zone of the R.S.F.S.R. [1981, p.137-142, rus] **35-3973**

Korniushin, O.G.
Atlases of hydrometeorological phenomena especially dangerous for sea navigation [1980, p.3-7, rus] **35-27**
Dangerous hydrometeorological phenomena in the Baltic and North seas [1980, p.8-13, rus] **35-28**

Korobkina, G.IU.
Specifying the dependence of melting ice albedo on solar elevation [1979, p.108-112, rus] **35-2986**

Korobkova, O.P.
Variations of clay soil strength depending on water saturation [1980, p.31-39, rus] **35-1567**

Korobtsev, I.I.
Forms and reserves of nitrogen in the cryogenic meadow-chernozem soils of Buryatiya and the effectiveness of nitrogen fertilizers [1976, p.136-144, rus] **35-804**

Korolev, A.S.
Studying steam permeability of some construction materials [1979, p.110-113, rus] **35-241**

Korolev, K.M.
Dosing apparatus for chemical concrete admixtures [1980, p.13-14, rus] **35-2623**

Korolev, P.A.
Nature of snow cover density distribution along a Pionerskaya Station - Donne C profile [1980, p.66-69, rus] **35-2034**

Koronkevich, N.I.
Partial redirection of Siberian rivers in relation to the development of natural resources and environmental protection [1979, p.114-120, rus] **35-2328**

Korostelev, N.S.
KB-402B tower crane [1980, p.4-6, rus] **35-537**
Modernized tower crane KB-403A [1980, p.10-11, rus] **35-389**

Korotaeva, T.V.
Soils and geochemical processes in southern taiga of the Irtysh River geosystems [1979, p.51-62, rus] **35-2323**
Some biogeochemical parameters of the upper Chara River basin [1980, p.152-162, rus] **35-1632**

Korotkevich, E.S.
15th session of the Scientific Committee for Antarctic Research and the 9th meeting of the Coordinating Committee of the International Antarctic Glaciological Project [1980, p.128-132, rus] **35-2047**
Age of ice in drill holes at Vostok and Vostok-1 [1980, p.41-48, rus] **35-2030**
Drilling through shelf ice near Novola arevskaya Station [1979, 11p., eng] **35-1057**
Major physiographic features of the Arctic and Southern Oceans [1979, p.37-54, rus] **35-1399**

Korotkii, A.M.
Formations of cryogenic and nival origin in the summit belt of the Sikhote-Alin' Mountains [1976, p.100-123, rus] **35-1856**
Regularities governing material composition of mountain alluvium in different climates of the Far East [1979, p.94-117, rus] **35-3046**
Similarities and differences in general and particular morpholithogenic processes under monsoon and continental climates [1976, p.124-138, rus] **35-1857**

Korotkov, I.A.
Dynamics of pseudo-taiga larch phytocenoses of the Central Khangay (Mongolia) induced by successive felling [1980, p.87-97, rus] **35-2478**

Korshikov, A.A.
Working tool of the ETTs-163M for wet soil excavation [1980, p.46-47, rus] **35-1640**

Korsunov, V.M.
Ecologic conditions of formation of a specific humus profile in podsol soils of southern taiga in the plain adjacent to the Yenisey River [1980, p.85-103, rus] **35-302**
Origin and geography of forest soils [1980, 131p., rus] **35-295**
Podsolization degree of soils in autonomous taiga landscapes [1980, p.104-128, rus] **35-303**

Korsunova, T.M.
Ecologic conditions of formation of a specific humus profile in podsol soils of southern taiga in the plain adjacent to the Yenisey River [1980, p.85-103, rus] **35-302**

Korsunskii, M.B.
Forecasting and controlling soil moisture in roadbeds [1980, p.17-19, rus] **35-2637**

Korytov, N.
Air cushion ships [1980, p.10-12, rus] **35-351**

Korzh, N.A.
Scientific-technical conference "Reliability and safety in operating electrical installations in the Far North" [1981, p.74-76, rus] **35-3484**

Korzhuev, S.S.
Northern badlands, exogenic paradox of Arctic regions [1978, p.95-96, rus] **35-15**
Problems of the relations between climatic zones and exogenic relief formation [1978, p.9-21, rus] **35-12**

Korzov, V.I.
Angular anisotropy of reflection from different types of natural surfaces. I. Snow cover [1980, p.43-53, rus] **35-3803**

Korzun, M.A.
Cryogenic phenomena in the Late Pleistocene deposits of southeastern Siberia and their influence on recent soils [1980, p.169-171, rus] **35-2307**

Korzun, V.E.
Proceedings of an international symposium on the distribution and forecasting of runoff from glaciers and glaciated areas [1980, p.89-90, rus] **35-1232**

Koshechkin, B.I.
Kola Peninsula till stratigraphy [1977, p.30-33, eng] **35-2722**

Koshelev, A.A.
Ductless hot-water pipelines in the North [1981, p.126-129, rus] **35-2790**
Dynamics of thermal regime in the pipeline-ground-air system [1980, p.20-26, rus] **35-2335**

Koshelev, IU.A.
Modern trends in the construction of mountain tunnels [1980, p.11-15, rus] **35-1140**

Koslow, E.E.
Computation of rate of heave versus load under quasi-steady state [1980, p.243-251, eng] **35-741**

Kosmakov, I.V.
Ice regime of the Krasnoyarsk hydroelectric power plant reservoir [1980, p.45-50, rus] **35-453**

Kosobokova, K.N.
Closureless catch technique for studying vertical and horizontal distribution of pelagic organisms in the Arctic [1980, p.183-195, rus] **35-1323**

Kosogov, A.I.
Artificial freezing technique for excavating sloping mine shafts in water-saturated rocks [1980, p.24-26, rus] **35-325**

Kosolapov, V.N.
Scheme for a generalized method of integral correlations for multivariate single phase Stefan problems and its applications [1980, p.43-52, rus] **35-2395**

Kosov, B.F.
Land erosion maps of the Central Region for environmental protection [1979, p.95-101, rus] **35-2327**

Kostarev, A.S.
Time for the formation of organic matter in the second humic zone of soddy-podsolic soils [1980, p.1475-1478, rus] **35-2766**

Kostiaev, A.G.
New data on the Early Holocene marine sediments and ice veins in the West of the October Revolution Island (Severnaya Zemlya Archipelago) [1981, p.183-187, rus] **35-2767**
Paleogeographic conditions of formation and cryogenic structure of the Late Pleistocene alluvium in the upper Amur River basin and adjacent areas [1981, p.126-153, rus] **35-4077**

Kostiaev, P.S.
Induced polarization of concretes, containing antifreeze admixtures, in a direct current field [1980, p.52-58, rus] **35-3529**

Kostina, V.A.
Additional information on the flora of the Lovozerskie Mountains and problems of its protection [1980, p.67-71, rus] **35-3068**

Kostiuchenko, I.S.
Space dynamics of the Siberian cedar in taiga forests of the northern Ural Mountains and the West Siberian Plain [1976, p.92-103, rus] **35-1918**

Kostolomov, M.N.
Distribution of some adventitious and local plants in the Murmansk area [1980, p.108-117, rus] **35-3073**

Kostov, L.
Physical properties of the tundra soil-water system at Stordalen, Abisko [1980, p.27-54, eng] **35-1472**
Thawing and freezing in tundra soils [1980, p.251-281, eng] **35-1484**

Kostychev, V.
Model of the atomic icebreaker *Arktika* [1980, p.72-74, rus] **35-790**

Kostyleva, T.A.
Field protection effectiveness of forest strip systems in the steppes of northern Kazakhstan [1978, p.4-11, rus] **35-1092**

Kotelina, N.S.
Biologic premises for a rational utilization of forest tundra meadows [1971, p.14-16, rus] **35-2606**
Meadows of the forest tundra river Yun'-Yakhi [1971, p.5-7, rus] **35-2605**

Kotiukh, A.A.
General methodological aspects of radar signal interpretation [1980, p.203-210, eng] **35-2627**

Kotlinkov, V.M.
Annotated list of Soviet literature on glaciology for 1978 [1980, p.216-283, rus] **35-2837**
Climatically and non-climatically induced glacier changes a review of Soviet studies [1981, p.361-368, eng] **35-3039**
Development and prospects of space glaciology [1981, p.7-15, rus] **35-3539**
Future of the environment and global glaciological problems [1980, p.5-16, rus] **35-1531**
Future of the environment and global problems in glaciology [1980, p.153-165, eng] **35-1762**
Impending climatic change and the fate of glaciers [1980, p.65-78, eng] **35-1006**
Isotope and chemical composition of snow cover in East Antarctica (Studies along the Mirnyy-Vostok profile) [1980, p.36-48, rus] **35-1224**
New data on the dynamics of ice shelves in the Weddell Sea [1980, p.181-185, rus] **35-2828**
Present glaciation and climate of the Caucasus [1981, p.241-264, fre] **35-3740**
Problems and prospects of studying ice cores from glacier boreholes [1980, p.22-26, rus] **35-1222**
Redistribution of snow in the mountains under the effect of heavy snow-storms [1980, p.287-294, eng] **35-746**
Role of glaciological investigations in the studies and development of mountainous regions [1980, p.37-40, rus] **35-1437**
Role of surface glaciation in fluvio-glacial balance of the Arctic [1980, p.11-21, rus] **35-1565**
Soviet glaciological studies in 1979 [1980, p.5-13, rus] **35-1219**

Kotliarov, I.I.
Biomass reserves and structure in mountain landscapes of the northern Okhotsk Sea area [1979, p.5-15, rus] **35-4324**

Kotliarova, V.K.
Slope and stream erosion in source areas of dispersed mudflows [1980, p.78-81, rus] **35-1811**

Kotov, G.A.
Hydraulic excavators used in construction [1980, p.7-10, rus] **35-1356**

Kotrekhov, E.P.
Using numerical modeling method in forecasting and measuring changes in the water regime of the North Dvina and Pechora River estuaries due to partial diversion of flow [1980, p.17-20, rus] **35-3107**

Kots, A.N.
Rational application of slab and pile foundations beneath block-set structures [1980, p.4-6, rus] **35-94**

Kou, Y.
Glacial meteorology of Mt. Tuomuer [1980, p.11-14, chi] **35-2911**

Kovacs, A.
Investigations of sea ice anisotropy, electromagnetic properties, strength and under-ice current orientation [1980, p.109-153, eng] **35-550**
Investigations of sea ice anisotropy, electromagnetic properties, strength, and under-ice current orientation [1980, 18p., eng] **35-1891**
Subsurface measurements of McMurdo Ice Shelf [1979, p.79-80, eng] **35-659**

Kovacs, J.M.
Modular heliportable shelter system for small camps [1981, p.313-332, eng] **35-2511**

Kovalenko, P.I.
Seismic signal device for mudflow danger [1980, p.101-110, rus] **35-1814**

Kovalev, E.G.
Possibilities of using the "method of superposition of solar activity epochs" in long-range ice condition forecasts for the Arctic seas [1980, p.89-93, rus] **35-3498**
Using the space-time structure of ice conditions in Arctic seas for long range forecasting [1980, p.55-60, rus] **35-3493**

Kovalev, E.P.
Digging-wheel excavator ETR-254 for trenching [1980, p.4-6, rus] **35-2621**

Kovalev, O.I.
Investigation of organic additive aggregation processes in frozen water-salt systems [1980, p.377-379, rus] **35-1388**

Kovalevskii, P.I.
New chapter of construction standards SNiP III-17-78 [1980, p.16-18, rus] **35-613**

Koval'kov, V.P.
Models of thermal interaction between linear sources of cold and surrounding media in the North [1979, p.34-39, rus] **35-4057**

Koval'skaia, N.N.
Frost resistance of steamed concretes containing surfactants [1980, p.13-15, rus] **35-470**

Kovda, A.V.
Using the coefficients of brightness of natural formations in the interpretation of satellite photographs [1980, p.123-127, rus] **35-3798**

Kovda, V.A.
Problems of rational development and preservation of soils in northern territories [1980, p.5-8, rus] **35-2252**

Kovrigin, I.M.
Possible complications in providing navigable conditions in the Ob'-Irtysh Basin with partial divergence of these rivers' flow [1980, p.142-143, rus] **35-3135**

Kozakov, V.N.
Concrete with combined chemical admixtures [1980, p.23-24, rus] **35-3007**

Kozarski, S.
Sedimentary and geomorphological consequences of the occurrence of naled sheets on the outwash plain of the Gas Glacier, Storkappland, Spitsbergen [1977, p.63-84, eng] **35-3622**

Kozhevnikov, I.G.
Instrument for measuring heat flux through enclosures [1979, p.127-131, rus] **35-4064**
Thermal and technical properties of enclosures built of asbestos-cement external panels [1979, p.77-80, rus] **35-4059**

Kozhevnikov, IU.P.
Space-time aspects of physiographic facies and landscape development forecasts [1980, p.243-248, rus] **35-343**

Kozhevnikov, N.N.
Calculating thermal regime of inflatable structures [1979, p.125-127, rus] **35-244**

Kozhevnikova, T.E.
Experience in predicting elements of the ice and thermal regime of the lower pools of hydroelectric stations [1980, p.945-949, eng] **35-2772**

Kozhobaev, K.A.
Effect of pore solution concentration and organic matter content on the thixotropic stabilization of clays [1976, p.92-94, eng] **35-2407**

Kozhova, O.M.
Trends in investigating ecology and environment protection of East Siberian water bodies [1980, p.96-104, rus] **35-1706**

Kozin, G.IU.
Designing preliminary heating devices for hydraulic drive systems of digging-wheel excavators [1979, p.60-67, rus] **35-808**

Kozitskii, I.E.
Determination of ice viscosity under field conditions [1980, p.107-109, rus] **35-1595**
Experimental study of temporary resistivity of spring ice to tension in a nonhomogeneous field of stresses [1980, p.78-87, rus] **35-1016**

Kozlov, IU.A.
Container transportation of superphosphate to the Far North [1980, p.13, rus] **35-543**

Kozlova, R.P.
Paludification of moraine landscapes in central Karelia [1970, p.46-47, rus] **35-2614**

Krattser, A.L.
Automatically raising shelters for winter concreting [1981, p.21-24, rus] **35-4284**

Kramer, T.J.
Design approach for thermal removal of snow and ice on automated-transportation-system guideways [1980, p.1-8, eng] **35-3784**

Krapivina, L.A.
Biology of antagonistic microbes in peat-bog soils of Siberia [1972, p.186-189, rus] **35-1377**

Krasheninnikov, M.V.
Classification of floods and their effects on natural environments and economic development of the Ob' and Chul'm river floodplains [1976, p.128-136, rus] **35-1191**
Problems in meteorology and hydrology of Siberia [1976, 218p., rus] **35-1189**
Surface water resources in the Tomsk region [1976, p.149-155, rus] **35-1193**

Krasil'shchikov, S.A.
Empirical determination of matrices of light scattering in ice [1980, p.119-128, rus] **35-381**

Krasiukov, V.A.
Seismic mudflow-alarm systems [1980, p.95-100, rus] **35-1813**
Seismic signal device for mudflow danger [1980, p.101-110, rus] **35-1814**

Krasnikov, N.D.
Experimental and analytical method of studying oscillations, stresses and stability of bases beneath foundations of machines [1981, p.7-21, rus] **35-4288**
Seismic stability of hydraulic earth structures [1981, 240p., rus] **35-2689**

Krasnoborov, I.M.
Hypothetic species in the flora of the Tuva ASSR [1981, p.112-119, rus] **35-3894**
New data on the phytogeography of Siberia [1981, 232p., rus] **35-3889**

Krasnopol'skii, B.Kh.
Infrastructure in the system of regional economic development complex of the North (Research methods) [1980, 145p., rus] **35-1280**

Krasnosel'skii, E.B.
Allowing for glaciochmatic factors in open-pit mining [1980, p.264-268, rus] **35-1256**

Krasnoshchekov, IU.N.
Changes in temperature regime of cryogenic soils in larch forests of the Central Khangay induced by felling [1980, p.136-137, rus] **35-2299**

Krasnovskaia, L.I.
Results of field experiments on modification of supercooled fog [1980, p.3-11, rus] **35-2693**

Krasnyi, I.M.
Airport pavements of fine-grained concrete [1980, p.25, rus] **35-1652**

Krasovitskii, B.A.
Temperature regime of an underground pipeline [1979, p.16-37, rus] **35-234**

Krass, M.S.
Two-step multidimensional regression analysis and prediction of ablation rate on glacier surfaces [1980, p.92-98, rus] **35-1234**

Krauklis, A.A.
Local geographic structures of the Angara River taiga [1973, p.3-1[illegible], rus] **35-764**
Long-period soil temperature variations in the dark conifer taiga of the Angara River area [1980, p.61-70, rus] **35-1705**
Taiga vegetation and environmental protection [1979, p.1674-1681, rus] **35-347**

Kravchenko, V.V.
Studying local runoff in the forest-steppe of the Angara River area [1980, p.97-102, rus] **35-3462**

Kravchuk, I.I.
Airport pavements of fine-grained concrete [1980, p.25, rus] **35-1652**

Kravchuk, S.V.
Ecologic-geographic analysis of the *Mitella nuda* L. spruce forest in the northern foothills of eastern Sayan [1981, p.37-52, rus] **35-3892**

Kravtsova, V.I.
Identification of avalanches on different scale satellite photographs of the Western Altai Mountains [1980, p.66-74, rus] **35-2976**

Krechetov, A.A.
Studying thunderstorms along buried communication cables in permafrost areas with lightning flash counters [1976, p.26-31, rus] **35-1190**

Kreider, J.R.
Ice force prediction using a limited driving force approach [1981, p.471-485, eng] **35-3454**

Kremer, L.K.
Long-period soil temperature variations in the dark conifer taiga of the Angara River area [1980, p.61-70, rus] **35-1705**

Kremnev, O.A.
Heat and mass transfer in massive rocks and in underground structures [1980, 383p., rus] **35-2874**

Krenke, A.N.
Calculating glacial runoff in Caucasus by the air temperature field at the equilibrium line of glacier alimentation (1980, p 31-37, 112-118, rus) **35-2812**
Common and proper features of the climatic regime of glaciers and their oscillations (1981, p 319-328, fre) **35-3742**
Glacial runoff into Central Asian rivers and possibilities of its control (1980, p 5-19, rus) **35-466**
Glacier systems of the Northeastern USSR (1980, p 17-33, rus) **35-1532**
Influence of river flow control on ice conditions in the Arctic Ocean (1980, p 287-292, rus) **35-1261**
Present glaciation and climate of the Caucasus (1981, p 241-264, fre) **35-3740**
Regime of glaciers (1980, p 20-23, rus) **35-2806**
Role of surface glaciation in fluvio-glacial balance of the Arctic (1980, p 11-21, rus) **35-1565**

Krest'iashin, S.I.
Use of satellites in surveying for urban construction (1981, 159p, rus) **35-4310**

Krestovnikov, G.A.
Basic technical requirements made of motor vehicles destined for use in the North (1981, 11p, eng) **35-4258**

Krimmel, R.
Comparison of mass balance and runoff at four glaciers in the United States, 1966 to 1977 (1980, p 138-143, rus) **35-1245**

Krimmel, R.K.
Ice and water balances, South Cascade glacier, 1975-1977 (1980, p 143-147, rus) **35-1246**

Krishnadev, M.R.
Low-temperature mechanical behavior of an "acicular" ferrite HSLA (High Strength-Low Alloy) line-pipe steel (1979, p.1941-1944, eng) **35-1780**

Krishnamurthy, K.
Part of snowmelt in the discharge of Himalayan Rivers (1980, p.37-39, 118-120, rus) **35-2813**

Kristensen, M.
Field experiments on antarctic tabular icebergs (1981, p.445-448, eng) **35-4342**

Krivolutskii, D.A.
Influence of high thorium content on soil fauna of central taiga (1980, p 120-124, rus) **35-1517**

Krivoshapkin, A.I.
Combined mining exploration for construction materials in southern Yakutia (1978, p.68-71, rus) **35-4113**

Krivoshein, B.L.
Models of thermal interaction between linear sources of cold and surrounding media in the North (1979, p.34-39, rus) **35-a057**
Thermal and hydraulic design of pipelines for oil and petroleum products (1981, 256p, rus) **35-3931**

Krokhina, A.M.
Microelement content in forest and cultivated loam soils of Karelia (1979, p 149-168, rus) **35-1419**

Kronik, IA.A.
Reshaping of artificial lake basins and shores in the cryolithozone (1980, p 120-129, rus) **35-766**
Thermal and filtration regimes of the Ust'-Khantai river-bed earth dam during first operation years of the hydroelectric power plant (1980, p 52-55, rus) **35-8**

Krothe, N.C.
Water chemistry in a permafrost environment, Alaska (1981, p 570-590, eng) **35-2525**

Krotova, Z.E.
Decorative plants for landscaping residential areas in Yakutia (1980, 106p, rus) **35-4098**
Testing decorative plants introduced in Yakutia (1980, p.4-14, rus) **35-4099**

Kruglikov, E.A.
Construction of the first 750 kv overhead line in mountains (1980, p.49-53, rus) **35-311**

Kruglov, A.A.
Evaluating variations in ice conditions of the Caspian Sea (1978, p 92-98, rus) **35-1001**

Krupskaia, L.T.
Role of long periods of seasonal freezing in the formation of forest litter in Amur region spruce forests (1980, p.85-86, rus) **35-2282**

Kruss, P.
Dynamics of crevasse pattern at Lewis Glacier, Mount Kenya (1979, p.201-207, eng) **35-3729**

Krutskikh, B.A.
Regularities governing changes in regimes of Arctic seas in natural hydrologic periods (1978, 91p, rus) **35-1282**

Kruus, J.
Remote sensing and cold climate hydrology (1979, p.403-413, eng) **35-426**

Krylov, B.A.
Critical strength of concretes with antifreeze admixtures (1979, p.27-28, rus) **35-474**

Krzewinski, T.G.
Present condition (1980) of the TAPS gravel workpad (1981, p 678-692, eng) **35-2530**

Ksenzova, A.A.
Effect of cryogenesis on physical properties and moisture regime of cryogenic meadow-swamp soils of the Bayka' Amur railroad area (1980, p 102-104, rus) **35-2287**

Kubanis, S.A.
Revegetation of disturbed sites along the Yukon River to Prudhoe Bay haul road (1980, p 16-29, eng) **35-578**

Kubota, H.
Study of snow melting in Mt. Asahidake, Hokkaido (1978, p 181-188, jap) **35-1185**

Kuchuk-IAtsenko, S.I.
Influence of butt-welding defects on the strength of joints at low temperatures (1980, p 1-3, rus) **35-3212**

Kuchuk, IU.
Operation of diesel electric power plants beyond the polar circle (1980, p 58-60, rus) **35-972**

Kudaibergenov, R.K.
Performance of bulldozers equipped with additional dismountable blades (1980, p 14, rus) **35-478**

Kudashov, E.A.
Introduction of new production testing methods for construction in conditions of the North (1980, 108p, eng) **35-987**

Kudoiarov, L.I.
Environmental impact of reservoirs of northeastern hydraulic power systems (1980, p 36-38, rus) **35-310**

Kudriavtsev, E.A.
Pressure kinetics during freezing of dispersed systems in a closed space (1978, p.51-55, rus) **35-62**

Kudriavtsev, V.A.
General principles of the theory of permafrost development (1981, p.7-24, rus) **35-4066**

Kudriavtseva, S.K.
Quantitative characteristics of turbulence in stratiform clouds and artificial crystallization zones (1980, p 124-137, rus) **35-2995**

Kuenzi, K.F.
Global snow cover of 1978-79 as observed with the NIMBUS-7 SMMR (1981, p 83-84, eng) **35-3435**

Kuhn, M.
Climate and glaciers (1981, p 3-20, eng) **35-3018**

Kuivinen, K.C.
Polar Ice Coring Office (PICO) drilling activities, 1979-80 (1980, p 76-77, eng) **35-3183**

Kukla, G.
Accuracy of operational snow and ice charts (1981, p 974-987, eng) **35-3589**
Climatic role of snow covers (1981, p 79-107, eng) **35-3023**

Kukushina, V.P.
Methodology of forecasting natural phenomena in Siberia (1980, 144p, rus) **35-148**

Kukushkin, B.M.
Preventing water pollution when building underwater pipelines (1980, p 21-22, rus) **35-504**

Kukushkin, V.A.
Construction-engineering properties of peat soils in the Komi ASSR (1980, p 19-20, rus) **35-1033**
Instantaneous deformation of peat in the general process of sagging ground consolidation (1980, p.10-12, rus) **35-623**

Kulagina, M.A.
Role of grass-shrub-stratum plants in the transformation of nutrient elements introduced by fertilizing herb-cranberry pine forests (1980, p 98-112, rus) **35-2481**

Kulai, G.A.
Microflora of mountain forest soils in the Urals (1974, p 147-150, rus) **35-1216**

Kul'chitskii, L.I.
Shear-strength anisotropy and the sustained strength of water saturated clay soils (1980, p 175-188, rus) **35-1352**

Kulebakin, P.G.
Equipment used in the development of saline soils and flood-plain lands in West Siberia (1980, p 145-148, rus) **35-3057**

Kulichevskaia, I.S.
Microbe associations and biologic activities of Alpine tundra soils in the Bol'shoy Annachag Range (1980, p.68-77, rus) **35-4336**

Kulikov, A.I.
Some functional interrelationships between the hydrothermal and cryogenic regimes of soils (1980, p 76-78, rus) **35-2277**

Kulikov, A.P.
Hydraulic truck-mounted crane KS-2572 (1980, p.6-7, rus) **35-538**
Truck-mounted hydraulic crane KS-3572 (1980, p 9-10, rus) **35-388**

Kulikov, A.S.
Closureless catch technique for studying vertical and horizontal distribution of pelagic organisms in the Arctic (1980, p.183-195, rus) **35-1323**
Cryopelagic fauna of the Central Arctic Basin (1980, p 97-111, rus) **35-1318**
Ecology of two Gammaridea and Mysidacea species in the cryopelagic biocenoses of the Central Arctic Basin (1980, p 111-118, rus) **35-1319**

Kulikov, G.V.
International geological congress, 26th, 1979. Hydrogeology, engineering geology and construction materials. Reports of soviet geologists (1980, 247p., rus) **35-1349**

Kulikov, IU.N.
Peculiarities of water-heat balance of the Vasyugan River region and ways of changing natural conditions in areas of oligotrophic paludification (1976, p 6-8, rus) **35-1367**
Remote sensing studies of the water component (1980, p 152-154, rus) **35-1923**

Kulikov, V.D.
Using dirigibles in pipeline repairs in West Siberia (1980, p 44-47, rus) **35-1608**

Kulikova, V.K.
Role of atmospheric precipitation in the nitrogen and ash-element cycle of spruce forests in Karelia (1970, p 93-94, rus) **35-2618**

Kulizhnikov, A.M.
Tree bark in road pavement construction (1980, p 124-127, rus) **35-1090**

Kul'nev, A.N.
Using soft enclosures in power engineering construction (1981, p 32-36, rus) **35-4230**

Kul'shin, V.A.
Peculiarities and conditions of formation of light podsol soils (1980, p 176-178, rus) **35-1342**

Kumai, M.
Disinfection of wastewater by microwaves (1980, 15p, eng) **35-2592**

Kumar, D.
Variable time step methods for one-dimensional Stefan problem with mixed boundary conditions (1981, p 251-259, eng) **35-3270**

Kunitskaia, I.V.
Dynamics of seasonally freezing layer in the Lake Baykal area (1980, p 106-113, rus) **35-3323**

Kunst, M.
Proton mobility in ice (1980, p 465-467, eng) **35-1370**

Kuntsevich, O.V.
Studying strength and frost resistance of mortars containing combined admixtures (1980, p.26-34, rus) **35-3527**

Kuperman, V.L.
Complex mechanization of concrete works (1981, p 12-15, rus) **35-4281**
Core of the Ust'-Khantai hydroelectric plant dam (1980, p 58-61, rus) **35-10**
Fall block technique used in building the Sayano-Shushenskaya dam (1981, p 15-18, rus) **35-4282**

Kupetskii, V.N.
Peculiarities of sea ice breaking by icebreakers (1981, p 89-91, rus) **35-3952**
Preparation of data for reports on ice observations from helicopters (1981, p 46-68, rus) **35-3942**

Kupriianov, A.P.
Studying some properties of frozen sands in the process of dry enrichment (1977, p 15-28, rus) **35-3806**

Kupriianov, V.V.
Using satellite information in solving hydrological problems (1980, p.3-9, rus) **35-2968**

Kuptsova, L.N.
New data on circulation of sea water and ice in the Southern Ocean (1980, p 3-18, rus) **35-1344**

Kurachev, V.M.
Saline soils of West Siberia (1981, 152p, rus) **35-3568**

Kuracheva, N.V.
New method of foundation protection from frost heave (1980, p.17, rus) **35-784**

Kuratova, E.S.
Development of a regional transportation system (1979, p 95-102, rus) **35-4106**

Kurbatov, N.I.
Experience and prospects for the development of pipeline transport in West Siberia (1981, p 14-16, rus) **35-2788**

Kurbatova, A.V.
Meteorological regime and heat balance of different landscape types in the Ob' River area of the north during interzonal redistribution of flow (1980, p 104-106, rus) **35-3124**

Kurchinser, M.I.
Developing means of transporting super-blocks (1981, p 11-12, rus) **35-3342**

Kurilova, IU.V.
Remote sensing studies of the water component (1980, p 152-154, rus) **35-1923**

Kurimo, H.
Deglaciation and early post-glacial hydrography in northern Kainuu and Perapohjola, north-east Finland. A glacial morphological study (1979, 64p + 1 map, eng) **35-994**
Depositional deglaciation forms as indicators of different glacial and glaciomarginal environments (1980, p 179-191, eng) **35-838**

Kuroedov, A.N.
Hydraulic truck-mounted crane KS-2572 (1980, p.6-7, rus) **35-538**
Truck-mounted hydraulic crane KS-3572 (1980, p 9-10, rus) **35-388**

Kuroiwa, D.
Fracture strength of polycrystalline ice containing KCl (1978, p.1-9, jap) **35-1171**

Kurtz, D.D.
Clast shape as an indicator of transport and depositional mechanisms in glacial marine sediments, George V Continental Shelf, Antarctica (1980, p 813-820, eng) **35-884**

Marine sediment core descriptions [WSOE 68, 69, 70, Deep Freeze 79 (1981, 60p., eng)] 35-2148
Observations of sediment-laden icebergs in antarctic waters - implications to glacial erosion and transport (1980, p.387-396, eng) 35-1502
Sedimentation on the Antarctic continental slope (1979, p.265-283, eng) 35-327
USCGC *Glacier* Deep Freeze 80 (1980, p.58-75, eng) 35-3191

Kurushin, A.D.
Induced polarization of concretes, containing antifreeze admixtures, in a direct current field (1980, p.52-58, rus) 35-3529

Kurzaev, A.B.
Mobile water phase on ice surfaces (1974, p.60-68, eng) 35-3628

Kurzhunov, A.N.
Possible changes in thermal regime of the Ob' river estuary after flow diversion (1980, p.78-81, rus) 35-3117

Kuskov, A.P.
Morphostructural map of the central part of the Baykal-Amur railroad area compiled from spaceborne photographic data (1979, p.56-63, rus) 35-777

Kuskovskii, V.S.
Influence of high water stage on shores of deep reservoirs of Siberia (the Krasnoyarsk reservoir taken as an example (1980, p.140-143, rus) 35-1341
Redistribution and preservation of water resources in Siberia (1980, p.76-81, rus) 35-1428

Kustov, I.V.
Soils and geochemical processes in southern taiga of the Irtysh River geosystems (1979, p.51-62, rus) 35-2323

Kusu, S.
Studies of the perennial snow patch in Karasawa, Hotakadake (1979, p.165-170, jap) 35-264

Kusunoki, K.
Measured and computed temperature profiles at Mizuho Station, East Antarctica (1981, p.239-246, eng) 35-3035
Outline of glaciological research in the USSR (1980, p.71-73, jap) 35-1067
POLEX-South data, Part 2 - Micrometeorological data at Mizuho Station, Antarctica in 1979 (1981, 321p., eng) 35-3598
Progress of Japanese glaciological research in Antarctica (1981, p.55-61, eng) 35-4207
Research on snow and ice (Review of Geophysics and space physics, Vol 17, No 6, September 1979) (1980, p.33-69, jap) 35-1066
Variations of sea ice conditions in Lutzow-Holm Bay area, in Antarctica in the last 20 years (1981, p.171-176, eng) 35-3028

Kuthin, J.N.
Pore-water pressure profile of a freezing soil (1980, p.31-36, eng) 35-1991

Kutschale, H.W.
Pulse propagation in the central Arctic Ocean (1981, 33 leaves, eng) 35-4256

Kutsenogii, K.P.
Determining the ice forming activity in diffusion chambers (1980, p.22-29, rus) 35-785
Possible mechanisms of ice formation on silver iodide particles in diffusion and cloud chambers (1980, p.57-63, rus) 35-768
Studies of silver iodide ice-forming activity - 2 Influence of aerosol particle size and structure on the ice-forming activity (1980, p.61-65, eng) 35-1778

Kutuza, B.G.
Radiophysical methods of sounding atmosphere and ocean surface from space (1981, p.63-70, rus) 35-3542

Kuvaev, V.B.
Vertical distribution of plants in the Putorana Mountains (1980, 261p., rus) 35-2051

Kuvaeva, G.M.
Methods of studying hailstone structure (1975, p.114-121, rus) 35-1619

Kuvaldin, A.
Preventing the freezing of cargo (1980, p.17, rus) 35-1643

Kuzay, T.M.
Penetration of a freezing liquid into an annular channel (1979, p.95-102, eng) 35-3352

Kuzikov, I.E.
Biomass dynamics in green-moss fir forests of different age (1972, p.16-21, rus) 35-1374

Kuz'menko, E.I.
Optimality principle and allometric relations of indices in a geosystem (1978, p.9-21, rus) 35-3820
Stability of tree stratum in relation to the study of optimal conditions in geosystems of the Konda-Sos'va Priob'e (1978, p.22-42, rus) 35-3821

Kuz'menko, V.G.
The goal is efficiency and high quality work (1980, p.2-4, rus) 35-444

Kuz'menko, V.V.
Problems of mechanizing the laying of underground cables (1981, p.17-18, rus) 35-2852

Kuz'min, A.V.
Distribution of some adventitious and local plants in the Murmansk area (1980, p.108-117, rus) 35-3073

Kuz'min, G.P.
Calculating sublimation weathering of disperse grounds in underground excavations (1981, p.70-80, rus) 35-3286

Kuz'min, I.D.
Evaluating frost resistance of ceramic materials for walls (1980, p.22-23, rus) 35-348

Kuz'min, K.K.
Winter concreting (1981, p.19-21, rus) 35-4283

Kuz'min, R.O.
Cryogenic landscapes of Mars (1979, p.50-65, rus) 35-1830
Determining depth to the top of ice-bearing rocks on Mars from the morphology of fresh craters (1980, p.1445-1448, rus) 35-76

Kuz'min, V.A.
Differentiation of soil cover of the Stanovoy Uplands according to cryogenesis and natural conditions (1980, p.71-73, rus) 35-2275
Soils of the Baykal-Amur railroad area west of Lake Baykal (1980, p.11-98, rus) 35-1629
Water transfer of chemical elements in the north-shore landscapes of Lake Baykal (1973, p.23-32, rus) 35-765

Kuz'mina, I.V.
Results of studying geobotanical indices for engineering-geological and geocryologic purposes (1971, p.23-28, rus) 35-756

Kuz'minykh, F.
Summing up the results of icebreaker operation (1980, p.29-30, rus) 35-907

Kuznetsov, A.L.
Preventing the icing of stationary gas-turbine plants (1980, 120p., rus) 35-1655

Kuznetsov, I.M.
Assessing several characteristics of antarctic ice (1980, p.88-92, rus) 35-1458
Iceberg distribution in the Atlantic sector of East Antarctica (1977-78) (1980, p.82-87, rus) 35-1457

Kuznetsov, IU.N.
Participating in major construction projects (1980, p.9-12, rus) 35-2632

Kuznetsov, IU.V.
Cryolithologic structure and hydrochemical composition of Upper Pleistocene and Holocene deposits in the Mamontovaya Mountain (1976, p.12-21, rus) 35-1145
Material composition of the Upper Pleistocene and Holocene deposits in the Chukochiy outcrop (1979, p.136-144, rus) 35-1834

Kuznetsov, L.A.
Preventing the icing of stationary gas-turbine plants (1980, 120p., rus) 35-1655

Kuznetsov, N.A.
Snow accumulation on the GGP glacier (northern slope of the Gissar Range) (1980, p.105-111, rus) 35-720

Kuznetsova, I.L.
Engineering-geological conditions of permafrost in the coastal plains of Yakutia and its resistance to the disturbance of natural environments (1980, p.75-107, rus) 35-2192

Kuznetsova, T.P.
Origin and conditions of formation of Upper Pleistocene ice-bearing silts in Chukochiy Yar, Kolyma lowland (1979, p.110-135, rus) 35-1833

Kuzovlev, G.M.
Laying pipes in swamp crossings (1980, p.15-16, rus) 35-920

Kvalheim, K.A.
Parking deck deterioration from chlorides (1981, p.438-448, eng) 35-2517

Kvenvolden, K.A.
Biogenic and thermogenic gas in gas-charged sediment of Norton Sound, Alaska (1981, p.244-250, eng) 35-3240
Hydrocarbon gases in near-surface sediment of northern Bering Sea (Norton Sound and Chirikov Basin) (1981, p.215-243, eng) 35-3239
Hydrocarbon gases in sediments from Kodiak Shelf (1981, p.59-112, eng) 35-3237
Thermogenic gases in near-surface sediments of Norton Sound, Alaska (1981, p.251-260, eng) 35-3241

Kvillner, E.
Plant communities of the Stordalen mire - A comparison between numerical and non-numerical classification methods (1980, p.113-125, eng) 35-1476
Plant distribution and environment of a subarctic mire (1980, p.97-111, eng) 35-1475

Kvinge, T.
Studies of under-ice conditions at J-9, Ross Ice Shelf, during the 1979 winter (1979, p.61-63, eng) 35-650

Kvilividze, V.I.
Mobile water phase on ice surfaces (1974, p.60-68, eng) 35-3628

Kyle, P.R.
Fission track ages of Marie Byrd Land volcanic rocks (1980, p.19, eng) 35-3169

Kyrbasov, S.V.
Influence of basic physical characteristics on the strength of frozen ground (1980, p.45-53, rus) 35-3284

Lantsch, W.
Methods for calculating the travel distance and impact pressure of flowing avalanches (1981, 125p., ger) 35-4211

Labine, C.
Tundra climates (1981, p.81-114, eng) 35-3378

Lachance, M.
Critical air spacing factors for concretes submitted to slow freeze-thaw cycles (1981, p.282-291, eng) 35-4315

LaChapelle, E.R.
Comparison of observed and calculated avalanche velocities (1980, p.309-314, eng) 35-1824
Fundamental processes in conventional avalanche forecasting (1980, p.75-84, eng) 35-2349
Snow-pack structure stability analyzed by pattern-recognition techniques (1980, p.506-511, eng) 35-2392

Lachininskii, V.A.
Problems in developing Alaska and North Canada oil and gas resources, Pt. 1 (1979, p.95-101, rus) 35-751

Laforte, J.L.
Influence of electro-freezing on ice formation on high-voltage DC transmission lines (1981, p.15-25, eng) 35-2415

Lagoida, A.V.
Critical strength of concretes with antifreeze admixtures (1979, p.27-28, rus) 35-474

Laidley, T.E.
Load bearing capacity test on a freshwater ice cover (1980, 50p., eng) 35-565

Laine, E.P.
New evidence from beneath the western North Atlantic for the depth of glacial erosion in Greenland and North America (1980, p.188-198, eng) 35-3679

Lakhtina, O.V.
Permafrost dynamics in Transbaikal at the end of the Late Pleistocene-Holocene (1981, p.133-125, rus) 35-4076

Lal, V.B.
Snow and glacier contributions in a Western Himalayan catchment (1980, p.121-125, rus) 35-1240

Lallin, C.
Oceanographic data report from the north shore of the Gulf of St. Lawrence (1980, 52p., eng) 35-2011

LaMarca, J.J.
Rail transit winterization technology and systems operations study (1980, 157p., eng) 35-1848

Lamb, R.C.
Importance of water supply forecasts in power planning (1980, p.83-87, eng) 35-2230

Lambert, G.A.
Solidification in two-phase flow (1980, p.784-786, eng) 35-1680

Lamin, L.A.
Root system development of woody plants in soils unfavorable for forestry (1978, p.28-33, rus) 35-1094

Landy, M.P.
Evaluation of differential pulse anodic stripping voltammetry at a rotating glassy carbon electrode for the determination of cadmium, copper, lead and zinc in antarctic snow samples (1980, p.39-49, eng) 35-1710
Short-term fluctuations in heavy metal concentrations in antarctic snow (1981, p.144-146, eng) 35-3368
Trace metals in remote Arctic snows: natural or anthropogenic (1980, p.574-576, eng) 35-1218

Lane, J.F.
Development of a new type of model ice for refrigerated towing basins (1980, 31p., eng) 35-1588

Lanfear, K.J.
Oilspill risk analysis for the Kodiak Island (proposed sale 46) (1980, 40p. + 22 appends., eng) 35-155

Lang, H.
Results from tracer experiments on the water flow through the Aletschgletscher (1979, p.209-218, eng) 35-3730
Theoretical and practical aspects of calculating runoff from glaciated areas (1980, p.107-115, rus) 35-1237

Lang, T.E.
Calculations of avalanche friction coefficients from field data (1980, p.109-119, eng) 35-2354
Comparison of observed and calculated avalanche velocities (1980, p.309-314, eng) 35-1824
Constitutive relation for the deformation of snow (1981, p.3-14, eng) 35-2414
Modeling of snow flow (1980, p.131-140, eng) 35-2356
Numerical simulation of snow avalanche impact on structures (1980, 21p., eng) 35-849
Scale modeling of snow-avalanche impact on structures (1980, p.189-196, eng) 35-2361
Snow-avalanche impact on structures (1980, p.445-455, eng) 35-1507

Langham, E.
Global snow cover of 1978-79 as observed with the NIMBUS-7 SMMR (1981, p.83-84, eng) 35-3435

Langham, E.J.
Physics and properties of snowcover (1981, p.275-337, eng) 35-3752

Langhorne, P.
Crystal anisotropy in sea ice (1980, p.189-224, eng) 35-552

Langhorne, P.J.
Remote estimation of the properties of sea ice, ice core analysis, Beaufort Sea, March 1979 (1980, 172p., eng) 35-335

Langway, C.C., Jr.
Firn densification - an empirical model (1980, p.375-385, eng) 35-1501

Lannefors, H.
Chemical composition of arctic haze Ny-Alesund, Spitzbergen (1981, p 162-171, eng) **35-3487**

Lansdown, A.M.
Stackwall - small log buildings for remote areas (1981, p 333-347, eng) **35-2512**

Lansley, M.
Deepwater vibrator operations - Beaufort Sea, Alaska, 1979 winter season (1981, p 172-181, eng) **35-2578**

Lantratova, A.S.
Frost resistance of maple trees introduced in the North (1977, p 3-13, rus) **35-2691**

Lantz, R.J.
Barrow gas fields - N. Slope, Alaska (1981, p 197-200, eng) **35-2706**

Lanzerotti, L.J.
Ice in the polar regions of the moon (1981, p 3949-3950, eng) **35-3908**

Lanzhou Institute of Glaciology and Cryopedology
New statistics on area of glaciers in China (1980, p 7-10, chi) **35-118**

Laperriere, J.
Climatic changes in the interior Alaska (1980, p 16-23, eng) **35-1560**

Lapin, IU.
Summing up the results of icebreaker operation (1980, p 29-30, rus) **35-907**

Lapina, I.IA.
Soviet glaciological studies in 1979 (1980, p 5-13, rus) **35-1219**

Lapp, D.J.
Proceedings (1981, 7 sections, eng) **35-3656**

Laptev, M.N.
Avalanche cadaster content and the evaluation of avalanche danger (1980, p 58-64, rus) **35-77**

Laptev, V.I.
Description of the mudflows of August 3-4, 1977, in the Kumbel'su and Bol'shaya Almatinka river basins (1980, p 55-58, rus) **35-1807**

Laptiev, P.P.
Hydrometeorological provisions for the Baykal Amur railroad (1980, p 3-10, rus) **35-1791**

Lardeau, J.P.
Comparison of snow cover retreat calculated by the CEQUEAU hydrologic model to that estimated with the help of ESSA-8 satellite imagery (1979, p 424-448, fre) **35-428**

Larina, T.B.
Age of ice in drill holes at Vostok and Vostok-1 (1980, p 41-48, rus) **35-2030**
Borehole compression in antarctic ice cover (1980, p 54-58, rus) **35-2032**
Variation in ice sheet thickness at Vostok and Vostok-1 (1980, p 49-53, rus) **35-2031**

Larionova, N.A.
Geochemical and physico-chemical aspects of fabric formation in soil stabilization using fly-ashes (1980, p 204-212, rus) **35-1354**

LaRock, P.A.
Adenosine triphosphate (ATP), chlorophyll, and organic nitrogen in endolithic microbial communities and adjacent soils in the dry valleys of southern Victoria Land (1980, p 164-166, eng) **35-3193**

Larrance, J.D.
New sediment trap and particulate flux measurements in Lower Cook Inlet, Alaska (1979, p 269-282, eng) **35-3810**

Larsen, A.
Problems in testing seeds of revegetation species (1980, p 204-206, eng) **35-590**

Larsen, B.
Topographic control of the polar front off southern Greenland (1979, p 63-69, ger) **35-2645**

Larsen, B.R.
Distribution of trace elements in bottom sediment of northern Bering Sea (1981, p 445-567, eng) **35-3249**

Larsen, J.A.
Boreal ecosystem (1980, 500p., eng) **35-1913**

Larsen, M.C.
Geological, geochemical and geotechnical observations on the Bering Shelf, Alaska (1980, Var.p., eng) **35-2538**
Sedimentary processes and potential geologic hazards on the sea floor of the northern Bering Sea (1980, p 247-261, eng) **35-4143**

Larson, D.A.
Uniqueness of steady state flows of glaciers and ice sheets (1980, p 333-345, eng) **35-2243**

Larson, E.D.
Freezing on finned tube for either conduction-controlled or natural-convection-controlled heat transfer (1981, p 273-284, eng) **35-3272**

Lasch, J.E.
Special mooring systems using remote controlled quick disconnects for Beaufort Sea drilling operations (1980, p 339-344, eng) **35-3638**

Lassila, M.
Problems of moraine morphology: Rogen moraine and Blattnick moraine (1980, p 271-274, eng) **35-2141**

Latham, J.
Triggering of lightning by corona from ice hydrometeors or colliding raindrops (1977, p 618-622, eng) **35-3781**

Laukhin, IU.A.
Liquid nitrogen technique of artificial rock freezing when sinking shafts (1980, p 17-18, rus) **35-2636**

Laumann, M.
Deicing of airfields (1980, 27p., eng) **35-992**

Laurentius, T.B.
Load bearing capacity test on a freshwater ice cover (1980, 50p., eng) **35-565**

Lauscher, F.
New analysis of measurements of snow evaporation made by H. Kohler at Haldde Observatory during the winter 1920-1921 (1978, p 193-198, ger) **35-33**

Lavender, S.T.
Discharge water level relationship for ice cover stability (1981, p 112-120, eng) **35-2546**

Lavrenko, E.M.
Vegetation of the European part of the USSR (1980, 429p., rus) **35-1491**

Lavrov, G.E.
New design of excavators and bulldozers (1980, p 25-27, rus) **35-626**

Lavrov, S.A.
Applying stable and radioactive isotopes to studying moisture migration to the freezing front (1981, p 164-170, rus) **35-3301**
Gamma-method of studying soil density and water migration during freezing (1980, p 76-81, rus) **35-1872**

Lavrushin, IU.A.
Some general problems of the formation of moraine sediments (1980, p 123-135, rus) **35-809**

Lazarev, E.I.
Radar video pulse device for measuring the thickness of sea ice as a new promising means of ice reconnaissance (1981, 16p., eng) **35-2590**
Using radar video pulse equipment for measuring ice cover thickness during the expedition of the atomic icebreaker *Arktika* to the north pole (1981, p 117-119, rus) **35-3958**
Using radar video pulse equipment for measuring ice cover thickness in summer (1981, p 113-116, rus) **35-3957**

Lazareva, N.A.
Studying thermal balance of developing areas of northwestern Siberia (1980, p 19-23, rus) **35-3308**

Lazareva, V.G.
Work-camp living complexes for the North (1978, 152p., rus) **35-1699**

Lazarevskaia, V.I.
Evaluating changes in the dates of ice breakup on rivers due to runoff diversion (1980, p 20-32, rus) **35-1012**

Lazutkin, A.G.
Hydropneumatic impact systems of working parts of mining and road construction machines (1980, 199p., rus) **35-1149**

Leaf, C.F.
Process-oriented model for simulating avalanche danger (1980, p 53-63, eng) **35-2547**

Learning, F.R.
Controlling iceberg roll stability during towing around drillships (1981, p 109-114, eng) **35-3446**

Lebedenko, IU.P.
Experimental study of moisture migration and ice release in the frozen zone of thawing soils (1976, p 89-91, eng) **35-2405**

Lebedev, A.V.
Formation of ground water balance in the USSR (1980, 287p., rus) **35-345**

Lebedev, IU.M.
Human influence on development of diatomaceous algae growing in the Pil'da River (the Udyl' Lake Basin) (1979, p 64-76, rus) **35-1521**

Lebedev, V.M.
Anmangynda River naled, its regime and role in the water balance of the river basin (1980, p 86-93, rus) **35-2879**
Bulldozer-pusher DZ-121 with scraping equipment (1980, p 6-7, rus) **35-323**

Lebedev, V.P.
Aerial ice surveying for navigation (1981, p 5-13, rus) **35-3934**

LeBlond, P.H.
Oceanography (1978, p 207-233, eng) **35-3927**

Leck, M.A.
Germination in Barrow, Alaska, tundra soil cores (1980, p 343-348, eng) **35-1669**

Leck, R.P.
Ice depolarization statistics for 19-GHz satellite-to-earth propagation (1980, p 536-550, eng) **35-2412**

Leckie, R.M.
Cape Spirit mirabilite beds (1979, p 50-52, eng) **35-642**
Scallop Hill Formation and associated Pliocene marine deposits of southern McMurdo Sound (1979, p 54-56, eng) **35-645**

Lecordier, J.C.
Influence of conduction on the transfer function of cold wires at very low frequencies, experimental results (1981, p 103-114, fre) **35-3626**

Ledbetter, C.B.
Post occupancy evaluation of a planned community in Arctic Canada (1980, 27p., eng) **35-2596**
Post occupancy evaluation of a remote Australian community, Shay Gap, Australia (1980, 57p., eng) **35-2600**

Ledenev, V.V.
Influence of the laying depth of a horizontally loaded foundation on the bearing strength of underlying clays (1980, p 42-47, rus) **35-227**

Lee, C.R.
Toxic volatile organics removal by overland flow land treatment (1981, 14p., eng) **35-2894**

Lee, C.W.
Identification of lower extremity dynamics during snow skiing (1980, p 123-130, eng) **35-2154**

Lee, D.O.
Forced convection melting heat transfer in a tube for a two component system (1979, p 55-68, eng) **35-3349**

Lee, J.J.
Melting of a vertical ice wall by free convection into fresh water (1981, p 13-17, eng) **35-2147**

Lee, S.
Limiting mechanisms of dislocation motion in ice (1979, 118p., eng) **35-1186**

Legere, A.
Ecology of a black spruce (*Picea mariana*) clonal population in the hemiarctic zone, northern Quebec: population dynamics and spatial development (1981, p 261-276, eng) **35-4259**

Legg, T.E.
Palynology of Pinedale sediments, Devlins Park, Boulder County, Colorado (1980, p 319-333, eng) **35-1668**

Leggat, L.J.
LNG carrier underwater noise study for Baffin Bay (1981, 145 p., 14 figs., eng) **35-4223**

Legs, - S.F.
Glac... geology of Grand Manan Island, New Brunswick (1980, p 440-452, eng) **35-1263**

Leggett, D.C.
Improved enzyme kinetic model for nitrification in soils amended with ammonium - I. Literature review (1980, 20p., eng) **35-2583**
Overland flow removal of toxic volatile organics (1981, 16p., eng) **35-2581**
Toxic volatile organics removal by overland flow land treatment (1981, 14p., eng) **35-2894**

Leibundgut, C.
Results from tracer experiments on the water flow through the Aletschgletscher (1979, p 209-218, eng) **35-3730**

Leide, J.E.
Soil development and rock weathering in the Ellsworth Mountains, Antarctica (1980, p 33-34, eng) **35-3170**

Leidersdorf, C.B.
Slope protection for artificial exploration islands off Prudhoe Bay (1981, p 437-448, eng) **35-3451**

Lekhatinov, A.M.
Development of exogenic geologic processes in different structural-tectonic and climatic areas of the Baykal Amur railroad area (1978, p 99-101, rus) **35-16**

Lekumovich, G.S.
Tests of driven piles in slump-prone soils under the effect of horizontal and elastic loads (1980, p 107-110, eng) **35-1385**

Leliukh, M.I.
Deep-seated, covered and armored karst of the upper reaches of the Alakit River (Yakutia) (1980, p 942-944, rus) **35-305**

Lemaire, F.
Studies on the basic properties of standard concrete subjected to extended freeze-thaw cycles (1980, p 407-420, fre) **35-834**

Leman, L.D.
Water and sewer utilities for Barrow, Alaska (1980, p 484-506, eng) **35-2135**

LeMasurier, W.E.
Fission track ages of Marie Byrd Land volcanic rocks (1980, p 19, eng) **35-3169**
Tillite, glacial striae, and hyaloclastite associations on Hobbs Coast, Marie Byrd Land (1979, p 48-50, eng) **35-641**

Lemke, P.
Stochastic dynamic analysis of polar sea ice variability (1980, p 2100-2120, eng) **35-2473**

Lenggenhager, K.
Periodically interrupted, long, narrow ice lanes on high-level windows (1980, p 245-248, ger) **35-986**

Leningrad. Glavnaia geofizicheskaia observatoriia
Recent basic and applied investigations of the A.I. Voeikov Main Geophysical Observatory (1977, 914p., rus) **35-900**

Leonov, A.I.
Excavation of the Severo-Muyskiy tunnel (1980, p 11-14, rus) **35-1527**

Leonov, E.G.
Influence of solid phase concentration in drilling mud on mechanical speed of drilling in permafrost (1980, p 27-29, rus) **35-1609**

Leonov, O.N.
Installation of cylindrical reservoirs in the Far North (1981, p 47-48, rus) **35-4233**

Lepnev, E.N.
Heat release of plugging cement hardening at low and subzero temperatures [1978, p.46-50, rus] **35-61**
Lepparanta, M.
On the drift and deformation of sea ice fields in the Bothnian Bay [1980, 79p., eng] **35-1758**
Statistical features of sea ice ridging in the Gulf of Bothnia [1980, 46p., eng] **35-4181**
Leppavuori, E.K.M.
Creep of fresh water ice at high homologous temperatures [1976, 162p., eng] **35-4176**
Lerner, R.M.
Measurement of the microwave properties of sea ice at 90 GHz and lower frequencies [1981, p.4283-4289, eng] **35-3914**
Leshchikov, F.N.
Engineering geology of East Siberia in relation to the rational development of natural resources [1980, p.45-53, rus] **35-1704**
Lev, V.D.
Temperature spectrum of ground water crystallization [1980, p.16-20, rus] **35-2770**
Levinson, R.V.
High-strength pipes for overhead electrical contact systems [1981, p.6-7, rus] **35-2076**
Levitskii, V.IU.
Geothermal studies in the Baykal-Angarakan River area of the Baykal Amur railroad [1980, p.139-153, rus] **35-139**
Levkovskii, E.P.
Cleistogamy in Arctic grasses [1981, p.116-120, rus] **35-3222**
Levkovskii, V.P.
Cleistogamy in Arctic grasses [1981, p.116-120, rus] **35-3222**
Lewis, C.F.M.
Ice scour studies on the Labrador shelf [1980, p.264-265, eng] **35-3097**
Lewis, E.L.
Oil in sea ice [1976, 26p., eng] **35-2247**
Lewis, J.
Icebergs on the Grand Banks - oil and gas considerations [1981, p.109-114, eng] **35-4014**
Lewis, J.B.
Oceanographic data report from the north shore of the Gulf of St. Lawrence [1980, 52p., eng] **35-2011**
Lewis, J.C.
Controlling iceberg roll stability during towing around drillships [1981, p.109-114, eng] **35-3446**
Iceberg detection for Canadian frontier production [1981, p.115-122, eng] **35-3447**
Lewis, M.C.
Control of tundra plant allocation patterns and growth [1980, p.140-185, eng] **35-1934**
Li, G.
Application of numerical go-round-about tester in the study of frozen soil [1980, p.26-28, chi] **35-2657**
Li, G.E.
Forecasting temperature regime of an earth fill embankment and its base [1981, p.121-134, rus] **35-3290**
Li, H.
Mathematical model for dynamics of pack ice in the Arctic Ocean and its surrounding seas [1977, 23p., eng] **35-1592**
Li, J.
Basic features of the meltwater of Batura Glacier [1980, p.111-132, chi] **35-4033**
Calculating the peak discharge of Batura Glacier [1980, p.133-145, chi] **35-4034**
Mud-rock flows in the vicinity of Batura Glacier [1980, p.146-152, chi] **35-4035**
On the formation and future aspect of glacial mud-rock flow in Baltbare gully [1980, p.22-25, chi] **35-83**
Recent advances of the study on existing glaciers in Qing-Zang Plateau [1980, p.11-14, chi] **35-119**
Li, L.
Characteristics of underground ice in the District of Fenghuo Shan along the Qing-Zang highway [1980, p.31-35, chi] **35-123**
Li, N.
Basic features of the meltwater of Batura Glacier [1980, p.111-132, chi] **35-4033**
Calculating the peak discharge of Batura Glacier [1980, p.133-145, chi] **35-4034**
Mud-rock flows in the vicinity of Batura Glacier [1980, p.146-152, chi] **35-4035**
On the formation and future aspect of glacial mud-rock flow in Baltbare gully [1980, p.22-25, chi] **35-83**
Li, W.
Designing and making of snow densitometer [1980, p.30-31, chi] **35-2660**
Measurement of ice dielectric coefficient and its application in glaciological research [1980, p.51-53, chi] **35-2667**
Lian, H.
Preliminary experimental study on the instantaneous strength of frozen sand [1980, p.37-40, chi] **35-86**
Liang, F.
Application of airphoto in the study of periglacial geomorphic dynamics [1980, p.72-73, chi] **35-2675**
First experiments in the application of satellite photograph to the tectonic talik in Kekexili region, Qinghai [1980, p.61-62, chi] **35-2671**
Preparation of synthetic image map of permafrost in the north of Tuo-Tuo River [1980, p.70-71, chi] **35-2674**
L'ianos-Mas, A.V.
Cryogenic structure and facies changes in the ice-bearing loess (Edoma) series of the Duvannyy Yar, Kolyma lowland [1979, p.145-156, rus] **35-1835**
Liao, C.
Structure and changing shape, due to ice melting, of the Quaternary stratum of the middle reaches of Hei-lung-chiang River [1979, p.61-66, chi] **35-2904**
Liapunova, I.B.
Dates of ice clearing of the Danube River [1980, p.100-112, rus] **35-1019**
Liashchenko, V.
Experience in ice breaking [1980, p.17, rus] **35-909**
Liber, I.S.
Design of heating and ventilation for residential buildings in the Far North [1980, 191p., rus] **35-1576**
Lichti-Federovich, S.
Contribution to the diatom flora of Arctic Canada: Report 1. Arctic representatives of the genus *Navicula* [1981, p.57-62, eng] **35-3083**
Liebert, J.
Geodetic-astronomical activities during the 8th and 17th SAE [1980, p.51-53, ger] **35-2434**
Lied, K.
Empirical calculations of snow-avalanche run-out distance based on topographic parameters [1980, p.165-177, eng] **35-2359**
Natural-hazard maps for land-use planning in Norway [1980, p.331-343, eng] **35-2376**
Liestol, O.
Airborne radio echo sounding of glaciers in Svalbard [1980, p.261-266, eng] **35-943**
Permafrost conditions in Spitsbergen [1980, p.23-28, eng] **35-1990**
Supra-glacial lakes in Spitsbergen [1980, p.89-92, eng] **35-254**
Lievre, C.
New approach to the morphological stability of the Stefan problem [1980, p.119-133, eng] **35-1497**
Likhtenshtein, E.L.
Methods and results of studying the Medeo artificial skating rink [1980, p.249-254, rus] **35-1253**
Lilienberg, D.A.
Comparative geomorphology of mountain systems of the Alps and Caucasus [1981, p.313-318, fre] **35-3741**
Lin, F.
On selection and evaluation of the sources of water supply in the permafrost regions in Ta-Xiao Xing An Ling [1980, p.32-36, chi] **35-85**
Lin, S.
Differentiation of some gravels dynamo-texture [1980, p.17-20, chi] **35-81**
Lind, D.A.
Physics of snow and avalanche phenomena [1981, p.103-114, eng] **35-1783**
Linder, S.
Photosynthesis of *Sphagnum* in different microhabitats on a subarctic mire [1980, p.181-190, eng] **35-1480**
Lindmark, B.
Till-sampling methods used for sheelite in Kaustinen, Finland [1977, p.44-48, eng] **35-2724**
Lindsay, D.G.
Sea ice atlas of Arctic Canada 1969-1974 [1977, 219p., eng] **35-2630**
Lindsay, R.M.
Physical environment of the eastern Bering Sea March 1979 [1980, 119p., eng] **35-3469**
Lindsay, R.W.
Turbulent heat flux from Arctic leads [1979, p.57-91, eng] **35-159**
Lindzen, R.S.
Role of polar regions in global climate, and a new parametrization of global heat transport [1980, p.2064-2079, eng] **35-3652**
Linehan, J.H.
Solidification in two-phase flow [1980, p.784-786, eng] **35-1680**
Linell, K.A.
Design and construction of foundations in areas of deep seasonal frost and permafrost [1980, 310p., eng] **35-886**
Design of foundations in areas of significant frost penetration [1980, p.118-184, eng] **35-1975**
Soil and permafrost surveys in the Arctic [1981, 279p., eng] **35-4128**
Linevich, N.L.
Evaporation from swamps in the forest zone of West Siberia [1980, p.140-147, rus] **35-3422**
Thermal regime of soils in southern taiga of the Irtysh River area during warm periods [1980, p.183-195, rus] **35-2491**
Ling, C.H.
Continuum sea ice model for a global climate model [1980, p.187-196, eng] **35-2169**
Lingle, C.S.
Last great ice sheets: a global view [1981, p.263-317 + 10 sheets, eng] **35-2068**
Tidal flexure of Jakobshavns Glacier, West Greenland [1981, p.3960-3968, eng] **35-3909**
Linlor, W.I.
Snow electromagnetic measurements [1980, p.93-117, eng] **35-1738**
Lipenkov, V.IA.
Some features of snow accumulation on a Mirnyy-Vostok profile [1980, p.59-65, rus] **35-2033**
Lipkind, Z.A.
Pavement elements made of frost resistant, colored sand-concrete [1980, p.8-10, rus] **35-472**
Lipnitskii, M.E.
Facings of dome-shaped structures built under severe climatic conditions [1981, 136p., rus] **35-3864**
Lipsett, A.W.
Dynamic structural response of a massive pier [1979, 47p., eng] **35-116**
Dynamic tests and analysis of a massive pier subjected to ice forces [1980, p.432-441, fre] **35-835**
Liptak, R.E.
Raised pavement markers at hazardous locations [1979, 16p., eng] **35-2054**
Lis, L.S.
Electrophysical properties of peat and their practical application [1980, 176p., rus] **35-937**
Lisafin, V.P.
Distribution of thermal insulation along a hot oil pipeline [1980, p.4-5, rus] **35-924**
Liser, I.IA.
Forecasting maximal water levels during ice breakup on the Ob' River near Kolpashevo [1980, p.3-8, rus] **35-451**
Forecasting maximum water level during ice jamming in the pinch-out area of the Novosibirsk water reservoir (Ob' River) [1981, p.11-20, rus] **35-4300**
Liss, O.L.
Interaction between swamps and the surrounding environments in the central part of the West Siberian Plain [1980, p.95-112, rus] **35-1444**
Lissauer, I.M.
U.S. Coast Guard Arctic oil spill research program [1980, p.111-128, eng] **35-3880**
Lister, H.
Origin of ice marginal terraces and contact ridges of east Kangerdluarssuk Glacier, SW Greenland [1981, p.31-39, end] **35-4018**
Listov, A.A.
Formation of the age structure of stands in lichen pine forests of the European North [1980, p.25-29, rus] **35-1858**
Lithin, J.N.
Experimental studies of coupled heat and moisture transfer in soils during freezing [1980, p.223-232, eng] **35-738**
Litton, R.W.
Resistance of concrete walls to high concentrated ice loads [1981, p.425-436, eng] **35-3450**
Litvinov, G.A.
Residential complex for 40 outpost workers [1980, p.31-32, rus] **35-1308**
Litvinov, I.V.
Precipitation in the atmosphere and on the earth's surface [1980, 208p., rus] **35-2948**
Liu, C.
Function and characteristics of glaciers and utilization of water resources in the Ha-la-hu Lake area [1979, p.27-32, chi] **35-2899**
Liu, G.
Climate of Batura Glacier and its adjacent areas [1980, p.99-110, chi] **35-4032**
CMOS universal counter [1980, p.29-30, chi] **35-2659**
Liu, H.
Designing and making of snow densitometer [1980, p.30-31, chi] **35-2660**
Liu, J.
Application of pseudo-colour in the research on glaciology and cryopedology [1980, p.63-67, chi] **35-2672**
Liubarskii, A.N.
Long-term variability in thermobaric and ice conditions in the South Orkney Islands area [1980, p.59-65, rus] **35-2180**
Structure of recent fluctuations in climatic conditions of the Arctic [1980, p.57-62, rus] **35-3050**
Variations in precipitation amounts in the lower courses of the Ob' and Yenisey rivers over a period of years [1980, p.101-103, rus] **35-3123**
Liubimov, B.P.
Development of gullies and ravines due to nival-fluvial processes under different climatic conditions [1978, p.71-73, rus] **35-13**
Land erosion maps of the Central Region for environmental protection [1979, p.95-101, rus] **35-2327**
Liubimov, G.A.
Calculating minimum runoff of small rivers in the Baykal Amur railroad zone from single measurements of water discharge during the summer-fall period [1980, p.54-63, rus] **35-1795**
Freeze-up of rivers in the Baykal Amur railroad zone [1980, p.64-73, rus] **35-1796**

Liubimova, N.E.
Modular construction in West Siberia (1980, p.5-7, rus) 35-448
Liubomirova, K.S.
Changes in thermal and ice conditions of rivers due to regulation (1980, p.5-19, rus) 35-468
Liubovnyi, N.D.
Procedure for determining drifting ice concentration from satellite data (1980, p.65-68, rus) 35-786
Liverovskaia, I.T.
Chart of soil structure in West Siberian tundra and forest tundra (1980, p.18-22, rus) 35-1287
Liverovskii, IU.A.
Characteristics of the genesis of the tundra soils of the northern Ob' region (1979, p.512-520, eng) 35-961
Livingston, T.W.
Rural schools prototype analysis (1980, p.439-474, eng) 35-2133
Lliboutry, L.
Critical review of analytical approximate solutions for steady state velocities and temperatures in cold ice-sheets (1979, p.135-148, eng) 35-3723
Lobacz, E.F.
Design and construction of foundations in areas of deep seasonal frost and permafrost (1980, 310p., eng) 35-886
Design of foundations in areas of significant frost penetration (1980, p.118-184, eng) 35-1975
Lobanov, A.I.
Phenological development of trees and shrubs in the Khamar-Daban Range (1980, p.91-93, rus) 35-1040
Lobovikova, Z.P.
Characteristics of the regime and methods of long range forecasting of dates of ice breakup on rivers crossed by the Baykal-Amur railroad (1980, p.29-34, rus) 35-2876
Lockwood, J.G.
Response of a zonal climate-ice sheet model to the orbital perturbations during the Quaternary ice ages (1980, p.301-319, eng) 35-1167
Loffredo, J.C.
Solution to spring ice-jam flooding (1980, p.82-83, eng) 35-828
Loginova, I.E.
Permafrost weathering in relation to subarctic morphogenesis in Northeastern Yakutia (1978, p.93-94, rus) 35-14
Lohanick, A.W.
Passive microwave imagery of sea ice at 33 GHz (1980, p.211-22 eng) 35-1128
Loire, J.
Islan design proposed for "iceberg alley" fields (1981, p.85-88, 93, eng) 35-2072
Loken, O.H.
Eastern Arctic marine environmental study program (1979, p.139-152, eng) 35-168
Lomovtseva, N.S.
Peculiarities of geocryologic-hydrogeologic regionalization of the east Siberian folded area (1980, p.127-134, rus) 35-4002
Lopez, R.
Hydrodynamic effects on iceberg gouging (1981, p.55-61, eng) 35-2418
Lopez, R.J.
Free drift of sea ice: a comparison of models (1980, 132p., eng) 35-1845
Lorius, C.
Evidence of climatic change in Antarctica over the last 30,000 years from the Dome C ice core (1981, p.217-225, eng) 35-3032
French field activities at Dome C (1980, p.76, eng) 35-3182
Mission to Antarctica (1979, p.26-34, eng) 35-3369
Losev, S.M.
Complex full-scale experiment "IAna" (1979, p.7-15, rus) 35-4183
Correlation between geometric parameters of ice floes (1981, p.92-96, rus) 35-3953
Evaluating areas of meltwater on ice from aerial photographs (1979, p.92-106, rus) 35-4192
Ice crushing in the southeastern part of the Laptev Sea (1979, p.82-91, rus) 35-4191
Morphometric characteristics of drifting ice in Long Strait (1981, p.129-136, rus) 35-3960
Peculiarities of spatial variations in ice packing (1981, p.120-128, rus) 35-3959
Lott, J.L.
Exchange crystallization freeze desalination process (1976, p.231-240, eng) 35-4295
Lou, A.
Method of determining the horizontal frost heave force *in situ* (1980, p.33-36, chi) 35-2662
Lou, X.
Application of microwave range in the surveying of glaciers and permafrost on Qingzang Plateau (1980, p.56-60, chi) 35-2669
Lovanov, A.I.
Development of plants and the forest fire season in Transbaikal (1980, p.49-50, rus) 35-1767
Lovelace, J.T.
Ice problems on the middle Mississippi River (1981, p.1081-1087, eng) 35-4167
Lovell, J.S.
Dome C geophysical survey, 1979-80 (1980, p.2-5, eng) 35-3165
Geophysical investigation of the dome C area (1979, p.98-100, eng) 35-670
Lowe, J.J.
Studies in the Lateglacial of north-west Europe (1980, 205p., eng) 35-796
Lowry, R.T.
Ice and iceberg studies using state-of-the-art remote sensing (1979, p.551-569, eng) 35-180
Loynachan, T.E.
Lime requirement methods for cold-region soils (1981, p.75-80, eng) 35-2926
Lozhkin, A.V.
Natural resources of the northeastern USSR (1976, 152p., rus) 35-3825
Lozowski, E.P.
Computer simulation of airfoil icing without runback (1981, 8p., eng) 35-3562
Lucarotti, C.J.
Effect of forest regeneration on mesofauna populations and microfungal species in lichen woodland soils (1981, p.7-26, eng) 35-3976
Lucchitta, B.K.
Did ice streams carve martian outflow channels (1981, p.759-763, eng) 35-3363
Luchitskii, I.V.
Environmental protection problems in the oil-gas bearing regions of West Siberia (1980, p.3-9, rus) 35-1702
Luchkovskii, I.IA.
Tests of driven piles in slump-prone soils under the effect of horizontal and elastic loads (1980, p.107-110, eng) 35-1385
Luick, J.R.
In vitro and nylon-bag digestibilities of reindeer and caribou forages (1980, p.613-622, eng) 35-848
Lukanin, A.M.
Frost heave has disappeared (1980, p.25, rus) 35-7
Luk'ianchikov, S.N.
Ice cover volume and ice thickness distribution on the southeastern part of the Laptev Sea at the end of the winter 1976 (1979, p.16-19, rus) 35-4184
Lukin, A.V.
New data on chemical regime of karst waters in the Kungur Ice Cave (1976, p.35-40, rus) 35-1296
Lukin, V.M.
Tests of the stream-melting theory on the Adishi and Khalde glaciers of the Caucasus (1980, p.202-206, rus) 35-2833
Lukina, V.A.
Tree bark in road pavement construction (1980, p.124-127, rus) 35-1090
Lunardini, V.J.
Cylindrical phase change approximation with effective thermal diffusivity (1981, p.147-154, eng) 35-3671
Heat transfer in cold climates (1981, 731p., eng) 35-3429
Neumann solution applied to soil systems (1980, 7p., eng) 35-1893
Permafrost engineering: an introduction to northern engineering (1975, 444p., eng) 35-3658
Phase change around a circular pipe (1980, 18p., eng) 35-1894
Lundberg, B.
Exploration for uranium through glacial drift in the Arjeplog district, northern Sweden (1973, p.31-43, eng) 35-2743
Lunde, A.T.
Paleoclimate model of Northern Hemisphere ice sheets (1981, p.126-142, eng) 35-3676
Luo, H.
Trace element content in snow and ice samples of west Qongtaitan Glacier, Mt. Tuomuer (1980, p.77-79, chi) 35-2677
Luo, X.
Application of airphoto in the study of periglacial geomorphic dynamics (1980, p.72-73, chi) 35-2675
Preparation of synthetic image map of permafrost in the north of Tuo-Tuo River (1980, p.70-71, chi) 35-2674
Lupin, V.A.
Preventing avalanche damage to gas pipelines (1980, p.21-22, rus) 35-1305
Luria, S.M.
Aids for improving vision in white-out (1980, 23p., eng) 35-1416
Luscher, U.
Construction and performance of frozen gravel fills (1981, p.693-704, eng) 35-2531
Geotechnical issues and answers during construction of the trans-Alaska pipeline (1979, p.128-133, eng) 35-1112
Improvement of bearing capacity of pipe piles by corrugations (1980, p.229-234, eng) 35-1979
Luthin, J.N.
Proceedings (1980, 262p., eng) 35-724
Lutoshkin, A.
Winter dictates its demands (1977, p.25-29, rus) 35-2449
L'vov, B.L.
Modular technique of accelerated construction (1980, p.5-9, rus) 35-445
L'vov, P.N.
Afforestation processes and their control in the European North (1980, 113p., rus) 35-1897
L'vovich, M.I.
Water resources of mountains (1980, p.50-65, rus) 35-1438
Lych, A.M.
Electrophysical properties of peat and their practical application (1980, 176p., rus) 35-937
Lyczkowski, R.W.
Heat Transfer - San Diego, 1979 (1979, 315p., eng) 35-3347
Lygin, A.M.
Role of the Erektkur-Imalyk fault zone in ground water formation in the Chat-Tokko interfluve (1980, p.22-30, rus) 35-3991
Lyons, J.M.
Low temperature stress in crop plants: the role of the membrane (1979, 565p., eng) 35-1849
Lysak, S.V.
Geothermal studies in the Baykal-Angarakan River area of the Baykal-Amur railroad (1980, p.139-153, rus) 35-139
Lysenko, T.A.
Evaluating changes in flow dynamics of the Ob' River estuary waters due to river diversion (1980, p.67-70, rus) 35-3115
Evaluating propagation and transformation of flood waves in the Ob' River estuary (1980, p.74-77, rus) 35-3116
Role of soil moisture and frost penetration depth on the loss of spring runoff in the Kama River Basin north of Perm (1978, p.10-15, rus) 35-2700
Lysiuk, V.F.
Perfecting the construction of compressor plants in West Siberia (1980, p.18-19, rus) 35-96
Ma, C.
Preliminary analysis of grain size of moraines in Tianshan and Qingzang plateau (1980, p.80-83, chi) 35-2678
Ma, L.
Institute of Low Temperature Science, Hokkaido University (1980, p.62 + figs., chi) 35-93
Maattanen, M.
Ice force measurements in Finnish lighthouses (1980, p.343-353, eng) 35-3849
Ice forces on fixed, flexible structures (1980, p.107-130, eng) 35-510
Macafee, A.W.
Field-controlled ionic charging of ice crystals (1981, p.3199-3202, eng) 35-3370
MacAyeal, D.R.
Ice-shelf grounding - ice and bedrock temperature changes (1980, p.397-400, eng) 35-1503
Ross Ice Shelf glaciology (1979, p.66-67, eng) 35-653
MacDonald, G.M.
Movement of an ice-cored rock glacier, Tungsten, N.W.T., Canada, 1963-1980 (1980, p.842-847, eng) 35-2175
Macdonald, R.W.
Baseline data on chemical oceanography in the southern Beaufort Sea, 1974-5 (1980, 51p., eng) 35-2946
MacFeely, K.I.
Reflectance of snow at millimeter wavelengths (1980, 40p., eng) 35-1582
Machoret, IU.IA.
Radar echo sounding of Spitsbergen glaciers in 1977 (1980, p.279-286, rus) 35-1260
Mackay, D.
Oil, ice and gas (1980, 169p., eng) 35-3867
Research in oil, gas and ice at the University of Toronto (1980, p.27-31, eng) 35-3871
MacKay, D.K.
Aufeis (overflow ice) in rivers (1979, p.139-163, eng) 35-409
Mackay, J.R.
Experiment in lake drainage, Richards Island, Northwest Territories: a progress report (1981, p.63-68, eng) 35-3084
Origin of hummocks, western Arctic coast, Canada (1980, p.996-1006, eng) 35-1265
Mackey, S.D.
Stratigraphy and glacial-marine sediments of the Amerasian basin, central Arctic Ocean (1980, 57p. + maps, eng) 35-1844
MacLean, S.F.
Territory size and composition in relation to resource abundance in Lapland Longspurs breeding in arctic Alaska (1979, p.131-142, eng) 35-4237
Use of space by Lapland longspurs breeding in Arctic Alaska (1980, p.509-520, eng) 35-1683
MacLean, S.F., Jr.
Coastal tundra at Barrow (1980, p.1-29, eng) 35-1930
Decomposition and accumulation of organic matter in tundra (1981, p.587-633, eng) 35-3393
Detritus-based trophic system (1980, p.411-457, eng) 35-1940
Eagle Summit, Alaska, USA (1981, p.779-780, eng) 35-3402
Herbivore-based trophic system (1980, p.335-410, eng) 35-1939
Invertebrates; introduction (1981, p.509-516, eng) 35-3389

Macpherson, M.D.
National petroleum reserve Alaska marine transportation system analysis Final report (1980, 486p., eng) **35-2575**

Madden, C.G.
Improved snow study kit (1973, p.109-113, eng) **35-4318**

Madison, R.J.
Effects of placer mining on hydrologic systems in Alaska status knowledge (1981, 25p., eng) **35-3813**

Madore, K.
Disinfection of wastewater by microwaves (1980, 15p., eng) **35-2592**

Madsen, O.S.
Erosion prediction for exploration and production structures in the Arctic (1981, p.459-470, eng) **35-3453**

Mae, S.
Airborne radio echo sounding on the Shirase Glacier and its drainage basin, East Antarctica (1981, p.16-25, eng) **35-4221**
Glaciological data collected by the Japanese Antarctic Research Expedition from February 1979 to January 1980 (1981, 43p., eng) **35-3599**
POLEX-South data, Part 2 Micrometeorological data at Mizuho Station, Antarctica in 1979 (1981, 321p., eng) **35-3598**
Treatment and disposal system of waste materials at Mizuho Station (1981, p.49-60, jap) **35-4174**

Maeda, H.
Conditions of snow sliding on metal sheet roofs (1979, p.199-204, jap) **35-267**

Maeno, N.
Fluidization of snow (1979, p.109-120, eng) **35-697**
Measurements of electrical surface conductivity of ice (1978, p.67-76, jap) **35-1176**
Measurements of restitution coefficients of ice (1978, p.55-65, jap) **35-1175**
Physical aspects of the wind-snow interaction in blowing snow (1979, p.127-141, eng) **35-517**
Studies of fluidized snow 1 Formation of fluidized snow and its general properties (1978, p.77-92, jap) **35-1177**
Studies of fluidized snow 2 Viscosity and heat transfer coefficient of fluidized snow (1978, p.93-102, jap) **35-1178**
Viscosity and heat transfer in fluidized snow (1980, p.263-274, eng) **35-2369**

Magcobar customizes drill muds
Magcobar customizes drill muds (1980, p.31, eng) **35-2009**

Magomedeminov, I.I.
Studying strength and frost resistance of mortars containing combined admixtures (1980, p.26-34, rus) **35-3527**

Magono, C.
Method for numerical forecast of the distribution of snowfall in the Ishikari Plain (1978, p.46-66, eng) **35-573**
Some observations of snowfall and meteorological conditions in Arctic Canada (1980, p.1656-1664, eng) **35-1414**

Mahaney, W.C.
Late Quaternary rock glaciers, Mount Kenya, Kenya (1980, p.492-497, eng) **35-1511**

Maidar, D.
From nomadic to mobile architecture (1980, 215p (Pertinent p.174-213), rus) **35-2864**

Mairanovskii, F.G.
Evaluating water salinity variations in the Onega Bay during its separation from the White Sea waters (1980, p.28-31, rus) **35-3110**

Makar, R.M.
Improving the design of foundations for gas-pumping aggregates (1980, p.11-12, rus) **35-312**

Makarevich, K.G.
Methods and results of studying the Medeo artificial skating rink (1980, p.249-254, rus) **35-1253**

Makarov, V.I.
Temperature control of bearing grounds on northern construction sites (1980, p.37-41, rus) **35-596**

Makarov, V.N.
Microelement migration in waters of basic geochemical landscapes of northeastern Yakutia (1980, p.114-127, rus) **35-4001**

Makarova, I.I.
Distribution of lichens and mosses in forest steppes of the central Indigirka River area (1980, p.66-82, rus) **35-393**

Makashov, E.V.
Unified electrical installation of the "Kapitan M. Izmailov" type icebreakers (1980, p.31-33, rus) **35-2635**

Makeev, A.O.
Basic geographic regularities governing soil formation in the northern Ural and central Timan mountains (1980, p.30-31, rus) **35-2262**

Makeev, O.V.
Facies of soil cryogenesis and peculiarities of soil profile arrangement in them (1981, 87p., rus) **35-3053**
Forecasting changes in cryogenic soils of the world due to human activities (1980, p.13-15, rus) **35-2255**

Makeev, V.M.
Some results of palynological investigation on Severnaya Zemlya in relation to the question of the transport of pollen and spores in the High Arctic (1981, p.27-32, eng) **35-3902**

Makhonin, A.S.
Genetic classification of forests on the northern macroslope of the eastern Tannu-Ola (Tuva ASSR) (1976, p.3-91, rus) **35-1917**

Makhotko, S.P.
Forecasting temperature regime of an earth fill embankment and its base (1981, p.121-134, rus) **35-3290**

Makkaveev, A.N.
Dynamic classification of subglacial relief forms formed by ice sheets on plains (1980, p.17-24, rus) **35-788**

Makkonen, L.
Estimating intensity of atmospheric ice accretion on stationary structures (1981, p.595-600, eng) **35-4156**

Makshtas, A.P.
Set of instruments for determining the elements of the heat balance of the surface layer of the atmosphere (1981, p.71-74, eng) **35-4133**

Maksimov, E.V.
Glacial history of the Kirgiz Ala Tau Range (1980, 184p (pertinent p.116-143), rus) **35-2394**

Maksimov, G.A.
Winter climatic conditions in the Somov Sea based on data from the drift of the *Ob'* in 1973 (1980, p.72-78, rus) **35-2181**

Maksimov, N.V.
Snow cover peculiarities and avalanche activity in the Inyl'chek River basin (1980, p.121-126, rus) **35-3583**
Using linear discriminant functions in evaluating avalanche danger conditions (1980, p.99-102, rus) **35-3580**

Maksimovich, S.V.
Recent and paleo-cryogenesis in the soils of northeastern Khangay, People's Republic of Mongolia (1980, p.83-85, rus) **35-2281**
Water balance and productivity of Cobresia alpine meadow in the Eastern Khangai (MPR) (1980, p.27-35, rus) **35-1039**

Maksudov, R.G.
Construction under severe climatic conditions (1981, p.54-55, rus) **35-2091**

Makunina, A.A.
Regional geographic forecast, Vol 2: present state and basic trends in changes of natural environments West Siberia (1980, 206p., rus) **35-1269**
Utilization and protection of mountain landscapes in the USSR (1980, p.107-119, rus) **35-1441**

Malakhovskii, D.B.
Some results of palynological investigation on Severnaya Zemlya in relation to the question of the transport of pollen and spores in the High Arctic (1981, p.27-32, eng) **35-3902**

Malanov, A.K.
Hydraulic truck-mounted crane KS-2572 (1980, p.6-7, rus) **35-538**

Malcolm, J.D.
Studies of oil spill behaviour under ice (1980, p.47-54, eng) **35-3874**

Male, D.H.
Handbook of snow: principles, processes, management and use (1981, 776p., eng) **35-3745**
Snow surface energy exchange (1981, p.609-627, eng) **35-4212**
Snowcover ablation and runoff (1981, p.360-436, eng) **35-3754**

Malevskii-Malevich, S.P.
Studying thermal balance of developing areas of northwestern Siberia (1980, p.19-23, rus) **35-3308**

Malhotra, V.M.
Strength and freeze-thaw characteristics of concrete incorporating granulated blast furnace slag (1979, 26p., eng) **35-2164**
Strength and freeze-thaw characteristics of concrete incorporating granulated blast furnace slag (1979, 26p., eng) **35-3410**

Malik, L.K.
Geographic studies in West Siberia related to the project of diverting part of the river discharge to the south (1980, p.47-51, rus) **35-1333**
Partial redirection of Siberian rivers in relation to the development of natural resources and environmental protection (1979, p.114-120, rus) **35-2328**

Malinina, L.A.
Frost resistance of steamed concretes containing surfactants (1980, p.13-15, rus) **35-470**

Malinovskii, V.
Studying winter performance of ships (1980, p.10-11, rus) **35-906**

Maliugin, IU.F.
Model of snow cover formation in the southern Sikhote-Alin (1980, p.60-68, rus) **35-1227**
Statistical structure of snow reserve fields in Southern Sikhote-Alin (1980, p.69-73, rus) **35-1228**

Maliutina, L.V.
Problems of the Far North: the method of industrial outposts (1980, p.11-12, rus) **35-614**

Malmer, N.
Supply and transport of mineral nutrients in a subarctic mire (1980, p.63-95, eng) **35-1474**

Maloletko, A.M.
Perennially frozen rocks and hydrologic conditions of the Chuysk steppe (Altai Mountains) (1970, p.204-212, rus) **35-1572**

Mal'tsev, B.A.
Electric heating of concrete mixtures for non-monolithic structures (1979, p.27-28, rus) **35-482**

Mal'tsev, L.D.
Seasonal fluctuations of road construction in the North (1980, p.19, 22, rus) **35-1025**

Malyi, P.
Determining propulsive performance of ships in ice (1980, p.45, rus) **35-1605**

Mamaev, IU.A.
Underground mining of placers using 2PNB-2 excavators and drag-link conveyers (1978, p.38-48, rus) **35-1081**

Mamaev, P.N.
Surfacing alloys for increasing service life of machine details working at low temperatures (1980, p.52-54, rus) **35-3016**

Mamedov, A.A.
Studying frost resistance of concretes containing combined admixtures with concentrations below design values (1980, p.18-25, rus) **35-3526**

Manasypov, F.S.
Industrial method (1981, p.33-34, rus) **35-4242**

Mandarov, A.A.
Heat conductivity of washed up sandy ground (1980, p.63-68, rus) **35-3317**
Hydrothermal regime of cryogenic saline soils beneath forage crops with overhead irrigation (1980, p.47-53, rus) **35-3314**

Mann, D.H.
Diel activity patterns in snowfield foraging invertebrates on Mount Rainier, Washington (1980, p.359-368, eng) **35-1671**

Manning, A.P., Jr.
Mixing oil with ice (1981, p.185-189, eng) **35-3737**

Manns, W.
Importance of admixtures and cement for the resistance of concrete to freezing and deicing compound (1979, p.167-173, ger) **35-528**

Manzano, B.B.
Determination of method for snow, ice, and sleet removal, Dual Mode Transit System (1974, 61p., eng) **35-1563**

Manzhara, A.A.
Modeling the evolution of ice aerosol, generated by carbon dioxide granules, in the turbulent wake behind the granules (1980, p.41-50, rus) **35-2990**

Maohuan, H.
Outline of the study of seasonal snow and ice in China (1980, p.1-11, eng) **35-3659**

Marbouty, D.
Experimental study of temperature-gradient metamorphism (1980, p.303-312, eng) **35-2373**
Satellite pictures and snow measurements (1978, p.517-526, fre) **35-1163**
Sintering with a weak temperature gradient (1980, p.291-295, fr. **35-1371**
Snow crystals 2 Evolution (1981, p.3-42, fre) **35-4045**
Study of gradient metamorphism by simulation in a cold chamber (1978, 42p., fre) **35-1890**

Marcellus, R.W.
Shore crossing techniques for offshore pipelines in Arctic regions (1979, p.201-215, eng) **35-171**

Marchand, P.J.
Reproductive strategies of pioneering alpine species: seed production, dispersal, and germination (1980, p.137-146, eng) **35-1658**

Marche, C.
Forecasting ice conditions on the Saguenay River (Quebec) (1979, p.185-196, fre) **35-412**

Marchenko, A.S.
Synthetic fabrics for stabilizing slopes of earth structures (1981, p.5-6, rus) **35-3533**

Mar'iamov, E.L.
Repairing concrete pavements with polymer concrete at low temperatures (1980, p.25-26, rus) **35-941**

Mar'inskii, M.M.
Studying rubber seal elasticity in buildings of the North (1980, p.15, rus) **35-462**

Markgren, M.
Problems of moraine morphology: Rogen moraine and Blattnick moraine (1980, p.271-274, eng) **35-2141**

Markin, K.F.
Mechanical properties of saline frozen grounds (1973, p.28-49, rus) **35-1600**

Markov, A.S.
Methods of determining costs of transportation and delivery of local and imported construction materials to oil fields of West Siberia (1980, p.17-20, rus) **35-450**

Markov, I.N.
Dynamics of the Chilik Basin lakes and possibilities of their breakthrough (1980, p.107-112, rus) **35-214**

Markov, M.L.
Naled disintegration by water streams (1980, p.46-52, rus) **35-1868**

Marks, B.
Areal determination of the influence of a forest canopy on the surface radiant energy exchange [1980, p.43-49, eng] **35-2225**

Marks, D.
Areal determination of the influence of a forest canopy on the surface radiant energy exchange [1980, p.43-49, eng] **35-2225**
Mapping snow surface temperature from thermal satellite data in the southern Sierra Nevada [1980, p.88-96, eng] **35-2231**
Undisturbed measurement of the energy and mass balance of a deep alpine snowcover [1980, p.62-67, eng] **35-2227**

Marr, J.W.
Snow, wind and vegetation in the Front Range, Colorado [1980, p.1-15, eng] **35-577**

Marsh, G.
Frictional characteristics of materials sliding against ice [1980, p.283-289, eng] **35-1953**

Marsh, P.
Annual water balance of small high Arctic basins [1979, p.536-546, eng] **35-432**

Marshall, P.S.
Polar Ice Coring Office (PICO) drilling activities, 1979-80 [1980, p.76-77, eng] **35-3183**

Marshall, S.J.
Measuring building R-values for large areas [1981, p.137-138, eng] **35-2463**

Marshunova, M.S.
Short-wave radiation regime in Antarctica based on 20 years of observation [1980, p.11-19, rus] **35-2179**

Martel, C.J.
Forage grass growth on overland flow systems [1980, p.347-354, eng] **35-2573**
Land treatment systems and the environment [1979, p.201-225, eng] **35-2752**
Overland flow, removal of toxic volatile organics [1981, 16p., eng] **35-2581**
Rational design of overland flow systems [1980, p.114-121, eng] **35-2571**
Removal of organics by overland flow [1980, 9p., eng] **35-2052**
Spray application of wastewater effluent in a cold climate: performance evaluation of a full-scale plant [1980, p.620-626, eng] **35-2574**
Toxic volatile organics removal by overland flow land treatment [1981, 14p., eng] **35-2894**

Martel, J.
International and national developments in land treatment of wastewater [1979, 28p., eng] **35-2794**

Mart'ianova, G.N.
Cartographic-statistical method of studying interrelations among the components of natural environments in the Chita region [1980, p.114-124, rus] **35-1707**
Hydrothermal regime of Transbaikal steppes [1980, p.104-114, rus] **35-3419**
Radiation regime of the lower Irtysh river area [1980, p.190-193, rus] **35-3481**
Recent climatic changes in the taiga zone of the West Siberian Plain [1972, p.32-39, rus] **35-760**

Martin, A.
Sintering with a weak temperature gradient [1980, p.291-295, fre] **35-1371**

Martin, J.J.
Theoretical determination of the efficiency with which aerosol particles are collected by simple ice crystal plates [1980, p.1628-1638, eng] **35-485**
Theoretical study of the effect of electric charges on the efficiency with which aerosol particles are collected by ice crystal plates [1980, p.44-56, eng] **35-1676**

Martin, P.F.
Melting electrification of single ice particles in simulated free fall [1977, p.302-308, eng] **35-3778**

Martin, R.T.
Comment on "pressure melting" [1980, p.89, eng] **35-822**

Martin, S.
Anticipated oil-ice interactions in the Bering Sea [1980, p.223-243, eng] **35-4142**
Bering Sea ice-edge phenomena [1980, p.189-211, eng] **35-4140**
Field observations of the Bering Sea ice edge properties during March 1979 [1980, p.2045-2055, eng] **35-3650**
Frazil ice in rivers and oceans [1981, p.379-397, eng] **35-2240**
Sources of twelve trace metals in antarctic snows determined by principal component analysis [1980, p.5631-5638, eng] **35-1118**
Use of SEASAT (SMMR) imagery to study Bering Sea ice [1980, 17p., eng] **35-2708**

Martinec, J.
Runoff modelling from snow covered area [1981, p.113-122, eng] **35-3437**
Snowmelt hydrographs from spatially varied input [1979, p.100-111, eng] **35-1124**

Martinelli, M., Jr.
Calculations of avalanche friction coefficients from field data [1980, p.109-119, eng] **35-2354**

Martini, A.
Slope cover deposits of selected mountain areas in the Hornsund region, SW Spitsbergen [1975, p.147-185, eng] **35-3616**
Weathering of beach pebbles in Hornsund [1975, p.187-193, eng] **35-3617**

Martini, I.P.
Sea ice generated features of coastal sediments of James Bay, Ontario [1980, p.93-102, fre] **35-2959**

Martinson, C.
Analysis of velocity profiles under ice in shallow streams [1981, p.94-111, eng] **35-2545**
Sediment displacement in the Ottauquechee River 1975-1978 [1980, 14p., eng] **35-974**

Martynov, B.D.
Ice conditions in the Lower Irtysh river area and their possible changes due to human activities [1980, p.103-109, rus] **35-3463**

Martynov, V.
Automated systems of icebreakers [1980, p.49, rus] **35-942**

Martyshev, A.P.
Fluctuations of the Bol'shoy Azau Glacier tongue on the Elbrus Mountain [1980, p.207-209, rus] **35-2834**

Marunich, S.V.
Evaluating the variations of water balance elements in coniferous forests due to forest use and maintenance [1979, p.185-193, rus] **35-4124**

Marusenko, IA.I.
Calculating subglacial passage capacity of rivers and waterways [1976, p.89-91, rus] **35-1369**

Marzbanian, P.C.
Structural evaluation of porous pavement test sections at Walden Pond State Reservation, Concord, Massachusetts [1980, 43p., eng] **35-2006**

Mashhour, M.M.
Tension resistant inclusions in soils [1980, p.1313-1326, eng] **35-1494**

Maslennikov, V.V.
Interannual and long-period variations of ice distribution in the Atlantic sector of the Antarctic [1981, p.40-44, eng] **35-3904**

Maslovskii, E.B.
Land-based stereophotogrammetric surveying of an avalanche formation section of a road [1980, p.20-21, rus] **35-3010**

Masters, H.E.
Water pollution and associated effects from street salting [1975, p.317-340, eng] **35-2569**

Masterson, D.M.
Strain measurements in floating ice platforms and their application to platform design: Discussion [1980, p.564-565., fre] **35-837**

Masuda, K.V.
Effects of streambank materials additions upon microbial activities of two sub-Arctic Canadian rivers [1980, p.1363-1366, eng] **35-115**
Microbial dynamics of two sub-Arctic Canadian rivers [1980, p.1353-1362, eng] **35-114**

Masuda, S.
Design of snow-gauge using photoelectric effects [1976, p.171-177, jap] **35-259**

Mathers, T.J.
Role of vegetation on the disposition of snowfall on a mixed forested watershed in the Kawartha Lakes region of east central Ontario [1980, p.36-50, eng] **35-38**

Mathews, W.H.
Retreat of the last ice sheets in northeastern British Columbia and adjacent Alberta [1980, 22p., eng] **35-1908**

Mathias, J.A.
Factors controlling oxygen depletion in ice-covered lakes [1980, p.185-194, eng] **35-1164**

Mathur, B.S.
Linear distributed model for a partly snowbound catchment [1979, p.167-177, eng] **35-1125**

Matiushkina, L.A.
River valley soils in the vicinity of Zeya and Bureya hydroelectric power plants [1979, p.95-111, rus] **35-1522**

Matlock, C.S.
Piles in permafrost for bridge foundations [1967, 41p., eng] **35-2753**

Matsiuk, I.F.
Improving watertightness of large panel buildings [1980, 95p., rus] **35-1575**

Matson, M.
New data base for climate studies [1981, p.451-456, eng] **35-2074**

Matsuda, A.
Simple structure insulating material properties for multilayer insulation [1980, p.135-138, eng] **35-1782**

Matsuo, T.
On the statistical investigation of fall velocity of snowflakes [1980, p.61-79, eng] **35-2155**

Matsuoka, H.
Report on the perennial snow patch on mount Hakusan - its location, morphology, transition of annual net mass balance and the ablation rate in the ablation seasons [1979, p.171-180, jap] **35-265**

Mattes, K.T.
Water supply system for the world's most northerly permanent community [1980, p.367-393, eng] **35-2129**

Matthäus, H.
Description of a method for calculating snow cover evolution [1981, p.117-123, ger] **35-3689**

Matthews, J.B.
Characterization of the nearshore hydrodynamics of an Arctic barrier island-lagoon system [1980, p.67-72, eng] **35-1152**
Observations of under-ice circulation in a shallow lagoon in the Alaskan Beaufort Sea [1981, p.223-234, eng] **35-3698**

Matveeva, N.V.
Two trips to the Bol'shoy Begichev Island (brief outline of flora and vegetation) [1980, p.1543-1559, rus] **35-3217**

Matyas, C.
Considerations on the damages caused by snow in Scotch pine plantations [1981, p.270-272, hun] **35-4252**

Matzler, C.
Microwave signatures of the natural snow cover at Weissfluhjoch [1980, p.203-223, eng] **35-1744**

Mauviel, F.
Iceberg dynamical modelling [1980, p.123-127, eng] **35-2217**

Maxfield, J.D.
Asphalt viscosity: an indicator of low temperature fracture strain in asphalt mixtures [1979, p.221-237, eng] **35-332**

Maxwell, J.B.
Snowfall formation [1981, p.129-152, eng] **35-3749**

Maybourn, R.
Arctic navigation past, present and future [1981, p.1-18, eng] **35-3906**

Mayer, H.G.
Rheological behavior of bituminous cement in a balance rheometer [1980, p.134-139, ger] **35-2495**

Mayer, T.A.
General circulation experiment with a coupled atmosphere, ocean and sea ice model [1980, p.1887-1908, eng] **35-2472**

Mayewski, P.A.
Characteristics and significance of rock glaciers in southern Victoria Land, Antarctica [1980, p.68-69, eng] **35-3178**
Glaciology and glaciogeomorphology in Victoria Land and Queen Maud Mountains [1979, p.53, eng] **35-644**
Himalayan and Trans-Himalayan glacier fluctuations and south Asian monsoon record [1980, p.171-182, eng] **35-1659**
Late Wisconsin ice sheets in North America [1981, p.67-178 + 3 sheets, eng] **35-2064**

Mayo, L.
Comparison of mass balance and runoff at four glaciers in the United States, 1966 to 1977 [1980, p.138-143, rus] **35-1245**

Mazhitova, G.G.
Soil cover structure in the Alpine tundras of the Bol'shoy Annachag Range [1980, p.54-67, rus] **35-4335**

Mazo, V.L.
Interactions within the system of "long" snow fields [1980, p.74-79, rus] **35-1229**

Mazurenko, M.T.
Development of wild rosemary under different ecological conditions [1981, p.27-32, rus] **35-2768**
Dynamics of offshoot formation in some juniper shrubs in the northern Okhotsk Sea area [1979, p.37-91, rus] **35-4327**

McAmmond, K.W.
Modified low-pressure communal sewage disposal systems [1980, p.477-483, eng] **35-2134**

McCann, S.B.
Behavior of a polar ice-dammed lake, Ellesmere Island, Canada [1981, p.63-74, eng] **35-4084**
Short-lived damming of a high Arctic ice-marginal stream, Ellesmere Island, N.W.T., Canada [1980, p.487-491, eng] **35-1510**

McCaskell, P.C.
Development of snowcover on a lake in the vicinity of Peterborough, Ontario [1980, p.71-88, eng] **35-41**

McClain, E.P.
Passive radiometry of the ocean from space - an overview [1980, p.7-24, eng] **35-160**

McClenahan, J.D.
Effect of latent heat on frost penetration in moist soil [1979, p.789-790, eng] **35-2889**

McClung, D.M.
Two-parameter model of snow-avalanche motion [1980, p.197-207, eng] **35-2362**

McCormick, G.C.
Differential propagation constants on slant paths through snow and ice crystals as measured by 16.5 GHz polarization-diversity radar [1981, p.133-139, eng] **35-3885**

McCown, B.H.
Control of tundra plant allocation patterns and growth [1980, p.140-185, eng] **35-1934**
Vegetation: pattern and succession [1980, p.187-218, eng] **35-1935**

McCullough, G.K.
Preliminary comparison of runoff relationships and water budgets in three experimental lake basins in the continental, sub-Arctic and Arctic climatic regions of the Precambrian Shield [1979, p.516-535, eng] **35-431**

McDade, C.
Dynamics of NH4 and NO3 in cropped soils irrigated with wastewater [1980, 20p., eng] **35-872**
McFadden, T.
Fate and effects of crude oil spilled on subarctic permafrost terrain in interior Alaska [1980, 67p., eng] **35-2001**
Ice fog suppression in Arctic communities [1980, p.54-65, eng] **35-1971**
Ice force measurement on the Yukon River bridge [1981, p.749-777, eng] **35-2536**
Waste heat utilization through soil heating [1980, p.105-120, eng] **35-2112**
McGarry, M.G.
Appropriate technologies for water supplies and sanitation in northern communities [1980, p.121-135, eng] **35-2113**
McGimsey, R.G.
Late-Neoglacial histories of the Agassiz and Jackson Glaciers, Glacier National Park, Montana [1981, p.183-196, eng] **35-4091**
McGinnis, D.F., Jr.
NOAA NESS satellite snowmapping techniques [1981, p.133-140, eng] **35-3439**
McGinnis, L.D.
Artesian well at Don Juan Pond [1979, p.26-27, eng] **35-637**
Seismic refraction measurements from sea ice in western McMurdo Sound [1979, p.34-35, eng] **35-638**
Seismic refraction studies in western McMurdo Sound [1980, p.11, eng] **35-3166**
McGonigal, D.
Problems presented by ice cover to oilspill clean-up in the Beaufort Sea [1980, p.13-25, eng] **35-3870**
McGown, A.
Tension resistant inclusions in soils [1980, p.1313-1326, eng] **35-1494**
McGreevy, J.P.
Some perspectives on frost shattering [1981, p.56-75, eng] **35-3564**
McGregor, G.R.
Adjustment to avalanche hazard in New Zealand [1981, p.25-31, eng] **35-4299**
McHattie, R.
Highway pavement cracks: an Alaskan overview [1980, p.17-21, eng] **35-3858**
Pavement structure evaluation of Alaskan highways [1980, 208p., eng] **35-893**
McIntosh, W.C.
Tillite, glacial striae, and hyaloclastite associations on Hobbs Coast, Marie Byrd Land [1979, p.48-50, eng] **35-641**
McIntyre, A.
Oceanic mechanisms for amplification of the 23,000-year ice-volume cycle [1981, p.617-627, eng] **35-3136**
McKay, G.A.
Distribution of snowcover [1981, p.153-190, eng] **35-3750**
Measurement and data analysis [1981, p.191-274, eng] **35-3751**
Snow and living things Section 1: Snow and man; Section 2: Plants and animals [1981, p.3-31, eng] **35-3746**
McKendrick, J.D.
Responses of Arctic tundra to intensive muskox grazing [1981, p.49-55, eng] **35-1694**
Seasonal movement of nutrients in plants of differing growth form in an Alaskan tundra ecosystem: implications for herbivory [1980, p.189-209, eng] **35-1169**
Some effects of mammalian herbivores and fertilization on tundra soils and vegetation [1980, p.565-578, eng] **35-3206**
McKim, H.L.
Infiltration characteristics of soils at Apple Valley, Minn.; Clarence Cannon Dam, Mo; and Deer Creek Lake, Ohio, land treatment sites [1980, 41p., eng] **35-1726**
International and national developments in land treatment of wastewater [1979, 28p., eng] **35-2794**
Land treatment systems and the environment [1979, p.201-225, eng] **35-2752**
Materials availability study of the Dickey-Lincoln dam site [1980, p.158-170, eng] **35-153**
Review of techniques for measuring soil moisture *in situ* [1980, 17p., eng] **35-976**
McNulty, D.
Winter avalanche activity and weather in a Canterbury alpine basin [1980, p.103-111, eng] **35-2341**
McNutt, S.L.
Remote sensing analysis of ice growth and distribution in the eastern Bering Sea [1980, p.141-165, eng] **35-4138**
McPhee, M.G.
Study of oceanic boundary-layer characteristics including inertial oscillation at three drifting stations in the Arctic Ocean [1980, p.870-884, eng] **35-1059**
Upper ocean temperature, salinity and density in the vicinity of arctic Drift Station *FRAM* I, March to May 1979 [1981, 20p., eng] **35-3706**
McRoberts, E.C.
Stability of slopes in permafrost [1973, 370p., eng] **35-708**
McRoy, C.P.
Primary producers [1980, p.179-250, eng] **35-1752**
Meals, D.W.
Spray application of wastewater effluent in a cold climate: performance evaluation of a full-scale plant [1980, p.620-626, eng] **35-2574**
Mears, A.I.
Calculations of avalanche friction coefficients from field data [1980, p.109-119, eng] **35-2354**
Fragment-flow model of dry-snow avalanches [1980, p.153-163, eng] **35-2358**
Municipal avalanche zoning: contrasting policies of four western United States communities [1980, p.355-362, eng] **35-2378**
Mears, B., Jr.
Periglacial wedges and the Late Pleistocene environment of Wyoming's intermontane basins [1981, p.171-198, eng] **35-3677**
Medaliev, Kh.Kh.
Artificial crystallization of cloud water droplets on AgI and PbI particles [1980, p.47-50, rus] **35-1201**
Formation of ice crystals on AgI particles through quasi-liquid films [1975, p.107-113, rus] **35-1618**
Medorezov, I.A.
Problems of mechanizing the laying of underground cables [1981, p.17-18, rus] **35-2852**
Medvedev, A.V.
Self-simulating solution of the problem of freezing (thawing) in the case of a change of the surface level with time [1975, p.52-62, eng] **35-2399**
Medvedev, B.A.
Dynamics of temperature field of the dam of the Vilyuy hydroelectric power plant [1980, 48p., rus] **35-2049**
Medvedev, IU.O.
Compiling large-scale map of plant community combinations in the Nizhniy Ilim taiga [1971, p.47-57, rus] **35-758**
Medvedev, T.A.
Experience in building water intake complexes [1981, p.4-5, rus] **35-2773**
Medvedeva, V.M.
Basic types of paluded spruce forests in Karelia [1980, p.78-99, rus] **35-1326**
Medvedskii, R.I.
Bilateral evaluations of a superficial single-phase Stefan problem [1979, p.71-82, rus] **35-236**
Meehl, G.A.
General circulation experiment with a coupled atmosphere, ocean and sea ice model [1980, p.1887-1908, eng] **35-2472**
Mehrtens, M.B.
Geochemical drainage dispersion from sulphide mineralization in glaciated terrain, central Norway [1973, p.1-10, eng] **35-2742**
Meier, M.
Comparison of mass balance and runoff at four glaciers in the United States, 1966 to 1977 [1980, p.138-143, rus] **35-1245**
Ice and water balances, South Cascade glacier, 1975-1977 [1980, p.143-147, rus] **35-1246**
Meier, S.
Coastal ice sheet in Enderby Land, Antarctica: relief, movement and mass balance [1977, 104p., ger] **35-1413**
Forty million years of ice at the south pole [1980, p.348-351, 373-376, ger] **35-1415**
Geodetic and glaciological activities in East Antarctica, 1962-1978 [1980, p.24-31, ger] **35-2431**
Meikle, K.M.
Countermeasures equipment for ice-covered ice-infested waters [1980, p.7-11, eng] **35-3869**
Meirmanov, A.M.
Example of nonexistence of a classical solution of the Stefan problem [1981, p.547-549, rus] **35-4274**
Melamed, V.G.
Heat and mass transfer in rocks during phase transformations [1980, 228p., rus] **35-253**
Self-simulating solution of the problem of freezing (thawing) in the case of a change of the surface level with time [1975, p.52-62, eng] **35-2399**
Melander, O.
Tillite, glacial striae, and hyaloclastite associations on Hobbs Coast, Marie Byrd Land [1979, p.48-50, eng] **35-641**
Meldrum, D.T.
Airborne geophysical investigations of ice sheet and bedrock, 1978-79 [1979, p.95-96, eng] **35-667**
Melendez, R.
Model of the planetary boundary layer over a snow surface [1979, p.431-452, eng] **35-158**
Melent'ev, V.V.
Remote sensing of soil moisture with microwave radiometry [1977, p.66-76, rus] **35-901**
Melent'eva, N.V.
Soils of drained forest swamps [1980, 127p., rus] **35-1134**
Melesk, Kh.Kh.
Influx and transfer of water-soluble substances in the forest-steppe zone of West Siberia [1980, p.84-88, rus] **35-1336**
Role of the cryogenic factor in the migration of salts and moisture in Baraba Plain soils [1980, p.110-111, rus] **35-2290**
Mellerud, O.T.
Permafrost and construction work in Svalbard [1980, p.39-43, nor] **35-1992**
Mellor, D.C.
Deflection of icebergs by anchors [1980, p.87-88, eng] **35-821**
Mellor, M.
Cyclic loading and fatigue in ice [1981, p.41-53, eng] **35-2417**
Icebreaking concepts [1980, 18p., eng] **35-2593**
Mechanical properties of polycrystalline ice: an assessment of current knowledge and priorities for research [1980, p.263-275, eng] **35-744**
Mechanics of cutting and boring Part 5 Dynamics and energetics of indentation tools [1980, 82p., eng] **35-1892**
Ship resistance in thick brash ice [1980, p.305-321, eng] **35-748**
Some aspects of Soviet trenching machines [1980, 13p., eng] **35-2597**
Mel'nichenko, N.A.
Studies of the temperature-dependence of the brine content of sea ice by the pulse NMR method [1981, 6p., eng] **35-2589**
Study of the temperature-dependence of the brine content in sea ice by the pulsed NMR method [1980, p.535-537, eng] **35-3304**
Mel'nik, IU.A.
Radar methods of studying the earth [1980, 161p., rus] **35-2250**
Mel'nik, V.IA.
Calculating heat protection measures for earth dam construction by the wash-up technique, under severe climatic conditions [1980, p.103-108, rus] **35-2103**
Mel'nikov, I.A.
Bibliographic review of cryobiological investigations in the Arctic Ocean [1980, p.56-61, rus] **35-1316**
Biology of the Central Arctic Basin [1980, 260p., rus] **35-1312**
Cryopelagic fauna of the Central Arctic Basin [1980, p.97-111, rus] **35-1318**
Ecosystem of Arctic drift ice [1980, p.61-97, rus] **35-1317**
Studying the pelagic zone ecosystem in the Central Arctic Basin [1980, p.5-14, rus] **35-1313**
Mel'nikov, P.I.
History of permafrost development in Eurasia as exemplified by its regions [1981, 198p., rus] **35-4065**
International forum of geocryologists [1979, p.109-119, rus] **35-3470**
Permafrost studies related to the development of measures for environmental protection in the North [1980, p.3-8, rus] **35-3306**
Mel'nikov, V.B.
Ultimate stability stripping area for chamber roofs in perennially frozen placer mines [1980, p.52-54, rus] **35-866**
Mel'nikov, V.P.
Geophysical methods of studying permafrost in the USSR [1980, 51p., rus] **35-1928**
Mel'nikova, T.V.
Climatic conditions of the Magadan Region [1976, p.5-21, rus] **35-3826**
Methods of meteorological observations (snow measuring observations) [1980, 5p., eng] **35-981**
Mel'tser, M.S.
Calculating the decrease of soil temperature beneath thermopile foundations [1980, p.19-20, rus] **35-2781**
Melua, A.I.
Use of satellites in surveying for urban construction [1981, 159p., rus] **35-4310**
Memorial University of Newfoundland. Centre for Cold Ocean Resources Engineering
Microwave systems for detecting oil slicks in ice-infested waters: phases 2 and 3 [1980, 63p., eng] **35-2106**
Mentaito, L.N.
Influence of low soil temperature on hormonal metabolism of common pine [1980, p.70-74, rus] **35-958**
Men'shov, B.G.
Evaluating conditions of lightning protection on northern petroleum fields [1980, p.35-37, rus] **35-629**
Lightning protection in electrical installations of northern gas fields [1980, p.33-36, rus] **35-628**
Reliability of electrical equipment under northern conditions [1980, p.25, rus] **35-3011**
Menukhov, I.I.
Accuracy of measuring zenith distances in freezing weather [1980, p.32-33, rus] **35-633**
Meteorological and geodetic refraction coefficients in the presence of snow cover [1980, p.36-40, rus] **35-930**
Menzies, J.
Temperatures within subglacial debris: a gap in our knowledge [1981, p.271-273, eng] **35-3606**
Mercer, J.B.
Remote sounding of sea ice-past, present and future applications [1980, p.1-22, eng] **35-546**
Mercier, G.
Production system is planned for iceberg infested waters [1980, p.81-86, eng] **35-831**
Merenkov, N.D.
Post-construction roadbed stabilization in thermokarst areas [1981, p.3-4, rus] **35-2075**
Swelling of frozen soils and its effect on structure foundations [1980, 286p., eng] **35-1697**

Merklinger, H.M.
LNG carrier underwater noise study for Baffin Bay [1981, 14p. + 14 figs., eng] **35-4223**

Merkulov, D.M.
Preventing naled formation on streams constantly supplying water for ice growth [1981, p.38-39, rus] **35-2082**

Merlivat, L.
Evidence of climatic change in Antarctica over the last 30,000 years from the Dome C ice core [1981, p.217-225, eng] **35-3032**

Mermut, A.R.
Microband fabric in seasonally frozen soils [1981, p.578-586, eng] **35-4082**

Merna, R.L.
Feasibility of helicopter support Seek Frost [1980, 54p., eng] **35-1578**

Merritt, R.G.
Digital simulation of snowmelt runoff [1978, 107p., eng] **35-530**

Merry, C.J.
Materials availability study of the Dickey-Lincoln dam site [1980, p.158-170, eng] **35-153**

Mertz, R.W.
Deepwater vibrator operations Beaufort Sea, Alaska, 1979 winter season [1981, p.172-181, eng] **35-2578**

Merzliakov, V.P.
Unfrozen water effect on thermal deformations of freezing clayey soils [1980, p.20-24, rus] **35-1034**

Meshchikhin, D.A.
Traces of periglacial phenomena in the Chaglinka River valley [1979, p.131-140, rus] **35-195**

Metcalfe, J.R.
AES Nipher shields for recording precipitation gauges: an assessment [1980, p.196-198, eng] **35-3162**

Metge, M.
Oil in moving pack laboratory study [1979, p.225-264, eng] **35-175**

Thermal cracks in lake ice [1976, 204p., eng] **35-275**

Methodologies for the study of snow phenomena
Methodologies for the study of snow phenomena [1979, 153p., ita] **35-947**

Metz, M.C.
Present condition (1980) of the TAPS gravel workpad [1981, p.678-692, eng] **35-2530**

Metzner, R.C.
Flatjack methods of in-situ measurement of the mechanical properties of sea ice [1979, p.196-202, eng] **35-1111**

Miachkova, N.A.
Role of air masses in the formation of winter air temperature in West Siberia [1980, p.106-118, rus] **35-1452**

Miaemets, A.A.
Siberian Arctic species *Potamogeton subsibiricus* (*Potamogeton aceae*) in Bol'shezemel'skaya tundra [1980, p.1022-1023, rus] **35-397**

Miagkov, S.M.
Areas of bottom melting of ice cover in the Transantarctic Mountains [1980, p.103-106, rus] **35-2042**

Causes of mountain glacier oscillation in antarctic dry valleys [1980, p.95-98, rus] **35-2040**

Engineering geography of mountain regions: subject matter and current problems [1980, p.66-73, rus] **35-1439**

Evolution of McMurdo Oasis glaciers according to photo-theodolite survey [1980, p.99-102, rus] **35-2041**

Past and future of antarctic glaciation [1980, p.79-86, eng] **35-1007**

Relief-forming activity of the Ross and McMurdo Shelf glaciers, Antarctica [1980, p.84-91, rus] **35-951**

Workshop session of the authors of avalanche maps, prepared for the World Atlas of Snow and Ice resources [1980, p.26-27, rus] **35-2809**

Michel, B.
Impact properties of St. Lawrence River ice [1971, 78p., fre] **35-329**

Interpretation of Alberta ice jams data [1980, 15p., eng] **35-839**

Laws and mechanisms of apparent brittle fracture of river and lake ice [1971, 393p., fre] **35-330**

On river ice hydraulics (a discussion) [1981, p.182-190, eng] **35-2550**

Michel, F.
Laboratory studies to investigate isotope effects occurring during the formation of permafrost [1978, 43p., eng] **35-2537**

Michler, G.
Topographic control of the polar front off southern Greenland [1979, p.63-69, ger] **35-2645**

Mickle, R.E.
Note on albedo variations of the frozen surface of Lake Simcoe during March, 1978 [1980, p.168-176, eng] **35-2458**

Middlebrooks, E.J.
Energy and costs for agricultural reuse of wastewater [1980, p.339-346, eng] **35-2572**

Mikhailov, G.D.
Selection of the type of ground for roadbed construction [1981, p.12-15, rus] **35-2098**

Mikhailov, I.S.
Prospects of utilization and preservation of land resources in the non-chernozem zone of the RSFSR [1980, p.35-41, rus] **35-1424**

Mikhailov, IU.P.
Forest resources of West Siberian taiga and their utilization [1980, p.5-50, rus] **35-881**

Taiga vegetation and environmental protection [1979, p.1674-1681, rus] **35-347**

Mikhailov, L.P.
Giant power plant in the Sayan Mountains [1980, 104p., rus] **35-1271**

Mikhailov, N.I.
Allowing for environmental protection when designing partial redirection of Siberian rivers [1979, p.121-127, rus] **35-2329**

Forecasting changes in landscapes, bio- and medico-geographic conditions due to changing river courses in the central region of the USSR [1980, p.82-89, rus] **35-1429**

New data on the landscape structure of the forest-swamp zone in the Central Region [1980, p.95-101, rus] **35-1337**

Mikhailov, V.A.
Using analog computers in preliminary processing of satellite data [1980, p.125-130, rus] **35-2983**

Mikhailov, V.I.
Studies of the temperature-dependence of the brine content of sea ice by the pulse NMR method [1981, 6p., eng] **35-2589**

Study of the temperature-dependence of the brine content in sea ice by the pulsed NMR method [1980, p.535-537, eng] **35-3304**

Mikhailov, V.M.
Regionalization of the northeastern USSR according to winter soil temperatures [1980, p.90-93, rus] **35-2283**

Mikhailova, L.A.
Persistence of winters in plains of the Soviet Union [1981, p.24-44, rus] **35-3968**

Mikhal'chenko, O.A.
Construction of petroleum industry objects in Western Siberia [1980, p.4-5, rus] **35-1031**

Mikhalev, O.I.
Investigation of organic additive aggregation processes in frozen water-salt systems [1980, p.377-379, rus] **35-1388**

Mikhaleva, V.M.
Revegetation of different kinds of felled areas in alder-cranberry-larch forests of southwestern Yakutia [1971, p.34-51, rus] **35-1392**

Mikhankov, IU.M.
Applying system analysis to modeling geomorphologic consequences of river diversion [1980, p.120-123, rus] **35-3129**

Mikheev, V.S.
Long range program of complex studies of the Ob'-Irtysh Natural Resource Development Center [1979, p.3-16, rus] **35-2321**

Problems in satellite studies of Siberia [1980, p.15-28, rus] **35-3476**

Regularities governing the formation of elementary geosystems (the central taiga structures of Sos'vinskoe Priob'e as an example) [1978, 124p., rus] **35-3819**

Statistical and functional relations between central taiga structures of topologic order [1978, p.42-69, rus] **35-3822**

Miklishanskii, A.Z.
Levels and composition of the mineral components in ice cores from central Antarctica [1980, p.152-158, eng] **35-4148**

Milburn, H.B.
New sediment trap and particulate flux measurements in Lower Cook Inlet, Alaska [1979, p.269-282, eng] **35-3810**

Miller, D.L.
Soil and permafrost conditions in the Alaskan Beaufort Sea [1980, p.325-338, eng] **35-3637**

Miller, J.W.
Student Science Training program 1979; Juneau icefield, Alaska and the Atlin region, B.C.-Yukon, Canada. Final report [1979, 15p., eng] **35-2016**

Miller, M.C.
Growth conditions and vitality of *Sphagnum* in a tundra community along the Alaska pipeline haul road [1981, p.48-54, eng] **35-4050**

Macrobenthos [1980, p.297-339, eng] **35-1754**

Miller, M.G.
Oil spill effects [1980, p.388-406, eng] **35-1756**

Physics [1980, p.51-75, eng] **35-1750**

Zooplankton [1980, p.251-296, eng] **35-1753**

Miller, M.M.
1979 Undergraduate Research Participation program; Juneau icefield, Alaska and the Atlin region, B.C.-Yukon, Canada. Final report [1980, 34p., eng] **35-2017**

Student Science Training program 1979; Juneau icefield, Alaska and the Atlin region, B.C.-Yukon, Canada. Final report [1979, 15p., eng] **35-2016**

Miller, O.K.
Microflora: composition, biomass, and environmental relations [1980, p.255-290, eng] **35-1937**

Miller, P.C.
Arctic ecosystem the coastal tundra at Barrow, Alaska [1980, 571p., eng] **35-1929**

Biophysical processes and primary production [1980, p.66-101, eng] **35-1932**

Canopy structure and environmental interactions [1979, p.428-458, eng] **35-1784**

Carbon and nutrient budgets and their control in coastal tundra [1980, p.458-482, eng] **35-1941**

Control of tundra plant allocation patterns and growth [1980, p.140-185, eng] **35-1934**

Photosynthesis [1980, p.102-139, eng] **35-1933**

Some aspects of plant water relations in Alaskan arctic tundra species [1981, p.205-218, eng] **35-4093**

Vegetation: pattern and succession [1980, p.187-218, eng] **35-1935**

Miller, R.D.
Adsorbed film controversy [1980, p.83-86, eng] **35-820**

Computation of rate of heave versus load under quasi-steady state [1980, p.243-251, eng] **35-741**

Experimental studies with frozen soil in an "ice sandwich" permeameter [1980, p.177-183, eng] **35-733**

Freezing phenomena in soils [1980, p.254-299, eng] **35-1781**

Miller, T.W.
Surface heat balance in simulations of permafrost behavior [1979, p.240-250, eng] **35-1110**

Milnes, A.G.
Dynamics and structure of Griesgletscher, Switzerland [1980, p.215-228, eng] **35-1818**

Milovanov, A.F.
Allowing for low temperature effects in structural design [1980, p.25-26, rus] **35-471**

Mindrin, V.I.
Pneumo-protection of water intakes in heat- and electric power plants from ice and slush [1980, p.64-65, rus] **35-605**

Mineeva, O.N.
Increment and defoliation of shrubs and dwarf shrubs (hypoarctic and arctoalpine species) [1981, p.80-83, rus] **35-3510**

Minell, H.
Case history of discovery and exploration of Pleutajokk uranium deposit, northern Sweden [1977, p.72-79, eng] **35-2726**

Distribution of local bedrock material in some moraine forms from the inner part of northern Sweden [1980, p.275-281, eng] **35-2142**

Genesis of tills in different moraine types and the deglaciation in a part of central Lappland [1979, 83p. + maps, eng] **35-3408**

Minin, V.M.
Role of annual flow distribution in water conditions of the Pechora River estuary [1980, p.25-27, rus] **35-3109**

Minkler, P.
Overconsolidated surficial deposits on the Beaufort Sea shelf [1980, 37p., eng] **35-1914**

Overconsolidated surficial deposits on the Beaufort Sea shelf [1981, p.284-312, eng] **35-3263**

Minsk, L.D.
Application of removal and control methods Section 1: Railways; Section 2: Highways; Section 3: Airports [1981, p.671-706, eng] **35-3763**

Icing on structures [1980, 18p., eng] **35-2003**

Snow removal equipment [1981, p.648-670, eng] **35-3762**

Minutes of the Colloquium Security and Freedom in the Mountains in Winter, Paris, Oct. 29, 1980
Minutes of the Colloquium Security and Freedom in the Mountains in Winter, Paris, Oct. 29, 1980 [1981, p.64-87, fre] **35-4048**

Miotke, F.-D.
Microclimate and weathering processes in the area of Darwin Mountains and Bull Pass, Dry Valleys [1980, p.14-16, eng] **35-3168**

On physical weathering in Taylor Valley, Victoria Land, Antarctica [1979, p.117-142, ger] **35-1310**

Mironov, S.A.
Frost resistance of concretes of different strengths [1980, p.14-16, rus] **35-1648**

Mironov, V.A.
Construction-engineering properties of peat soils in the Komi ASSR [1980, p.19-20, rus] **35-1033**

Mironov, V.I.
Working tool of the ETTs-163M for wet soil excavation [1980, p.46-47, rus] **35-1640**

Miroshnichenko, A.V.
Problems of the Far North: the method of industrial outposts [1980, p.11-12, rus] **35-614**

Miroshnichenko, I.P.
Studying basic parameters and architectural-structural design of universal dry-cargo ships for ice navigation [1979, p.3-14, rus] **35-536**

Miroshnichenko, V.I.
Ice nuclei concentrations measured from helicopters [1980, p.133-137, rus] **35-26**

SALIA-1 cloud chamber designed by the Central Aerological Observatory for airborne measurements of ice nuclei concentration [1980, p.123-127, rus] **35-24**

Miroslavov, E.A.
Ultrastructure of cells of leaf chlorenchyma in some Arctic plants [1980, p.1523-1530, rus] **35-3215**
Mirsakov, L.M.
Improving watertightness of large panel buildings [1980, 95p., rus] **35-1575**
Mishima, O.
Phase relations of ice under pressure [1980, p.2454-2456, eng] **35-442**
Mishin, V.A.
Double-blade snowplow DE-223 [1980, p.10, rus] **35-539**
Mishin, V.E.
Designing thermometric apparature for studies from drifting ice in the Arctic Basin [1980, p.87-93, rus] **35-376**
Misnik, IU.M.
Determining the magnitude of force required for layer-by-layer excavation of frozen rocks treated with ultra-high frequency electromagnetic fields [1980, p.69-74, rus] **35-2455**
Mitchell, W.W.
Alaskan-developed grass varieties coming into use [1981, p.56-58, eng] **35-1695**
Mitrofanov, D.P.
Mountain forests of the Baykal-Amur railroad zone [1980, 224p., rus] **35-936**
Mittleman, J.
Cold oil salvage pumps [1980, p.239-251, eng] **35-827**
Mitton, J.B.
Genetic differentiation among growth forms of Engelmann spruce and subalpine fir at tree line [1977, p.259-263, eng] **35-1905**
Mizukoshi, M.
Improved representation of snow-control costs as a function of snow-disaster index and population [1979, p.205-210, jap] **35-268**
Mizuno, Y.
On the formation of snow crystals in a vertical wind tunnel [1980, p.29-32, jap] **35-1065**
Mochalov, V.P.
Basic problems in modeling mudflow processes [1980, p.3-9, rus] **35-1799**
Causes of mudflow formation in the Issyk River basin [1980, p.64-67, rus] **35-211**
Regimes of morainal lakes and ways of their melioration [1980, p.113-119, rus] **35-215**
Mochman, L.E.
New tower crane KB-504 [1980, p.12-14, rus] **35-1357**
Modianov, A.N.
Surface biomass of woody plants in the northern green-moss-type taiga [1971, p.50-51, rus] **35-2608**
Modylevskii, A.B.
Winter concreting of road pavements [1981, p.48-49, rus] **35-2100**
Moffatt, D.
Snow in the biotic environment [1980, p.163-168, eng] **35-48**
Moiseichik, E.A.
Design values of subzero temperatures for manufacturing, installation and operation of steel structures [1980, p.12-15, rus] **35-1363**
Molenar, J.V.
Heavy metal enrichment in antarctic snow and firn [1979, p.76-78, eng] **35-657**
Meteorological and seasonal effects of snow chemistry of [illegible] [1981, p.27-37, eng] **35-4147**
Temporal variations and correlations in the chemistry of snow on Ross Ice Shelf [1979, p.72-74, eng] **35-655**
Time-related changes in snow chemistry - Ross Ice Shelf, Antarctica [1981, p.27-39, eng] **35-2416**
Moline, M.
Bibliography on northern sea ice and related subjects [1980, 194p., eng] **35-890**
Molnau, M.
Snow drifting on phosphate mine dumps in southeastern Idaho [1980, p.31-42, eng] **35-2224**
Molokov, V.A.
Effect of young forest strips on snow cover distribution over the south of Krasnoyarsk region [1978, p.76-83, rus] **35-1099**
Experience in quantitative evaluation of the bedrock and topography effects on the formation of forest soil properties [1980, p.53-57, rus] **35-299**
Multivariate statistical method of classifying dark conifer mountain forest soils in South Siberia [1980, p.163-170, rus] **35-3480**
Soils of dark conifer forests in the Khamar-Daban mountains and history of their development [1980, p.167-169, rus] **35-2306**
Using the phenointegral method in studying bioclimatic conditions of dark conifer mountain taiga [1972, p.268-275, rus] **35-1382**
Mon, K.K.
Surface widths of simple liquids and an empirical law of freezing [1981, p.2078-2080, eng] **35-2461**
Monakhov, A.K.
Aerial photography in the revision of large-scale soil maps in the non-chernozem zone [1980, p.355-356, rus] **35-109**
Montagne, J.
University course in snow dynamics - a stepping-stone to career interests in avalanche hazards [1980, p.97-103, eng] **35-2352**
Montgomery, C.J.
Dynamic structural response of a massive pier [1979, 47p., eng] **35-116**
Dynamic tests and analysis of a massive pier subjected to ice forces [1980, p.432-441, fre] **35-835**
Moore, D.M.
Marine life and its environment [illegible]ne Canadian Eastern Arctic: a biogeographic study [198[illegible]119p., eng] **35-1760**
Moore, E.
Hydrodynamic effects on iceberg gouging [1981, p.55-61, eng] **35-2418**
Moore, H.
Snow cover, snowmelt and runoff in the Mackenzie basin [1979, p.449-460, eng] **35-429**
Moore, H.E.
Excavation of frozen materials [1980, p.323-345, eng] **35-1985**
Moore, J.J.
Tundra ecosystems: a comparative analysis [1981, 813p., eng] **35-3373**
Moore, J.W.
Factors influencing the diversity, species combination and abundance of phytoplankton in twenty-one arctic and subarctic lakes [1979, p.485-499, eng] **35-246**
Moore, S.
Recent developments in strainmeter design [1980, p.97-125, eng] **35-3840**
Moore, S.C.
Direct measurement of the attenuation of ocean waves by pack ice [1980, p.365-368, eng] **35-1465**
Moore, S.D.
Conquering Alaska's Arctic drilling problems. Part 1 Operations [1981, p.79, 82, 84, 88, eng] **35-3210**
Conquering Alaska's arctic drilling problems. Part 3 Completion techniques and drilling rigs [1981, p.96-100, eng] **35-3814**
Conquering Alaska's Arctic drilling problems. Pt.2 Drilling procedures [1981, p.90, 94, 96, 100, eng] **35-3639**
Moore, T.P.
Characteristics of podzolised soils formed in carbonate-bearing tills in the Schefferville area [1981, p.85-95, eng] **35-3980**
Environmental studies in the central Quebec Labrador peninsula [1981, 141p., eng] **35-3975**
Morack, J.L.
Beaufort seacoast permafrost studies [1981, p.1-44, eng] **35-3235**
Geophysical evidence of shallow nearshore permafrost, Prudhoe Bay, Alaska [1980, p.4845-4853, eng] **35-1117**
Moran, S.R.
Glacier-bed landforms of the prairie region of North America [1980, p.457-476, eng] **35-1508**
Mordukhovich, I.M.
Porous fiberglass insulation used in modular construction [1981, p.17-19, rus] **35-2079**
Morehouse, R.K.
Urban design lessons for Alaska [1981, p.16-23, eng] **35-2498**
Moretskii, V.N.
Possible effects of human activities on the desalted layer of the Kara Sea [1980, p.124-126, rus] **35-3130**
Morev, V.A.
Drilling through shelf ice near Novolazarevskaya Station [1979, 11p., eng] **35-1057**
Morey, R.M.
Investigations of sea ice anisotropy, electromagnetic properties, strength and under-ice current orientation [1980, p.109-153, eng] **35-550**
Investigations of sea ice anisotropy, electromagnetic properties, strength, and under-ice current orientation [1980, 18p., eng] **35-1891**
Morgan, K.A.
Stratigraphy and glacial-marine sediments of the Amerasian basin, central Arctic Ocean [1980, 57p. + maps, eng] **35-1844**
Morgan, V.I.
Antarctic iceberg melt rates derived from size distributions and movement rates [1980, p.103-112, eng] **35-2214**
Mass balance studies in East Antarctica [1981, p.253-260, eng] **35-3037**
Morgunov, IU.L.
Calculating parameters of earth-fill cones used in avalanche protection [1980, p.64-73, rus] **35-3575**
Using the propagation peculiarities of wind waves originating from avalanche-triggering explosions [1980, p.41-46, rus] **35-3573**
Moribayashi, S.
Glaciological studies on the perennial snow patches in Tsurugisawa, Part 2 (Ablation and climate) [1980, p.1-28, jap] **35-1064**
Measurements of water vapor condensation on the surface of perennial snow fields [1980, p.118-121, rus] **35-1239**
Morin, G.
Comparison of snow cover retreat calculated by the CEQUEAU hydrologic model to that estimated with the help of ESSA-8 satellite imagery [1979, p.424-448, fre] **35-428**
Morin, P.
Production system is planned for iceberg infested waters [1980, p.81-86, eng] **35-831**
Morin, V.A.
Problems of rating protective and preventive forest strips in the eastern part of the Baykal-Amur railroad area [1979, p.11-26, rus] **35-1520**
Morita, K.
11- and 18-GHz radio wave attenuation due to precipitation on a slant path [1980, p.580-585, eng] **35-2413**
Moritz, R.E.
Fast ice regimes of the Beaufort and Chukchi Sea coasts, Alaska [1979, p.129-152, eng] **35-699**
Moriwaki, K.
Glacio-geomorphological observations in Cape Omega on the Prince Olav Coast, East Antarctica [1980, p.1-14, eng] **35-1054**
Morkovkina, I.K.
Isotope methods of studying rock stream formation [1981, p.90-96, rus] **35-3300**
Peculiarities of water exchange between the Aldan hydrogeologic massive, the Baykal-Aldan and the Amur-Ussuriyskaya folded areas [1981, p.85-90, rus] **35-3299**
Morland, L.W.
Constitutive laws for ice [1979, p.101-108, eng] **35-696**
Steady motion of ice sheets [1980, p.229-246, eng] **35-1819**
Viscoelastic constitutive laws for ice [1980, 56p., eng] **35-3076**
Moroz, V.F.
Selecting parameters of metallic arch sets for Magadan mines [1977, p.154-155, rus] **35-70**
Morozov, G.A.
Hydrologic studies and land reclamation in Siberia [1977, 86p., rus] **35-1289**
Morozov, V.N.
Testing peat soils with cylindrical- and flat-base dies [1980, p.12-14, rus] **35-1634**
Morozova, L.N.
[illegible] and the continental shelf of East Arctic seas in the USSR [1980, p.91-98, rus] **35-952**
Morozova, N.S.
Phase composition of water in the frozen soils of the Vyatka River basin [1978, p.255-260, eng] **35-3684**
Morozova, R.M.
Role of atmospheric precipitation in the nitrogen and ash-element cycle of spruce forests in Karelia [1970, p.93-94, rus] **35-2618**
Morris, S.E.
Topoclimatic factors and the development of rock glacier facies, Sangre de Cristo Mountains, southern Colorado [1981, p.329-338, eng] **35-4264**
Moscow. Nauchno-issledovatel'skii institut osnovanii i podzemnykh sooruzhenii
Foundation design manual for buildings and structures [1977, 276p., rus] **35-1711**
Recommended practice of using chemical means of preventing [illegible] ground [1974, 17p., rus] **35-1712**
Moscow. Tsentral'nyi nauchno-issledovatel'skii i proektnoeksperimental'nyi institut organizatsii, [illegible]
Instructions for using formwork for cast-in-place reinforced concrete structures, No.3 [1974, 142p., rus] **35-1719**
Moscow. Tsentral'nyi nauchno-issledovatel'skii institut stroitel'nykh konstruktsii
Manual for the erection, without heating, of monolithic complex structures of brick buildings in East Siberia in areas of 7-8 point earthquake magnitude [1976, 32p., rus] **35-1716**
Mosienko, V.G.
Studying concrete strength after the introduction of some anionic surface-active substances [1980, p.64-66, rus] **35-308**
Moskal', T.N.
Results of applying a numerical method of calculating ice conditions in the Barents Sea during the fall-winter period [1980, p.45-54, rus] **35-3492**
Moskalenko, N.G.
Landscape indications used in forecasting changes in engineering-geocryological conditions due to economic development [1980, p.8-18, rus] **35-3307**
Study of the dynamics of vegetative cover damaged by industrial activities [1980, p.144-164, rus] **35-1454**
Moskalets, V.F.
Mathematical model of ice clearance from Lake Baykal [1980, p.137-143, rus] **35-3475**
Moskalev, IU.D.
Avalanche movement, impact and wind [1980, p.13-22, rus] **35-3571**
Drop height and ejection distance of avalanches, ice and rock cave-ins [1980, p.41-50, rus] **35-714**
Exclusion of the atmospheric background effect and calculation of snow water reserves from aerial gamma-survey data [1980, p.127-138, rus] **35-3584**

Moskalevskii, M.IU.
Composition of morainal silt of Spitsbergen Archipelago glaciers [1979, p.102-109, rus] **35-1832**

Moskaliuk, T.A.
Biomass reserves and structure of basic larch forest types in the northern Okhotsk Sea area [1979, p.16-27, rus] **35-4325**

Moskvin, IU.P.
Determining evaporation from hummocky bogs [1980, p.67-75, rus] **35-1871**

Mosley, M.P.
Slope and slope processes [1981, p.114-122., eng] **35-3565**

Mosley-Thompson, E.
911 years of microparticle deposition at the South Pole: a climatic interpretation [1980, 134p., eng] **35-3809**
Glaciological interpretation of microparticle concentrations from the French 905-m Dome C, Antarctica, core [1981, p.227-234, eng] **35-3033**
Glaciological interpretation of the microparticle concentration in the 905-meter Dome C core [1980, p.71-75, eng] **35-3180**
Microparticle concentration variations linked with climatic change: evidence from polar ice cores [1981, p.812-815, eng] **35-3773**
Microparticle deposition at South Pole [1979, p.91-93, eng] **35-665**

Moslow, T.F.
Coastal morphology, sedimentation and oil spill vulnerability of the outer Kenai Peninsula and Montague Island [1980, p.5-13, eng] **35-1151**

Moss, A.J.
Static breakage of granitic detritus by ice and water in comparison with breakage by flowing water [1981, p.261-272, eng] **35-4024**

Mostkov, V.M.
Problems of lightening underground structures and methods of constructing them under permafrost conditions [1980, p.131-140, eng] **35-963**

Mostovoi, G.A.
Thermal regime of elevated water tanks for fire-fighting in the Far North [1980, p.5-6, rus] **35-463**

Mote, C.D., Jr.
Identification of lower extremity dynamics during snow skiing [1980, p.123-130, eng] **35-2154**

Motrich, L.T.
Artificial intrapermafrost taliks for winter water supply in mountains [1976, p.77-84, rus] **35-3833**

Mozgovoi, V.F.
Liquid nitrogen technique of artificial rock freezing when sinking shafts [1980, p.17-18, rus] **35-2636**

Mozhaev, A.P.
Cryocalorimetry of the solution of ice and frozen water-soluble salt granules in organic solvents [1979, p.78, rus] **35-1274**
Low temperature scanning calorimetry technique of studying crystallization of water solutions of sulfates [1979, p.79, rus] **35-1275**
Studying processes of ice cryoextraction by organic solvents [1979, p.80, rus] **35-1276**

Mozley, S.
Macrobenthos [1980, p.297-339, eng] **35-1754**

Mukhanov, K.K.
Statistical analysis of the high strength steel 12GN2MFAIU [1981, p.133-136, rus] **35-4292**

Mukhin, V.M.
Glacier alimentation and possibilities of long-range forecasting runoff of mountain rivers in catchment areas with widespread glaciation [1980, p.42-49, 124-129, rus] **35-2815**

Mukushev, V.K.
Using deep, cable-type bench marks of improved structure in monitoring slide slope deformations [1980, p.80-84, rus] **35-773**

Muliukov, E.I.
Equipment for chemical soil stabilization [1980, p.21-22, rus] **35-1028**

Müller, A.
Measurement of the shear stress on the underside of simulated ice covers [1980, 11p., eng] **35-1723**

Müller, F.
Local snow distribution on Axel Heiberg Island, Canada: an empirical method of extrapolation from snow-course data on White Glacier [1980, p.211-223, eng] **35-2628**

Mulligan, J.C.
Experimental observations of flow instability during turbulent flow freezing in a horizontal tube [1980, p.782-784, eng] **35-1679**

Mulvihill, C.E.
Fluorescent boxes help spot hydrants in Alaskan snow [1981, p.110-111, eng] **35-3861**

Munro, D.S.
Net shortwave radiation model for glacierized basins [1980, p.159-169, eng] **35-3155**

Murat, J.R.
Axi-symmetric finite element formulation of non-homogeneous floating ice sheets. Part 1 – Linear analysis [1976, 45p., eng] **35-575**
Small scale surface strain measurement on sea ice [1980, p.55-74, eng] **35-3838**

Murav'eva, A.A.
Problems of the Far North: the method of industrial outposts [1980, p.11-12, rus] **35-614**

Muravlenko, V.I.
Industrial construction on frozen peat [1980, 144p., rus] **35-280**

Murayama, M.
Treatment and disposal system of waste materials at Mizuho Station [1981, p.49-60, jap] **35-4174**

Muro, T.
On drawbar pull of tracked oversnow vehicle [1980, p.101-108, jap] **35-269**
On trafficability of tracked oversnow vehicle – energy analysis for track motion on snow covered terrain [1980, p.93-100, jap] **35-273**
Plate loading and vane-cone test measurements for fresh and sintered snow [1980, 32p., eng] **35-2010**

Murphy, R.L.
Contractor support [1979, p.238-239, eng] **35-684**

Murr, L.E.
Transmission electron microscopy study of particulate concentrations in seven individual snowflakes [1980, p.39-43, eng] **35-817**

Murray, D.F.
Coastal tundra at Barrow [1980, p.1-29, eng] **35-1930**

Murray, R.S.
Freeze-dried and critical-point-dried clay: a comparison [1980, p.232-234, eng] **35-224**

Murty, A.S.
Snow and glacier contributions in a Western Himalayan catchment [1980, p.121-125, rus] **35-1240**

Murusidze, R.Kh.
Experimental study of dynamic loads exerted by ground on bridge piers [1980, p.50-55, rus] **35-146**

Murzin, IU.A.
Ground ice of the naled glades in east Siberian mountains [1980, p.103-114, rus] **35-4000**
Paleocryogenic structure of fluvio-glacial deposits in valleys of the Baykal Mountains [1980, p.153-156, rus] **35-3331**

Muzyka, A.I.
Studying the height of the upper boundary of winter frontal clouds from radar data [1980, p.142-145, rus] **35-2996**

Myznikov, IU.N.
Core of the Ust'-Khantai hydroelectric plant dam [1980, p.58-61, rus] **35-10**
Preparation of permafrost bases for earth-rock-fill dams, when the permafrost beneath streams is cut by taliks [1981, p.47-53, rus] **35-3339**

Nabutovskii, V.I.
Using helicopters in power line construction in the central Ob' River swamps [1981, p.13-14, rus] **35-2774**

Nadeliaev, A.G.
Subarctic hydrologic front in the central area of the northern Pacific [1979, p.161-171, rus] **35-4198**

Nadutkin, V.D.
Surface biomass of woody plants in the northern green-moss-type taiga [1971, p.50-51, rus] **35-2608**

Nagata, T.
Earth sciences research in the McMurdo Sound region, 1979-1980 [1980, p.12, eng] **35-3167**
Effect of electric currents on the nucleation of ice crystals in the melt [1981, p.207-210, eng] **35-3850**

Nagler, R.G.
Polar environmental monitoring: final report [1979, 94 leaves, eng] **35-1309**

Nagornov, I.K.
Slope and stream erosion in source areas of dispersed mudflows [1980, p.78-81, rus] **35-1811**

Nagurnyi, A.P.
Vertical structure of the small-scale turbulent friction coefficient in the upper layer of the Arctic Basin [1979, p.116-120, rus] **35-4195**

Naidenova, K.A.
Automatic classification technique of cloud determination against the background of snow landscapes [1980, p.163-169, rus] **35-2442**

Naidu, A.S.
Some geochemical characteristics of Bering Sea sediments [1980, p.305-319, eng] **35-4146**

Nairn, A.E.M.
Ocean basins and margins. Volume 5, The Arctic Ocean [1981, 672p., eng] **35-3431**

Nakamura, H.
On measurements of solar radiation, collection of the solar energy and feasibility for the snow melting by the energy in winter of Shinjo area [1980, p.245-270, jap] **35-2891**

Nakamura, J.
C-axes growth rate of ice crystals [1976, p.219-230, eng] **35-4294**

Nakamura, T.
Grain-boundary relaxation peak of Antarctic Mizuho ice observed in internal friction measurements at low frequency [1979, p.165-171, eng] **35-520**
On measurements of solar radiation, collection of the solar energy and feasibility for the snow melting by the energy in winter of Shinjo area [1980, p.245-270, jap] **35-2891**

Nakano, Y.
Particular solutions to the problem of horizontal flow of water and air through porous media near a wetting front [1980, p.81-85, eng] **35-844**
Particular solutions to the problem of vertical flow of water and air through porous media near a water table [1980, p.124-133, eng] **35-845**
Theory and numerical analysis of moving boundary problems in the hydro-dynamics of porous media [1978, p.125-134, eng] **35-843**
Traveling wave solution to the problem of simultaneous flow of water and air through homogeneous porous media [1981, p.57-64, eng] **35-2796**

Nakao, K.
Climatic changes in the interior Alaska [1980, p.16-23, eng] **35-1560**
Climatic changes in the interior Alaska; report of the Alaska Paleolimnology Research Project 1977 78 79 [1980, 77p., eng] **35-1557**
Origin of Harding Lake [1980, p.1-8, eng] **35-1558**
Sedimental process in Harding Lake [1980, p.24-35, eng] **35-1561**
Water budget and lake-level stability of Harding Lake [1980, p.9-15, eng] **35-1559**

Nakassis, A.
Oilspill risk analysis for the Kodiak Island (proposed sale 46) [1980, 40p. + 22 appends., eng] **35-155**

Nakatao, T.
Improved representation of snow-control costs as a function of snow-disaster index and population [1979, p.205-210, jap] **35-268**

Nakawo, M.
Canadian field activities in ice engineering, Pt. 1 [1981, p.107-114, jap] **35-4270**
Heat exchange at surface of built-up ice platform during construction [1980, p.323-333, eng] **35-749**
Observation of snow particles at Hidden Valley, Mukut Himal [1978, p.42-44, eng] **35-54**

Nakhabtseva, S.F.
Flora of the Saskylakh village area (the Anabar River, northwestern Yakutia) [1980, p.1560-1568, rus] **35-3218**

Nakhutsrishvili, G.Sh.
Productivity of high altitude grass communities in the central Caucasus [1980, 159p., rus] **35-3899**

Nalimov, IU.V.
Possible changes in ice conditions and mechanical properties of ice in the estuary area of Ob' River due to partial flow diversion [1980, p.87-89, rus] **35-3119**

Namba, J.
Effect of the diffusion field of water vapor and the crystal size on the morphology of ice crystals grown from the vapor phase [1981, p.60-63, eng] **35-3520**

Nansteel, M.W.
Investigation of a two-phase, moving boundary system, with convection at the solid-liquid interface [1979, p.112-119, eng] **35-3354**

Napetvaridze, Sh.G.
Seismic stability of transport-related structures [1980, 132p., rus] **35-144**

Naplekova, N.N.
Dynamics of biologic activity in soddy, deeply podsolized soils of Salair [1974, p.153-156, rus] **35-1214**

Naprasnikov, A.T.
Differentiation of soil cover of the Stanovoy Uplands according to cryogenesis and natural conditions [1980, p.71-73, rus] **35-2275**

Nargizian, E.A.
Improving the methods of optimizing thermal insulation levels of buildings (discussion) [1979, p.15-16, rus] **35-464**

Narita, H.
Mechanical behaviour and structure of snow under uniaxial tensile stress [1980, p.275-282, eng] **35-2370**
Model and field experiments for development of ice resistant offshore structures [1980, p.307-314, eng] **35-3635**

Naruse, R.
Ablation study on the Yukikabe snow patch in the Daisetsu Mountains [1981, p.97-100, jap] **35-4268**
Characteristics on the distribution of snow accumulation in Sapporo [1978, p.139-153, jap] **35-1182**
Differences in snow-melting rate between urban and rural areas in Sapporo [1978, p.155-168, jap] **35-1183**
On the formation of snow crystals in a vertical wind tunnel [1980, p.29-32, jap] **35-1065**
Urban-rural differences in the daily minimum air temperature during nocturnal radiative cooling in Sapporo [1978, p.121-137, jap] **35-1181**

Nason, D.
Transition layer on the surface on ice [1980, p.357-363, eng] **35-1063**

Nasonov, I.D.
Studying artificial freezing parameters for driving horizontal workings [1980, 248p., rus] **35-384**

Nasser, K.W.
New method and apparatus for testing air content of fresh concrete in situ [1980, p.472-476, eng] **35-1493**

Nasybulin, Sh.S.
Representativeness of runoff at the Kolyma Water-Balance Station for the Upper Kolyma territory [1976, p.32-41, rus] **35-3827**

National Conference on Environmental Engineering, New York, July 8-10, 1980
Proceedings [1980, 707p., eng] **35-2570**

National Heat Transfer Conference, 18th, San Diego, California, Aug. 5-8, 1979
Heat Transfer - San Diego, 1979 [1979, 315p., eng] **35-3347**

National Research Council, Canada. Division of Mechanical Engineering
Research and development work in the Division of Mechanical Engineering, 1979 [1980, 83p., eng] **35-840**

National Research Council. Committee on Alaskan Coal Mining and Reclamation
Surface coal mining in Alaska. An investigation of the surface mining control and reclamation act of 1977 in relation to Alaskan conditions [1980, 328p., eng] **35-948**

National Research Council. Panel on Sea Ice Mechanics
Research in sea ice mechanics [1981, 8Op., eng] **35-3657**

National Research Council. Polar Research Board
Annual report 1979 and future plans [1980, 39p., eng] **35-112**
Report on United States antarctic research activities, 1979-1980; United States antarctic research activities planned for 1980-1981 [1980, 90p., eng] **35-183**
Report on United States antarctic research activities, February 1980-October 1981 - United States antarctic research activities planned for October 1981-September 1982 [1981, 79p., eng] **35-4044**

National Research Council. Transportation Research Board
Guideway snow and ice control and roadside maintenance [1980, 27p., eng] **35-3783**

Nation's highest road is opened to top of Colorado's Mt. Evans
Nation's highest road is opened to top of Colorado's Mt. Evans [1981, p.6, eng] **35-4160**

Natrov, G.V.
Prospects of using surface supports for elevated pipelines [1981, p.2-3, rus] **35-4244**

Nauchnaia konferentsiia biologov Karelii, posviashchennaia 100-letiiu so dnia rozhdeniia V.I. Lenina
Scientific conference of Karelian biologists dedicated to the centennial of V.I. Lenin's birth [1970, 167p., rus] **35-2613**

Naumov, E.M.
Classification of soils in northeastern Asia [1980, p.24-27, rus] **35-2260**

Naumov, S.V.
Cryocalorimetry of the solution of ice and frozen water-soluble salt granules in organic solvents [1979, p.78, rus] **35-1274**
Low temperature scanning calorimetry technique of studying crystallization of water solutions of sulfates [1979, p.79, rus] **35-1275**

Navarre, J.P.
Incremental formulation of constitutive equations for deposited snow [1980, p.289-307, eng] **35-1823**
Mechanical properties of snow: experimental study by triaxial compression [1979, 25p., fre] **35-1886**
Mechanical properties of snow: finite element model study of a snow cover deposited on a slope [1979, 39p., fre] **35-1889**
Mechanical properties of snow: incremental rheological regularities [1979, 28p., fre] **35-1887**
Mechanical properties of snow: incremental rheological regularities, Pt.2 [1979, 21p., fre] **35-1888**
Mechanical properties of snow: treatment as a Burgers body [1977, 31p., fre] **35-1885**

Nawwar, A.M.
Field measurement of kinematic friction between ice and rigid structures [1980, p.303-321, eng] **35-3847**
Ship's hull as a test instrument [1980, p.237-274, eng] **35-3845**

Nazarenko, S.N.
Experience in predicting elements of the ice and thermal regime of the lower pools of hydroelectric stations [1980, p.945-949, eng] **35-2772**

Nazarova, E.I.
Promising decorative shrubs in the Yakut Botanical Garden [1980, p.15-24, rus] **35-4100**

Nazimova, D.I.
Dynamics of synusium structure during progressive successions in pine forest of West Sayan mountains [1980, p.54-87, rus] **35-2477**

Nazintsev, IU.L.
Construction of reference points for pack ice melting studies [1980, p.102-103, rus] **35-1461**
Melting of antarctic fast ice [1980, p.97-101, rus] **35-1460**

Nazirov, M.
Evaluation of soil moisture and interpretation of related processes from multizonal space imagery [1980, p.115-122, eng] **35-3797**

Neal, C.S.
Airborne geophysical investigations of ice sheet and bedrock, 1978-79 [1979, p.95-96, eng] **35-667**
[illegible] p.261-266, eng] **35-943**

Neave, K.G.
Delineation and engineering characteristics of permafrost beneath the Beaufort Sea [1981, p.125-157, eng] **35-3256**

Nebert, D.
Marine environmental studies in Boca de Quadra and Smeaton Bay: physical and chemical, 1979 [1980, 134p., eng] **35-490**

Nechaev, V.P.
Determining the coefficient of nonstationary heat transfer [1981, p.46-47, rus] **35-2083**
Relationship between cryogenic and climatic parameters and their paleogeographic significance [1981, p.211-220, rus] **35-3295**

Nechaev, V.V.
Water balance and the balance of stable oxygen isotopes in the Issyk-Kul' Basin [1981, p.10-14, rus] **35-3297**

Nechaeva, E.G.
Calculating indices of landscape-geochemical processes in taiga geosystems [1971, p.3-31, rus] **35-755**
Geography and origin of soils with complex humus profiles [1980, p.169-206, rus] **35-882**
Landscape-geochemical regionalization of the Baykal Amur railroad zone [1980, p.3-11, rus] **35-1628**
Soils and geochemical processes in southern taiga of the Irtysh River geosystems [1979, p.51-62, rus] **35-2323**
Some biogeochemical parameters of the upper Chara River basin [1980, p.152-162, rus] **35-1632**

Nedesheva, G.N.
Structure and evolution of lagoons and bars along the Arctic coast of the Chukotskiy Peninsula [1980, p.77-84, rus] **35-1765**

Nedorezov, I.A.
Testing and operation of pneumatic hammers mounted on hydraulic excavators [1980, p.7-10, rus] **35-321**

Nefed'eva, L.G.
Basic features of landscape structure of the Muya intermontane basin [1980, p.125-139, rus] **35-1631**
Cartographic-statistical method of studying interrelations among the components of natural environments in the Chita region [1980, p.114-124, rus] **35-1707**

Nefedova, E.A.
Certain peculiarities of the distribution of water reserves in snow cover in the Moscow Region [1980, 5p., eng] **35-983**

Neiland, B.J.
Investigations of possible correlations of vegetation, substrate, and topography in interior Alaska [1975, 6lp. + 3 appends., eng] **35-3683**

Neishtadt, M.I.
Partial redirection of Siberian rivers in relation to the development of natural resources and environmental protection [1979, p.114-120, rus] **35-2328**
Problems related to paludification of West Siberia [1980, p.121-124, rus] **35-1340**

Nekrasov, I.A.
Complex geocryological interpretation of space photographs [1980, p.98-106, rus] **35-3322**
Permafrost investigations in economically developing areas of the USSR [1980, 183p., rus] **35-3305**

Nelepov, E.N.
Heat balance of the surface of the northeastern part of the Pacific Ocean [1979, p.136-138, rus] **35-4197**

Nelson, C.H.
Distribution of trace elements in bottom sediment of northern Bering Sea [1981, p.445-567, eng] **35-3249**
Geological, geochemical and geotechnical observations on the Bering Shelf, Alaska [1980, Var.p., eng] **35-2538**
Geotechnical characteristics of bottom sediment in the northern Bering Sea [1981, p.389-419, eng] **35-3247**
Graded storm sand layers offshore from the Yukon Delta, Alaska [1981, p.368-388, eng] **35-3246**
Hydrocarbon gases in near-surface sediment of northern Bering Sea (Norton Sound and Chirikov Basin) [1981, p.215-243, eng] **35-3239**
Ice gouging on the subarctic Bering shelf [1981, p.286-314, eng] **35-3243**
Ice gouging on the subarctic Bering shelf [1980, p.279-302, eng] **35-4145**
Sedimentary processes and potential geologic hazards on the sea floor of the northern Bering Sea [1980, p.247-261, eng] **35-4143**

Nelson, H.
Areas of active, large scale sand wave and ripple fields with scour potential on the Norton Basin sea floor [1981, p.315-331, eng] **35-3244**
Thermogenic gases in near-surface sediments of Norton Sound, Alaska [1981, p.251-260, eng] **35-3241**

Nelson, R.D.
Flatjack methods of in-situ measurement of the mechanical properties of sea ice [1979, p.196-202, eng] **35-1111**
Measurements of sea-ice stresses near grounded obstacles [1981, p.144-147, eng] **35-1107**

Nelson, W.G.
Lake overflow - a hazard to winter travel in northern regions [1981, p.264-277, eng] **35-2508**
[illegible] [1981, p.507-511, eng] **35-2521**

Nemov, A.E.
Data obtained with electric sounding of frozen strata in Tien Shan and the Pamirs [1979, p.112-122, rus] **35-193**

Nemova, L.I.
Influence of aeration levels on multiplication of anaerobic and aerobic bacteria in sod-podsol soils [1974, p.83-87, rus] **35-1208**

Nerush, A.R.
Basic technical requirements made of motor vehicles destined for use in the North [1981, 11p., eng] **35-4258**

Neshyba, S.
Iceberg melt-driven convection inferred from field measurements of temperature [1980, p.113-117, eng] **35-2215**
On the estimation of antarctic iceberg melt rate [1980, p.1681-1685, eng] **35-2471**

Nesterenko, I.M.
Peculiarities of soil drainage in Karelia [1980, p.20-21, rus] **35-2259**

Nesterenko, IU.T.
Improvement of road construction technology [1980, 152p., rus] **35-1434**

Nesterov, E.S.
Calculating heat transfer between water and atmosphere in the North Atlantic [1980, p.32-36, rus] **35-2999**

Neupokoev, V.A.
Snow cover distribution over the Abramov glacier in years of average and maximum snowfall intensity [1980, p.133-137, rus] **35-723**

Neustroeva, A.I.
Influence of burning on narrow-leaved cotton grass in subarctic tundra [1980, p.66-72, rus] **35-285**

Nevel, D.E.
Review of buckling analyses of ice sheets [1980, p.131-146, eng] **35-511**

Nevinchanyi, S.P.
Variations of clay soil strength depending on water saturation [1980, p.31-39, rus] **35-1567**

Nevskaia, N.M.
Geothermal regime of the Timan-Pechora petroleum province [1975, p.102-105, rus] **35-399**

Nevskii, S.D.
Evaluating disadvantages of road design and construction in naled areas [1981, p.41-42, rus] **35-2087**

Nevskii, V.A.
Concrete brands by frost resistance for meliorative structures [1980, p.9-11, rus] **35-780**
Quick method of determining frost resistance of concrete [1980, p.16, rus] **35-1651**

Nevzorov, L.A.
New tower crane KB-504 [1980, p.1-4, rus] **35-922**

New excavation machines and equipment
New excavation machines and equipment [1981, p.26-27, rus] **35-2850**

New idea to solve storage transport problems without pipe lines
New idea to solve storage transport problems without pipe lines [1981, p.33-35, eng] **35-4126**

Newbury, R.W.
Preliminary comparison of runoff relationships and water budgets in three experimental lake basins in the continental, sub-Arctic and Arctic climatic regions of the Precambrian Shield [1979, p.516-535, eng] **35-431**

Newman, R.L.
Carburetor ice flight testing use of an anti-icing fuel additive [1981, p.5-6, eng] **35-2176**

Nibler, G.J.
Spring breakup [1980, p.207-209, eng] **35-1488**

Nichol, I.
Relation of lake-sediment composition to mineralization in different limnological environments in Canada [1975, p.112-125, eng] **35-2739**

Nicholson, F.H.
Permafrost spatial and temporal variations near Schefferville, Nouveau-Quebec [1979, p.265-277, eng] **35-1044**

Nie, F.
Introduction of a measure of anti-frost heave by drainage ditch in the tunnel [1980, p.44-45, chi] **35-88**

Niebauer, H.J.
Marine environmental studies in Boca de Quadra and Smeaton Bay: physical and chemical, 1979 [1980, 134p., eng] **35-490**
Recent fluctuations in sea ice distribution in the eastern Bering Sea [1980, p.133-140, eng] **35-4137**
Sea ice and temperature variability in the eastern Bering Sea and the relation to atmospheric fluctuations [1980, p.7507-7515, eng] **35-1912**

Nielsen, J.O.
Surface accumulation on Ross Ice Shelf [1979, p.68-72, eng] **35-654**

Nielsen, K.G.
Investigation of the snow adjacent to Dye-2, Greenland [1981, 23p., eng] **35-3651**

Nihlgard, B.
Supply and transport of mineral nutrients in a subarctic mire [1980, p.63-95, eng] **35-1474**

Nikiforov, E.G.
[illegible] the Kara Sea [1980, p.124-126, rus] **35-3130**

Nikiforov, I.D.
Heat conductivity of washed up sandy ground (1980, p.63-68, rus) **35-3317**
Peculiarities of thermal properties of soils in the eastern part of the Baykal Amur railroad area (1981, p.5-22, rus) **35-3281**

Nikitin, A.M.
Mudflows in the Isfayramsay River Basin in 1977 (1980, p.107-110, 175-178, rus) **35-2826**

Nikitin, I.K.
Complex turbulent flow and the processes of heat and mass transfer (1980, 238p., rus) **35-2956**

Nikitin, IU.A.
Studying clay shale deformation during thawing (1973, p.12-22, rus) **35-1598**

Nikitin, P.A.
Calculating the coefficient of scattering for radio sounding of ice (1980, p.108-110, rus) **35-3547**
Evaluating the effect of surface roughness on microwave emission from sea ice (1980, p.93-97, rus) **35-2984**
Microwave radiation of sea ice (1980, p.18-22, rus) **35-363**
Procedure for determining drifting ice concentration from satellite data (1980, p.65-68, rus) **35-786**
Variations in microwave emission of sea ice (numerical modeling) (1980, p.56-63, rus) **35-3544**

Nikitin, S.P.
Use of polynomial models in water balance investigations (Taiga in the Irtysh River area) (1980, p.213-218, rus) **35-3428**

Nikitin, V.A.
Acoustic effect produced by drifting ice breaking under an icebreaker's body (1980, p.67-70, rus) **35-372**
Inherent noise of the Antarctic glacier in the Novolazarevskaya Station area and acoustic attenuations (1980, p.56-61, rus) **35-370**
Possibilities of acoustic techniques in determining rheologic properties of ice covers (1980, p.30-36, rus) **35-366**
Seasonal variations in sea ice elasticity (1980, p.37-42, rus) **35-367**

Nikitin, V.I.
Evaluating frost resistance of ceramic materials for walls (1980, p.22-23, rus) **35-348**

Nikitina, L.M.
Mathematical modeling and experimental study of heat and mass transfer processes (1979, 136p., rus) **35-233**
Sorption properties and phase composition of pore water in silica gels of different porosity at natural subzero temperatures (1979, p.91-96, rus) **35-237**
Studying mass transfer properties of polymer thermal insulation materials (1979, p.106-109, rus) **35-240**

Nikitina, O.I.
Evaluating frost resistance of ceramic materials for walls (1980, p.22-23, rus) **35-348**

Nikitina, V.G.
Trends in changes of soil microflora during reservoir construction in the lower Irtysh River area (1979, p.63-75, rus) **35-2324**

Nikitina, Z.I.
Trends in changes of soil microflora during reservoir construction in the lower Irtysh River area (1979, p.63-75, rus) **35-2324**

Nikolaev, A.A.
Assembly for drilling holes in ice (1979, p.14-16, rus) **35-2620**

Nikolaev, A.F.
Assembly for drilling holes in ice (1979, p.14-16, rus) **35-2620**

Nikolaev, IU.V.
Statistical analysis of water temperature fluctuations in the central part of the Arctic Basin (1980, p.101-104, rus) **35-378**

Nikolaev, S.E.
Possible changes in ice conditions and mechanical properties of ice in the estuary area of Ob' River due to partial flow diversion (1980, p.87-89, rus) **35-3119**

Nikolaev, S.G.
Calculating maximum receding of ice edges from the Gulf of Finland apex for the spring navigation period (1978, p.75-82, rus) **35-999**

Nikolaev, V.A.
Allowing for environmental protection when designing partial redirection of Siberian rivers (1979, p.121-127, rus) **35-2329**
Forecasting changes in landscapes, bio- and medico-geographic conditions due to changing river courses in the central region of the USSR (1980, p.82-89, rus) **35-1429**

Nikolaev, V.V.
Some problems of engineering seismology in the central part of the Udokan Range (1980, p.191-197, rus) **35-143**

Nikolaeva, A.G.
Icy routes (1980, 128p., rus) **35-1574**

Nikolaiuk, V.A.
Forests and forestry problems in the Baykal Amur railroad area (1981, p.6-11, rus) **35-4276**

Nikol'skaia, V.V.
[illegible] of seasonal fluctuation and slope processes in the coastal ranges of Sakhalin Island (1976, p.64-68, rus) **35-1853**
Changes in prevailing types of topographic development processes, proceeding inland from the coastal area in the northern taiga zone (1976, p.81-85, rus) **35-1854**
Specifics of recent topographic development of the Far Eastern zone of the Baykal Amur railroad area under natural and artificial conditions (1976, p.89-95, rus) **35-1855**
Studying global factors of climato-morphogenetic phenomena of the Far East (1979, 163p., rus) **35-3045**

Nikonov, V.V.
Characteristics of soil formation in the northern taiga spruce biogeocenoses of the Kola Peninsula (1979, p.501-511, eng) **35-960**

Nikonova, R.I.
Morphogenesis in the bald peak zone of mountains (1978, p.154-155, rus) **35-22**

Nilsson, G.
Nickel prospecting and the discovery of the Mjovattnet mineralization, northern Sweden: a case history of the use of combined techniques in drift covered glaciated terrain (1973, p.97-109, eng) **35-2748**

Nishiizumi, K.
Cl-36 in polar ice, rainwater and seawater (1980, p.983-986, eng) **35-1536**

Nishimura, H.
Distribution and process of accumulation and ablation of snow on the west slope of Mt. Asahidake, Hokkaido (1978, p.1-12, 5 p) **35-1537**
Relationships between snow distribution and climate in mountain areas (1981, p.109-118, eng) **35-3024**
Research on snow and ice (Review of Geophysics and space physics, Vol.17, No.6, September 1979) (1980, p.33-69, jap) **35-1066**

Nishimura, J.
Measurements of electrical surface conductivity of ice (1978, p.67-76, jap) **35-1176**

Nishimura, K.
Fluidization of snow (1979, p.109-120, eng) **35-697**
Physical aspects of the wind-snow interaction in blowing snow (1979, p.127-141, eng) **35-517**
Studies of fluidized snow. 1. Formation of fluidized snow and its general properties (1978, p.77-92, jap) **35-1177**
Studies of fluidized snow. 2. Viscosity and heat transfer coefficient of fluidized snow (1978, p.93-102, jap) **35-1178**
Viscosity and heat transfer in fluidized snow (1980, p.263-274, eng) **35-2369**

Nishio, F.
Activities of Japanese Party in McMurdo Sound area during the 1978-79 field season (1980, p.137-148, jap) **35-1055**
Glaciological studies in Allan Hills, 1978-79 (1979, p.87-88, eng) **35-663**
Glaciological studies in Allan Hills, 1979-80 (1980, p.65-66, eng) **35-3176**
Measured and computed temperature profiles at Mizuho Station, East Antarctica (1981, p.239-246, eng) **35-3035**
Studies on the ice flow in the bare ice area near the Allan Hills in Victoria Land, Antarctica (1980, p.1-13, eng) **35-2964**

Nitta, R.
Last decade of activities of the avalanche research group in Japan, Pt. 1 (1981, p.123-127, jap) **35-4272**

Niwano, S.
Forest cutting and avalanches on heavy snow slopes (1981, p.15-20, jap) **35-4203**

Nobbs, P.A.
SUNDAY, a simulation model of an arctic Daphnia population (1979, p.349-362, eng) **35-1785**

Nogid, L.M.
Modeling the movement of a ship in continuous ice field and in broken ice (1959, p.45-62, rus) **35-2764**

Nogina, N.A.
Podsol soils of Central and Eastern European USSR (developed on loams) (1980, 304p., rus) **35-877**

Noguvitsyn, R.R.
Combined mining exploration for construction materials in southern Yakutia (1978, p.68-71, rus) **35-4113**

Nohguchi, Y.
Arctic sea ice research, 4. measurements of uniaxial compressive strength (1978, p.131-139, jap) **35-1549**
Failure of sea ice by repeated compression (1978, p.63-68, jap) **35-1541**

Noll, C.J.
Perspective on oilspill modelling offshore Labrador (1980, p.21-32, eng) **35-3091**

Norin, B.N.
Phytocenotic organization of some types of vegetational cover in the Far North (1980, p.1531-1542, rus) **35-3216**
Significance of some ideas of B.N. Gorodkov in the study of forest tundra open woodland (1979, p.1553-1566, rus) **35-346**
Structure and plant communities in East European forest tundra (1979, 200p., rus) **35-150**

North, G.R.
Energy balance climate models (1981, p.91-121, eng) **35-2579**

North Slope Borough comprehensive policy plan, Haul Road area
North Slope Borough comprehensive policy plan, Haul Road area (1980, 34p., eng) **35-2015**

Norum, D.I.
Heat and mass transfer in a freezing unsaturated porous medium (1980, p.811-819, eng) **35-440**

Nosov, V.L.
Allowing for snow accumulation when building elevated pipelines (1980, p.19-21, rus) **35-615**

Novikov, E.
Soviets share polar problem (1979, p.16-17, eng) **35-3518**

Novikov, F.IA.
Calculation of earth pressure on a retaining wall constructed on frozen ground (1981, p.146-152, eng) **35-2841**

Novikov, I.P.
Construction of large reservoirs for storage of liquefied gases (1980, p.38-39, rus) **35-619**

Novikov, M.IA.
Seismic signal device for mudflow danger (1980, p.101-110, rus) **35-1814**

Novikov, S.M.
Possible changes in swamp landscapes of West Siberia due to changing the course of rivers (1980, p.90-105, rus) **35-1430**

Novikov, V.N.
New data on structural geomorphology of coastal plains and the continental shelf of East Arctic seas in the USSR (1980, p.91-98, rus) **35-952**

Novorotskii, P.V.
Heat and water balance components of drainage areas in mountains of the eastern part of the Baykal Amur railroad area (1980, p.224-229, rus) **35-342**

Novoseletskit, R.N.
Geocryological conditions of formation of Upper Pleistocene and Holocene deposits in the northern eastern USSR (1976, 88p., rus) **35-1143**
Solar radiation as the main energy source of thermal meliorations in permafrost areas (1976, p.63-77, rus) **35-1147**
Theory of forecasting cryogenic processes (1976, p.78-85, rus) **35-1148**

Novoselov, IU.B.
Electrification of oil and gas industry in West Siberia (1980, 182p., rus) **35-2687**

Novozhilov, G.F.
Selecting pile-driving equipment and forecasting the process of pile sinking into plastic perennially frozen ground (1981, p.16-18, rus) **35-2851**

Nozdriukhin, V.K.
Dependence of annual glacier ablation on mean summer air temperature (1980, p.101-104, rus) **35-719**
Snow cover distribution over the Abramov glacier in years of average and maximum snowfall intensity (1980, p.133-137, rus) **35-723**

Nriagu, J.O.
Global inventory of natural and anthropogenic emissions of trace metals to the atmosphere (1979, p.409-411, eng) **35-1217**
Trace metals in remote Arctic snows: natural or anthropogenic (1980, p.574-576, eng) **35-1218**

Nummedal, D.
Spilled oil retention potential: Beaufort Sea coast of Alaska (1979, p.247-253, eng) **35-174**

Nurmi, A.
Geochemical exploration in a glacial ice-divide region: Rukonkoski copper ore deposit, Kittila, Finnish Lapland (1975, p.54-59, eng) **35-2737**

Nuttall, N.J.
Dawson City water and sewerage program: an overview (1981, p.544-554, eng) **35-2523**

Nuutilainen, J.
Application of humus analysis to geotechnical prospecting: some case histories (1977, p.1-5, eng) **35-2720**

Nye, J.F.
Use of catastrophe theory to analyse the stability and toppling of icebergs (1980, p.49-54, eng) **35-2205**

Oberbauer, S.
Some aspects of plant water relations in Alaskan arctic tundra species (1981, p.205-218, eng) **35-4093**

Oberman, N.G.
Aeration zone in permafrost of the Pechora coal basin (1981, p.127-133, rus) **35-2453**
History of permafrost development in the Timan-Ural area (1981, p.60-73, rus) **35-4069**
History of permafrost formation in the Polar, Subpolar and Northern Ural Mountains (1981, p.73-78, rus) **35-4070**
Interrelationship between surface and ground water in the permafrost zone of the Polar Ural Mountains (1980, p.5-13, rus) **35-3989**

Obled, C.
Recent developments of avalanche forecasting by discriminant analysis techniques: a methodological review and some applications to the Parsenn area (Davos, Switzerland) (1980, p.315-346, eng) **35-1825**
Satellite pictures and snow measurements (1978, p.517-526, fre) **35-1163**

Obolenskii, A.N.
Using blasting in studying seismic stability of rock excavation slopes (1980, p.121-125, rus) **35-147**

Oborina, S.F.
[illegible] of ice cover flow in Antarctica using seismic data (1980, p.36-40, rus) **35-2029**

O'Brien, E.T.
Advanced northern utility piping system [1981, p.425-437, eng] **35-2516**
O'Callaghan, M.G.
Instability of the planar freeze front during solidification of an aqueous binary solution [1980, p.673-677, eng] **35-1678**
Occhietti, S.
Sakami moraine, Quebec: a 500-km-long moraine without climate control [1981, p.210-214, eng] **35-3138**
Oceanographic Services, Inc.
Bering Sea ice project [1980, 34p., eng] **35-3675**
Odintsov, M.M.
Boguchany artificial lake - Ground water and engineering geology of the area [1979, 157p., rus] **35-278**
Engineering geology of East Siberia in relation to the rational development of natural resources [1980, p.45-53, rus] **35-1704**
Seismotectonics and seismicity of the Baykal-Amur railroad construction area [1980, 204p., rus] **35-137**
Odrova, T.V.
Changes in heat runoff of Siberian rivers [1980, p.90-93, rus] **35-1611**
Oechel, W.C.
Biophysical processes and primary production [1980, p.66-101, eng] **35-1932**
Photosynthesis [1980, p.102-139, eng] **35-1933**
Oerlemans, J.
Continental ice sheets and the planetary radiation budget [1980, p.349-359, eng] **35-3678**
Effect of irregular fluctuations in antarctic precipitation on global sea level [1981, p.770-772, eng] **35-3364**
Modeling of Pleistocene European ice sheets: some experiments with simple mass-balance parameterizations [1981, p.77-85, eng] **35-3713**
Some basic experiments with a vertically-integrated ice sheet model [1981, p.1-11, eng] **35-2799**
Oerter, H.
Studying natural isotope content and electrical conductivity of runoff waters from the Vernagtferner glacier (Oetztal Alps) [1980, p.86-92, 157-161, rus] **35-2822**
Offenbacher, E.L.
What is the temperature change in pressure melting [1981, p.155-156, eng] **35-3672**
Offshore Technology Conference, 12th, Houston, Texas, May 5-8, 1980
Proceeding . Vol.4 [1980, 646p., eng] **35-3632**
Offshore Technology Conference, 13th, Houston, Texas, May 4-7, 1981
Proceedings, Vol.3 [1981, 485p., eng] **35-3445**
Proceedings, Vol.4 [1981, 514p., eng] **35-3455**
Oganesiants, S.L.
Pavement elements made of frost resistant, colored sand-concrete [1980, p.8-10, rus] **35-472**
Ogawa, K.
Fracture strength of polycrystalline ice containing KCl [1978, p.1-9, jap] **35-1171**
Ogloblin, V.F.
Stability of tailing embankments [1980, p.68-71, rus] **35-230**
Ogly, B.I.
Urban construction in Siberia [1980, 272p. (Pertinent p.174-269), rus] **35-2685**
Ogorodnikov, A.V.
Cryogenic soils of taiga and bald-peak forests in the People's Republic of Mongolia and their utilization [1980, p.81-83, rus] **35-2280**
Soil formation in mountain pseudo-taiga larch forests of Mongolia [1980, p.58-72, rus] **35-300**
Ogorodnikova, E.N.
Geochemical and physico-chemical aspects of fabric formation in soil stabilization using fly-ashes [1980, p.204-212, rus] **35-1354**
Ogren, J.A.
Spectral albedos of an alpine snowpack [1981, p.121-127, eng] **35-3668**
Ogureeva, G.N.
Botanical geography of Altai [1980, 192p., rus] **35-876**
Oguro, M.
Formation mechanism of concentric dislocation loops in ice single crystals grown from the melt [1981, p.71-80, eng] **35-1069**
Ohata, T.
On the vertical displacement of small stones in a shallow pond by freezing [1978, p.67-70, eng] **35-56**
Recent fluctuations of glaciers in the eastern part of Nepal Himalayas [1981, p.21-29, eng] **35-3019**
Ohmae, H.
Study of snow melting in Mt. Asahidake, Hokkaido [1978, p.181-188, jap] **35-1185**
Ohrai, T.
Experimental study of uniaxial compressive strength of segregated ice in soil [1981, p.83-96, eng] **35-4267**
Ohtake, T.
Frozen drops observed at Fairbanks, Alaska [1981, p.73-76, eng] **35-4265**
Multiple reflection effects on irradiance in the presence of Arctic stratus clouds [1981, p.2049-2057, eng] **35-3276**
Winter ice crystals at South Pole [1979, p.201-203, eng] **35-679**
Ohzeki, Y.
Forest cutting and avalanches on heavy snow slopes [1981, p.15-20, jap] **35-4203**
Oi, M.
Reduction with increasing range in intensity of reflected power of sea ice radar waves [1978, p.125-129, jap] **35-1548**
Oike, T.
Sedimental process in Harding Lake [1980, p.24-35, eng] **35-1561**
Water budget and lake-level stability of Harding Lake [1980, p.9-15, eng] **35-1559**
Oilspill in pack ice
Oilspill in pack ice [1980, 231p., eng] **35-544**
Okabe, T.
Physical properties of the snow cover on Mt. Tateyama in Central Honshu, Japan [1976, p.157-164, jap] **35-257**
Okamoto, J.
Experimental study of uniaxial compressive strength of segregated ice in soil [1981, p.83-96, eng] **35-4267**
Okihara, T.
Design, testing, and shipboard evaluation of a heat pipe deicing system [1980, 6p., eng] **35-3770**
Okolov, V.F.
Compiling avalanche cadasters for unexplored areas taking the eastern part of the Ketmen' Range as an example [1980, p.25-34, rus] **35-712**
Oksanen, P.
Coefficient of friction between ice and some construction materials, plastics and coatings [1980, 73p., eng] **35-3883**
Okuneva, R.M.
Dynamics of chemical composition of soil solutions and lysimetric waters in spruce forests [1979, p.86-104, rus] **35-4121**
Microclimate and transformation of solar radiation in the Picea-Oxalis forests [1979, p.70-85, rus] **35-4120**
Olcott, J.W.
Winter worries [1980, p.86, eng] **35-3851**
Oldham, W.K.
Effluent irrigation developments in Canada [1979, 6p., eng] **35-2795**
Oleinik, R.V.
Possibility of more effective use of AgI aerosol in cloud seeding [1980, p.98-101, rus] **35-2992**
Oleinkov, N.N.
Thermodynamic analysis of cryochemical crystallization of water-salt solutions [1979, p.76, rus] **35-1273**
Oleskiw, M.M.
Computer simulation of airfoil icing without runback [1981, 8p., eng] **35-3562**
Oliger, B.A.
Research icebreaker *Otto Schmidt* [1980, p.3-6, rus] **35-2634**
Olovin, B.A.
Dynamics of temperature field of the dam of the Vilyuy hydroelectric power plant [1980, 48p., rus] **35-2049**
Gas transfer between permafrost and the atmosphere in the watershed area of the Vilyuy River [1980, p.83-90, rus] **35-3320**
Studying gas permeability of massive frozen rocks [1980, p.90-98, rus] **35-3321**
Variations in physical properties of coarse-grained perennially frozen rocks [1981, p.96-116, rus] **35-3288**
Olsen, H.W.
Geotechnical characteristics of bottom sediment in the northern Bering Sea [1981, p.389-419, eng] **35-3247**
Olson, S.
Solar tracks in the snow [1980, p.313, 316, eng] **35-1656**
Olunloyo, V.O.S.
On the distribution of stress and velocity in an ice strip, which is partly sliding over and partly adhering to its bed, by using a Newtonian viscous approximation [1980, p.385-403, eng] **35-3811**
Omel'chenko, A.A.
Improving watertightness of large panel buildings [1980, 95p., rus] **35-1575**
Ommanney, C.S.L.
Glacier studies [1978, p.235-245, eng] **35-3928**
Omstedt, A.
Sea Ice-75: Dynamical report [1976, 64p., eng] **35-531**
Sensitivity analysis of steady, free floating ice [1980, 31p., eng] **35-3700**
Onda, H.
Studies of the perennial snow patch in Karasawa, Hotakadake [1979, p.165-170, jap] **35-264**
O'Neil, L.
Snowcover variation with vegetation type in the Peterborough area [1980, p.23-35, eng] **35-37**
O'Neil, R.
Assessment of SAR for oil pollution surveillance in the ice environment [1979, p.99-123, eng] **35-166**
O'Neill, A.D.J.
Numerical study of the transmission of solar radiation through snow [1979, p.346-355, eng] **35-422**
O'Neill, M.W.
Methodology for foundations on expansive clays [1980, p.1345-1367, eng] **35-1495**
Onikienko, T.S.
Reshaping of artificial lake basins and shores in the cryolithozone [1980, p.120-129, rus] **35-766**
Ono, N.
Inertial period motions of drifting sea ice [1978, p.107-113, jap] **35-1546**
Percolation of sea ice, 1 - measurements of kerosene permeability of NaCl ice [1978, p.55-62, jap] **35-1540**
Study on ice on Lake Tofutsu [1978, p.85-91, jap] **35-1544**
Ono, Y.
Glacial and periglacial geomorphology in Japan [1980, p.149-160, eng] **35-3556**
Orheim, O.
Airborne radio echo sounding of glaciers in Svalbard [1980, p.261-266, eng] **35-943**
Field experiments on antarctic tabular icebergs [1981, p.44.-448, eng] **35-4342**
Physical characteristics and life expectancy of tabular antarctic icebergs [1980, p.11-18, eng] **35-2198**
Studies of under-ice conditions at J-9, Ross Ice Shelf, during the 1979 winter [1979, p.61-63, eng] **35-650**
Orhun, A.
Experimental studies of coupled heat and moisture transfer in soils during freezing [1980, p.223-232, eng] **35-738**
Oriard, L.L.
Using explosives to excavate frozen ground [1980, p.246-265, eng] **35-1986**
Orlov, A.IA.
Last plot of virgin spruce forests in southern taiga of the Russkaya Plain [1980, p.38-45, rus] **35-955**
Orlov, A.V.
Methods of studying end-moraines of mountain glaciers [1980, p.44-53, rus] **35-1763**
Morphoscopic study of moraines in mountain-glacier areas of the Caucasus [1980, p.95-98, rus] **35-78**
Orlov, E.D.
Productivity of North Karelian stands depending on location types [1980, p.100-113, rus] **35-1327**
Orlov, V.O.
Swelling of frozen soils and its effect on structure foundations [1980, 286p., eng] **35-1697**
Orlova, T.B.
Compiling water-surface curves for rivers and waterways in the presence of ice and icy formations [1976, p.87-89, rus] **35-1368**
Orlovskii, N.V.
Soil studies in Siberia and Kazakhstan [1979, 326p., rus] **35-878**
Ormsby, J.P.
LANDSAT digital analysis of the initial recovery of burned tundra at Kokolik River, Alaska [1980, p.263-272, eng] **35-2462**
O'Rourke, J.C.
Evolution of ice research for offshore pack ice operations [1979, p.441-495, eng] **35-179**
Orr, D.B.
Freeze-out of nutrients from lake ice [1980, p.193-195, eng] **35-3161**
Orvig, S.
Meteorological consequences of natural or deliberate changes in the surface environment [1980, p.87-110, eng] **35-1008**
Orville, H.D.
Numerical simulation of ice-phase convective cloud seeding [1980, p.950-977, eng] **35-885**
Osadchaia, N.N.
Role of soil moisture and frost penetration depth on the loss of spring runoff in the Kama River Basin north of Perm' [1978, p.10-15, rus] **35-2700**
Osadchii, G.K.
Hydraulic excavators with scarifier attachments [1980, p.13, rus] **35-1027**
Oshima, M.
Experiments for marine structures in ice infested waters [1981, p.21-28, jap] **35-4204**
Model and field experiments for development of ice resistant offshore structures [1980, p.307-314, eng] **35-3635**
Osidze, I.G.
Effect of hail nuclei concentration on their coagulation growth [1980, p.5-17, rus] **35-2869**
Osipov, V.N.
Construction equipment for northern pipelines [1981, p.15-16, rus] **35-2093**
Osipova, N.A.
Transportation-shear mudflow process - A model with concentrated parameters [1980, p.10-12, rus] **35-1800**
Osokin, N.I.
Experience in direct use of glaciers for winter water supply [1980, p.260-264, rus] **35-1255**
Studies of Spitsbergen snow cover in spring of 1979 [1980, p.185-192, rus] **35-2829**
Osokin, V.A.
Dynamics of soil water runoff in permafrost areas [1980, p.37-43, rus] **35-3993**
Ospennikov, E.N.
Exogenic geologic processes and phenomena (Southern Yakutia) [1980, 227p., rus] **35-1701**

Ostensen, R.W.
Forced convection melting heat transfer in a tube for a two component system [1979, p.55-68, eng] **35-3349**
Osterholt, P.A.
Positioning in polar regions [1979, p.125-137, eng] **35-167**
Osterkamp, T.E.
Break-up dates for the Yukon River: Pt.1. Rampart to Whitehorse, 1896-1978 [1979, c50 leaves, eng] **35-133**
Break-up dates for the Yukon River. Pt.2. Alakanuk to Tanana, 1883-1978 [1979, c50 leaves, eng] **35-134**
Detecting massive ground ice in permafrost by geophysical methods [1980, p.27-30, eng] **35-3859**
Electrical resistivity measurements in permafrost terrain at the Engineer Creek road cut, Fairbanks, Alaska [1980, p.277-286, eng] **35-745**
Hydraulic resistance generated by frazil ice formation [1981, p.192-194, eng] **35-2551**
Methods and equipment for temperature measurements in subsea permafrost [1981, 32p., eng] **35-3549**
Sediment-laden sea ice: the role of frazil and anchor ice in its formation and development [1981, p.641-662, eng] **35-3268**
Subsea permafrost: probing, thermal regime and data analysis [1981, p.497-677, eng] **35-3267**
Ostrovskii, I.S.
Excavation of the Severo-Muyskiy tunnel [1980, p.11-14, rus] **35-1527**
Oswald, G.K.A.
Bulk sea ice surveying [1980, p.413-420, eng] **35-563**
Outcalt, S.
Simple energy balance model of ice segregation [1980, p.145-151, eng] **35-729**
Outerbridge, K.
Analysis of the relationship of snow depth, water equivalent and density in the Elizabeth Lake basin, Labrador [1980, p.51-61, eng] **35-39**
Ovchar, V.P.
Sand-concrete panels for building partitions [1980, p.19-21, rus] **35-502**
Ovchinnikov, E.
Increasing transportation of cargo to Yakutia [1980, p.6-7, rus] **35-904**
Ovchinnikov, I.G.
Installation of cylindrical reservoirs in the Far North [1981, p.47-48, rus] **35-4233**
Overgaard, S.
Multi-year sea ice investigation in the East Greenland Current [1980, 69p., eng] **35-3082**
Ovsienko, S.N.
Using the Euler's cell particles approach in numerical modeling of ice drift [1978, p.64-69, rus] **35-997**
Owens, E.H.
Temporal and spatial variability of ice-foot morphology [1981, p.69-80, eng] **35-4021**
Owens, I.F.
Adjustment to avalanche hazard in New Zealand [1981, p.25-31, eng] **35-4299**
Interrelationships between climatic and material characteristics in the occurrence of alpine mudflows in the Nigel Pass area, Canadian Rocky Mountains [1974, p.313-318, eng] **35-1949**
Owens, M.S.
Enhanced enrichment of metals in precipitation on Ross Ice Shelf [1979, p.75-76, eng] **35-656**
Meteorological and seasonal effects of snow chemistry of Ross Ice Shelf, Antarctica [1981, p.17-37, eng] **35-4147**
Time-related changes in snow chemistry - Ross Ice Shelf, Antarctica [1981, p.27-39, eng] **35-2416**
Oxtoby, D.W.
Molecular theory for the solid-liquid interface [1981, p.2559-2565, eng] **35-2709**
Ozeki, Y.
Inclination of young broad-leaved trees caused by snow accretion [1980, p.27-31, jap] **35-3661**
Method for measuring snow gliding [1976, p.196-197, jap] **35-262**
Ozenda, P.
Main features of similarity and differences of vegetation in the Alps and Caucasus [1981, p.333-352, fre] **35-3743**
Oznobikhin, V.I.
Soil moisture dynamics in the eastern part of the Siberian and Far Eastern permafrost areas [1980, p.80-81, rus] **35-2279**
Paarma, H.
Aspects of photogeological interpretation of Sokli carbonatite massif [1977, p.25-29, eng] **35-2721**
Reconnaissance prospecting by photogeology in northern Finland [1973, p.73-81, eng] **35-2745**
Page, C.L.
Frost action on immature cement paste - microstructural features [1980, p.264-268, eng] **35-523**
Pahaut, E.
Snow crystals - 2. Evolution [1981, p.3-42, fre] **35-4045**
Study of gradient metamorphism by simulation in a cold chamber [1978, 42p., fre] **35-1890**
Pai, S.I.
Mathematical model for dynamics of pack ice in the Arctic Ocean and its surrounding seas [1977, 23p., eng] **35-1592**
Pak, V.
Icebreaker *Otto Shmidt* [1980, p.43-46, rus] **35-789**
Palagin, E.V.
Production of precast lightweight concrete elements for transportation construction [1981, p.20-23, rus] **35-2080**
Palais, J.M.
Glaciology of dome C area [1979, p.100-101, eng] **35-671**
Palazzo, A.J.
Forage grass growth on overland flow systems [1980, p.347-354, eng] **35-2573**
International and national developments in land treatment of wastewater [1979, 28p., eng] **35-2794**
Land treatment systems and the environment [1979, p.201-225, eng] **35-2752**
Plant growth on a gravel soil greenhouse studies [1981, 8p., eng] **35-3692**
Revegetation at two construction sites in New Hampshire and Alaska [1980, 21p., eng] **35-2586**
Seasonal growth and accumulation of nitrogen, phosphorus, and potassium by orchardgrass irrigated with municipal waste water [1981, p.64-68, eng] **35-3515**
Pal'kin, A.P.
Setting of cement pastes at positive and subzero temperatures, according to PMR data [1979, p.275-279, eng] **35-1779**
Pal'kin, IU.S.
Stabilization of earth structure slopes under severe climatic conditions [1980, p.30-32, rus] **35-1637**
Stabilization of slopes in excavations cut in ice-bearing cohesive ground [1980, p.5-6, rus] **35-1139**
Palmer, A.C.
Shore crossing techniques for offshore pipelines in Arctic regions [1979, p.201-215, eng] **35-171**
Palmer, J.D.
Corrosive effects of deicing salts on automobiles [1971, p.38-43, eng] **35-4322**
Panarin, I.I.
Mountain forests of the Baykal Amur railroad zone [1980, 224p., rus] **35-936**
Panarin, IU.M.
Vacuum suction drainage technique for drying paluded and water-logged forest soils [1980, p.26-27, rus] **35-1862**
Panarin, M.N.
Vacuum suction drainage technique for drying paluded and water-logged forest soils [1980, p.26-27, rus] **35-1862**
Panchugin, R.G.
Atmospheric circulation above the northern part of the Pacific Ocean [1979, p.121-125, rus] **35-4196**
Panfilov, D.F.
Effect of wind on ice pressure on river structures [1980, p.284-289, eng] **35-965**
Panfilov, D.V.
Transverse flexure of ice [1979, p.1168-1170, eng] **35-2448**
Panfilov, S.P.
Roadbed design and construction under difficult engineering and geological conditions [1980, p.4-5, rus] **35-599**
Panin, G.N.
Energy interaction between reservoirs and the atmosphere [1980, p.151-173, rus] **35-1496**
Panin, P.S.
Influx and transfer of water-soluble substances in the forest-steppe zone of West Siberia [1980, p.84-88, rus] **35-1336**
Panov, E.P.
Complex natural-meliorative regionalization of the Non-chernozem zone in the Russian Soviet Federated Republic [1980, 231p., rus] **35-2439**
Pantiukhin, M.G.
Digging-wheel excavator ETR-254 for trenching [1980, p.4-6, rus] **35-2621**
Panu, U.
Recent improvements in numerical modelling of river ice [1981, p.263-280, eng] **35-2557**
Panu, U.S.
Observation and analysis of freeze up ice jams on the Peace River near Taylor [1981, p.162-181, eng] **35-2549**
Papernov, I.M.
Experimental studies of vapor condensation in the aeration zone at subzero temperatures [1980, p.62-82, rus] **35-3996**
Papinashvili, L.K.
Variations in snow cover depth over Transcaucasia [1980, p.72-79, rus] **35-2987**
Paquette, R.G.
"Pack ice and icebergs" - report to POAC 79 on problems of the seasonal sea ice zone: an overview [1979, p.320-337, eng] **35-178**
Ocean circulation and fronts as related to ice melt-back in the Chukchi Sea [1981, p.4215-4230, eng] **35-3911**
Paramonov, A.I.
Active-passive radio system for sounding sea ice [1980, p.23-26, rus] **35-364**
Paranthoën, P.
Influence of conduction on the transfer function of cold wires at very low frequencies; experimental results [1981, p.103-114, fre] **35-3626**
Parashar, S.K.
Assessment of SAR for oil pollution surveillance in the ice environment [1979, p.99-123, eng] **35-166**
Shorebased radar data for navigation of coastal and restricted ice covered areas with specific examples of Bylot Island, N.W.T., Canada [1979, p.83-98, eng] **35-165**
Par'ev, N.S.
Studying thunderstorms along buried communication cables in permafrost areas with lightning flash counters [1976, p.26-31, rus] **35-1190**
Parfenov, IU.V.
Vertical temperature distribution in lakes during subglacial warming of water in the spring [1980, p.3-14, rus] **35-2332**
Parinkina, O.M.
Rate of organic matter decomposition in Taymyr tundras [1980, p.234-248, rus] **35-1412**
Relation between the population and biomass of bacteria and their respiration in tundra soils [1974, p.104-108, rus] **35-1210**
Park, C.C.
Hydraulic geometry of a supra-glacial stream, some observations from the Val d'Herens, Switzerland [1981, p.1-9, eng] **35-4022**
Parker, B.C.
Nitrogenous chemical composition of antarctic ice and snow [1980, p.79-81, eng] **35-3185**
Nitrogenous chemical composition of antarctic snow and ice [1979, p.80-82, eng] **35-660**
Parker, L.
Disinfection of wastewater by microwaves [1980, 15p., eng] **35-2592**
Dynamics of NH_4 and NO_3 in cropped soils irrigated with wastewater [1980, 20p., eng] **35-872**
Parkinson, C.L.
Arctic sea ice decay simulated for a CO_2-induced temperature rise [1979, p.149-162, eng] **35-1657**
Sea ice simulation based on fields generated by the GLAS GCM [1980, p.2080-2091, eng] **35-3653**
Seasonal variation of total antarctic sea ice area, 1973-75 [1979, p.102-103, eng] **35-673**
Simple parameterization for salt flux to upper ocean owing to freezing and melting at the surface [1979, p.103-104, eng] **35-674**
Parmuzin, IU.P.
Lakes in the northeastern part of the Siberian Platform [1981, 190p., rus] **35-3412**
Parmuzin, S.IU.
Regionalization of high-ice-content permafrost areas according to stability under economic development of the central Yamal Peninsula [1980, p.108-127, rus] **35-2193**
Parmuzina, O.IU.
Cryogenic texture and some characteristics of ice formation in the active layer [1980, p.131-152, eng] **35-1761**
Moisture redistribution in frozen soils (based on field observations) [1979, p.194-197, rus] **35-1840**
Parmuzina, T.A.
Probability and duration of wind velocities dangerous for navigation in the North Atlantic Ocean [1980, p.14-37, rus] **35-29**
Parshikov, V.P.
Role of cryogenic processes in the formation of plowed field qualities in the Lake Baykal area [1980, p.18-20, rus] **35-2258**
Pasichnichenko, V.G.
Development of deformations in loess beneath an experimental foundation [1980, p.85-97, rus] **35-231**
Passarelli, R.E., Jr.
New aspect of the vertical incidence Doppler radar spectrum of ice particle fallspeeds [1980, p.1318-1322, eng] **35-3866**
Role of the winter land breeze in the formation of Great Lake snow storms [1981, p.482-491, eng] **35-4005**
Pasternatskii, V.A.
Using rock salt byproducts for preventing road pavement icing [1980, p.15-16, rus] **35-3009**
Pastor, J.
Soil development on moraines of Taylor Glacier, lower Taylor Valley, Antarctica [1980, p.341-348, eng] **35-225**
Pastukhov, V.N.
Modular construction of petroleum industry objects [1980, p.2-5, rus] **35-447**
Paterson, S.
Oil, ice and gas [1980, 169p., eng] **35-3867**
Paterson, W.S.B.
Physics of glaciers [1981, 380p., eng] **35-4009**
Pathfinder for Arctic exploitation
Pathfinder for Arctic exploitation [1980, p.346-347, eng] **35-743**
Patil, S.
Global snow cover of 1978-79 as observed with the NIMBUS-7 SMMR [1981, p.83-84, eng] **35-3435**
Patnaik, J.K.
Radiation measurements in Lewis Glacier, Mount Kenya, Kenya [1980, p.439-444, eng] **35-1506**
Patry, J.J.
Distribution of trace elements in bottom sediment of northern Bering Sea [1981, p.445-567, eng] **35-3249**
Patsenko, IU.S.
Roadbed design and construction under difficult engineering and geological conditions [1980, p.4-5, rus] **35-599**

Patterson, D.
Investigation of frozen soils using Time Domain Reflectometry (1980, 59p., eng) 35-1878
Patterson, D.E.
Use of time domain reflectometry for the measurement of unfrozen water content in frozen soils (1980, p.205-210, eng) 35-736
Patyk-Kara, N.G.
New data on structural geomorphology of coastal plains and the continental shelf of East Arctic seas in the USSR (1980, p.91-98, rus) 35-952
Patzelt, G.
Glaciers of the Austrian Alps 1978-1979 (1979, p.235-246, ger) 35-3733
Paul, P.
Snowcover variation with vegetation type in the Peterborough area (1980, p.23-35, eng) 35-37
Paul', V.P.
Planning the organization of railroad construction (1980, 167p., rus) 35-3548
Paulin, G.
Description, evaluation and prospects of development of the Quebec snow survey network (1979, p.473-489, fre) 35-430
Paulson, C.A.
Turbulent heat flux from Arctic leads (1979, p.57-91, eng) 35-159
Pavlenov, V.A.
Engineering and seismic conditions of bridge construction for the Baykal Amur railroad (1980, p.164-173, rus) 35-140
Pavlidis, Iu.A.
Peculiarities of polar morpho-lithogenesis on the shelf of the northeastern USSR (1981, p.33-96, rus) 35-3887
Pavlik, H.F.
Physical framework for describing the genesis of ground ice (1980, p.531-548., eng) 35-3555
Pavliukevich, N.V.
Physical kinetics and transfer processes in phase transformations (1980, 208p., rus) 35-806
Pavlov, A.R.
Determination of the thermophysical characteristics of alternatively freezing and thawing dispersed media by the method of solving inverse problems of heat conduction (1981, p.885-589, eng) 35-3817
Pavlov, A.V.
Calculation and control of cryogenic regime of soil (1980, 240p., rus) 35-2947
Impact of industrial activities on northern landscapes and their protection (1980, p.23-28, rus) 35-1703
Parameters of statistical analysis of year-round ground temperature data (1980, p.68-79, rus) 35-3318
Permafrost investigations in economically developing areas of the USSR (1980, 183p., rus) 35-3305
Permafrost studies related to the development of measures for environmental protection in the North (1980, p.3-8, rus) 35-3306
Results of studying thermal balance of landscapes under northern conditions (1980, p.104-112, rus) 35-3478
Thermal balance of northern landscape complexes and changes induced by economic development (1980, p.13-31, rus) 35-2186
Thermophysical studies of natural and disturbed landscape complexes in the north of the U.S.S.R. (1981, p.129-135, eng) 35-3669
Variations of heat transfer between soil and atmosphere induced by engineering activities in tundra regions (1981, 12p., eng) 35-826
Pavlov, O.V.
Engineering and seismic conditions of bridge construction for the Baykal Amur railroad (1980, p.164-173, rus) 35-140
Pavlov, V.I.
New method of foundation design for petroleum industry objects in West Siberia (1981, p.23-25, rus) 35-4246
Pavlov, V.P.
Single chemical admixture of composite nature for improving frost resistance of concretes (1980, p.13-14, rus) 35-781
Pavlov, V.R.
Comparative effectiveness of pneumatic tube transportation in mines in southern Yakutia (1978, p.72-80, rus) 35-4114
Pavlova, K.K.
Formation of meltwater losses (1981, 160p., rus) 35-4311
Methods of calculating infiltration of meltwaters into frozen soil (1980, p.375-379, eng) 35-966
Phase composition of water in the frozen soils of the Vyatka River basin (1978, p.255-260, eng) 35-3684
Pavlova, L.N.
Scattering of light by ice crystals (1980, p.98-102, eng) 35-4158
Pavlovskii, I.G.
Transportation development problems and prospects. Economic development of Siberia and the Far East (1980, 125p., rus) 35-864
Pavshtiks, E.A.
Regularities governing the existence of plankton in the Central Arctic Basin (1980, p.142-154, rus) 35-1322
Payette, S.
Cryogenic mineral mounds of the Leaf River lowlands, Ungava (1979, p.339-358, fre) 35-1049
Ecology of a black spruce (*Picea mariana*) clonal population in the hemiarctic zone, northern Quebec population dynamics and spatial development (1981, p.261-276, eng) 35-4259
Pearlman, M.D.
Special mooring systems using remote controlled quick disconnects for Beaufort Sea drilling operations (1980, p.339-344, eng) 35-3638
Pearson, S.W.
Thermal performance verification of thermal vertical support members for the trans-Alaska pipeline (1979, p.225-231, eng) 35-1109
Pease, C.H.
Eastern Bering Sea ice dynamics and thermodynamics (1980, p.213-222, eng) 35-4141
Eastern Bering Sea ice processes (1980, p.2015-2023, eng) 35-3647
Physical environment of the eastern Bering Sea March 1979 (1980, 119p., eng) 35-3469
Pechenin, IU.I.
Screening effect of tailings under permafrost conditions (1979, p.6-7, rus) 35-352
Peel, D.A.
Short-term fluctuations in heavy metal concentrations in antarctic snow (1981, p.144-146, eng) 35-3368
Trace metals in remote Arctic snows: natural or anthropogenic (1980, p.574-576, eng) 35-1218
Pegau, R.E.
In vitro and nylon-bag digestibilities of reindeer and caribou forages (1980, p.613-622, eng) 35-848
Pekala, K.
Observation on permafrost within the Bayan-Nuurin-Khotnor basin (Mongolia) (1976, p.1-17, pol) 35-1165
Peltoniemi, M.
Conductive bedrock and overburden effects on airborne electromagnetic methods used by the Geological Survey of Finland (1977, p.89-103, eng) 35-2728
Penchuk, V.A.
Designing construction machines for ground of low bearing strength (1980, p.21-23, rus) 35-1302
Pendin, V.V.
Experimental base for models of engineering fields in ecological allowing for landscape structure (1980, p.80-84, rus) 35-968
Peng, Q.
Cartographic methods of the map of Batura Glacier (1980, p.221-228, chi) 35-4041
Penninkilampi, J.
Aspects of photogeological interpretation of Sokli carbonatite massif (1977, p.25-29, eng) 35-2721
Pereiaslov, V.P.
Surficial position of the Late Pleistocene ice-bearing loess complex in the Yana-Omoloy Interfluve (1976, p.3-11, rus) 35-1144
Perepechko, I.I.
Low temperature properties of polymers (1980, 302p., eng) 35-3600
Pereverzev, V.N.
Changes in temperature regime of Subarctic soils due to economic development (1980, p.61-62, rus) 35-2271
Organic matter in soils of Kola Peninsula (1980, 227p., rus) 35-3279
Relations between different biological activity indices and properties of peat-bog soils in Kola Peninsula (1974, p.140-142, rus) 35-1212
Perevozchikova, E.M.
Microelement content in forest and cultivated loam soils of Karelia (1979, p.149-168, rus) 35-1419
Perfect, E.
Final report: investigation of thermally actuated water migration in frozen soils to the Department of Energy, Mines and Resources Earth Physics Branch (1980, 74p., eng) 35-2317
Thermally induced water migration in frozen soils (1980, p.101-109, eng) 35-725
Perfil'eva, V.I.
Flora of the Saskylakh village area (the Anabar River, northwestern Yakutia) (1980, p.1560-1568, rus) 35-3218
Vegetation of the lower Kolyma tundra (1980, p.5-43, rus) 35-283
Perham, R.E.
Harnessing frazil ice (1981, p.227-237, eng) 35-2554
Ice control arrangement for winter navigation (1981, p.1096-1103, eng) 35-4169
Perla, R.
Numerical computation of avalanche motion (1979, 12p., eng) 35-3552
Skiing (1981, p.709-740, eng) 35-3764
Snow-slab studies at Whistler Mountain, British Columbia, Canada (1980, p.85-91, eng) 35-2350
Two-parameter model of snow-avalanche motion (1980, p.197-207, eng) 35-2362
Perliuk, M.F.
Influence of partial flow diversion from the Pechora River on hydrochemical conditions of the Pechora Sea in summer (1980, p.41-44, rus) 35-3113
Permiakov, P.P.
Determination of the thermophysical characteristics of alternatively freezing and thawing dispersed media by the method of solving inverse problems of heat conduction (1981, p.885-589, eng) 35-3817
Perminova, G.N.
Biomass and production of algae in tundra soils (1980, p.859-863, rus) 35-395
Perov, V.F.
Avalanche and landslide danger along the Baykal Amur railroad (1980, 189p., rus) 35-252
Perovich, D.K.
Spectral albedos of an alpine snowpack (1981, p.121-127, eng) 35-3668
Perry, C.
Strain measurements in floating ice platforms (1980, p.33-53, eng) 35-3837
Pershe, E.R.
Combined aquaculture systems for wastewater treatment in cold climates: an engineering assessment (1980, p.105-127, eng) 35-2861
Person, S.J.
In vitro and nylon-bag digestibilities of reindeer and caribou forages (1980, p.613-622, eng) 35-848
Persson, S.
Growth of *Sphagnum riparium* Angstr. in relation to some environmental factors in the Stordalen mire (1980, p.191-207, eng) 35-1481
Pertsik, E.N.
Siberian cities (1980, 286p., rus) 35-1898
Pervit, A.S.
Cutter bar excavating equipment mounted on T-74 tractors (1979, p.24-25, rus) 35-353
Pervov, B.A.
Improvement of road construction technology (1980, 152p., rus) 35-1434
Pervushin, G.G.
Performance of industrial pipelines in frozen grounds (1980, p.8-12, rus) 35-2778
Using design schemes of pipelines built on elastic foundations in western Siberia (1980, p.21-23, rus) 35-2782
Peschanskii, A.
Multi-purpose icebreaker (1980, p.40-47, rus) 35-1136
Peschel, H.
Two decades of research by earth scientists of the German Democratic Republic during expeditions (1980, p.14-19, ger) 35-2429
Peshkova, N.V.
Productivity of plant communities of the "Khadyta" research station and the effect of rodents on grass cover in the study areas (1977, p.134-145, rus) 35-2868
Peters, G.R.
Hydrodynamic effects on iceberg gouging (1981, p.55-61, eng) 35-2418
Sea ice and icebergs (1979, p.41-59, eng) 35-162
Peters, R.E.
Rational design of overland flow systems (1980, p.114-121, eng) 35-2571
Toxic volatile organics removal by overland flow land treatment (1981, 14p., eng) 35-2894
Peterson, A.A.
Helicopter icing review (1980, 233p., eng) 35-1731
Peterson, K.M.
Tundra vegetational patterns and succession in relation to microtopography near Atkasook, Alaska (1980, p.473-482, eng) 35-3200
Vegetational change and ice-wedge polygons through the thaw-lake cycle in Arctic Alaska (1980, p.413-432, eng) 35-3197
Peterson, N.
California's transition from conventional snowpack measurements to a developing remote sensing capability for water supply forecasting (1980, p.11-19, eng) 35-1734
Peterson, N.R.
Proposed metric snow samplers (1980, p.107-119, eng) 35-2233
Petit, C.
Influence of conduction on the transfer function of cold wires at very low frequencies; experimental results (1981, p.103-114, fre) 35-3626
Petit, J.R.
Glaciological interpretation of microparticle concentrations from the French 905-m Dome C, Antarctica, core (1981, p.227-234, eng) 35-3033
Petrenko, V.
Foundation construction in Urgal BAM village (1980, p.42-45, rus) 35-929
Petrie, D.J.
Solidification in two-phase flow (1980, p.784-786, eng) 35-1680
Petrosian, L.R.
Hydraulic method of breaking up frozen soil (1981, p.35-38, eng) 35-4153
Petrov, I.B.
Geographic aspects of redirection of river courses in West Siberia (1979, 135p., rus) 35-2320
Long range program of complex studies of the Ob'-Irtysh Natural Resource Development Center (1979, p.3-16, rus) 35-2321

Petrov, I.B. *(cont.)*
Studies of the Irtysh floodplain in the area of immediate stream-flow diversion to the south of the Central Region (1980, p.110-114, rus) **35-1339**

Petrov, L.S.
Long-term variability in thermobaric and ice conditions in the South Orkney Islands area (1980, p.59-65, rus) **35-2180**
Structure of recent fluctuations in climatic conditions of the Arctic (1980, p.57-62, rus) **35-3050**
Winter climatic conditions in the Somov Sea based on data from the drift of the *Ob'* in 1973 (1980, p.72-78, rus) **35-2181**

Petrov, N.K.
Construction of transmission lines for power supply of the Baykal-Amur railroad (1981, p.2-5, rus) **35-4226**

Petrov, V.
From knowledge to know-how (1978, p.85-87, rus) **35-2452**
Preventive inspection of hull work in ice (1981, p.47, rus) **35-3483**

Petrov, V.N.
Variation in ice sheet thickness at Vostok and Vostok-1 (1980, p.49-53, rus) **35-2031**

Petrova, G.B.
Thermal insulation properties of external enclosures of residential large panel buildings, series 135, designed for the Baykal Amur railroad area (1980, p.68-70, rus) **35-2102**

Petrovskii, V.V.
Nomenclatural changes in the tundra flora of the Chukotskiy Peninsula (1980, p.99-106, rus) **35-3459**

Petruk, S.G.
Allowing for the hydrothermal regime of soils when establishing parameters of drainage nets (1980, p.27-28, rus) **35-1863**

Petrukhin, V.P.
Deformation mechanism of cemented clayey soils (1980, p.51-57, eng) **35-496**

Petrukhno, E.P.
Experience with the introduction of thermoactive heating of concrete (1980, p.833-837, eng) **35-3816**

Petrushenko, V.D.
Meteorological regime and heat balance of different landscape types in the Ob' River area of the north during interzonal redistribution of flow (1980, p.104-106, rus) **35-3124**

Petrushin, A.G.
Scattering of light by ice crystals (1980, p.98-102, eng) **35-4158**

Petryk, S.
Limitations to numerical modelling of ice in rivers (1981, p.243-262, eng) **35-2556**
Recent improvements in numerical modelling of river ice (1981, p.263-280, eng) **35-2557**

Pett, R.J.
Study of plankton ecology in Chesterfield Inlet, Northwest Territories: an arctic estuary (1980, p.185-197, eng) **35-3079**

Pettersson, B.
Thermography control of heat insulation and tightness of buildings (1980, 214p., eng) **35-2004**

Petushkov, V.G.
Blast treatment effect on bearing strength of St3 steel at low temperatures (1980, p.11-12, rus) **35-3015**

Petzold, D.E.
Effect of forest parameters on subarctic woodland solar radiation prediction (1981, p.27-38, eng) **35-3977**
Estimation technique for snow surface albedo (1977, p.1-11, eng) **35-2156**
Radiation balance of melting snow in open boreal forest (1981, p.287-293, eng) **35-4261**

Peuraniemi, V.
Application of humus analysis to geotechnical prospecting: some case histories (1977, p.1-5, eng) **35-2120**

Pewe, T.L.
Permafrost and its effects on human activities in Arctic and Subarctic regions (1979, p.333-344, eng) **35-1952**

Pezzitti, G.
Snow cleaning plan of Milan (1980, p.20-35, ita) **35-944**

Pfister, B.
Assessment of loss in carrying capacity after thawing (1980, p.394-399, fre) **35-1130**

Phan, C.L.
Influence of electro-freezing on ice formation on high-voltage DC transmission lines (1981, p.15-25, eng) **35-2415**

Pharand, D.
What is the future of the Northwest Passage (1980, p.2-7, fre) **35-3640**

Philip, J.R.
Thermal fields during regelation (1980, p.193-203, eng) **35-735**

Phukan, A.
Shallow foundations in continuous permafrost (1981, p.664-677, eng) **35-2529**

Phukan, A.H.
Design of foundations for buildings in discontinuous permafrost (1980, p.185-203, eng) **35-1976**

Pigletskii, G.E.
Freeze-thaw of peat soils in high moors of South Karelia (1970, p.91-93, rus) **35-2617**

Pigulevskiy, N.I.
Forest drainage effect on landscapes of Karelia (1980, p.52-77, rus) **35-1325**
Paludification processes in the forest zone (1980, p.7-16, rus) **35-1443**
Recent soil processes and fertility of Karelian soils (1979, 174p., rus) **35-1417**
Significance of swamps in the biosphere (hydrologic aspects) (1980, 176p., rus) **35-1442**
Swamp-forest systems of Karelia and their dynamics (1980, 184p., rus) **35-1324**

Pierson, D.C.
Influence of snow on the input and movement of cations within a small watershed: methods and preliminary results (1980, p.182-184, eng) **35-3158**

Pierstorff, B.W.
Water pollution from snow removal operations (1980, p.377-388, eng) **35-851**

Pigareva, N.N.
Forms and reserves of nitrogen in the cryogenic meadow-chernozem soils of Buryatiya and the effectiveness of nitrogen fertilizers (1976, p.136-144, rus) **35-804**

Pigeon, M.
Critical air spacing factors for concretes submitted to slow freeze-thaw cycles (1981, p.282-291, eng) **35-4315**
Studies on the basic properties of standard concrete subjected to extended freeze-thaw cycles (1980, p.407-420, fre) **35-834**

Piguzova, V.M.
Evaluation of underground drainage into east Siberian rivers (1980, p.135-138, rus) **35-4003**
Interrelationship between surface and ground water in the permafrost zone (1980, 146p., rus) **35-3988**

Pikhovkin, V.A.
Multi-story stone buildings in the North (1980, 153p., rus) **35-2882**

Pikul', V.
To the Pole of Inaccessibility (1981, p.24-26, rus) **35-2854**

Pilon, J.A.
Comparison of thermal and radar active layer measurement techniques in the Leaf Bay area, Nouveau-Quebec (1979, p.317-326, eng) **35-1047**
Permafrost and active layer in the forest tundra south of Leaf Bay, Ungava (1979, p.253-264, fre) **35-1043**

Pinneker, E.V.
Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979. Abstracts of the papers (1979, 211p., rus) **35-245**

Piotrowski, R.
Solving snow-drifting problems at Baker Lake, N.W.T. using snow-modeling techniques (1980, p.394-408, eng) **35-2130**

Pippan, T.
Importance of avalanche activity in present geomorphological processes in the Salzburg Alps (1974, p.301-312, ger) **35-1948**

Piralov, T.S.
Quick method of determining frost resistance of concrete (1980, p.16, rus) **35-1651**

Pirogov, A.G.
Relations between the strength of peat soils, swamp microlandscapes and their images on aerial photographs (1980, p.4-6, rus) **35-620**

Pirogova, N.V.
Relations between the strength of peat soils, swamp microlandscapes and their images on aerial photographs (1980, p.4-6, rus) **35-620**

Pirumova, L.G.
Shamanovsk reference section of Late Pleistocene and Holocene deposits of the Indigirka area (1980, p.74-81, rus) **35-2454**

Pisarenko, G.S.
Strength of materials and structural elements under extreme conditions. Vol I (1980, 536p., rus) **35-1490**
Strength of materials and structural elements under extreme conditions. Vol. II (1980, 771p., rus) **35-2396**

Pis'merov, A.V.
Last plot of virgin spruce forests in southern taiga of the Russkaya Plain (1980, p.38-45, rus) **35-955**

Pissart, A.
"Viviers" in the Hautes Fagnes are traces of periglacial hillocks, but were they actually pingos (1974, p.359-381, fre) **35-1996**
Experimental determination of the processes producing small polygonal sorted alpine soils (1974, p.241-248, fre) **35-1943**
Origin of pingos in regions of thick permafrost, western Canadian Arctic (1977, p.149-160, eng) **35-1884**
Segregated ice, frost heave and thermokarst phenomena in permafrost regions (1975, p.89-96, fre) **35-1994**
Study of a section taken across a rampart of a pingo scar in Brackvenn (1974, p.341-357, fre) **35-1995**

Pissis, P.
Depolarization thermocurrents in ice Ih at low temperature (1981, p.321-328, eng) **35-3690**

Pistruzak, W.M.
Proposed study of oil and gas under ice (1980, p.37-46, eng) **35-3873**

Pitelka, F.
Demographic features of a Lapland longspur population near Barrow, Alaska (1977, p.505-525, eng) **35-1682**

Pitelka, F.A.
Herbivore-based trophic system (1980, p.335-410, eng) **35-1939**

Pitzer, R.K.
Electric heat tracing and energy conservation for northern installations (1980, p.288-309, eng) **35-2124**

Piurveev, D.
From nomadic to mobile architecture (1980, 215p. (Pertinent p.174-213), rus) **35-2864**

Pivovarova, Zh.F.
Soil algae on the southern spurs of Khasynskiy Range (1979, p.125-133, rus) **35-4329**

Pizinli, R.L.
Dynamics of snow-skis (1970, 393p., eng) **35-4172**

Plam, M.
Avalanche hazard mapping and zoning problems in the Rocky Mountains, with examples from Colorado, U.S.A. (1980, p.363-375, eng) **35-2379**

Plank, V.G.
Improved method for obtaining the water content values of ice hydrometeors from aircraft and radar data (1980, p.1293-1299, eng) **35-3865**

Planning status report; water resources appraisals for hydroelectric licensing; Alaska river basins, Alaska
Planning status report, water resources appraisals for hydroelectric licensing, Alaska river basins, Alaska (1981, 32p. + map, eng) **35-3140**

Plastinin, L.A.
Space survey methods and data in studying exogenic processes in mountains of the Baykal-Amur railroad area (1981, p.22-26, rus) **35-3540**

Platonov, G.D.
Architectural planning solutions of urban complexes: standard residential and public complexes in the Far North (1980, p.1-9, eng) **35-1966**

Platonov, L.M.
Geothermal studies in the Baykal-Angarakan River area of the Baykal Amur railroad (1980, p.139-153, rus) **35-139**

Plaude, N.O.
Comparison of ice-forming activity of 1,5-dioxynaphthalene and phloroglucinol (1980, p.68-75, rus) **35-2695**
Studying ice-forming properties of some soluble substances (1980, p.76-81, rus) **35-2696**

Plekhanov, P.A.
Periglacial lakes in Zailiyskiy Alatau (1980, p.97-101, 165-170, rus) **35-2824**

Plesnitsev, V.A.
Performance of combined timber under different permafrost conditions (1977, p.125-127, rus) **35-69**
Stability of excavations adjoining the depleted space in mines of permafrost areas (1979, p.64-67, rus) **35-198**
Width of the abutment pressure zone as an index of excavation stability in shallow mines of permafrost areas (1980, p.103-106, rus) **35-635**

Pliusnin, V.M.
Glacial and morphoclimatic indices of the Baykal Highlands (1980, p.113-118, rus) **35-3479**
Space survey methods and data in studying exogenic processes in mountains of the Baykal-Amur railroad area (1981, p.22-26, rus) **35-3540**

Plokhov, A.A.
Afforestation processes and their control in the European North (1980, 113p., rus) **35-1897**

Podbornyi, E.E.
Deformation of bearing ground and structure of the Community Center building in the Novyy Urengoy village (1980, p.7-9, rus) **35-449**

Podkaliuk, V.P.
Quick method of roadbed construction on narrow steep-sloping sections of the Baykal-Amur railroad (1981, p.3-4, rus) **35-2842**

Podoplelov, V.P.
Timan-Pechora regional industrial complex (1979, 144p., rus) **35-4104**

Podymalova, T.P.
Technical-economic justification of road construction in the Baykal-Amur railroad area (1980, p.7-8, rus) **35-3008**

Pogosian, Kh.P.
Weather-forming factors and their role in bioclimatology (1980, 108p., rus) **35-1448**

Poiseeva, A.I.
Mathematical model of heat transfer between a semi-buried duct and the surrounding medium and its computer algorithm (1979, p.62-70, rus) **35-235**

Poltevin, J.
Permafrost and active layer in the forest tundra south of Leaf Bay, Ungava (1979, p.253-264, fre) **35-1043**

Pokudov, V.V.
Thermal regime of surface waters in the subarctic zone of the Pacific Ocean (1980, 173p., rus) **35-1798**

Poldomasov, B.E.
Preparation of permafrost bases for earth-rock-fill dams, when the permafrost beneath streams is cut by taliks (1981, p.47-53, rus) **35-3339**

Polekh, N.A.
Studying thunderstorms along buried communication cables in permafrost areas with lightning flash counters [1976, p.26-31, rus] **35-1190**

Polevaia, E.V.
Optimal distribution of railroad settlements [1980, p.19-20, rus] **35-106**

Polezhaev, A.N.
Changes in vegetation of Chukotsk pastures due to reindeer grazing [1980, p.5-13, rus] **35-1036**

Polezhaeva, Z.N.
Effect of young forest strips on snow cover distribution over the south of Krasnoyarsk region [1978, p.76-83, rus] **35-1099**

Poliakov, B.I.
Studying frost resistance of concrete [1980, p.52-53, rus] **35-3014**

Polinkova, E.I.
Structure and evolution of lagoons and bars along the Arctic coast of the Chukotskiy Peninsula [1980, p.77-84, rus] **35-1765**

Polianskii, R.P.
Improvement and wider application of modular construction [1981, p.9-12, rus] **35-3507**

Polishchuk, O.N.
Loss of spring flood waters in catchments of the northwest European USSR [1978, p.16-28, rus] **35-2701**

Poliushkin, IU.V.
Climatic extremes and pine increment in the areas marked for river redirection (central taiga of West Siberia) [1979, p.36-50, rus] **35-2322**

Polkovinchenko, I.T.
Studying concrete strength after the introduction of some anionic surface-active substances [1980, p.64-66, rus] **35-308**

Pollard, D.
Response of a zonal climate-ice sheet model to the orbital perturbations during the Quaternary ice ages [1980, p.301-319, eng] **35-1167**

Simple parameterization for ice sheet ablation rate [1980, p.384-388, eng] **35-1168**

Polonskii, L.A.
Vacuum degassing in construction technology of the North [1980, 175p., rus] **35-2048**

Polozova, T.G.
Ecologic and biologic characteristics of species of the genus *Eriophorum* L. in West Taymyr [1980, p.131-143, rus] **35-1409**

Poltev, N.F.
Effect of engineering works on the development of cryopedologic processes [1975, p.70-80, eng] **35-2402**

Rock stream formation in the area of the South Yakutian Task Economic Complex [1978, p.104-106, rus] **35-19**

Polunin, A.IA.
Glacier alimentation and possibilities of long-range forecasting runoff of mountain rivers in catchment areas with widespread glaciation [1980, p.42-49, 124-129, rus] **35-2815**

Poniatovskii, V.A.
Accelerated construction of compressor stations in West Siberia [1981, p.30, rus] **35-2785**

Perfecting the construction of compressor plants in West Siberia [1980, p.18-19, rus] **35-96**

Poormoayed, N.
Methodology for foundations on expansive clay [1980, p.1345-1367, eng] **35-1495**

Popenchenko, T.I.
Construction of the Baykal Amur railroad [1980, p.7-10, rus] **35-461**

Popov, A.F.
Spring ice jams in stream channels; physical principles and quantitative analysis [1981, 175p., eng] **35-3278**

Popov, A.I.
Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia [1980, 256p., rus] **35-279**

Cryolithogenesis and its place in the system of lithogenesis [1979, p.7-25, rus] **35-1828**

Popov, B.A.
Problems of landscape and geographic forecasting related to river redirection [1979, p.89-94, rus] **35-2326**

River diversion effect on shore stability of the Ob' Bay [1980, p.113-117, rus] **35-3127**

Popov, F.S.
Mathematical model of heat transfer between a semi-buried duct and the surrounding medium and its computer algorithm [1979, p.62-70, rus] **35-235**

Popov, I.K.
Underwater acoustic emission of Antarctic icebergs [1980, p.62-66, rus] **35-371**

Popov, IU.A.
Allowing for the hydrothermal regime of soils when establishing parameters of drainage nets [1980, p.27-28, rus] **35-1863**

Calculating heat protection measures for earth dam construction by the wash-up technique, under severe climatic conditions [1980, p.103-108, rus] **35-2103**

Increasing the effectiveness of dredging equipment when building hydraulically filled structures under severe climatic conditions [1980, p.98-104, rus] **35-1089**

Popov, N.V.
Dynamics of the Chilik Basin lakes and possibilities of their breakthrough [1980, p.107-112, rus] **35-214**

Popov, V.
For winter navigation [1980, p.22, rus] **35-911**

Portable equipment for frozen ground excavation [1979, p.28-29, rus] **35-336**

Popov, V.A.
Soils of hummocky peat bogs in the Far North [1974, p.10-16, rus] **35-688**

Popov, V.I.
Mudflows observed in the Bol'shaya Almatinka River basin, Aug. 3-31, 1977 [1980, p.57-63, rus] **35-210**

Popov, V.P.
Above-ground biomass and growth of the Siberian larch in the protective forest strips of the Shirinskaya steppe [1978, p.33-44, rus] **35-1095**

Biomass structure in narrow forest strips of West Siberian dry steppes [1978, p.57-68, rus] **35-1097**

Popova, E.P.
Influence of thermal conditions on biologic activity of forest soils [1980, p.98-100, rus] **35-2285**

Peculiarities of soil formation in the forest biogeocenoses of the Angara River area, depending on the recency of forest fires [1980, p.40-52, rus] **35-298**

Popova, I.L.
Evaluating river naled characteristics in the Baykal Amur railroad zone [1980, p.61-66, rus] **35-1870**

Popova, O.N.
Migration and biological activity of natural radionuclides in northern biogeocenoses [1980, 179p., rus] **35-1514**

Popova, O.S.
Biomass structure in narrow forest strips of West Siberian dry steppes [1978, p.57-68, rus] **35-1097**

Growth of trees in protective forest strips of Siberian dry steppes [1978, p.44-47, rus] **35-1096**

Populov, M.F.
Studying concrete strength after the introduction of some anionic surface-active substances [1980, p.64-66, rus] **35-308**

Porkhaev, G.V.
Fundamentals of the thermal interaction of buildings and structures with permafrost [1980, p.85-96, eng] **35-1973**

Porter, S.C.
Recent glacier variations and volcanic eruptions [1981, p.139-142, eng] **35-3366**

Portianko, N.G.
Problems of the Far North: the method of industrial outposts [1980, p.11-12, rus] **35-614**

Portnov, V.G.
Horizontal cracks in deep ice cores from Vostok Station [1980, p.75-79, rus] **35-2036**

Orientation of optical axes of ice crystals from Vostok Station ice cover [1980, p.70-74, rus] **35-2035**

Poser, H.
Forms, form distributions and lower limits in present periglacial levels in high mountains of Europe and Africa from the Arctic to the equator : Proceedings of a symposium [1977, 354p., ger] **35-1730**

Geomorphological processes and combined processes at the present time under different climatic conditions [1974, 459p., ger] **35-1942**

Postnikov, V.V.
Norms for designing pipeline anchors [1980, p.7-10, rus] **35-622**

Thermosiphons for ice crossing construction [1980, p.21, rus] **35-503**

Postnov, V.V.
Allowing for the properties of freezing soils when building trenches by blasting [1980, p.20-22, rus] **35-782**

Postoev, G.P.
Theoretical aspects of regional landslide forecasts [1980, p.193-199, rus] **35-1353**

Potanin, V.A.
Evaluating possible changes in hydrological, meteorological, hydrochemical and ice conditions of the Pechora Sea after the first phase of partial flow diversion from the Pechora River [1980, p.37-40, rus] **35-3112**

Potapov, E.I.
Surface measurements of atmospheric ice nuclei concentrations in the area of hail-cloud modification activities in Moldavia [1980, p.128-132, rus] **35-25**

Potapova, L.S.
Changes in the radiation and thermal energy balance in West Siberia due to human factors [1980, p.82-90, rus] **35-3051**

Changes in the radiation balance of western Siberia in average and in anomalous years [1981, p.68-81, rus] **35-3970**

Potter, J.R.
Use of catastrophe theory to analyse the stability and toppling of icebergs [1980, p.49-54, eng] **35-2205**

Potter, R.E.
Design and construction of sea ice roads in the Alaskan Beaufort Sea [1981, p.135-140, eng] **35-3449**

Effect of pile-ups and rubble fields on ice-structure interaction forces [1980, p.297-305, eng] **35-3634**

Slope protection for artificial exploration islands off Prudhoe Bay [1981, p.437-448, eng] **35-3451**

Pougatch, B.
Study of gradient metamorphism by simulation in a cold chamber [1978, 42p., fre] **35-1890**

Pound, C.E.
Land treatment: present status, future prospects [1978, p.98-107, eng] **35-2760**

Pourchet, M.
Evidence of climatic change in Antarctica over the last 30,000 years from the Dome C ice core [1981, p.217-225, eng] **35-3032**

Power, G.
Cruise report of ice feature observations from the *CCGS Franklin*, summer 1979 [1980, 104p., eng] **35-3701**

Power, J.M.
Application of the UBC watershed model to Peyto Glacier basin [1979, p.217-228, eng] **35-415**

Powerful electric locomotive for Siberia
Powerful electric locomotive for Siberia [1980, p.68-69, rus] **35-458**

Pozdniakov, A.V.
Mathematical model of slope development with viscoplastic movement of detrital material [1980, p.54-60, rus] **35-1764**

Pozdniakov, L.K.
Structure of over-thickened young larch forests in Yakutia [1980, p.46-55, rus] **35-956**

Pratt, T.
Ice depolarization at 11.7 and 19 GHz on slant paths in Virginia, USA [1981, p.148-153, eng] **35-3886**

Pratte, B.D.
Review of flow resistance of consolidated smooth and rough ice covers [1979, p.52-92, eng] **35-406**

Pravdivets, IU.P.
Design and construction of earth-fill overflow dams [1980, p.39-41, rus] **35-1639**

Design and construction of hydroelectric developments under severe climatic conditions [1980, p.68-72, rus] **35-1636**

Passing water and ice cover stone slopes [1981, p.43-46, rus] **35-2099**

PRC Harris, Inc.
Southcentral region of Alaska deep-draft navigation study [1981, c140p. + 10 appends., eng] **35-3674**

Precipitation and snow cover data 1976
Precipitation and snow cover data 1976 [1979, 108p., fin] **35-2061**

Pregent, G.P.
Himalayan and Trans-Himalayan glacier fluctuations and south Asian monsoon record [1980, p.171-182, eng] **35-1659**

Preliminary avalanche statistics for the 1980-1981 season through March 31, 1981
Preliminary avalanche statistics for the 1980-1981 season through March 31, 1981 [1981, p.43-47, fre] **35-4046**

Prentice, J.R.
Waterworks systems, Yellowknife, Northwest Territories [1980, p.409-425, eng] **35-2131**

Prentki, R.T.
Chemistry [1980, p.76-178, eng] **35-1751**

Physics [1980, p.51-75, eng] **35-1750**

Preobrazhenskaia, M.A.
Infiltration and freezing of sea water in coastal glaciers [1980, p.104-108, rus] **35-1462**

Preusse, H.-U.
Influence of deicing salts on soil and turf cover [1980, p.461-468, eng] **35-3771**

Price, A.G.
Stability analysis of some slopes in the area of Saglek fjord [1981, p.57-72, eng] **35-3979**

Price, J.
Comparative study of ice regimes during the freeze-up period on the Indian River, near Peterborough, Ontario [1980, p.110-120, eng] **35-44**

Price, L.W.
Radiocarbon dating of the rate of movement of two solifluction lobes in the Ruby Range, Yukon Territory [1980, p.365-379, eng] **35-1129**

Priestley, M.J.N.
Thermal analysis of thick concrete sections [1980, p.347-357, eng] **35-824**

Pritchard, R.S.
Ice flow through straits [1979, p.61-74, eng] **35-163**

Sea ice processes and models [1980, 474p., eng] **35-2167**

Transport and behaviour of a Prudhoe Bay oil spill [1980, p.103-109, eng] **35-3879**

Prival'skii, V.E.
Statistical predictability of mean annual air temperature over the northern hemisphere [1981, p.1342-1345, rus] **35-4275**

Prodi, F.
Experimental technique to study the effect of size on ice nucleations [1980, p.1448-1450, eng] **35-2423**

Prodi, V.
Experimental technique to study the effect of size on ice nucleations [1980, p.1448-1450, eng] **35-2423**

Prokacheva, V.G.
Accuracy of mapping snow cover boundary in mountains from television images of the satellite "Meteor" (experimentation in the Stanovoy Highlands) (1980, p.35-43, rus) **35-2972**
Using satellite information in solving hydrological problems (1980, p.3-9, rus) **35-2968**
Prokhorov, B.B.
Interrelations among natural conditions, economic development and population in the Baykal Amur railroad construction zone (1975, p.13-18, rus) **35-792**
Prokhorov, V.G.
Production of precast lightweight concrete elements for transportation construction (1981, p.20-23, rus) **35-2080**
Prokhorova, A.IA.
Biologic cycle in bilberry-peat moss pine forests (1972, p.30-36, rus) **35-1375**
Prokhorova, T.M.
Extremely early ice appearance in the Gulf of Finland in the fall of 1976 (1978, p.139-143, rus) **35-1003**
Prokhvatilov, A.I.
Low temperature modification of RKU-114M X-ray equipment (1979, p.916-917, rus) **35-340**
Prokopets, V.S.
Increasing frost resistance of cemented clayey soils (1980, p.7-8, rus) **35-476**
Prokop'ev, A.N.
Observing evaporation from the thermokarst lake Syrdakh (1980, p.36-38, rus) **35-3311**
Prokop'eva, I.P.
Statistical model for studying conditions of origin of heavy snowfalls (1980, p.18-24, rus) **35-1360**
Prokudin, I.V.
Stability of roadbed slopes build of clayey earth under vibrodynamic loads (1980, p.37-39, rus) **35-1529**
Prokudina, N.A.
Development of weeds in Siberian larch forest strips in relation to using different soil cultivation equipments (1978, p.68-75, rus) **35-1098**
Prospecting in areas of glaciated terrain 1977
Prospecting in areas of glaciated terrain 1977 (1977, 140p., eng) **35-2719**
Protasov, G.
Cargo delivery to the Far North, a most important problem of national economy (1980, p.5-6, rus) **35-903**
Protasov, V.R.
Preventing water pollution when building underwater pipelines (1980, p.21-22, rus) **35-504**
Protons rush through ice
Protons rush through ice (1981, p.20, eng) **35-4251**
Prowse, T.D.
Adjustment to avalanche hazard in New Zealand (1981, p.25-31, eng) **35-4299**
Observations on the use of a mechanical device for measuring the thickness of lake ice (1980, p.189-192, eng) **35-3160**
Prozorov, IU.S.
Hydrochemical regime of swamps in the Evoron Lake Basin (1979, p.156-180, rus) **35-1524**
Water-regulating role of forests under monsoon conditions in the Far East (1980, p.128-133, rus) **35-1445**
Prudhoe Bay Project; Final environmental impact statement
Prudhoe Bay Project, Final environmental impact statement (1980, 416p., eng) **35-34**
Prudnikov, S.M.
Multivariate statistical method of classifying dark conifer mountain forest soils in South Siberia (1980, p.163-170, rus) **35-3480**
Pruppacher, H.R.
Theoretical determination of the efficiency with which aerosol particles are collected by simple ice crystal plates (1980, p.1628-1638, eng) **35-485**
Theoretical study of the effect of electric charges on the efficiency with which aerosol particles are collected by ice crystal plates (1980, p.44-56, eng) **35-1676**
Pruzhina, E.G.
Characteristics of assimilation organs in creeping plants of the White Sea islands (1980, p.1779-1784, rus) **35-3220**
Pshenichnikov, N.M.
Determining the ice forming activity in diffusion chambers (1980, p.22-29, rus) **35-785**
Possible mechanisms of ice formation on silver iodide particles in diffusion and cloud chambers (1980, p.57-63, rus) **35-768**
Puchkov, A.V.
Space correlation of the dates of ice appearance on seas of the European USSR (1980, p.69-76, rus) **35-3000**
Puchkov, V.V.
Testing and operation of pneumatic hammers mounted on hydraulic excavators (1980, p.7-10, rus) **35-321**
Pudovkin, M.A.
Scheme for a generalized method of integral correlations for multivariate single phase Stefan problems and its applications (1980, p.43-52, rus) **35-2395**
Pufahl, D.E.
Behavior of thawing slopes in permafrost (1976, 323p., eng) **35-1468**
Pugachenko, V.N.
Ice-bedding method of building underwater pipelines (1980, p.36-37, rus) **35-316**
Pugachev, A.A.
Biomass dynamics and biological cycle in tundra and elfing wood-cedar landscapes of the Okhotsk Sea area (1979, p.92-124, rus) **35-4328**
Biomass reserves and structure in mountain landscapes of the northern Okhotsk Sea area (1979, p.5-15, rus) **35-4324**
Peat accumulation in intensively drained soils of the far northeastern USSR (1979, p.134-145, rus) **35-4330**
Soil cover structure in the Alpine tundras of the Bol'shoy Annachag Range (1980, p.54-67, rus) **35-4335**
Punkari, M.
Ice lobes of the Scandinavian ice sheet during the deglaciation in Finland (1980, p.307-310, eng) **35-2143**
Punning, IA.-M.K.
Pleistocene glaciations on Svalbard (1981, p.20-26, eng) **35-3901**
Relation between variations of the O-18 O-15 ratio and meteorological conditions in vertical profiles of warm glaciers (1981, p.25-30, rus) **35-3298**
Puranen, R.
Magnetic susceptibility and its anisotropy in the study of glacial transport in northern Finland (1977, p.111-119, eng) **35-2730**
Purtov, P.G.
Effect of transportation expenses on the cost of construction and assembly of petroleum industry objects in the Central Ob' River area (1980, p.20-23, rus) **35-625**
Methods of determining costs of transportation and delivery of local and imported construction materials to oil fields of West Siberia (1980, p.17-20, rus) **35-450**
Pusch, R.
Computer simulation of creep of clay (1981, p.95-104, eng) **35-1675**
Pushkin, B.IA.
Blasting rock sections with complex structure in freezing weather (1980, p.59-61, rus) **35-2456**
Pustovalov, A.A.
Equipment for building seepage fills on the Baykal Amur railroad (1981, p.3-5, rus) **35-3532**
Putintsev, E.
Northern dwellings (1980, p.38-46, rus) **35-3230**
Puzinauskas, V.P.
Properties of asphalt cements (1979, p.646-710, eng) **35-334**
Puzrina, M.A.
Soil moisture dynamics in the eastern part of the Siberian and Far Eastern permafrost areas (1980, p.80-81, rus) **35-2279**
Pyshko, L.V.
Bridge construction on temporary access roads (1981, p.6-8, rus) **35-2843**
Using bored situ-cast piles in bridge piers and foundations (1980, p.7-9, rus) **35-1526**
Qian, S.
Systems of data transfer and measurement in radio telemetry station on glacier (1980, p.3-7, chi) **35-2649**
Quadruple-screw river icebreakers for USSR
Quadruple-screw river icebreakers for USSR (1981, p.181, eng) **35-3695**
Qui, G.
Principle of railway line selection in alpine permafrost regions (1981, p.278-287, eng) **35-2509**
Qui, J.
Avalanches of December 1966 in western Tien-Shan, China (1980, p.512-514, eng) **35-2393**
Quinn, F.H.
Evaluation of climatic impact of the Niagara ice boom relative to air and water temperature and winter severity (1980, 31p., eng) **35-2936**
Ice research program of the Great Lakes Environmental Research Laboratory (1980, p.1-4, eng) **35-2157**
Quirk, J.P.
Freeze-dried and critical-point-dried clay: a comparison (1980, p.232-234, eng) **35-224**
Raban, R.R.
Hanging dams in the Manitoba Hydro System (1981, p.195-208, eng) **35-2552**
Rabinovich, IU.I.
Remote sensing of soil moisture with microwave radiometry (1977, p.66-76, rus) **35-901**
Rabukhin, L.G.
Methods of calculating combined filtering structures (1981, p.47-48, rus) **35-2089**
Rachner, M.
Description of a method for calculating snow cover evolution (1981, p.117-123, ger) **35-3689**
Racine, C.
Effects of a tundra fire on soils and plant communities along a hillslope in the Seward Peninsula, Alaska (1980, 21p., eng) **35-2602**
Racine, C.H.
Tundra fire effects on soils and three plant communities along a hill-slope gradient in the Seward Peninsula, Alaska (1981, p.71-84, eng) **35-4054**
Radchenko, G.A.
Performance of bulldozer-scrapers depending on the type of tailings (1980, p.8-9, rus) **35-324**
Rado, C.
180-meter core drilling at dome C and measurements in the 905-meter drill hole (1979, p.101, eng) **35-672**
Radok, U.
Selecting the method of measuring energy balance of glacier surfaces (1980, p.90-92, rus) **35-1233**
Raev-Bogoslovskii, B.S.
Design and operation of airfields (1980, 441p., eng) **35-703**
Rafay, T.
Dry ash handling system in cold climate conditions (1981, p.493-506, eng) **35-2520**
Ragozzino, E.
Temperature coefficient of the refractive index of H2O and D2O and proposed models of water structure (1980, p.1171-1177, eng) **35-1691**
Raikhmist, R.B.
Screening effect of tailings under permafrost conditions (1979, p.6-7, rus) **35-352**
Raikovskii, IU.V.
Core drilling through Ross Ice Shelf (1979, p.63-64, eng) **35-651**
Freezing on the undersurface of the Ross Ice Shelf, Antarctica (1979, p.1454-1457, rus) **35-437**
Heat and mass transfer at the lower surface of the Ross Ice Shelf (1980, p.27-36, rus) **35-1223**
Sea ice on bottom of Ross Ice Shelf (1979, p.65-66, eng) **35-652**
Raison, J.K.
Low temperature stress in crop plants, the role of the membrane (1979, 565p., eng) **35-1849**
Rakhno, P.Kh.
Review of data on temperature effect on the quantitative dynamics of soil microorganisms (1974, p.15-22, rus) **35-1203**
Trends in studying numerical dynamics of microorganisms in Estonia (1974, p.61-67, rus) **35-1206**
Rallison, R.E.
Automated system for collecting snow and related hydrological data in mountains of the western United States (1981, p.83-89, eng) **35-2315**
Ramachandra Rao, S.
Acoustic detection of frazil formation (1981, p.238-241, eng) **35-2555**
Ramamoorthi, A.S.
Using remote sensing in the evaluation of glacial runoff from the Himalayan basin of the Sutlej River (1980, p.39-42, 120-124, rus) **35-2814**
Ramseier, R.O.
Arctic sea-ice variations from time-lapse passive microwave imagery (1980, p.99-106, eng) **35-1115**
Proceedings (1981, 7 sections, eng) **35-3656**
Seasonal variation of total antarctic sea ice area, 1973-75 (1979, p.102-103, eng) **35-673**
Shorebased radar data for navigation of coastal and restricted ice covered areas with specific examples of Bylot Island, N.W.T., Canada (1979, p.83-98, eng) **35-165**
Ramsey, J.W.
Freezing on finned tube for either conduction-controlled or natural-convection-controlled heat transfer (1981, p.273-284, eng) **35-3272**
Transition from natural-convection-controlled freezing to conduction-controlled freezing (1981, p.7-12, eng) **35-2146**
Rand, J.
Danish deep drill, progress report February-March 1979 (1980, 37p., eng) **35-2594**
Rand, J.H.
New 2 and 3 inch diameter CRREL snow samplers (1980, p.199-200, eng) **35-3163**
Rango, A.
Measurement of liquid water content in a melting snowpack using cold calorimeter techniques (1980, p.41-67, eng) **35-1736**
Microwave remote sensing of snowpack properties (1980, 275p., eng) **35-1732**
Monitoring snowpack properties by passive microwave sensors on board of aircraft and satellites (1980, p.235-248, eng) **35-1746**
Operational applications of satellite snow cover observations (1980, p.1066-1073, eng) **35-4255**
Remote sensing of snow properties by passive microwave radiometry: GSFC truck experiment (1980, p.169-185, eng) **35-1742**
Ran'kova, E.IA.
Structure and changes of the observed climate: Air temperature in the Northern Hemisphere (1980, 72p., rus) **35-2950**
Rao, S.R.
Freezing potentials in wet clays: 1. Early results (1980, p.163-168, eng) **35-731**
Freezing potentials in wet clays: 2. Specific systems (1980, p.169-175, eng) **35-732**
Rapid ice building examined in Alaska
Rapid ice building examined in Alaska (1980, p.10, eng) **35-2857**
Rapid-sequence stereophotogrammetry of avalanches
Rapid-sequence stereophotogrammetry of avalanches (1980, 4p., fre) **35-2337**
Rapoport, IU.O.
Computer analysis of moisture content variations in rocks dried by open drainage (1978, p.119-135, rus) **35-1084**

Rapp, R.R.
Experiment on the sensitivity of a global circulation model studies on climatic dynamics for environmental security (1972. 26p., eng) 35-3465
Rappeport, M.L.
Depositional environments and Quaternary sedimentary units within lower Cook Inlet, Alaska: a high-energy tidally dominated embayment along the Pacific margin of the United States (1981, p.170-180, eng) 35-3238
Rashba, I.N.
Slopes and slope processes in the southern Minusinsk Basin (1978, p.86-122, rus) 35-880
Rasmussen, L.A.
Continuum sea ice model for a global climate model (1980, p.187-196, eng) 35-2169
Rassam, J.P.
Comparison of snow cover retreat calculated by the CEQUEAU hydrologic model to that estimated with the help of ESSA-8 satellite imagery (1979, p.424-448, fre) 35-428
Rasskazov, I.D.
Bridge construction on temporary access roads (1981, p.6-8, rus) 35-2843
Percussion-vibratory assembly for moulding concrete blocks of bridge piers (1981, p.23-24, rus) 35-2081
Using bored situ-cast piles in bridge piers and foundations (1980, p.7-9, rus) 35-1526
Rastorguev, V.
Results of icebreaker tests (1980, p.14-16, rus) 35-908
Rastvorova, O.G.
Field manual for soil science (according to structural zones) (1980, 148p. (pertinent p.15-38), rus) 35-2443
Ratner, E.M.
Long-term weather regime as a basis for health evaluation of climate in the Baykal-Amur railroad area (1980, p.60-69, rus) 35-1450
Ratskevich, G.I.
Optimization of earthwork planning (1981, p.84-88, rus) 35-4289
Raushenbakh, I.O.
Mudflow phenomena in the USSR (1980, p.90-102, rus) 35-212
Rawls, W.J.
Comparison of areal snow storage sampling procedures for rangeland watersheds (1980, p.71-82, eng) 35-1132
Ray, V.M.
Ice-dominated regimen of Norton Sound and adjacent areas of the Bering Sea (1980, p.263-278, eng) 35-4144
Raynaud, D.
Total gas content of ice and past changes of the northwest Greenland ice sheet (1981, p.235-237, eng) 35-3034
Rayner, J.N.
Index and analysis of surface temperature and wind frequency data (1961, 18p. + tables, eng) 35-2022
Razorenov, N.I.
Theories of nonlinear weak soil consolidation and possibilities of their application in engineering practice (1979, p.94-98, rus) 35-1279
Razzhivin, V.IU.
Snow cover effect on vegetation distribution in the southeastern Chukotskiy Peninsula (1980, p.1719-1733, rus) 35-3219
Rearic, D.
Reassessment of ice gouging on the inner shelf of the Beaufort Sea, Alaska: a progress report (1981, p.318-332, eng) 35-3264
Rebenkova, O.
Satellites help define icing areas (1980, p.28, rus) 35-1644
Recommendations of the working session of the authors of avalanche maps
Recommendations of the working session of the authors of avalanche maps (1980, p.27-30, rus) 35-2810
Redden, G.D.
Hydrocarbon gases in near-surface sediment of northern Bering Sea (Norton Sound and Chirikov Basin) (1981, p.215-243, eng) 35-3239
Reddy, D.V.
Viscoelastic analysis of calving glaciers (1980, p.37-41, eng) 35-2203
Redfield, R.
New 2 and 3 inch diameter CRREL snow samplers (1980, p.199-200, eng) 35-3163
Reed, K.M.
U.S. Geological Survey in Alaska: 1980 programs (1980, 112p., eng) 35-131
U.S. Geological Survey in Alaska: 1981 programs (1981, 111p., eng) 35-4225
Reed, S.C.
Aquaculture for wastewater treatment in cold climates (1981, p.482-492, eng) 35-2519
Aquaculture systems for wastewater treatment: an engineering assessment (1980, 127p., eng) 35-2859
Cost-effective use of municipal wastewater treatment ponds (1979, p.177-200, eng) 35-2751
Cost of land treatment systems (1979, 135p., eng) 35-2464
Energy and costs for agricultural reuse of wastewater (1980, p.339-346, eng) 35-2572
Engineering assessment of aquaculture systems for wastewater treatment: an overview (1980, p.1-12, eng) 35-2860
EPA policy on land treatment and the Clean Water Act of 1977 (1980, p.452-460, eng) 35-2759
Health aspects of land treatment (1979, 43p., eng) 35-2493
Health aspe water reuse in California (1979, p.434-435, eng) 35-2580
Land tate of the art (1973, p.229-261, eng) 35-2469
Land treatment of wastewaters for rural communities (1975, p.23-39, eng) 35-2568
Land treatment: present status, future prospects (1978, p.98-102, eng) 35-2760
Municipal sludge management: environmental factors (1977, Var. p., eng) 35-2715
Reeves, R.C.
Bering Sea ice project (1980, 34p., eng) 35-3675
Refsdal, G.
Road bearing capacity as decided by deflection measurements and the index method (1980, 13p., eng) 35-1728
Regamey, P.
Satellite pictures and snow measurements (1978, p.517-526, fre) 35-1163
Reid, I.A.
Glacier surveys in Alberta 1979 (1981, , eng) 35-4208
Reid, J.D.
Note on albedo variations of the frozen surface of Lake Simcoe during March, 1978 (1980, p.168-176, eng) 35-2458
Reimer, A.
Effect of wind on heat transfer in snow (1980, p.129-137, eng) 35-727
Reimer, E.
Aspects of oil-ice interaction subsequent to the Kurdistan spill (1980, p.75-86, eng) 35-3876
Reimer, R.B.
Resistance of concrete walls to high concentrated ice loads (1981, p.425-436, eng) 35-3450
Reimer, R.W.
Ice flow through straits (1979, p.61-74, eng) 35-163
Reimers, S.
Drilling and sampling in frozen ground: a few basics, a few problems (1980, p.13-17, eng) 35-256
Reimnitz, E.
Break in gouge character related to ice ridges (1981, p.333-343, eng) 35-3265
Geologic processes and hazards of the Beaufort Sea shelf and coastal regions (1981, p.257-355, eng) 35-3261
Geologic processes and hazards of the Beaufort Sea shelf and coastal regions (April-June 1979) (1980, p.130-188, eng) 35-1156
Geologic processes and hazards of the Beaufort Sea shelf and coastal regions (July-Sep. 1979) (1980, p.189-192, eng) 35-1157
Geologic processes and hazards of the Beaufort Sea shelf and coastal regions (Oct.-Dec. 1979) (1980, p.193-249, eng) 35-1158
New seismic evidence for a widespread occurrence of gas in submarine sediments at shallow depths, Prudhoe Bay, Alaska (1981, p.276-283, eng) 35-3262
Overconsolidated surficial deposits on the Beaufort Sea shelf (1981, p.284-312, eng) 35-3263
Overconsolidated surficial deposits on the Beaufort Sea shelf (1980, 37p., eng) 35-1914
Seismic evidence for an extensive gas-bearing layer at shallow depth, offshore from Prudhoe Bay, Alaska (1981, p.63-71, eng) 35-2419
Super sea-ice kettles in the arctic nearshore zone: Reindeer Island (1981, p.344-355, eng) 35-3266
Rein, R.G., Jr.
Laboratory measurements of subsurface displacements during thaw of low-angle slopes of a frost-susceptible soil (1980, p.349-358, eng) 35-1670
Reinwarth, O.
Ice and water balance of the Vernagtferner in 1974-1977 (1980, p.137-138, rus) 35-1244
Reiswig, H.M.
Oceanographic data report from the north shore of the Gulf of St. Lawrence (1980, 52p., eng) 35-2011
Reiter, R.
Electrical processes in atmospheres (1977, 865p., eng) 35-3775
Remigailo, P.A.
Algae in subarctic tundra lakes in the "Pokhodsk" research station area (1980, p.92-104, rus) 35-288
Remmert, H.
Arctic animal ecology (1980, 250p., eng) 35-2023
Ren, B.
Basic data on main glaciers of China (1980, p.60-61, chi) 35-92
Glaciers in China (1980, c200p., eng) 35-1564
Renaud, W.E.
Marine mammals inhabiting the Baffin Bay North Water in winter (1980, p.724-738, eng) 35-2171
Rendon-Herrero, O.
Estimating washload produced by snowmelt erosion on small watersheds (1980, p.66-83, eng) 35-1972
Repin, A.G.
Flank and frontal moraines of surging glaciers (1980, p.209-212, rus) 35-2835
Reports on the 1979 glaciological survey
Reports on the 1979 glaciological survey (1980, p.80-128, ita) 35-2561
Repp, K.
Supra-glacial lakes in Spitsbergen (1980, p.89-92, eng) 35-254
Reppo, E.
Frost effect on nitrogen transformations in soils (1974, p.136-139, rus) 35-1211
Resin, V.I.
Studying artificial freezing parameters for driving horizontal workings (1980, 248p., rus) 35-384
Resolutions of the Editorial Board of the World Atlas of Snow and Ice Resources (The fifth meeting, 21 February, 1980)
Resolutions of the Editorial Board of the World Atlas of Snow and Ice Resources (The fifth meeting, 21 February, 1980) (1980, p.7-8, rus) 35-2804
Resolutions of the Working Session of the Section of Glaciology, Feb. 18-20, 1980
Resolutions of the Working Session of the Section of Glaciology, Feb. 18-20, 1980 (1980, p.20-22, rus) 35-1221
Results of investigations of the Polish Scientific Spitsbergen Expeditions, 1970-1974, Vol.1
Results of investigations of the Polish Scientific Spitsbergen Expeditions, 1970-1974, Vol.1 (1975, 196p., eng) 35-3608
Results of investigations of the Polish Scientific Spitsbergen Expeditions, 1970-1974, Vol.2
Results of investigations of the Polish Scientific Spitsbergen Expeditions, 1970-1974, Vol.2 (1977, 138p., eng) 35-3618
Retherford, R.W.
Single wire ground return transmission for rural Alaska (1981, p.409-424, eng) 35-2515
Reviakin, V.S.
Role of glaciological investigations in the studies and development of mountainous regions (1980, p.37-40, rus) 35-1437
Revuka, V.
Construction equipment (1980, p.9, rus) 35-350
Reynaud, L.
Reconstruction of past velocities of Mer de Glace using Forbes Bands (1979, p.149-163, eng) 35-3724
Reynolds, J.M.
Lakes on George VI Ice Shelf, Antarctica (1981, p.425-432, eng) 35-4340
Reznikova, A.V.
Methodology of forecasting natural phenomena in Siberia (1980, 144p., rus) 35-148
Rhoads, E.M.
Community development in the circumpolar North (1981, p.1-15, eng) 35-2497
Riabchun, V.K.
Mechanics of viscous solifluction (1976, p.43-62, rus) 35-1146
Surficial position of the Late Pleistocene ice-bearing loess complex in the Yana-Omoloy Interfluve (1976, p.3-11, rus) 35-1144
Thermokarst lakes in the glacial and fluvio-glacial accumulation plains in the Lower Anadyr lowlands (1976, p.66-72, rus) 35-3831
Riabova, L.I.
Calculating minimum winter runoff in the eastern Baykal-Amur railroad area (1980, p.77-85, rus) 35-2878
Riabova, T.N.
Saline soils of West Siberia (1981, 152p., rus) 35-3568
Riashchenko, T.G.
Evaluating seismic stability of thixotropic ground in the Baykal-Amur railroad area (1980, p.173-178, rus) 35-141
Riasinskaia, L.M.
Role of cryogenesis in the formation of mountain and lowland soils in the eastern part of the Baykal-Amur railroad zone (1980, p.51-53, rus) 35-2268
Riazanov, V.S.
Calculating runoff in winter and transitional seasons (1980, p.68-77, rus) 35-1005
Ricard, J.
Moisture gain and its thermal consequence for common roof insulations (1980, p.4-16, eng) 35-2053
Richards, R.P.
Proposed metric snow samplers (1980, p.107-119, eng) 35-2233
Richards, W.G.
Field-controlled ionic charging of ice crystals (1981, p.3199-3202, eng) 35-3370
On the orientation of ice crystals in a cumulonimbus cloud (1981, p.1111-1114, eng) 35-4043
Richardson, B.Z.
Reclamation of acid-producing spoils on a western surface mine (1980, p.101-112, eng) 35-583
Relationship of the snowpack to acid mine drainage from a western surface mine (1980, p.79-100, eng) 35-582
Richardson, M.G.
Morphology and chemical composition of natural population of an ice-associated antarctic diatom *Navicula glacieri* (1980, p.250-257, eng) 35-1285
Richens, V.B.
Improved snow study kit (1973, p.109-113, eng) 35-4318

Richardson, J.C.
Interface study of rubber-ice friction [1981, p.55-69, eng] **35-4157**

Richmond, P.W.
Dynamic testing of free field stress gages in frozen soil [1980, 26p., eng] **35-2601**

Richmond, P.W., III
Impact fuse performance in snow (Initial evaluation of a new test technique) [1980, p.31-45, eng] **35-1584**

Ridgway, P.
Frost action on immature cement paste - effects on mechanical behavior [1980, p.386, eng] **35-825**

Ridings, T.F.
Airborne impulse radar sounding of sea ice [1980, p.187-191, eng] **35-2244**

Rigs in VANguard to slope
Rigs in VANguard to slope [1980, p.12, 14, eng] **35-2007**

Rikenglaz, L.E.
Determining the magnitude of force required for layer-by-layer excavation of frozen rocks treated with ultra-high frequency electromagnetic fields [1980, p.69-74, rus] **35-2455**

Experimental study of frozen rock strength in superhigh frequency electromagnetic fields [1980, p.47-51, rus] **35-636**

Rikhter, O.B.
Building river-harbor structures under complicated conditions of West Siberia [1980, p.18-20, rus] **35-1299**

Riley, R.G.
Changes in the volatile hydrocarbon content of Prudhoe Bay crude oil treated under different simulated weathering conditions [1981, p.109-119, eng] **35-2937**

Rindge, S.D.
Revegetation at two construction sites in New Hampshire and Alaska [1980, 21p., eng] **35-2586**

Ring, S.L.
Wind-tunnel analysis of the effect of plantings on snowdrift control [1980, p.8-12, eng] **35-3785**

Riotte, E.C.
Special mooring systems using remote controlled quick disconnects for Beaufort Sea drilling operations [1980, p.339-344, eng] **35-3638**

Riska, K.
Long term measurements of ice pressure and ice-induced stresses on the icebreaker *Sisu* in winter 1978 [1979, 50p., eng] **35-4180**

Rist, S.
Jokulhlaup (glacier bursts) and run-off series of Iceland rivers [1980, p.110-111, 178-179, rus] **35-2827**

Ritchie, A.G.B.
Frost action on immature cement paste - microstructural features [1980, p.264-268, eng] **35-523**

Rizzo, K.R.
Air pollution in Alaska [1980, p.210-215, eng] **35-1489**

Roach, D.A.
Reproductive strategies of pioneering alpine species: seed production, dispersal, and germination [1980, p.137-146, eng] **35-1658**

Robberecht, R.
Leaf ultraviolet optical properties along a latitudinal gradient in the arctic-alpine life zone [1980, p.612-617, eng] **35-829**

Roberts, A.D.
Interface study of rubber-ice friction [1981, p.55-69, eng] **35-4157**

Rubber-ice friction and vehicle handling [1981, p.14-16, eng] **35-3920**

Roberts, B.A.
Palsa bogs, sand dunes and salt marshes, environmentally sensitive habitats in the coastal region southeastern Labrador [1980, p.245-263, eng] **35-3096**

Robertson, A.W.
Palsa bogs, sand dunes and salt marshes, environmentally sensitive habitats in the coastal region southeastern Labrador [1980, p.245-263, eng] **35-3096**

Robertson, F.P.
Island design proposed for "iceberg alley" fields [1981, p.85-88, 93, eng] **35-2072**

Robertson, W.A.
Large scale development of remote housing in subarctic areas [1980, p.426-438, eng] **35-2132**

Robie, R.B.
Water conditions in California: basic data supplement, July 1980 [1980, 29p., eng] **35-2059**

Robin, G. de Q.
Climate into ice: the isotopic record in polar ice sheets [1981, p.207-216, eng] **35-3031**

Robinson, D.
Accuracy of operational snow and ice charts [1981, p.974-987, eng] **35-3589**

Robinson, D.A.
Weathering of sandstone by the combined action of frost and salt [1981, p.1-9, eng] **35-2338**

Robinson, J.E.
Satellite laser altimeter for measurement of ice sheet topography [1981, p.1003-1011, eng] **35-3592**

Studies in the Lateglacial of north-west Europe [1980, 205p., eng] **35-796**

Robinson, K.
Winter ice removal from stock water ponds [1980, 34p., eng] **35-3406**

Robinson, M.A.
Water distribution pipe networks for arctic settlements [1980, p.347-366, eng] **35-2128**

Rochev, L.G.
Dynamic sounding method of determining earth dam densities [1980, p.25, rus] **35-505**

Rode, A.A.
Podsol soils of Central and Eastern European USSR (developed on loams) [1980, 304p., rus] **35-877**

Roff, J.C.
Study of plankton ecology in Chesterfield Inlet, Northwest Territories: an arctic estuary [1980, p.185-197, eng] **35-3079**

Rogatin, IU.A.
Combined use of lightweight and cellular concretes in large panel construction [1980, p.37-38, rus] **35-1653**

Rogers, G.F.
Study of plankton ecology in Chesterfield Inlet, Northwest Territories: an arctic estuary [1980, p.185-197, eng] **35-3079**

Rogers, J.C.
Beaufort seacoast permafrost studies [1981, p.1-44, eng] **35-3235**

Fast ice regimes of the Beaufort and Chukchi Sea coasts, Alaska [1979, p.129-152, eng] **35-699**

Geophysical evidence of shallow nearshore permafrost, Prudhoe Bay, Alaska [1980, p.4845-4853, eng] **35-1117**

Roggensack, W.D.
Geotechnical properties of fine-grained permafrost soils [1977, 449p., eng] **35-1467**

Rogness, D.R.
Sanitation facilities operation and maintenance in Alaskan native villages [1980, p.239-247, eng] **35-2121**

Rogov, V.V.
Cryogenic structure and facies changes in the ice-bearing loess (Edoma) series of the Duvannyy Yar, Kolyma lowland [1979, p.145-156, rus] **35-1835**

Microstructure of frozen clay rocks when cooled from -5 to -50 C (according to the electron microscopy data) [1975, p.84-86, eng] **35-2404**

Rohani, B.
Terrain-vehicle model for analysis of steerability of tracked vehicles [1980, p.135-149, eng] **35-1586**

Roisk, G.S.
Durability of polymer concretes [1981, p.51, rus] **35-2847**

Experience in fabricating plates with porous glass-concrete thermal insulation [1980, p.22-26, rus] **35-1142**

Rokhvarger, Z.B.
Mathematical model of slope development with viscoplastic movement of detrital material [1980, p.54-60, rus] **35-1764**

Rold, J.W.
Geological processes in the high alpine environment [1980, p.207-209, eng] **35-591**

Roman, L.T.
Peculiarities of foundation design in petroleum provinces of West Siberia [1981, 167p., rus] **35-3918**

Physical and mechanical properties of frozen peat soils [1981, 134p., rus] **35-3225**

Romanenko, V.R.
Effect of young forest strips on snow cover distribution in the Shirinskaya steppe [1978, p.11-23, rus] **35-1093**

Romanov, A.A.
Assessing several characteristics of antarctic ice [1980, p.88-92, rus] **35-1458**

Romanov, E.V.
Methods of remote measurements of air temperature and humidity at sea [1980, p.52-56, rus] **35-2639**

Romanov, I.P.
Dimensions of ice fields [1979, p.111-115, rus] **35-4194**

Romanov, L.S.
Combined assemblies for drying pipelines and heating insulation materials [1980, p.29-30, rus] **35-617**

Romanov, P.G.
Determining early dates for dusting snow cover [1979, p.122-124, rus] **35-243**

Romanov, V.V.
Isotope methods of studying rock stream formation [1981, p.90-96, rus] **35-3300**

Peculiarities of water exchange between the Aldan hydrogeologic massive, the Baykal-Aldan and the Amur-Ussuriyskaya folded areas [1981, p.85-90, rus] **35-3299**

Romanova, E.A.
Role of hydrologic regime in the development of woody plants in high bogs of the non-chernozem zone [1980, p.147-152, rus] **35-1446**

Romanova, E.N.
Wind regime in the Baykal Amur railroad area [1980, p.23-34, rus] **35-1196**

Romanovskii, N.N.
Development principles of the polygonal-wedge microrelief [1974, p.67-78, rus] **35-2397**

The Earth's cold (guide for students) [1980, 190p., rus] **35-1700**

Romantsov, V.A.
Oceanographic investigations in polar regions of the World Ocean [1980, 239p., rus] **35-2888**

Romantsova, I.F.
Hydrologic observations and the calculation of heat balance in the southeastern part of the Laptev Sea [1979, p.38-44, rus] **35-4187**

Ronin, B.G.
Bridge construction on temporary access roads [1981, p.6-8, rus] **35-2843**

Using bored situ-cast piles in bridge piers and foundations [1980, p.7-9, rus] **35-1526**

Ronkonen, N.I.
Natural restoration of woody plants in felled areas of the Kola Peninsula [1970, p.79-81, rus] **35-2616**

Ronning, O.I.
Flora of Svalbard [1979, 128p., nor] **35-4210**

Roof snow load tolerance standards under revision
Roof snow load tolerance standards under revision [1980, p.16, eng] **35-1955**

Rosa, F.
Lake Erie in mid-winter [1978, p.134-141, eng] **35-4320**

Rose, L.A.
Assault on eternity [1980, 292p., eng] **35-3630**

Rosendahl, G.P.
Programming design and construction of utilities in Greenland [1980, p.19-43, eng] **35-2109**

Roshchupkin, D.V.
Flow-producing equipment PO-1200, PO-2200 and PO-3150 for maintaining ice-free areas around dredging shovels [1980, p.17-18, rus] **35-390**

Rosier, K.
Continental shelf development: a bibliographic background for Alaska, Vol 1 and 2 [1977, 415p., eng] **35-4317**

Rosliakov, V.P.
Electrification of oil and gas industry in West Siberia [1980, 182p., rus] **35-2687**

Ross, R.
Break in gouge character related to ice ridges [1981, p.333-343, eng] **35-3265**

Overconsolidated surficial deposits on the Beaufort Sea shelf [1981, p.284-312, eng] **35-3263**

Overconsolidated surficial deposits on the Beaufort Sea shelf [1980, 37p., eng] **35-1914**

Use of similitude in analyzing aircraft windshield anti-icing performance [1980, p.830-832, eng] **35-3852**

Rossinskii, K.I.
Changes in thermal and ice conditions of rivers due to regulation [1980, p.5-19, rus] **35-468**

Rossiter, J.R.
Airborne impulse radar sounding of sea ice [1980, p.187-191, eng] **35-2244**

Proceedings [1980, 505p., eng] **35-545**

Remote estimation of the properties of sea ice, ice core analysis, Beaufort Sea, March 1979 [1980, 172p., eng] **35-335**

Review of impulse radar sounding of sea ice [1980, p.77-107, eng] **35-549**

Rosswall, T.
Energy flow through the subarctic mire at Stordalen [1980, p.283-301, eng] **35-1485**

IBP PT Tundra Biome Project - Objectives, planning, site [1980, p.7-25, eng] **35-1471**

Nitrogen cycling in a subarctic ombrotrophic mire [1980, p.209-234, eng] **35-1482**

Roswell, C.
Origin of water feeding icings on the eastern North Slope of Alaska [1981, p.433-438, eng] **35-4341**

Rothen, F.
New approach to the morphological stability of the Stefan problem [1980, p.119-133, eng] **35-1497**

Rothrock, D.A.
Geometric properties of the underside of sea ice [1980, p.3955-3963, eng] **35-156**

Rott, H.
Global snow cover of 1978-79 as observed with the NIMBUS-7 SMMR [1981, p.83-84, eng] **35-3435**

Roulet, N.T.
Relationship between a lake ice and snow cover and zooplankton distribution [1980, p.133-148, eng] **35-46**

Snow depth distribution around spruce trees in the Chamonix Valley, France [1980, p.62-67, eng] **35-40**

Studies in snow and ice (A collection of student research papers and essays) [1980, 193p., eng] **35-35**

Use of a computer mapping package in displaying areal representations of a snowcover [1980, p.185-188, eng] **35-3159**

Rousselle, J.
Forecasting ice conditions on the Saguenay River (Quebec) [1979, p.185-196, fre] **35-412**

Rozenberg, V.I.
Absorption and scattering of microwaves by separate spherical particles of water and ice [1975, p.40-71, rus] **35-1616**

Rozental', O.M.
Setting of cement pastes at positive and subzero temperatures, according to PMR data [1979, p.275-279, eng] **35-1779**

Rozental', R.G.
Density of snow in Irkutsk [1980, 10p., eng] **35-982**

Rozhkov, S.V.
Developing means of transporting super-blocks [1981, p.11-12, rus] **35-3342**
Rozhkova, E.A.
Climatic extremes and pine increment in the areas marked for river redirection (central taiga of West Siberia) [1979, p.36-50, rus] **35-2322**
Rubailov, A.V.
Performance of bulldozers equipped with additional dismountable blades [1980, p.14, rus] **35-478**
Ruban, V.A.
Drainage construction in freezing weather [1980, p.43-45, rus] **35-3538**
Rubber in asphalt may cut skidding; tests to gage road icing reduction
Rubber in asphalt may cut skidding; tests to gage road icing reduction [1980, p.24, eng] **35-701**
Rubinshtein, A.B.
Improving the design of individual units for set-block construction [1981, p.24-25, rus] **35-2789**
Ruby, C.H.
Spilled oil retention potential - Beaufort Sea coast of Alaska [1979, p.247-253, eng] **35-174**
Rudakov, L.M.
Using liquid chlorides in winter on slippery roads [1980, p.11, 21, rus] **35-3005**
Rudakova, R.M.
Calculating ice melting currents according to the two wires-ground scheme [1979, p.40-44, rus] **35-607**
Rudberg, S.
Some observations concerning nivation and snow melt in Swedish Lapland [1974, p.263-273, eng] **35-1945**
Ruddiman, W.F.
Oceanic mechanisms for amplification of the 23,000-year ice-volume cycle [1981, p.617-627, eng] **35-3136**
Rudiakov, IU.A.
Closureless catch technique for studying vertical and horizontal distribution of pelagic organisms in the Arctic [1980, p.183-195, rus] **35-1323**
Rudnik, V.F.
Construction of pipeline passages beneath roads [1980, p.32, rus] **35-99**
Rudometkin, V.V.
Testing peat soils with cylindrical- and flat-base dies [1980, p.12-14, rus] **35-1634**
Rukavishnikova, N.E.
Integral methods of determining the parameters of one-dimensional consolidation [1981, p.250-255, eng] **35-4151**
Rumer, R.R., Jr.
Ice transport in Great Lakes [1979, 275p., eng] **35-1773**
Modelling ice dissipation in eastern Lake Erie [1978, p.194-200, eng] **35-4321**
Runoff of deicing salt in Buffalo, New York [1974, p.407-411, eng] **35-4257**
Rumiantsev, V.A.
Studying frozen ground excavation with disc-cutter excavators [1980, p.24-26, rus] **35-540**
Rurrous, C.M.
Laboratory measurements of subsurface displacements during thaw of low-angle slopes of a frost-susceptible soil [1980, p.349-358, eng] **35-1670**
Rusakov, V.G.
Solving an axially symmetrical two-dimensional problem of heat transfer between permafrost and a well in the process of drilling [1981, p.134-140, rus] **35-3291**
Rusanov, V.P.
Evaluating changes in hydrochemical regime of the Ob' River estuary after river diversion [1980, p.90-93, rus] **35-3120**
Hydrochemical characteristics of surface waters in the Arctic Basin [1980, p.15-33, rus] **35-1314**
Rusanova, G.V.
Annual consumption and return of chemical elements by the biomass of green-moss spruce forest in the central taiga of Komi ASSR [1971, p.62-63, rus] **35-2612**
Biological cycle of chemical elements in taiga spruce forests [1974, p.9-14, rus] **35-1925**
Rusheliuk, K.S.
Assembly for heating and drying concrete aggregates in a vibro-fluidized layer [1980, p.27, rus] **35-3001**
Russell, B.
Cover development on Elizabeth Lake, Labrador, with special reference to black ice [1980, p.100-109, eng] **35-43**
Russell-Head, D.S.
Melting of free-drifting icebergs [1980, p.119-122, eng] **35-2216**
Russell, S.O.
Estimation of small basin flood flows in the discontinuous permafrost zone [1979, p.229-238, eng] **35-416**
Russell, W.E.
Environmental aspects of winter navigation into Lake Melville [1980, p.287-306, eng] **35-3099**
Russia. Gosudarstvennyi komitet po delam stroitel'stva
Bases and foundations [1976, 96p., rus] **35-1715**
Concrete and reinforced concrete cast-in-place structures [1977, 127p., rus] **35-1717**
Instructions for designing caissons lowered in thixotropic sleeves [1976, 39p., rus] **35-1713**
Temporary instructions for designing walls and water impervious screens according to the "wall-in-the-ground" method [1976, 33p., rus] **35-1714**
Russia. Gosudarstvennyi komitet standartov
State standards index of the USSR, 1980 [1980, 3 volumes, rus] **35-860**
Russkikh, A.M.
Temperature regime of cyrogenic soils in Transbaikal in agrophytocenoses of the seedling-tillering period [1980, p.131-132, rus] **35-2297**
Rutford, R.H.
Glacial history of the Ellsworth Mountains [1980, p.56-57, eng] **35-3172**
Sand dunes of Victoria Valley, Antarctica [1974, p.189-216, eng] **35-3139**
Ruth, B.E.
Asphalt viscosity: an indicator of low temperature fracture strain in asphalt mixtures [1979, p.221-237, eng] **35-332**
Ryan, J.A.
H2O frost point detection on Mars [1981, p.503-511, eng] **35-3602**
Ryan, J.K.
Invertebrate faunas at IPB tundra sites [1981, p.517-539, eng] **35-3390**
Ryan, W.L.
Community planning considerations in cold regions [1981, p.54-63, eng] **35-2499**
Fire protection considerations in remote, cold regions communities [1980, p.230-233, eng] **35-2119**
Rybachuk, N.A.
Cryogenic soils of the central part of the Selemdzha River Basin [1980, p.44-46, rus] **35-2267**
Role of cryogenesis in the formation of mountain and lowland soils in the eastern part of the Baykal Amur railroad zone [1980, p.51-53, rus] **35-2268**
Rybczynski, W.
Appropriate technologies for water supplies and sanitation in northern communities [1980, p.121-135, eng] **35-2113**
Rychkova, V.A.
Group composition of phosphates in the old cultivated humus-peaty soil of the central taiga of Komi ASSR [1974, p.15-20, rus] **35-1926**
Ryden, B.E.
Climatic representativeness of a project period: Epilogue of a tundra study [1980, p.55-62, eng] **35-1473**
Hydrology of northern tundra [1981, p.115-137, eng] **35-3379**
IBP/PT Tundra Biome Project - Objectives, planning, site [1980, p.7-25, eng] **35-1471**
Physical properties of the tundra soil-water system at Stordalen, Abisko [1980, p.27-54, eng] **35-1472**
Thawing and freezing in tundra soils [1980, p.251-281, eng] **35-1484**
Rykova, IU.V.
Distribution and biomass of bushy lichens in northeastern Yakutia [1980, p.124-139, rus] **35-290**
Rysakov, Zh.I.
Moisture regime of Central Yakutian soils with overhead irrigation [1980, p.53-59, rus] **35-3315**
Ryys, O.
Dynamics of microbiological processes in soils and the factors influencing it. Pts. 1 and 2 [1974, 2 vols., rus] **35-1202**
Ryzhevich, I.I.
Using rock salt byproducts for preventing road pavement icing [1980, p.15-16, rus] **35-3009**
Ryzhov, V.N.
Yamal Peninsula [1981, p.84-91, rus] **35-4072**
Ryzhova, V.E.
Optimal evaluation of glacier characteristics [1980, p.213-215, rus] **35-2836**
Rzhavskii, E.L.
Improving the reliability of reservoirs, gas tanks and their equipment [1980, 288p., rus] **35-2440**
Rzhevskii, B.N.
Estimating the efficiency of avalanche-protection structures in the Khibiny Mountains from operational results in 1935-1978 [1980, p.241-249, rus] **35-1252**
S"edin, S.A.
Liquid nitrogen technique of artificial rock freezing when sinking shafts [1980, p.17-18, rus] **35-2636**
Sabourin, L.
Fracture behavior of ice in Charpy impact testing [1980, 13p., eng] **35-973**
Sackinger, W.M.
Measurements of sea-ice stresses near grounded obstacles [1981, p.144-147, eng] **35-1107**
Monitoring sea ice ridgebuilding and stresses [1980, p.209-236, eng] **35-3844**
Report of the Workshop on Arctic Oil and Gas Recovery held at Sandia National laboratories, Albuquerque, New Mexico, 30 June-2 July 1980 [1980, 38p., eng] **35-1062**
Review of technology for Arctic offshore oil and gas recovery, Vol.1. [1980, 95p., eng] **35-1061**
Seismotectonic studies of western Alaska and sea ice studies in Beaufort Sea [1981, p.575-618, eng] **35-3250**
Sadakov, IU.P.
Earthwork under urban construction conditions [1981, 256p., rus] **35-3962**
Sadler, H.E.
Fresh water anchor ice along an Arctic beach [1981, p.62-63, eng] **35-4052**
Sadovnikov, IU.N.
Spectral reflectivity variations along the profile of principal genetic types of soils [1980, p.45-52, rus] **35-535**
Sadovskii, A.V.
Construction of piling foundations and increasing their bearing capacity in frozen soils [1980, p.218-228, eng] **35-1978**
Sadovskii, S.I.
Giant power plant in the Sayan Mountains [1980, 104p., rus] **35-1271**
Organizing the construction of the Sayano-Shushenskaya hydroelectric power plant [1981, p.4-11, rus] **35-4280**
Winter concreting [1981, p.19-21, rus] **35-4283**
Saeki, M.
Forest cutting and avalanches on heavy snow slopes [1981, p.15-20, jap] **35-4203**
Inclination of young broad-leaved trees caused by snow accretion [1980, p.27-31, jap] **35-3661**
Method for measuring snow gliding [1976, p.196-197, jap] **35-262**
Safonova, T.A.
Algae in the upper course of the Kiya River basin (Kuznetskiy Alatau) [1981, p.4-16, rus] **35-3890**
New data on the phytogeography of Siberia [1981, 232p., rus] **35-3889**
Safriel, U.N.
Semipalmated Sandpiper in Alaska: reproductive strategies and tactics [1980, p.425, eng] **35-4236**
Safronova, I.N.
Some results of palynological investigation on Severnaya Zemlya in relation to the question of the transport of pollen and spores in the High Arctic [1981, p.27-32, eng] **35-3902**
Sage, B.
Conservation of the tundra [1981, p.731-746, eng] **35-3397**
Sage, J.D.
Mathematical synthesis of hourly snowfall for the analysis of long-term municipal adjustments to snow hazards by simulation [1974, 188p., eng] **35-4173**
Saginov, A.S.
Hydropneumatic impact systems of working parts of mining and road construction machines [1980, 199p., rus] **35-1149**
Sagisaka, S.
Studies of the perennial snow patch in Karasawa, Hotakadake [1979, p.165-170, jap] **35-264**
Sagriff, L.
Characteristics of snow distribution on Elizabeth Lake, Labrador [1980, p.89-99, eng] **35-42**
Sahlberg, J.
Study of the large scale cooling in the Bay of Bothnia [1980, 32p., eng] **35-3699**
Saikina, N.I.
Easily assembled modular buildings [1980, p.30-31, rus] **35-1307**
Saiko, V.A.
Calculating foundations of situ-cast bored piles in second-order sagging grounds [1980, p.53-58, rus] **35-229**
Saito, S.
Experimental study on the establishment of road-protecting forest against snow drift for Route 40 at Sarakitomanai, northernmost Hokkaido. Pt. 1 [1981, 101-106, jap] **35-4269**
Saito, T.
Percolation of sea ice. I - measurements of kerosene permeability of NaCl ice [1978, p.55-62, jap] **35-1540**
Saitoh, T.
Numerical method for the two-dimensional freezing problem around a horizontal cylinder encompassing a density inversion point [1981, p.147-152, eng] **35-4314**
Sakharov, V.I.
Epoxy-foam thermal insulation and waterproofing of structures in areas of severe climatic conditions [1980, 143p., rus] **35-1135**
Saks, V.N.
Influence of water runoff redistribution on the natural conditions of Siberia [1980, 184p., rus] **35-1331**
Problems of utilization and preservation of natural resources in Siberia [1980, 136p., rus] **35-3042**
Redistribution and preservation of water resources in Siberia [1980, p.76-81, rus] **35-1428**
Sakurai, K.
Frozen drops observed at Fairbanks, Alaska [1981, p.73-76, eng] **35-4265**
Salinger, M.J.
Paleoclimates north and south [1981, p.106-107, eng] **35-3365**
Salminen, R.
Problems of geochemical contrasts in Finnish soils [1977, p.34-44, eng] **35-2723**
Salo, S.A.
Physical environment of the eastern Bering Sea March 1979 [1980, 119p., eng] **35-3469**

Salt institute's sensible salting program provides winter guidelines
Salt institute's sensible salting program provides winter guidelines (1980, p.12-14, eng) **35-3208**

Salukvadze, M.E.
Avalanches in the Tskhenistskali River basin (1980, p.75-82, rus) **35-3801**

Salway, A.A.
Seismic and impact-pressure monitoring of flowing avalanches (1981, p.179-187, eng) **35-2360**

Samoilenko, V.N.
Allowing for low temperature effects in structural design (1980, p.25-26, rus) **35-471**

Samoilov, T.P.
Scientific basis of economic development of the mountain taiga zone in Primor'e (1979, p.25-35, rus) **35-4308**

Samoilova, G.S.
Utilization and protection of mountain landscapes in the USSR (1980, p.107-119, rus) **35-1441**

Sampson, P.
Mathematical model of nozzle blockage by freezing (1981, p.231-241, eng) **35-3269**

Samuels, W.B.
Oilspill risk analysis for the Kodiak Island (proposed sale 46) (1980, 40p. + 22 appends., eng) **35-155**

Samukhnin, P.N.
Residential buildings in Arctic regions (1979, p.26-27, rus) **35-465**

Sandakov, IU.
Results of icebreaker tests (1980, p.14-16, rus) **35-908**

Sandkvist, J.
Observed growth of brash ice in ship's tracks (1980, 23p. + 42 figs., eng) **35-3710**

Sannikov, A.G.
Glacier surges on the northern slopes of the Petr Pervyy and the Akademiia Nauk ranges (1980, p.112-119, rus) **35-721**

Sannikov, S.N.
Age biology of common pine east of the Ural Mountains (1976, p.124-165, rus) **35-1921**

Santachiara, G.
Experimental technique to study the effect of size on ice nucleations (1980, p.1448-1450, eng) **35-2423**

Santeford, H.S.
Avalanche zoning in Alaska, U.S.A. (1980, p.377-392, eng) **35-2380**

Sapozhnikov, A.P.
Problems of rating protective and preventive forest strips in the eastern part of the Baykal Amur railroad area (1979, p.11-26, rus) **35-1520**

Sargent, D.J.
Adhesive shear strength of ice to bonded solid lubricants (1972, p.464-471, eng) **35-274**

Sargent, J.W.
Operation, maintenance and management assistance for rural sanitation facilities (1980, p.248-259, eng) **35-2122**

Sarkar, M.K.
On unsteady state heat transfer during melting on horizontal tubes with a convective boundary (1981, p.155-165, eng) **35-3627**

Sartin, A.
Transmission electron microscopy study of particulate concentrations in seven individual snowflakes (1980, p.39-43, eng) **35-817**

Sartorelli, A.
Low frequency methods for measuring sea ice thickness (1980, p.313-330, eng) **35-557**

Sarukhanov, G.L.
Scales of runoff redistribution in the European USSR (1980, p.12-16, rus) **35-3106**

Sasaki, O.
11- and 18-GHz radio wave attenuation due to precipitation on a slant path (1980, p.580-585, eng) **35-2413**

Sassen, K.
Infrared (10.6-micron) scattering and extinction in laboratory water and ice clouds (1981, p.185-193, eng) **35-4250**
Light pillar climatology (1980, p.259-262, eng) **35-1486**

Sasyo, Y.
On the statistical investigation of fall velocity of snowflakes (1980, p.61-79, eng) **35-2155**

Sato, A.
Ablation study on the Yukikabe snow patch in the Daisetsu Mountains (1981, p.97-100, jap) **35-4268**

Satsukevich, K.P.
Drilling assembly equipped with BM-305 crane (1980, p.9-10, rus) **35-923**

Saunders, C.P.R.
Interactions of freely-falling ice crystals (1977, p.309-313, eng) **35-3779**

Savatiugin, L.M.
Bottom sediments under the Novolazarevskaya ice shelf (1980, p.93-96, rus) **35-1459**
Drilling through shelf ice near Novolazarevskaya Station (1979, 11p., eng) **35-1057**
Glaciological work on the Shackleton Ice Shelf (Jan.-Apr. 1978) (1980, p.114-118, rus) **35-2044**
Oxygen-isotope analysis of Novolazarevskaya Glacier shelf ice cores (1980, p.85-90, rus) **35-2038**

Savchenko, I.V.
State of grass lands in the swampy taiga of West Siberian natural environments (1980, p.3-14, rus) **35-959**

Savel'ev, B.A.
Structure and composition of natural ice (1980, 280p., rus) **35-149**

Savel'ev, B.V.
Levels and composition of the mineral components in ice cores from central Antarctica (1980, p.152-158, eng) **35-4148**

Savel'ev, R.V.
The birth of Severobaykal'sk (1980, p.16-18, rus) **35-2631**

Savel'eva, T.S.
Studying the structure of catchment areas in swamps and its relation to the annual runoff from aerial photographs (1980, p.93-99, rus) **35-2979**

Savenko, E.V.
Mineral pellicles on ice formations in Druzhba Cave (1976, p.21-24, rus) **35-1295**

Savin, E.N.
Effect of young forest strips on snow cover distribution in the Shirinskaya steppe (1978, p.11-23, rus) **35-1093**
Forest strip vulnerability to snow breakage (1978, p.83-90, rus) **35-1100**
Formation of forest strips and their effect on snow distribution (1978, 96p., rus) **35-1091**

Savin, S.M.
Miocene stable isotope record: a detailed deep Pacific Ocean study and its paleoclimatic implications (1981, p.665-668, eng) **35-3137**

Savin, V.K.
Construction thermodynamics (microclimate and thermal insulation of buildings) (1979, 133p., rus) **35-4055**
Natural turbulent convection at a vertical isothermal wall (1979, p.87-94, rus) **35-4061**

Savina, L.N.
Trends in forest vegetation development in Siberia in Holocene according to spore-pollen data (1980, p.28-53, rus) **35-2476**

Savinov, O.A.
Experimental and analytical method of studying oscillations, stresses and stability of bases beneath foundations of machines (1981, p.7-21, rus) **35-4288**

Savitskii, A.N.
Stability of steamed concrete subjected to deep cooling (1980, p.25-26, rus) **35-473**

Savkin, V.M.
Development of artificial lake shores in Siberia during their filling and operation (1980, p.77-84, rus) **35-1335**
Redistribution and preservation of water resources in Siberia (1980, p.76-81, rus) **35-1428**

Savko, N.F.
Frost resistance of road structures (1980, p.17-19, rus) **35-480**

Savvinov, D.D.
Climate of cryogenic soils and its control (1980, p.15-16, rus) **35-2256**
Numerical method of forecasting tundra soil temperature (1980, p.195-200, rus) **35-293**
Temperature and water regimes of forest soils in Yakutia (1971, p.118-175, rus) **35-1396**
Thermal balance of meadow vegetation and the climate of cryogenic flood-plain soils (1981, 176p., rus) **35-3567**

Savvinova, G.M.
Spore-pollen spectra in recent deposits of the lower Kolyma River area (1980, p.85-91, rus) **35-287**

Saxena, S.
On unsteady state heat transfer during melting on horizontal tubes with a convective boundary (1981, p.155-165, eng) **35-3627**

Sayles, F.H.
Embankment dams on permafrost in the USSR (1980, 59p., eng) **35-2005**
Excavation of frozen materials (1980, p.323-345, eng) **35-1985**
Regulated set concrete for cold weather construction (1980, p.291-314, eng) **35-1983**

Sazonov, A.G.
Peculiarities of soil formation in the zone of sporadic permafrost (Kondo-Sos'va uplands) (1980, p.39-41, rus) **35-2266**
Soil moisture dynamics in the birch-fir-cedar-spruce facies of central taiga in West Siberia (1973, p.55-62, rus) **35-763**
Soils of the Konda-Sos'va Priob'e (1978, p.70-96, rus) **35-3823**

Schaerer, P.A.
Avalanches (1981, p.475-518, eng) **35-3756**
Frequency of major avalanche winters (1980, p.43-52, eng) **35-2346**
Seismic and impact-pressure monitoring of flowing avalanches (1980, p.179-187, eng) **35-2360**
Snow-avalanche hazard zoning in British Columbia, Canada (1980, p.345-354, eng) **35-2377**

Schanda, E.
Microwave signatures of the natural snow cover at Weissfluhjoch (1980, p.203-223, eng) **35-1744**

Schandelmeier, L.A.
Effects of fire in Alaska and adjacent Canada: a literature review (1980, 124p., eng) **35-891**

Schenemauer, R.S.
Snowfall formation (1981, p.129-152, eng) **35-3749**

Schenk, R.U.
Alternatives to sodium chloride for highway deicing (Abridgment) (1980, p.12-15, eng) **35-3786**

Schiechtl, H.
Bioengineering for land reclamation and conservation (1980, 404p., eng) **35-3595**

Schild, M.
Accidents and damage due to avalanches (1980, p.93-151, ger) **35-2566**
Snow and avalanche conditions in the Swiss Alps (1980, p.44-92, ger) **35-2565**

Schilling, D.H.
Last great ice sheets: a global view (1981, p.203-232 + 10 sheets, eng) **35-2068**
Late Wisconsin-Weichselian mountain glaciers and ice caps (1981, p.179-206, eng) **35-2065**
Numerical reconstructions of valley glaciers and small ice caps (1981, p.207-220, eng) **35-2066**

Schlesinger, M.E.
January and July performance of the OSU two-level atmospheric general circulation model (1980, p.1914-1943, eng) **35-1074**

Schlichting, C.L.
Aids for improving vision in white-out (1980, 23p., eng) **35-1416**

Schmidt, R.A.
Threshold wind-speeds and elastic impact in snow transport (1980, p.453-467, eng) **35-2386**

Schmoller, R.
Nocturnal arthropods in the alpine tundra of Colorado (1971, p.345-352, eng) **35-1906**

Schneider, M.M.
Tritium and C-14 investigations in the framework of GDR research in Antarctica (1980, p.187-194, ger) **35-2438**
Tritium in ice near Molodezhnaya Station (1980, p.91-94, rus) **35-2039**

Schneider, S.H.
Carbon dioxide and climate: ice and ocean (1981, p.9-10, eng) **35-2071**
Ice-free Cretaceous? Results from climate model simulations (1981, p.501-508, eng) **35-3687**

Schneider, S.R.
NOAA NESS satellite snowmapping techniques (1981, p.133-140, eng) **35-3439**

Schofield, E.A.
Implications of alternative national energy policies for tundra ecosystems (1980, p.274-296, eng) **35-2316**

Schonberger, G.
Recycling of milled asphalt as a frost protection material (1981, p.130-140, ger) **35-3919**

Schreader, R.L.
Large scale development of remote housing in subarctic areas (1980, p.426-438, eng) **35-2132**

Schreier, H.
Microbial dynamics of two sub-Arctic Canadian rivers (1980, p.1353-1362, eng) **35-114**
Variations in water quality during winter in two Yukon rivers with emphasis on dissolved oxygen concentration (1980, p.1345-1351, eng) **35-113**
Winter water quality sampling and its use in determining hydrological conditions in the Ogilvie River system in the Yukon Territory (1979, p.559-569, eng) **35-434**

Schriever, W.R.
Snow and buildings (1981, p.562-579, eng) **35-3758**
Unbalanced snow distributions for the design of arch-shaped roofs in Canada (1980, p.651-656, eng) **35-2149**

Schulson, E.M.
Analysis of the brittle to ductile transition in polycrystalline ice under tension (1979, p.87-91, eng) **35-694**

Schultheis, A.C.
Polar environmental monitoring, final report (1979, 94 leaves, eng) **35-1309**

Schultz, H.
Theoretical and experimental studies of microwave radiation from a natural snow field (1980, p.225-234, eng) **35-1745**

Schunke, E.
Formation processes on snow patches in the Icelandic highlands (1974, p.274-286, ger) **35-1946**
Present thermal climatic changes at the polar frontier of the European community dimensions, causes and effects (1979, p.282-291, eng) **35-357**
Recent periglacial morphodynamics on Angmagssalik Ø, southeast Greenland (1979, p.1-19, ger) **35-2642**

Schuster, M.A.
Proceedings (1980, 258p., eng) **35-576**

Schutze, H.
Research on environmental nuclides in Antarctica (1980, p.122-144, ger) **35-2437**

Schwarz, W.
Avalanches and planning (1981, p.425-442, ger) **35-4216**

Schwerdtfeger, P.
Iceberg oscillations and ocean waves (1980, p.63-65, eng) **35-2207**

Schwerdtfeger, W.
Discharge of Weddell Sea ice into the belt of mid-latitude westerlies (1979, p.108-109, eng) **35-677**

Schweyer, H.E.
Asphalt viscosity: an indicator of low temperature fracture strain in asphalt mixtures [1979, p.221-237, eng] **35-332**
Science Applications, Inc.
Environmental assessment of the Alaskan Continental Shelf. Northeast Gulf of Alaska interim synthesis report [1980, 313p., eng] **35-1827**
Scofield, R.
Minimizing roadway salt problems in Maine (Abridgment) [1980, p.25-27, eng] **35-3789**
Scott, J.D.
Foundation performance of a steel tower silo at Richmond, Ontario [1980, p.85-89, eng] **35-277**
Scott, W.S.
Occurrence of salt and lead in snow dump sites [1980, p.187-195, eng] **35-706**
Scoullar, K.A.
Between-site comparisons of carbon flux in tundra by using simulation models [1981, p.685-715, eng] **35-3396**
Seastedt, T.R.
Territory size and composition in relation to resource abundance in Lapland Longspurs breeding in arctic Alaska [1979, p.131-142, eng] **35-4237**
Sedov, V.V.
Ice formation in migrating frost mounds of West Siberia according to ice structure analyses [1979, p.183-193, rus] **35-1839**
Segal, Z.
Determining propulsive performance of ships in ice [1980, p.45, rus] **35-1605**
Seguin, M.K.
Cryogenic mineral mounds of the Leaf River lowlands, Ungava [1979, p.339-358, fre] **35-1049**
Geophysical study of a palsa field at Poste-de-la-Baleine, Ungava [1979, p.327-337, fre] **35-1048**
Seifert, R.D.
Builder's guide to water and energy [1980, 78p., eng] **35-2021**
Seilanov, L.A.
Joint effect of loading and subzero temperature on deformation of bending elements [1980, p.7-9, rus] **35-1650**
Seino, H.
Size distribution of snowflakes and graupel particles observed in Nagaoka, Niigata Prefecture [1979, p.79-92, eng] **35-515**
Sekido, Y.
First artificial snow crystals (Pt 1) [1980, p.49-60, jap] **35-3663**
First artificial snow crystals (Pt 2) [1981, p.41-54, jap] **35-4206**
First artificial snow crystals, (Pt. 3) [1981, p.115-122, jap] **35-4271**
Seleznev, P.V.
Deterioration of ice of different age [1981, p.56-58, rus] **35-3945**
Selim, H.M.
Modeling nitrogen transport and transformations in soils. 1. Theoretical considerations [1981, p.233-241, eng] **35-4081**
Modeling nitrogen transport and transformations in soils. 2. Validation [1981, p.303-312, eng] **35-4080**
Seliuk, G.P.
Evaluating frost resistance of ceramic materials for walls [1980, p.22-23, rus] **35-348**
Selivanov, A.G.
Electrical grounding for 110 kv unit substations, designed according to contact voltage standards [1980, p.64-66, rus] **35-598**
Sellmann, P.V.
Delineation and engineering characteristics of permafrost beneath the Beaufort Sea [1980, p.103-110, eng] **35-1153**
Delineation and engineering characteristics of permafrost beneath the Beaufort Sea [1981, p.125-157, eng] **35-3256**
Permafrost beneath the Beaufort Sea: near Prudhoe Bay, Alaska [1980, p.35-48, eng] **35-1105**
Regional distribution and characteristics of bottom sediments in Arctic coasts' waters of Alaska [1980, 50p., eng] **35-2598**
Semenov, V.
Icebreaker *O.Yu Shmidt* [1980, p.43-46, rus] **35-789**
Semenyshev, A.A.
Assembly for drilling holes in ice [1979, p.14-16, rus] **35-2620**
Semerenko, I.M.
Construction of deep sea piers in the Arctic [1981, p.17-18, rus] **35-3013**
Semerikov, A.V.
Studying temperature fields in natural ground [1980, p.8-10, rus] **35-1633**
Semiashkina, T.M.
Influence of high thorium content on soil fauna of central taiga [1980, p.120-124, rus] **35-1517**
Semko, A.P.
Changes in temperature regime of Subarctic soils due to economic development [1980, p.61-62, rus] **35-2271**
Semtner, A.J., Jr.
General circulation experiment with a coupled atmosphere, ocean and sea ice model [1980, p.1887-1908, eng] **35-2472**
Sen'kin, O.V.
Applying system analysis to modeling geomorphologic consequences of river diversion [1980, p.120-123, rus] **35-3129**
Sen'kov, A.A.
Moisture transfer between Kulunda soils and ground water during freezing and thawing [1980, p.111-113, rus] **35-2291**
Sennikov, S.I.
Temperature spectrum of ground water crystallization [1980, p.16-20, rus] **35-2770**
Seppala, M.
Deglaciation and glacial lake development in the Kaamasjoki River basin, Finnish Lapland [1980, p.311-319, eng] **35-2144**
Serebriannyi, L.R.
Methods of studying end-moraines of mountain glaciers [1980, p.44-53, rus] **35-1763**
Seredin, V.G.
Large components as a basis for the intensification of residential building construction [1981, p.31-32, rus] **35-4240**
Sergeev, A.F.
Construction of the Baykal Amur railroad [1980, p.7-10, rus] **35-461**
Sergeev, B.P.
Hydrothermal regime of soils during biologic recultivation of landscapes affected by industrial development [1980, p.23-31, rus] **35-3309**
Variations of heat transfer between soil and atmosphere induced by engineering activities in tundra regions [1981, 12p., eng] **35-826**
Vegetation effect on hydrothermal regime of tundra soils in the northern Yenisey River area [1981, p.82-86, rus] **35-2769**
Sergeev, G.M.
Recent climatic changes in the taiga zone of the West Siberian Plain [1972, p.32-39, rus] **35-760**
Sergeev, G.N.
Pressure ridges and ice resistance to moving ships [1980, p.100-104, rus] **35-1594**
Sergeev, N.I.
Atmospheric circulation effect on thermal regime of Siberian climate [1980, p.31-48, rus] **35-2487**
Sergin, V.IA.
Origin and mechanism of large-scale climatic oscillations [1980, p.1477-1482, eng] **35-1535**
Serikova, L.P.
Thermal balance of the active layer and its possible variations during interzonal redistribution of river flow [1980, p.107-109, rus] **35-3125**
Serson, H.V.
Fresh water anchor ice along an Arctic beach [1981, p.62-63, eng] **35-4052**
Several reasons for failure of field welded oil pipeline
Several reasons for failure of field welded oil pipeline [1980, p.8-9, eng] **35-3358**
Severskii, E.V.
Geocryologic altitudinal zonation of northern Tien Shan [1979, p.67-83, rus] **35-189**
Large scale mapping of cryogenic phenomena in Zailyskiy Alatau [1979, p.105-112, rus] **35-192**
Severskii, I.V.
Avalanches - a menace of the mountains [1980, 151p., rus] **35-863**
Sevost'ianov, M.I.
The goal is efficiency and high quality work [1980, p.2-4, rus] **35-444**
Seward, D.
Fission track ages of Marie Byrd Land volcanic rocks [1980, p.19, eng] **35-3169**
Sezin, V.M.
Basic problems in forecasting avalanche danger [1980, p.35-40, rus] **35-713**
Quantitative evaluation of the degree of avalanche danger [1980, p.59-66, rus] **35-716**
Sha, K.
New method of measuring snowflake size and falling velocity [1981, p.1-8, jap] **35-4201**
Shabanov, P.P.
Thermosiphons for ice crossing construction [1980, p.21, rus] **35-503**
Shablevskaia, V.A.
Study and preservation of water resources (1971-1973) [1976, 128p., rus] **35-1366**
Shabtaie, S.
Deep geoelectric and electromagnetic soundings at Dome C [1980, p.69-71, eng] **35-3179**
Dome C geophysical survey, 1979-80 [1980, p.2-5, eng] **35-3165**
Shadrin, A.N.
Deterioration of ice of different age [1981, p.56-58, rus] **35-3945**
Shafer, B.A.
Evolution of snow sensors and the potential of microwave devices in operational telemetry networks [1980, p.1-10, eng] **35-1733**
Shafrai, S.D.
Evaluating service life of steel structures at low temperature with cyclic overloading [1980, p.26-31, rus] **35-2101**
Shahin, M.Y.
Asphalt concrete for cold regions, a comparative laboratory study and analysis of mixtures containing soft and hard grades of asphalt cement [1980, 55p., eng] **35-2587**
Shakhbazian, Ts.A.
Grouping of mining blocks in mathematical modeling of placers [1978, p.9-19, rus] **35-1079**
Shakhov, P.A.
Regularities of snow cover distribution in the Ushakovka River basin and their role in the spring flood runoff and ground water regime [1980, p.200-207, rus] **35-3427**
Shakhov, V.S.
Scraper with adjustable cutting angle [1981, p.20-21, rus] **35-2096**
Shali', E.E.
Estimating the efficiency of avalanche-protection structures in the Khibiny Mountains from operational results in 1935-1978 [1980, p.241-249, rus] **35-1252**
Shamaeva, A.P.
Studying mass transfer properties of polymer thermal insulation materials [1979, p.106-109, rus] **35-240**
Studying steam permeability of some construction materials [1979, p.110-113, rus] **35-241**
Shamanova, I.I.
Central part of the Sibirskiye Uvaly swamps [1981, p.97-101, rus] **35-4074**
Engineering-geocryological conditions of the Nadym-Kazym interfluve [1980, p.94, rus] **35-772**
Present state and dynamics of permafrost in West Siberia near its southern boundary [1980, p.106-112, rus] **35-1533**
Shamin, A.A.
Land reclamation effect on hydrophysical properties and biologic activity of bog soils in northern taiga [1980, p.44-51, rus] **35-957**
Shamshurin, V.IU.
Geothermal conditions of the Yubileynaya kimberlite pipe [1980, p.79-82, rus] **35-3319**
Shamurin, V.F.
Phytomass and primary production of tundra communities, USSR [1981, p.227-238, eng] **35-3381**
Shanochkin, S.V.
Forecasting dates of ice appearance on the Danube River using discriminant analysis [1978, p.34-40, rus] **35-2703**
Long range forecasting of the beginning of river ice formation in the North European USSR [1980, p.92-99, rus] **35-1018**
Shapiro, L.H.
Breaking ice with gravity waves [1980, p.148-153, eng] **35-1108**
Flatjack methods of in-situ measurement of the mechanical properties of sea ice [1979, p.196-202, eng] **35-1111**
Plane waves in a viscoelastic floating ice sheet [1981, p.4269-4273, eng] **35-3912**
Shapiro, V.D.
Rational application of slab and pile foundations beneath block-set structures [1980, p.4-6, rus] **35-94**
Shapovalov, I.S.
Calculating thermal regime of basements containing technical equipment (discussion) [1980, p.19-21, rus] **35-2625**
Shar-Baronov, L.
Routes in the ice [1980, p.104-111, rus] **35-3231**
Sharapov, V.
Preventing the freezing of cargo [1980, p.17, rus] **35-1643**
Sharapov, V.G.
Calculating expected ground oscillations from a most dangerous earthquake in the Chara station area of the Baykal Amur railroad [1980, p.179-190, rus] **35-142**
Sharman, R.D.
H2O frost point detection on Mars [1981, p.503-511, eng] **35-3602**
Shatalin, N.V.
Ice surveying from helicopters for winter operations in the area of approaches to the Nagaevo port [1981, p.32-40, rus] **35-3940**
MI-2 helicopters used in long-range ice surveys in the Arctic [1981, p.41-45, rus] **35-3941**
Shats, M.M.
Frozen rocks in the southern Krasnoyarsk area [1980, p.120-124, rus] **35-3325**
Shaulo, D.N.
Flora of pine forests in central Tuva [1981, p.197-210, rus] **35-3896**
Shaver, G.R.
Response to fertilization by various plant growth forms in an Alaskan tundra: nutrient accumulation and growth [1980, p.662-675, eng] **35-830**
Shaw, G.E.
Optical, chemical and physical properties of aerosols over the antarctic ice sheet [1981, p.911-921, eng] **35-2892**
Shaw, J.
Drumlins and large-scale flutings related to glacier folds [1980, p.287-298, eng] **35-1666**
Morphology of the Onyx River system, McMurdo Sound region, Antarctica [1980, p.223-238, eng] **35-2953**
Sedimentation in proglacial Sunwapta Lake, Alberta [1981, p.81-93, eng] **35-2707**

Shaw, J.T.
Oceanographic measurements in the Chukchi Sea, April-August 1977 (1979, 131p., eng) **35-1581**
Shchegolev, G.S.
Superpower turbines for Siberia and the Far East (1980, 135p., rus) **35-2447**
Shchegolev, V.V.
Studying rubber seal elasticity in buildings of the North (1980, p.15, rus) **35-462**
Shchelkunova, N.O.
Calculating parameters of earth-fill cones used in avalanche protection (1980, p.64-73, rus) **35-3575**
Shchelokov, V.K.
Calculation of the thermal regime of bases of cold-storage plants with air spaces (1970, p.81-83, eng) **35-498**
Experimental investigations of the elastic moduli of the soil in a lateral fill (1981, p.29-31, eng) **35-4152**
Shchepetkin, A.N.
Construction of the Ob' River crossing of the 220 kv Polotskaya-Ust'-Balyk overhead line using the railroad bridge (1981, p.64-66, rus) **35-4285**
Shcherbakov, A.V.
Thermophysical characteristics of external walls consisting of two-layer panels with macroporous haydite concrete insulation (1979, p.81-87, rus) **35-4060**
Shcherbakov, I.P.
Introduction into the classification of central taiga forests in Yakutia (1971, p.3-33, rus) **35-1391**
Studies of forest soils and vegetation in the northeastern USSR (1971, 176p., rus) **35-1390**
Shcherbakov, IU.A.
Allowing for slope orientation when determining trends in landscape development (1975, p.24-34, rus) **35-1788**
Shcherbakova, L.N.
Allowing for environmental protection when designing partial redirection of Siberian rivers (1979, p.121-127, rus) **35-2329**
Shcherbinin, I.A.
Building industrial pipelines in western Siberia (1980, p.2-4, rus) **35-2776**
Shchetinnikov, A.S.
Mudflows in the Isfayramsay River Basin in 1977 (1980, p.107-110, 175-178, rus) **35-2826**
Pulsating glaciers of the Gissar-Alay Mountains (1980, p.81-100, rus) **35-718**
Shchetnikov, A.I.
Geochemical conditions of landscapes and environmental protection in the Baykal Amur railroad area (1980, p.84-89, rus) **35-3477**
Landscape-geochemical regionalization of the Baykal Amur railroad zone (1980, p.3-11, rus) **35-1628**
Shchukin, V.P.
Determining geometric parameters of mining excavations in the Far North for shafts with no headwork (1980, p.143-145, rus) **35-304**
Sheeran, D.E.
Alleviation of detrimental frost heaving of soils by chemical treatment (1979, 150p., eng) **35-4011**
Sheikin, A.E.
Forecasting frost resistance of concrete when selecting its composition (1979, p.25-26, rus) **35-475**
Prolonging the service life of concrete in transport structures (1980, 158p., rus) **35-3524**
Relation between the frost resistance criterion and the real frost resistance of concretes (1981, p.19-20, rus) **35-3002**
Studying the corrosion of steel reinforcement in concretes containing combined admixtures (1980, p.35-44, rus) **35-3528**
Using the frost resistance criterion in forecasting frost resistance of concretes (1980, p.3-17, rus) **35-3525**
Sheinkman, D.R.
Determining deformation properties of ground ice (1973, p.62-67, rus) **35-1603**
Sheinkman, V.S.
Glacial complex "glaciers-naleds-ground ice" (1980, p.97-103, rus) **35-3999**
Sheinman, L.B.
Hydroelectric power plants in the Baykal Amur railroad area (1980, 89p., rus) **35-2688**
Shekhvatov, N.I.
Performance of bulldozers equipped with additional dismountable blades (1980, p.14, rus) **35-478**
Sheliubskii, B.V.
Road construction machines and equipment manual (1980, 182p. (Pertinent p.13-17), rus) **35-2684**
Shemdin, O.H.
Inlet current measured with Seasat-1 synthetic aperture radar (1980, p.35-37, eng) **35-3704**
Sheminkin, S.A.
Hydraulic models for studying temperature fields beneath embankments (1980, p.12-15, rus) **35-2779**
Shemraev, G.A.
Accelerated tempo of road construction (1980, p.10-11, rus) **35-1646**
Shen, H.T.
Surface heat loss and frazil ice production in the St. Lawrence River (1980, p.996-1001, eng) **35-4254**
Wintertime flow distribution in river channels (1980, p.805-817, eng) **35-705**
Sheng, W.
Application of simple chemical analysis of natural water in the analysis of ice and snow samples (1980, p.90-91, chi) **35-2681**
Shentsis, I.D.
Evaluating snow and precipitation measurements in mountains according to the accuracy criterion of space interpolation (1980, p.103-112, rus) **35-3581**
Information content of snow cover data used in forecasting mountain river runoff in Central Asia (1980, p.3-12, rus) **35-3570**
Shepelev, V.V.
Interrelationship between surface and ground water in the permafrost zone (1980, 146p., rus) **35-3988**
Role of condensation processes in ground water alimentation in permafrost areas (1980, p.43-56, rus) **35-3994**
Sheremet'ev, A.N.
Use of radio-echo measurements in determining the thickness and velocity of an antarctic ice sheet (1979, p.60-74, eng) **35-2886**
Sheremetevskaia, O.I.
Physico-statistical method of long-range background forecasting of ice appearance on seas of the European USSR (1978, p.83-91, rus) **35-1000**
Space correlation of the dates of ice appearance on seas of the European USSR (1980, p.69-76, rus) **35-3000**
Sheridan, M.F.
Early Miocene subglacial basalts, the East Antarctic ice sheet, and uplift of the Transantarctic Mountains (1980, p.757-759, eng) **35-2792**
Sherstov, V.A.
Improving mining techniques in coal and placer mines of the North (1979, p.106-108, rus) **35-200**
Improving the stability of excavations in placer shafts of the North (1980, 56p., rus) **35-1283**
Shesler, A.I.
Climatic subdivision of southeastern West Siberia for road construction (1980, p.19-21, rus) **35-481**
Using dispersion analysis for forecasting climatic effects on the spring moisture content of roadbeds (1977, p.95-103, rus) **35-75**
Shevaldina, T.I.
Results of field experiments on modification of supercooled fog (1980, p.3-11, rus) **35-2693**
Shevchenko, L.A.
Using space information in swamp protection and melioration (1980, p.159-167, rus) **35-1447**
Shi, Y.
Changes of Batura Glacier in the Quaternary and recent times (1980, p.173-190, chi) **35-4038**
Forecasting the change of Batura Glacier this and next centuries (1980, p.191-207, chi) **35-4039**
Introduction of the glaciological study on Batura Glacier in the Karakoram Mountains (1980, p.1-7, chi) **35-4026**
Migrating subglacial channel of Batura Glacier and the tendency of the new channel (1980, p.153-165, chi) **35-4036**
On the buried ice near the highway bridge at the Batura Glacier terminus (1980, p.166-172, chi) **35-4037**
Shichiri, T.
Effect of electric currents on the nucleation of ice crystals in the melt (1981, p.207-210, eng) **35-3850**
Shih, Y.
Historical Mu-chia-erh-te Glacier valley and east-west communication (1979, p.22-26, chi) **35-2898**
Progress of Chinese research work on glaciers and frozen ground in the last 30 years (1979, p.1-6, chi) **35-2895**
Shikin, V.K.
Seagoing passenger sidewall hovercraft "Chaika" (1980, p.5-7, rus) **35-317**
Shilina, L.I.
Peculiarities of ice breakup on Far East rivers and its short range forecasting (1980, p.63-68, rus) **35-2877**
Shillington, E.I.
Dawson City water and sewerage program: an overview (1981, p.544-554, eng) **35-2523**
Shil'nikov, V.I.
Aerial ice surveying for navigation (1981, p.5-13, rus) **35-3934**
Allowing for wind characteristics when turning around aircraft (1981, p.25-31, rus) **35-3938**
Barrage technique of leading ships through sea ice (1981, p.32-37, rus) **35-3939**
Methods of avoiding discrepancies in plotting courses for aerial ice surveys (1981, p.22-24, rus) **35-3937**
Shilova, G.N.
Shamanovsk reference section of Late Pleistocene and Holocene deposits of the Indigirka area (1980, p.74-81, rus) **35-2454**
Shilts, W.W.
Glacial dispersion of uranium in the District of Keewatin, Canada (1977, p.80-88, eng) **35-2727**
Shimizu, H.
Physical properties of the snow cover on Mt. Tateyama in Central Honshu, Japan (1976, p.157-164, jap) **35-257**
Study on high-speed avalanches in the Kurobe Canyon, Japan (1980, p.141-151, eng) **35-2357**
Shin, R.
Theoretical models for microwave snow response and applications to remote sensing (1980, p.147-167, eng) **35-1741**
Shinde, S.B.
Low frequency methods for measuring sea ice thickness (1980, p.313-330, eng) **35-557**
Shio, H.
Crystallographic orientation of fractured plane about fresh snow particles (1979, p.157-164, eng) **35-519**
Shiotsuki, Y.
Method for numerical forecast of the distribution of snowfall in the Ishikari Plain (1978, p.46-66, eng) **35-573**
Shiraishi, K.
Activities of Japanese Party in McMurdo Sound area during the 1978-79 field season (1980, p.137-148, jap) **35-1055**
Shirokov, A.P.
Rock pressure in main and preparatory shafts (1977, 170p., rus) **35-68**
Shirokov, V.M.
Changes in natural conditions of West Siberia after diverting part of the stream flow to Central Asia (1980, p.22-30, rus) **35-1332**
Shirokova, M.R.
Problems of rating protective and preventive forest strips in the eastern part of the Baykal Amur railroad area (1979, p.11-26, rus) **35-1520**
Shirvaikar, V.V.
Snowmelt run off estimate from the Beas catchment in the Himalayas using energy balance techniques (1978, p.183-192, eng) **35-32**
Shishkina, L.P.
Gullies in permafrost areas (1980, p.22-24, rus) **35-1288**
Shishliannikov, V.IU.
Stresses on propelling mechanisms of universal excavators in frozen ground (1979, p.13-14, rus) **35-2619**
Shitikov, M.A.
Quick method of roadbed construction on narrow steep-sloping sections of the Baykal Amur railroad (1981, p.3-4, rus) **35-2842**
Shiue, J.C.
Comparative study of microwave radiometer observations over snowfields with radiative transfer model calculations (1980, p.215-229, eng) **35-3855**
Remote sensing of snow properties by passive microwave radiometry: GSFC truck experiment (1980, p.169-185, eng) **35-1742**
Shkarin, V.P.
Promising methods of controlling temperature of concrete (1980, p.19-22, rus) **35-602**
Shkarupa, A.G.
Micromycete fungi of northeastern Yakutia, Pt.1 (1980, p.105-123, rus) **35-289**
Shkliarov, N.D.
Multi-story stone buildings in the North (1980, 153p., rus) **35-2882**
Shkurko, A.M.
Drilling experiments with drilling fluids (1980, p.119-123, rus) **35-2045**
Mechanized water preparation at Vostok (1980, p.124-127, rus) **35-2046**
Shkurko, B.F.
Determining the coefficient of nonstationary heat transfer (1981, p.46-47, rus) **35-2083**
Shkuta, A.F.
Lightning protection in electrical installations of northern gas fields (1980, p.33-36, rus) **35-628**
Reliability of electrical equipment under northern conditions (1980, p.25, rus) **35-3011**
Shliakov, R.N.
Biologic-floristic studies related to environmental protection in polar regions (1980, 149p., rus) **35-3062**
Shliakova, E.V.
Biology and distribution of chickweed (*Stellaria media* (L.) Vill.) (1980, p.117-131, rus) **35-3074**
Shlotgauer, S.D.
Rare plants in the eastern Baykal Amur railroad area and their protection (1979, p.3-10, rus) **35-1519**
Shmideberg, N.A.
Specific features in the formation of chemical composition of natural waters in East Antarctica (1980, p.166-171, rus) **35-1251**
Shmidt, V.I.
Using bored situ-cast piles in bridge piers and foundations (1980, p.7-9, rus) **35-1526**
Shmotov, A.P.
Some problems of engineering seismology in the central part of the Udokan Range (1980, p.191-197, rus) **35-143**
Shoji, H.
Did ice streams carve martian outflow channels (1981, p.759-763, eng) **35-3363**
Shomesov, M.E.
Thermal regime of open pumps in the North (1981, p.7-10, rus) **35-3340**
Shonin, O.B.
Experimental study of frozen rock strength in superhigh frequency electromagnetic fields (1980, p.47-51, rus) **35-636**
Shor, A.D.
New design of excavators and bulldozers (1980, p.25-27, rus) **35-626**

Short, S.K.
Late Holocene and present-day vegetation, Prudhoe Bay and Atigun River, Alaskan arctic slope [1981, p.153-172, eng] **35-4089**
Radiocarbon date list 1, Labrador and northern Quebec, Canada [1981, 33p., eng] **35-3681**
Shotskii, V.P.
Route of the Baykal Amur railroad and some problems for further study [1975, p.3-12, rus] **35-791**
Shpak, D.N.
New method of foundation design for petroleum industry objects in West Siberia [1981, p.23-25, rus] **35-4246**
Shparber, P.A.
Artificial freezing used in shaft sinking at the IAkovlevskiy mine [1980, p.41-44, rus] **35-868**
Number of boreholes required in artificial freezing of ground at greater depths [1980, p.26-27, rus] **35-326**
Shpilevoi, V.A.
Electrification of oil and gas industry in West Siberia [1980, 182p., rus] **35-2687**
Shpiller, E.D.
Construction under severe climatic conditions [1981, p.54-55, rus] **35-2091**
Shpin', P.S.
Glaciation of the Kuznetskiy Alatau [1980, 84p., rus] **35-307**
Shpolianskaia, N.A.
Forecasting changes in permafrost conditions of northwestern Siberia due to decrease in Ob' River discharge [1980, p.118-119, rus] **35-3128**
Shrestha, M.L.
Observation of snow particles at Hidden Valley, Mukut Himal [1978, p.42-44, eng] **35-54**
Shtan'ko, A.E.
Frost weathering of cellular concrete [1980, p.41-42, rus] **35-1654**
Shtan'ko, A.V.
Introduced plant adaptation in the North [1977, 176p., rus] **35-2690**
Shtykov, V.I.
Design and operation of subsurface drainage in soil freezing zones [1980, p.53-56, rus] **35-1638**
Phase composition of water in frozen soils and their supercooling and freezing temperatures [1980, p.105-107, rus] **35-2288**
Shtyrev, I.N.
Effectiveness of road facilities in Yakutia [1978, p.112-114, rus] **35-4116**
Shubert, A.A.
Recommendations concerning urban construction norms for microregions of the Central Ob' River area [1981, p.58-62, rus] **35-3457**
Shubin, V.I.
Mycorhiza fungi and mycorhizae of forest-forming species in the North [1980, 185p., rus] **35-3054**
Shugalei, L.S.
Changes in thermal regime of soils induced by tree cultivation [1980, p.129-131, rus] **35-2296**
Shugalei, R.T.
Injection grouts for cementing low temperature bases of hydraulic structures [1980, p.63-64, rus] **35-597**
Shukhobodskii, A.B.
Minimum summer-fall discharge of rivers in the western part of the Baykal Amur railroad zone [1980, p.44-53, rus] **35-1794**
Shul'gin, E.M.
Remote sensing of soil moisture with microwave radiometry [1977, p.66-76, rus] **35-901**
Shul'gina, G.G.
Influence of low soil temperature on hormonal metabolism of common pine [1980, p.70-74, rus] **35-958**
Shumskov, B.B.
Peculiarities of land reclamation in Siberia and the Far East [1980, p.89-96, rus] **35-3056**
Shumilov, IU.V.
Physiography and recent geological processes in the northeastern USSR [1976, p.46-54, rus] **35-3829**
Shumilov, L.D.
Design and construction of roads in the northern zone of shifting sands [1980, p.22, rus] **35-2638**
Shumskii, P.A.
Age of ice in drill holes at Vostok and Vostok-1 [1980, p.41-48, rus] **35-2030**
Borehole compression in antarctic ice cover [1980, p.54-58, rus] **35-2032**
Two-step multidimensional regression analysis and prediction of ablation rate on glacier surfaces [1980, p.92-98, rus] **35-1234**
Variation in ice sheet thickness at Vostok and Vostok-1 [1980, p.49-53, rus] **35-2031**
Shuplik, M.N.
Studying artificial freezing parameters for driving horizontal workings [1980, 248p., rus] **35-384**
Shusherina, E.P.
Microstructure of frozen clay rocks when cooled from -5 to -50 C (according to the electron microscopy data) [1975, p.84-86, eng] **35-2404**
Shvarev, I.M.
Weather and flights of airplanes and helicopters [1980, 280p., rus] **35-1362**
Shvareva, IU.N.
Peculiarities of west Siberian climate under different weather conditions in anomalous years [1981, p.82-92, rus] **35-3971**
Persistence of winters in plains of the Soviet Union [1981, p.24-44, rus] **35-3968**
Shvarts, M.A.
Evaluating seismic stability of bridges allowing for interaction between temporary loads, bridge spans and piers at longitudinal seismic oscillations [1980, p.27-40, rus] **35-145**
Shvetsova, T.G.
Persistence of winters in plains of the Soviet Union [1981, p.24-44, rus] **35-3968**
Shver, Ts.A.
Atmospheric precipitation [1980, p.24-25, rus] **35-2807**
Shvets, I.T.
Dynamics of thermal processes [1980, 180p., rus] **35-2334**
Shvidko, IA.I.
Repairing concrete pavements with polymer concrete at low temperatures [1980, p.25-26, rus] **35-941**
Siegenthaler, H.
Dynamics and structure of Griesgletscher, Switzerland [1980, p.215-228, eng] **35-1818**
Sigel, D.I.
Effect of snowmelt on the quality of Filson Creek and Omaday Lake, northeastern Minnesota [1980, p.238-242, eng] **35-2797**
Sikonia, G.
Ice and water balances, South Cascade glacier, 1975-1977 [1980, p.143-147, rus] **35-1246**
Sil'nitskii, V.I.
Controlling stresses in concrete dams with columnar joints during the concrete placing process [1981, p.5-8, rus] **35-4227**
Silvestre, P.
Effects of winter salting on the natural environment [1981, p.41-52, fre] **35-4006**
Sil'vestrov, A.V.
Design values of subzero temperatures for manufacturing, installation and operation of steel structures [1980, p.12-15, rus] **35-1363**
Increasing steel structure stability at low temperatures [1980, p.3-8, rus] **35-1085**
Influence of former loading on frost resistance of butt-welded joints [1981, p.24-26, rus] **35-3338**
Simmonds, I.
Effect of sea ice on a general circulation model of the Southern Hemisphere [1981, p.193-206, eng] **35-3030**
Simonenko, V.S.
Using synthetic textile materials in the construction of roads and foundations in cluster-drilling areas of western Siberia [1980, p.4-7, rus] **35-2777**
Simonov, A.
Winter operation of motor vehicles [1980, p.69-71, rus] **35-970**
Simpkins, P.G.
Convection in a porous layer for a temperature dependent viscosity [1981, p.497-506, eng] **35-3519**
Simpson, H.C.
C-axes growth rate of ice crystals [1976, p.219-230, eng] **35-4294**
Sindre, A.
Geological, geophysical and geochemical investigations of the molybdenum-copper deposit at Langvatn, Setesdalsheiene, south-central Norway [1975, p.32-40, eng] **35-2736**
Sindre, E.
Late Weichselian ice front oscillations in the Hardanger-Sunnhordland District, West Norway [1980, 16p., eng] **35-3407**
Singh, R.
Linear distributed model for a partly snowbound catchment [1979, p.167-177, eng] **35-1125**
Sitnikova, M.V.
Studying snow cover dynamics and evaluating mean discharge of the Amudar'ya River during the vegetation period from satellite photographs [1980, p.30-34, rus] **35-2971**
Sittig, M.
Petroleum transportation and production; oil spill and pollution control [1978, 360p. (pertinent p.307-310), eng] **35-1116**
Sivaprasad, K.
Reflections of pulses from polar ice sheets [1979, p.96-97, eng] **35-668**
Report of radio echo sounding of ice workshop, Durham, N.H., 1978 [1978, 15p. + Append., eng] **35-1915**
Research workshop on radio echo sounding of ice [1979, p.98, eng] **35-669**
Sizikov, A.I.
Geomorphology and neotectonics of mountain areas in the Far East [1977, 132p., rus] **35-57**
Sizikov, S.A.
Assembly for heating and drying concrete aggregates in a vibro-fluidized layer [1980, p.27, rus] **35-3001**
Skachkov, IU.B.
Observing evaporation from the thermokarst lake Syrdakh [1980, p.36-38, rus] **35-3311**
Skartveit, A.
Energy exchange at the earth's surface with emphasis on an alpine tundra ecosystem [1976, 147p., eng] **35-3522**
Skavronskaia, A.B.
Porous fiberglass insulation used in modular construction [1981, p.17-19, rus] **35-2079**
Skitkina, A.A.
Biologic peculiarities of seed germination in some plants growing on Kola Peninsula [1980, p.3-9, rus] **35-3063**
Skoblin, G.A.
Thermal and filtration regimes of the Ust'-Khantai river-bed earth dam during first operation years of the hydroelectric power plant [1980, p.52-55, rus] **35-8**
Skogland, T.
Unguiates on arctic ranges [1981, p.397-483, eng] **35-3387**
Skorobogatov, V.A.
Peculiarities of developing oil and gas deposits in West Siberia [1980, p.70-71, rus] **35-1610**
Skou, N.
Airborne multifrequency radiometry of sea ice [1980, 198p., eng] **35-4247**
Skriabin, P.N.
Heat conductivity of washed up sandy ground [1980, p.63-68, rus] **35-3317**
Hydrothermal regime of soils during biologic recultivation of landscapes affected by industrial development [1980, p.23-31, rus] **35-3309**
Radiation regime of disturbed tundra surfaces during biologic recultivation [1980, p.32-36, rus] **35-2187**
Variations of heat transfer between soil and atmosphere induced by engineering activities in tundra regions [1981, 12p., eng] **35-826**
Vegetation effect on hydrothermal regime of tundra soils in the northern Yenisey River area [1981, p.82-86, rus] **35-2769**
Skriabin, S.Z.
Vegetation effect on hydrothermal regime of tundra soils in the northern Yenisey River area [1981, p.82-86, rus] **35-2769**
Skripnichenko, I.I.
Peculiarities in the behavior of some chemical elements in forest-steppe soils subject to long seasonal freezing, in West Siberia [1980, p.65-66, rus] **35-2272**
Skrybykin, A.N.
Evaluating the effectiveness of modern technical equipment in the North [1978, p.24-31, rus] **35-4111**
Skryl'nik, G.P.
Changes in prevailing types of topographic development processes, proceeding inland from the coastal area in the northern taiga zone [1976, p.81-85, rus] **35-1854**
Climate and topography of Wrangel Island [1976, p.20-43, rus] **35-1851**
Cryosphere development and the formation of exogenic relief [1977, p.15-20, rus] **35-58**
Rock stream formation and general trends in the development of topography in the Far East [1977, p.86-88, rus] **35-59**
Similarities and differences in general and particular morpholithogenic processes under monsoon and continental climates [1976, p.124-138, rus] **35-1857**
Studying global factors of climato-morphogenetic phenomena of the Far East [1979, 163p., rus] **35-3045**
Skuba, V.N.
Characteristics of mining excavations in permafrost areas [1979, p.105-106, rus] **35-199**
Improving the stability of excavations in placer shafts of the North [1980, 56p., rus] **35-1283**
Performance of combined timber under different permafrost conditions [1977, p.125-127, rus] **35-69**
Skvortsova, I.N.
Psychrophilic bacteria of sod-podsolic soils [1974, p.68-70, rus] **35-1207**
Slatt, R.M.
Petrology of glacial sand: implications for the origin and mechanical durability of lithic fragments [1981, p.171-183, eng] **35-4023**
Slaughter, C.W.
Hydrologic role of shallow organic soils in cold climates [1979, p.380-389, eng] **35-424**
Slaughter, R.
Quality of sewage lagoon discharges during winter and impact on stream water quality and biota [1979, p.547-558, eng] **35-433**
Slavin, V.I.
Geothermal conditions of sedimentary mantle in the Siberian Platform [1980, p.5-13, rus] **35-1570**
Slaymaker, O.
Rates of operation of geomorphological processes in the Canadian Cordillera [1974, p.319-332, eng] **35-1950**
Slepcevich, C.M.
Exchange crystallization freeze desalination process [1976, p.231-240, eng] **35-4295**
Sleptsov, A.E.
Determining loads on timber after first stages of hanging-wall collapse in permafrost areas [1980, p.101-103, rus] **35-634**
Sletten, R.S.
Energy and costs for agricultural reuse of wastewater [1980, p.339-346, eng] **35-2572**

Sloan, C.E.
Reconnaissance snow survey of the National Petroleum Reserve in Alaska, April-May 1979 (1980, 13p., eng) 35-991

Sloboda, A.V.
Annual consumption and return of chemical elements by the biomass of green-moss spruce forest in the central taiga of Komi ASSR (1971, p.62-63, rus) 35-2612
Biological cycle of chemical elements in taiga spruce forests (1974, p.9-14, rus) 35-1925
Differentiation within horizons and along the profile of a superficially gleyey loam in the low shrub tundra (1980, p.29-40, rus) 35-2762
Obtaining properties of humus substances by the paper chromatography and horizontal electrophoresis techniques (1974, p.50-57, rus) 35-692

Slyn'ko, V.S.
Superpower turbines for Siberia and the Far East (1980, 135p., rus) 35-2447

Smagin, V.N.
Basic regularities governing the development and succession of forest biogeocenoses (1980, p.6-28, rus) 35-2475
Dynamics of forest biogeocenoses in Siberia (1980, 208p., rus) 35-2474
Theory and application of the concept of ecogenesis of forest biogeocenoses (1980, p.201-205, rus) 35-2484

Smallwood, M.D.
Snow hydrology studies using data from the Heat Capacity Mapping Mission (1981, p.1211-1217, eng) 35-3594

Smiley, V.N.
Lidar measurements in Antarctica (1980, p.188-190, eng) 35-3194

Smirnov, IU.V.
Modernized tower crane KB-403A (1980, p.10-11, rus) 35-389

Smirnov, K.E.
Isotope and chemical composition of snow cover in East Antarctica (Studies along the Mirnyy-Vostok profile) (1980, p.36-48, rus) 35-1224

Smirnov L.V.
Construction of the Baykal Amur railroad (1980, p.44-47, rus) 35-610
Exhibition: Foundation construction in the USSR (1980, p.42-45, rus) 35-608
Modern methods of road construction (1980, p.45-47, rus) 35-609

Smirnov, O.A.
Hydraulic truck-mounted crane KS-2572 (1980, p.6-7, rus) 35-538
Truck-mounted hydraulic crane KS-3572 (1980, p.9-10, rus) 35-388

Smirnov, S.A.
On the problem of techniques for measuring soil surface temperature (1972, 11p., eng) 35-247

Smirnov, V.N.
Slow waves at the surface of the Arctic Ocean (1980, p.1466-1468, rus) 35-1387

Smirnov, V.V.
Effect of the method of controlling the main propulsion plant on the reversing of icebreaker propulsion motors (1980, p.31-32, rus) 35-921

Smith, D.W.
Evaluation of alternative water bleeder controls (1981, p.555-569, eng) 35-2524
Mixing and microorganism survival in the Slave River, N.W.T. (1981, p.449-470, eng) 35-2518
Wastewater treatment for cold regions (1980, 21p., eng) 35-2712

Smith, G.W.
Kennebunk glacial advance: a reappraisal (1981, p.250-253, eng) 35-3605

Smith, I.N.
Derivation of past climate changes from observed changes of glaciers (1981, p.31-52, eng) 35-3020
Growth and retreat of ice sheets in response to orbital radiation changes (1981, p.369-409, eng) 35-3040

Smith, J.L.
Snow electromagnetic measurements (1980, p.93-117, eng) 35-1738

Smith, M.W.
Investigation of frozen soils using Time Domain Reflectometry (1980, 59p., eng) 35-1878
Use of time domain reflectometry for the measurement of unfrozen water content in frozen soils (1980, p.205-210, eng) 35-736

Smith, N.D.
Effect of changing sediment supply on sedimentation in a glacier-fed lake (1981, p.75-82, eng) 35-4085

Smith, P.A.
Offshore permafrost studies and shoreline history as an aid to predicting offshore permafrost conditions (1981, p.159-255, eng) 35-3257
Offshore permafrost studies and shoreline history of Chukchi and Beaufort Seas as an aid to predicting offshore permafrost conditions (1980, p.123-129, eng) 35-1155

Smith, P.N.
Lake Melville ice research (1980, p.398-410, eng) 35-3102

Smolonogov, E.P.
Age and restoration dynamics of forests in the Ural Mountains and east of the Urals (1976, 168p., rus) 35-1916
Genetic classification of forests on the northern macroslope of the eastern Tannu-Ola (Tuva ASSR) (1976, p.3-91, rus) 35-1917
Space dynamics of the Siberian cedar in taiga forests of the northern Ural Mountains and the West Siberian Plain (1976, p.92-103, rus) 35-1918

Smorodinov, M.I.
Hydraulic method of breaking up frozen soil (1981, p.35-38, eng) 35-4153
Wall-in-the ground method of building foundations and structures (1976, 129p., rus) 35-1718

Smorygin, G.I.
Forecasting thermal regime of frozen rocks beneath natural and artificial covers (1980, 189p., rus) 35-3223

Snegirev, A.M.
Gas transfer between permafrost and the atmosphere in the watershed area of the Vilyuy River (1980, p.83-90, rus) 35-3320

Snishchenko, D.V.
Evaluating riverbed processes in the Baykal Amur railroad area using aerial photographs (1980, p.100-107, rus) 35-2980

Snow removal service for a medium-sized lowland city; experiences of the Modena Public Enterprise of Urban Hygiene
Snow removal service for a medium-sized lowland city: experiences of the Modena Public Enterprise of Urban Hygiene (1981, p.23-32, ita) 35-3511

Snow water content measured by airplane
Snow water content measured by airplane (1980, p.497-498, eng) 35-895

Snowplows DE-223 and DE-225
Snowplows DE-223 and DE-225 (1981, p.25, rus) 35-2849

Snytkin, G.V.
Reserves of combustible materials in the litter, vegetational cover and stand of young larch forests on the Okhotsk shores and in the upper course of the Kolyma River (1971, p.83-93, rus) 35-1394

Snytko, V.A.
Dynamics of geochemical indices of cryogenic arid steppe soils (1980, p.78-79, rus) 35-2278
Landscape-geochemical regionalization of the Baykal Amur railroad zone (1980, p.3-11, rus) 35-1628
Studying soil and geochemical regimes of forest geosystems in the West Sayan foothills (1975, p.44-54, rus) 35-794
Studying soil geography and landscape geochemistry in the Baykal Amur railroad zone (1980, 184p., rus) 35-1627

Sobaski, S.T.
Distribution, abundance, and foraging patterns of ground squirrels near Atkasook, Alaska (1980, p.501-510, eng) 35-3202

Sobchenko, M.S.
Allowing for organization-technologic factors when building settlements for transport construction workers (1981, p.16-17, rus) 35-2078

Sobol', S.V.
Calculating temperature regime of concrete hydraulic structures during operation periods (1980, p.109-111, rus) 35-2104

Sobolev, A.S.
Setting of cement pastes at positive and subzero temperatures, according to PMR data (1979, p.275-279, eng) 35-1779

Sobolev, V.G.
Ductless hot-water pipelines in the North (1981, p.126-129, rus) 35-2790

Sobolev, V.V.
Yamal Peninsula (1981, p.84-91, rus) 35-4072

Soboleva, T.K.
Natural revegetation in Valday spruce forests (1979, p.158-175, rus) 35-4122

Sochanska, W.
Comparison of snow cover retreat calculated by the CEQUEAU hydrologic model to that estimated with the help of ESSA-8 satellite imagery (1979, p.424-448, fre) 35-428

Sochava, V.B.
Geographic aspects of Siberian taiga (1980, 256p., rus) 35-2951
Geographical problems of Soviet Subarctic (1972, p.3-20, rus) 35-759
Route of the Baykal Amur railroad and some problems for further study (1975, p.3-12, rus) 35-791

Söderman, G.
Slope processes in cold environment of northern Finland (1980, p.83-152, eng) 35-2105

Sodhi, D.S.
Nonsteady ice drift in the Strait of Belle Isle (1980, p.177-186, eng) 35-2168
Prediction of an iceberg drift trajectory during a storm (1980, p.77-82, eng) 35-2210
Review of buckling analyses of ice sheets (1980, p.131-146, eng) 35-511

Sohio plans busy winter in Beaufort
Sohio plans busy winter in Beaufort (1980, p.30-31, eng) 35-1133

Sokolov, A.A.
Redistribution of water resources among river basins and its effect on natural conditions and the national economy (1980, 164p., rus) 35-1427

Sokolov, B.L.
Influence of hydrometeorological factors on the formation of ground water naleds (1980, p.74-90, rus) 35-1797

Sokolov-Baikov, O.V.
Heat pipelines at the Baykal Amur railroad (1980, p.22, rus) 35-1528

Sokolov, D.P.
Evaluating the magnitude of diurnal regulation of glacial runoff (1980, p.120-126, rus) 35-722

Sokolov, G.I.
Digging-wheel excavator ETR-254 for trenching (1980, p.4-6, rus) 35-2621

Sokolov, I.A.
Basic geographic regularities governing soil formation in the northern Ural and central Timan mountains (1980, p.30-31, rus) 35-2262
Concepts, terminology and problems in the classification of freezing soils (1980, p.9-10, rus) 35-2253
Nongley hydromorphic soil formation (1980, p.17-28, eng) 35-2761
Pale yellow soils of northern taiga in East Siberia and the Far East (1980, p.30-37, rus) 35-534
Soils of the North: concepts of ecology, origin, geography classification and nomenclature (1980, p.11-13, rus) 35-2254
Variety of forms of nongley hydromorphic soil formation (1980, p.41-55, eng) 35-2763

Sokolov, S.M.
Building industrial pipelines in western Siberia (1980, p.2-4, rus) 35-2776
Performance of industrial pipelines in frozen grounds (1980, p.8-12, rus) 35-2778
Using design schemes of pipelines built on elastic foundations in western Siberia (1980, p.21-23, rus) 35-2782

Sokolova, V.V.
Role of cryogenesis in the formation of mountain and lowland soils in the eastern part of the Baykal Amur railroad zone (1980, p.51-53, rus) 35-2268

Sokolovich, V.E.
Chemical stabilization of soils (1980, 119p., rus) 35-2952

Solntseva, N.P.
Resistance of forest soils to changes induced by oil recovery (1981, p.50-58, rus) 35-4278

Solomatin, V.I.
Buried glacier ice in the north of West Siberia (1921, p.66-77, rus) 35-1422
New data on the structure and growth mechanism of epigenetic ice wedges (1979, p.157-162, rus) 35-1836
Zonal climatic structure of frozen ground (1981, p.39-44, rus) 35-3458

Solomennik, S.F.
Forecasting seasonal freezing depth of soils in areas affected by seepage-type water intakes (1980, p.150-151, rus) 35-2302

Solomonov, S.A.
Percussion-teeth shovel for frozen ground (1981, p.24-26, rus) 35-2846
Studying frozen ground excavation with disc-cutter excavators (1980, p.24-26, rus) 35-540

Solonenko, V.P.
Unique engineering-seismological experiment in the Baykal Amur railroad zone (1980, p.129-143, rus) 35-1350

Solopov, A.V.
Oases in Antarctica (1969, 146p., eng) 35-898

Solov'ev, A.D.
Ice nuclei concentrations measured from helicopters (1980, p.133-137, rus) 35-26
SALIA-1 cloud chamber designed by the Central Aerological Observatory for airborne measurements of ice nuclei concentration (1980, p.123-127, rus) 35-24

Solov'ev, G.P.
Effectiveness and efficiency of hydraulic construction in the central part of the Baykal Amur railroad area (1981, p.9-11, rus) 35-2077

Solov'ev, P.A.
Evolution of the Lake Saysar basin topography in Yakutsk caused by human activities (1980, p.127-134, rus) 35-2194
Experience in subdividing the area of Yakutsk according to frost heave intensity and seasonal thaw depth for practical purposes (1980, p.60-63, rus) 35-3316

Solov'eva, M.P.
Models of thermal interaction between linear sources of cold and surrounding media in the North (1979, p.34-39, rus) 35-4057

Some aids for solving winter weather problems
Some aids for solving winter weather problems (1980, p.15-25, eng) 35-2560

Somerville, D.A.
Hot-water drilling and coring at site J-9, Ross Ice Shelf (1979, p.60-61, eng) 35-649

Somma, F.
Temperature coefficient of the refractive index of H2O and D2O and proposed models of water structure (1980, p.1171-1177, eng) 35-1691

Sommerfeld, R.A.
Acoustic emissions from unstable snow slopes (1980, p.319-329, eng) **35-3141**
Statistical models of snow strength (1980, p.217-223, eng) **35-2364**
Sommerhoff, G.
Topographic control of the polar front off southern Greenland (1979, p.63-69, ger) **35-2645**
Somova, V.I.
Using space information in swamp protection and melioration (1980, p.159-167, rus) **35-1447**
Sonesson, M.
Area-harvesting as a method of estimating phytomass changes in a tundra mire (1980, p.127-137, eng) **35-1477**
Ecology of subarctic mire (1980, 313p., eng) **35-1470**
Growth of *Sphagnum riparium* Angstr. in relation to some environmental factors in the Stordalen mire (1980, p.191-207, eng) **35-1481**
IBP PT Tundra Biome Project. Objectives, planning, site (1980, p.7-25, eng) **35-1471**
Plant communities of the Stordalen mire. A comparison between numerical and non-numerical classification methods (1980, p.113-125, eng) **35-1476**
Plant distribution and environment of a subarctic mire (1980, p.97-111, eng) **35-1475**
Sopina, E.P.
Soil disturbance in the Nadym-Pur interfluve area due to the construction of linear structures (1980, p.190-191, rus) **35-2314**
Soils of the lower Ob' forest tundra near the Urengoy deposit (1980, p.12-19, rus) **35-533**
Sopoeva, A.S.
Palynologic substantiation of vicissitude of glaciation of Zyryan, southern Verkhoyansk (1980, p.173-176, rus) **35-3335**
Sorimachi, Y.
Simple snowfall detector employing infrared rays reflection (1981, p.77-82, jap) **35-4266**
Sorokin, N.D.
Effect of maintenance felling on biologic activity of cryogenic taiga soils in the Angara River area (1980, p.143-144, rus) **35-2301**
Structural and dynamic peculiarities of microbe cenoses formation in forest soils of the Angara River area (1980, p.113-130, rus) **35-2482**
Sorokina, L.P.
Climatic conditions and microclimate of taiga geosystems in Siberia (1980, 232p., rus) **35-2485**
Complex distribution of diurnal variations of air temperature and wind velocity in Siberia and the Far East in winter (1980, p.41-51, rus) **35-3415**
Distribution and statistical characteristics of diurnal air temperature variations on the West Siberian Plain in winter (1971, p.29-38, rus) **35-757**
Diurnal variations of air temperature over the West Siberian Plain during winter (1980, p.110-143, rus) **35-2489**
Space-time structure of diurnal air temperature variations in the Angara-Yenisey area (1980, p.51-59, rus) **35-3416**
Sorokina, N.G.
Ice melting in solutions of potassium salts (1980, p.11-13, rus) **35-632**
Sorokina, O.A.
Seasonal variations of soil properties in pine forests of different age (1972, p.190-195, rus) **35-1378**
Soromotina, O.V.
Peculiarities of west Siberian climate under different weather conditions in anomalous years (1981, p.82-92, rus) **35-3971**
Sosedov, I.S.
Water resources of mountains (1980, p.50-65, rus) **35-1438**
Sosedova, A.L.
Using the radio-hydroacoustic technique in shallow water areas of the Arctic Basin (1980, p.112-118, rus) **35-380**
Sosnovskii, A.V.
Freezing of artificial rain drops (1980, p.54-59, rus) **35-1226**
Mathematical modelling of ice formation processes in the spray of artificial rain (1980, p.49-54, rus) **35-1225**
Sova, A.A.
Taking care of small northerners (1980, p.32-35, rus) **35-2633**
Sovershaev, V.A.
River diversion effect on shore stability of the Ob' Bay (1980, p.113-117, rus) **35-3127**
Soveshchanie po podzemnym vodam Sibiri i Dal'nego Vostoka, 9th, Petropavlovsk-Kamchatskii, Sept. 1979
Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979. Abstracts of the papers (1979, 211p., rus) **35-245**
Soviets seeking to improve design of Arctic area rigs
Soviets seeking to improve design of Arctic area rigs (1980, p.32, eng) **35-525**
Sparling, A.B.
Stackwall - small log buildings for remote areas (1981, p.333-347, eng) **35-2512**
Sparrow, E.B.
Fate and effects of crude oil spilled on subarctic permafrost terrain in interior Alaska (1980, 67p., eng) **35-2001**
Sparrow, E.M.
Freezing on finned tube for either conduction-controlled or natural-convection-controlled heat transfer (1981, p.273-284, eng) **35-3272**
Transition from natural-convection-controlled freezing to conduction-controlled freezing (1981, p.7-12, eng) **35-2146**
Sparrow, S.D.
Effects of off-road vehicle traffic on soils and vegetation in the Denali Highway region of Alaska (1978, p.20-27, eng) **35-1162**
Spatt, P.D.
Growth conditions and vitality of *Sphagnum* in a tundra community along the Alaska pipeline haul road (1981, p.48-54, eng) **35-4050**
Specialty Conference on the Northern Community, Seattle, Washington, April 8-10, 1981
Northern community: a search for a quality environment (1981, 786p., eng) **35-2496**
Specialty Conference Water Forum '81, San Francisco, Calif., Aug.10-14, 1981
Proceedings - Volume 2 (1981, p.711-1378, eng) **35-4164**
Spesivtsev, V.I.
Cryogenic structure of eluvium in the Daldyno-Sytykan region (Southwestern Yakutia) (1980, p.167-173, rus) **35-3334**
Spichkin, V.A.
Correlations of ice conditions in the eastern and western part of the Severnaya Zemlya area (1980, p.94-100, rus) **35-3499**
Dependence of ice conditions in the Severnaya Zemlya area on large-scale characteristics of the distribution of atmospheric pressure (1980, p.101-108, rus) **35-3500**
Evaluating the contribution of quasi-periodical components to the variability of hydrometeorological phenomena (1980, p.142-145, rus) **35-3505**
Possibilities of using the "method of superposition of solar activity epochs" in long-range ice condition forecasts for the Arctic seas (1980, p.89-93, rus) **35-3498**
Principal component method of determining mean seasonal characteristics of ice conditions (1980, p.135-141, rus) **35-3504**
Spiriaev, A.V.
Evaluating the magnitude of diurnal regulation of glacial runoff (1980, p.120-126, rus) **35-722**
Spiridonov, A.I.
Uranium and plutonium isotopes in glaciers and waters of the Issyk-Kul' basin (1981, p.198-200, rus) **35-3302**
Spitsyn, I.P.
Forecasting thermal regime variations in the Ob' Bay in relation to the planned first phase of flow diversion (1980, p.84-86, rus) **35-3118**
Splettstoesser, J.F.
Underground technology for offshore hydrocarbon development in Antarctica (1979, p.233-245, eng) **35-173**
Spodobtseva, N.I.
Seasonal dynamics of the above-ground biomass of cotton grass (Eriophorum vaginatum L.) in Taymyr (1980, p.73-84, rus) **35-286**
Spohd, G.
Combatting cold (1980, 10p., eng) **35-993**
Spring, U.
Interglacial water flow: a theory and mathematical models (1980, 197p., ger) **35-3711**
Reply to: a comment on "pressure melting" (1981, p.157, eng) **35-3673**
Viscoelastic constitutive laws for ice (1980, 56p., eng) **35-3076**
Squire, V.A.
Direct measurement of the attenuation of ocean waves by pack ice (1980, p.365-368, eng) **35-1465**
Flexural response of a tabular ice island to ocean swell (1980, p.23-27, eng) **35-2200**
Srivastava, P.K.
Buoyancy effects on heat, mass and momentum transfer during the melting of a horizontal ice sheet above fresh or saline water flowing at laminar Reynolds numbers (1979, 110p., eng) **35-1987**
Srivastava, R.C.
New aspect of the vertical incidence Doppler radar spectrum of ice particle fallspeeds (1980, p.1318-1322, eng) **35-3866**
Srouji, G.A.
Waterworks systems, Yellowknife, Northwest Territories (1980, p.409-425, eng) **35-2131**
St. Arnaud, R.J.
Microband fabric in seasonally frozen soils (1981, p.578-586, eng) **35-4082**
St. Lawrence, W.
Investigation of the acoustic emission and deformation response of finite ice plates (1981, p.123-133, eng) **35-3448**
St. Lawrence, W.F.
Acoustic emission response of snow (1980, p.209-216, eng) **35-2363**
Constitutive relation for the deformation of snow (1981, p.3-14, eng) **35-2414**
St-Onge, D.A.
Aspects of the deglaciation of the Coppermine River region, District of Mackenzie (1981, p.327-331, eng) **35-3089**
Glacial Lake Coppermine, north-central District of Mackenzie, Northwest Territories (1980, p.1310-1315, eng) **35-1267**
Stabnikov, N.V.
Asphalt-polymer concrete linings of hydraulic structures in the North (1980, 176p., rus) **35-1122**
Stachyra, L.J.
Solidification in two-phase flow (1980, p.784-786, eng) **35-1680**
Stafeev, P.F.
Stabilization of earth structure slopes under severe climatic conditions (1980, p.30-32, rus) **35-1637**
Stabilization of slopes in excavations cut in ice-bearing cohesive ground (1980, p.5-6, rus) **35-1139**
Stallabrass, J.R.
Trawler icing, a compilation of work done at N.R.C. (1980, 103p., eng) **35-4222**
Stander, E.
Measurement of finite strain in sea ice by impulse radar techniques (1980, p.127-164, eng) **35-3841**
Stanek, W.
Vegetation types and environmental factors associated with foothills gas pipeline route, Yukon Territory (maps and legend) (1980, 47p., eng) **35-3486**
Staniukovich, K.V.
Altitudinal zonation of mountain vegetation in the USSR (1980, p.74-81, rus) **35-1440**
Stanley, D.W.
Primary producers (1980, p.179-250, eng) **35-1752**
Stanley, H.E.
Interpretation of the unusual behavior of H2O and D2O at low temperatures: tests of percolation model (1980, p.3404-3422, eng) **35-842**
Stanley, H.R.
Ice freeboard determination by satellite altimetry (1980, p.295-304, eng) **35-555**
Stanley, W.D.
Measure of Arctic sea ice characteristics using microwave scatterometry (1979, p.278-280, eng) **35-3707**
Stanovoi, V.V.
Evaluating changes in flow dynamics of the Ob' River estuary waters due to river diversion (1980, p.67-70, rus) **35-3115**
Stapleton, G.
Assessment of SAR for oil pollution surveillance in the ice environment (1979, p.99-123, eng) **35-166**
Staritsyn, D.K.
Conceptual scheme for automatic processing of infrared data from satellites (1980, p.112-118, rus) **35-1347**
Satellite measurements of ocean surface temperature (1980, p.52-61, rus) **35-1345**
Starkov, V.M.
Hydrothermal melioration of swamp soils in the forest-steppe zone of the Chulym River Basin (1977, p.68-80, rus) **35-1294**
Starosolszky, O.
Multilingual ice terminology (1977, 40p., eng) **35-489**
Starostin, L.
Power stations under winter conditions (1980, p.18, rus) **35-349**
Starshinov, S.N.
Controlling stresses in concrete dams with columnar joints during the concrete placing process (1981, p.5-8, rus) **35-4227**
Starshinov, V.A.
Research icebreaker *Otto Schmidt* (1980, p.3-6, rus) **35-2634**
Stavrova, N.I.
Methods of mapping protected botanical objects in non-chernozem areas (1980, p.1192-1202, rus) **35-1534**
Stefanovich, A.N.
First Soviet-built Arctic icebreakers (1980, p.55-58, rus) **35-318**
Steffen, K.
Local snow distribution on Axel Heiberg Island, Canada: an empirical method of extrapolation from snow-course data on White Glacier (1980, p.211-223, eng) **35-2628**
Stehli, F.G.
Ocean basins and margins - Volume 5: The Arctic Ocean (1981, 672p., eng) **35-3431**
Stein, J.
Subarctic snowmelt runoff generation (1981, p.591-601, eng) **35-2526**
Steltner, H.A.R.
Shorebased radar data for navigation of coastal and restricted ice covered areas with specific examples of Bylot Island, N.W.T., Canada (1979, p.83-98, eng) **35-165**
Stenina, T.A.
Biologic activity of some soils in Komi ASSR (1974, p.35-42, rus) **35-690**
Stenstrom, T.-A.
Growth of *Sphagnum riparium* Angstr. in relation to some environmental factors in the Stordalen mire (1980, p.191-207, eng) **35-1481**
Stepanov, A.N.
Land reclamation methods in the Far East (1980, p.247-250, rus) **35-3059**

Stepanov, A.V.
Determination of the thermophysical characteristics of alternatively freezing and thawing dispersed media by the method of solving inverse problems of heat conduction (1981, p 885-589, eng) **35-3817**
Influence of dissolved salts on thermophysical properties of grounds (1979, p 101-105, rus) **35-239**
Stepanov, B.S.
Basic problems in modeling mudflow processes (1980, p 3-9, rus) **35-1799**
Causes of mudflow formation in the Issyk River basin (1980, p 64-67, rus) **35-211**
Experimental studies of ultimate densities of mudflow masses (1980, p 59-63, rus) **35-1808**
Mechanism for sustaining uniform solid component concentration in the mudflow mass (1980, p 13-16, rus) **35-1801**
Mechanism of mudflow formation (1980, p 20-23, rus) **35-205**
Modeling the erosion-shear process (1980, p.31-35, rus) **35-206**
Regimes of morainal lakes and ways of their melioration (1980, p 113-119, rus) **35-215**
Seismic signal device for mudflow danger (1980, p 101-110, rus) **35-1814**
Stepanov, G.N.
Water regime of cereal grasses in Yakutia (1981, 145p., rus) **35-4097**
Stepanov, O.E.
Performance of bulldozer-scrapers depending on the type of tailings (1980, p 8-9, rus) **35-324**
Stepanova, I.V.
Fungi as components of tundra biogeocenoses (1980, p 165-192, rus) **35-1411**
Stepanova, N.A.
Muscl flora (1980, p 140-157, rus) **35-291**
Stepanova, T.S.
"Chemolgan-78" (1980, p 64-71, rus) **35-1809**
Calculating maximum density of mud-stone flows (1980, p 17-26, rus) **35-1802**
Using gamma radiation in non-contact measurements of mudflow densities (1980, p 136-140, rus) **35-217**
Stephens, C.A.
Break-up dates for the Yukon River; Pt 1 Rampart to Whitehorse, 1896-1978 (1979, c50 leaves, eng) **35-133**
Break-up dates for the Yukon River; Pt 2 Alakanuk to Tanana, 1883-1978 (1979, c50 leaves, eng) **35-134**
Stephens, M.A.
Simple ice phase parametrization (1979, 122p., eng) **35-1899**
Stephenson, A.
British polar exploration 10 years before and after World War II a comparison (1981, p 317-328, eng) **35-2073**
Steppuhn, H.
Estimating the areal snow water equivalent in the prairie environment (1979, p 302-322, eng) **35-419**
Snow and agriculture (1981, p 60-125, eng) **35-3748**
Snow management for crop production on the Canadian prairies (1980, p 50-61, eng) **35-2226**
Sternzat, S.M.
Methods of remote measurements of air temperature and humidity at sea (1980, p 52-56, rus) **35-2639**
Sterrett, K.F.
Unfrozen water contents of submarine permafrost determined by nuclear magnetic resonance (1980, p 400-412, eng) **35-2755**
Stethem, C.
Snow-slab studies at Whistler Mountain, British Columbia, Canada (1980, p 85-91, eng) **35-2350**
Stevens, D.R.
Impact of elk on alpine tundra in Rocky Mountain National Park (1980, p.228-241, eng) **35-593**
Stevens, G.T.
Ice problems on the middle Mississippi River (1981, p 1081-1087, eng) **35-4167**
Stevens, H.W.
Design of foundations in areas of significant frost penetration (1980, p 118-184, eng) **35-1975**
Stich, H.F.
Carcinogenic load of the environment benzo(a)pyrene in sediments of arctic waters (1980, p 807-814, eng) **35-2174**
Stiles, W.E.
Radar observations of snowpacks (1980, p.131-146, eng) **35-1740**
Stiles, W.H.
Circularly polarized measurements of radar backscatter from terrain and snow-covered terrain (1980, 78p + appends., eng) **35-892**
Microwave radiometric observations of snowpacks (1980, p 187-201, eng) **35-1743**
Microwave remote sensing of snowpacks (1980, 404p., eng) **35-2929**
Radar spectral observations of snow (1981, p 654-668, eng) **35-3440**
Stingl, H.
Genesis and development of patterned ground forms (1974, p 249-262, ger) **35-1944**
Stoner, W.A.
Canopy structure and environmental interactions (1979, p 428-453, eng) **35-1784**
Storr, D.
Comparison od daily snowmelt calculated by the U S Corps of Engineers theoretical model with measured amounts on a snowpillow (1979, p 334-345, eng) **35-421**
Strandberg, A.G.
Strain measurements in floating ice platforms and their application to platform design Discussion (1980, p 564-565, fre) **35-837**
Strang, R.M.
Fire and climax spruce forests in central Yukon (1981, p 60-61, eng) **35-4051**
Strauser, C.N.
Ice problems on the middle Mississippi River (1981, p 1081-1087, eng) **35-4167**
Strekalova, I.V.
Problems in developing Alaska and North Canada oil and gas resources, Pt 1 (1979, p 95-101, rus) **35-751**
Strel'chenia, O.M.
Possible complications in providing navigable conditions in the Ob'-Irtysh Basin with partial divergence of these rivers' flow (1980, p 142-143, rus) **35-3135**
Strelkova, A.A.
Migration of water-soluble substances in podsolized sandy and sandy- loam soils (1979, p.3-22, rus) **35-1418**
Recent soil processes and fertility of Karelian soils (1979, 174p., rus) **35-1417**
Stressing military training under winter conditions
Stressing military training under winter conditions (1980, p 2-4, rus) **35-338**
Strickland, N.
Climate and snowcover in Schefferville, Quebec, winter 1978-1979 (1980, p 17-22, eng) **35-36**
Striffler W.D.
Watershed information system (1980, p 14-25, eng) **35-2222**
Stringer, W.J.
Nearshore ice characteristics in the eastern Bering Sea (1980, p 167-187, eng) **35-4139**
Strogal'shchikov, L.A.
Influence of solid phase concentration in drilling mud on mechanical speed of drilling in permafrost (1980, p 27-29, rus) **35-1609**
Strokina, L.A.
Dependence of polar ice albedo on air temperature (1980, p 57-60, rus) **35-1004**
Stross, R.G.
SUNDAY, a simulation model of an arctic Daphnia population (1979, p 349-362, eng) **35-1785**
Zooplankton (1980, p 251-296, eng) **35-1753**
Strothers, R.
Giant solar flares in antarctic ice (1980, p.365, eng) **35-1076**
Stroud, D.
Surface widths of simple liquids and an empirical law of freezing (1981, p 2079-2080, eng) **35-2461**
Struzer, L.R.
Atmospheric precipitation (1980, p 24-25, rus) **35-2807**
Struzeski, E.J.
Water pollution and associated effects from street salting (1975, p.317-340, eng) **35-2569**
Stuart, L.
Soil oxygen flux in an Alaskan tussock tundra (1979, 95p., eng) **35-3766**
Stuckenrath, R.
Multiple glaciations and marine transgressions, western Kennedy Channel, Northwest Territories, Canada (1981, p 71-89, eng) **35-2939**
Studer, W.
Damage to bridge parapets by frost and salting (1980, p 364-366, ger) **35-896**
Stugarev, A.S.
Ultimate stability stripping area for chamber roofs in perennially frozen placer mines (1980, p 52-54, rus) **35-866**
Stuiver, M.
History of the marine ice sheet in West Antarctica during the last glaciation a working hypothesis (1981, p 319-436 + 5 sheets, eng) **35-2069**
Stump, E.
Early Miocene subglacial basalts, the East Antarctic ice sheet, and uplift of the Transantarctic Mountains (1980, p 757-759, eng) **35-2792**
Stupin, V.P.
Space survey methods and data in studying exogenic processes in mountains of the Baykal Amur railroad area (1981, p 22-26, rus) **35-3540**
Su, Z.
Gravimetric determination of ice thickness and the calculation of ice quantity of Batura Glacier (1980, p 42-56, chi) **35-4029**
Subbotin, V.V.
Evaluating possible changes in the meteorological regime of the Ob' River estuary during interzonal redistribution of flow (1980, p 97-100, rus) **35-3122**
Subrahmaniyam, S.
On unsteady state heat transfer during melting on horizontal tubes with a convective boundary (1981, p 155-165, eng) **35-3627**
Suchkin, A.L.
Forecasting cryogenic processes in the Ob' River delta (1980, p 110-112, rus) **35-3126**
Sucoff, E.
Six-year growth of trees and shrubs along Minnesota roads especially as affected by deicing salts (1980, 31p., eng) **35-2942**
Sudakov, P.A.
Periglacial lakes in Zailiyskiy Alatau (1980, p 97-101, 165-170, rus) **35-2824**
Sudakov, V.V.
Prefabricated low-story construction with the use of light material structures for the Far North (1980, p 32-39, eng) **35-1969**
Suddarth, K.
Independent roof sections for long buildings to resist snow loads (1980, p 968-972, eng) **35-2411**
Sugano, S.
On the rebound of supercooled droplets colliding with ice plate (2) (1979, p 93-102, eng) **35-516**
Suggestions of innovators from the Main Administration for the Construction of Pipelines in Siberian Regions
Suggestions of innovators from the Main Administration for the Construction of Pipelines in Siberian Regions (1981, p 33-34, rus) **35-2095**
Sugimori, M.
Report on the perennial snow patch on mount Hakusan its location, morphology, transition of annual net mass balance and the ablation rate in the ablation seasons (1979, p 171-180, jap) **35-265**
Suizu, S.
Distribution and process of accumulation and ablation of snow on the west slope of Mt Asahidake, Hokkaido (1978, p 1-12, jap) **35-1537**
Observations on depositional and melting processes of snow at different altitudes of Mt Teine, Hokkaido (1978, p 47-54, jap) **35-1539**
Relationships between snow distribution and climate in mountain areas (1981, p 109-118, eng) **35-3024**
Sukhinin, A.I.
Evaluating fire danger in taiga from microwave radiation (1980, p 14-19, rus) **35-3545**
Influence of biochemical composition and oxygen concentration in the environment on the burning rate of coniferous litter (1972, p 236-242, rus) **35-1380**
Sukhodol'skaia, L.A.
History of permafrost development in the USSR and methods of its study (1981, p 24-40, rus) **35-4067**
Permafrost dynamics in Transbaikal at the end of the Late Pleistocene-Holocene (1981, p 133-125, rus) **35-4076**
Sukhodol'skii, S.E.
Main stages of permafrost development in the northeast European USSR and western Siberia (1981, p 41-60, rus) **35-4068**
Regionalization of high-ice-content permafrost areas according to stability under economic development of the central Yamal Peninsula (1980, p 108-127, rus) **35-2193**
Sukhodrovskii, V.L.
Slope processes in tundra induced by human activities (1980, p 36-42, rus) **35-2188**
Studies of slope processes in northern Yakutian research stations (1980, p 156-160, rus) **35-3332**
Sukhorukov, K.K.
Hydroacoustic method for studying dynamics of sea ice formation (1980, p 74-69, rus) **35-374**
Sukhov, A.G.
Formation and development of ridge-and-valley topography in Taz Peninsula (1980, p 95-101, rus) **35-3471**
Sulimova, L.I.
Experience in predicting elements of the ice and thermal regime of the lower pools of hydroelectric stations (1980, p.945-949, eng) **35-2772**
Sulin, G.A
Studying land recultivation in mining areas of the northeastern USSR (1977, p 111-125, rus) **35-3808**
Sumarokov, V.V.
Physical properties of soils and their forest-forming role in dark coniferous mountain forest of the central Ural Mountains (1976, p 114-123, rus) **35-1920**
Sun, T.
Survey of speed of movement of the glacier in the K'o-la-kun-lun Mountain region (1979, p 33-38, chi) **35-2900**
Sun, Z.
Measuring of glacier variations by repeated terrestrial stereophotogrammetric method (1980, p 54-56, chi) **35-2668**
Superstructure icing forecasting guide for Alaska waters
Superstructure icing forecasting guide for Alaska waters (1980, 5p., eng) **35-3790**
Suponitskii, A.M.
Screening effect of tailings under permafrost conditions (1979, p 6-7, rus) **35-352**
Sushchenia, V.A.
Using space information in swamp protection and melioration (1980, p 159-167, rus) **35-1447**

Sushchenko, V.E.
Solar radiation as the main energy source of thermal meliorations in permafrost areas (1976, p.63-77, rus) **35-1147**
Theory of forecasting cryogenic processes (1976, p.78-85, rus) **35-1148**

Suslin, V.M.
Easily assembled modular buildings (1980, p.30-31, rus) **35-1307**

Suslov, V.F.
Abramov glacier (Alai Range) - Water-ice and heat balance of mountain glacier basins (1980, 206p., rus) **35-232**
Glaciology of mountain regions (snow cover, avalanches and glaciers) (1980, 144p., rus) **35-709**

Sutter, J.F.
Early Miocene subglacial basalts, the East Antarctic ice sheet, and uplift of the Transantarctic Mountains (1980, p.757-759, eng) **35-2792**

Suvorov, V.V.
Surface water resources in the Tomsk region (1976, p.149-155, rus) **35-1193**

Suzuki, M.
New method of measuring snowflake size and falling velocity (1981, p.1-8, jap) **35-4201**

Suzuki, S.
Experimental studies of snow accretion on electric lines by the use of a wind tunnel - growth of snow accretion under high wind speeds (1978, p.169-180, jap) **35-1184**

Suzuki, Y.
Diurnal variation of soil water tension during soil freezing (1978, p.181-183, jap) **35-1556**
New counter-torque devices of a suspended electromechanical drill (1978, p.163-166, jap) **35-1551**

Svec, O.J.
Cantilever beam tests in an ice cover: influence of plate effects at the root (1981, p.93-101, eng) **35-3666**
Chilled gas pipeline - frost-heave design (1981, p.705-718, eng) **35-2532**

Svensson, B.H.
Carbon dioxide and methane fluxes from the ombrotrophic parts of a subarctic mire (1980, p.235-250, eng) **35-1483**
Energy flow through the subarctic mire at Stordalen (1980, p.283-301, eng) **35-1485**

Svensson, H.
On ice-wedge polygons in Oland (1979, p.110-112, swe) **35-4215**
Pingos in southern Sweden during Late Glacial time - Some problems concerning formation and identification of periglacial features (1979, p.35-47, swe) **35-4007**

Sverrisson, M.
Radio-echo equipment for depth sounding of temperate glaciers (1980, p.477-486, eng) **35-1509**

Sveshnikova, E.I.
Mathematical modeling of snow avalanches (1980, p.79-84, rus) **35-1230**

Sveum, D.
Snowmelt modeling of upper Missouri River watersheds with SSARR (1980, p.72-82, eng) **35-2229**

Svindal, S.
Exploration for disseminated lead in southern Norway (1973, p.111-126, eng) **35-2749**

Svoboda, J.
Primary production of tundra (1981, p.187-225, eng) **35-3380**

Swanson, J.C.
Some effects of mammalian herbivores and fertilization on tundra soils and vegetation (1980, p.565-578, eng) **35-3206**

Swanson, R.H.
Surface wind structure in forest clearings during a chinook (1980, p.26-30, eng) **35-2223**

Swaters, G.E.
Free drift of sea ice: a comparison of models (1980, 132p., eng) **35-1845**

Sweet, L.
Farmers loop sinkhole (1980, p.6-10, eng) **35-3856**

Swisher, M.L.
Depositional and erosional features of the inner shelf, northeastern Bering Sea (1981, p.332-267, eng) **35-3245**

Swithinbank, C.
Problem of a glacier inventory of Antarctica (1980, p.229-236, eng) **35-1284**

Syers, J.K.
Effectiveness of land application for phosphorus removal from municipal waste water at Manteca, California (1980, p.616-621, eng) **35-3705**

Symposium Franco-Soviétique Alpes-Caucase, 1st
Selected papers from the Franco-Soviet Symposium on the Alps and Caucasus (1981, p.219-403, fre) **35-3739**

Symposium on High-Latitude Climate Systems, Nov. 6-9, 1979
Proceedings (1980, p.1935-2091, eng) **35-3642**

Symposium on Snow in Motion, Fort Collins, Colorado, Aug. 12-17, 1979
Proceedings (1980, 527p., eng) **35-2342**

Symposium on Utilities Delivery in Northern Regions, 2nd, Edmonton, Alberta, March 19-21, 1979
Utilities delivery in northern regions (1980, 542p., eng) **35-2107**

Syroid, N.A.
New data on the Chuna Tundra vegetation (1980, p.83-86, rus) **35-3070**

Syrtsov, G.
Prefabrication of 209 series wooden panel houses (1980, p.46-49, rus) **35-928**

Sytinskii, A.D.
Preliminary estimate of ice cover flow in Antarctica using seismic data (1980, p.36-40, rus) **35-2029**

Szponar, A.
Ablation of ice-moraine ridges and its morphological effects, with glaciers of the Hornsund region as example (1975, p.101-125, eng) **35-3613**
Marginal zone of the Arie Glacier (1975, p.127-138, eng) **35-3614**

Tabakov, N.V.
Improving the design of oil field roads in western Siberia (1980, p.15-19, rus) **35-2780**
Road construction on West Siberian oil fields (1980, p.3-5, rus) **35-939**
Using synthetic textile materials in the construction of roads and foundations in cluster-drilling areas of western Siberia (1980, p.4-7, rus) **35-2777**

Tabata, T.
Arctic sea ice research, 4 - measurements of uniaxial compressive strength (1978, p.131-139, jap) **35-1549**
Arctic sea ice research, 5 - measurements of friction between sea ice and other materials (1978, p.141-161, jap) **35-1550**
Divergence and rotation of an ice field off Okhotsk Sea coast of Hokkaido (1980, p.273-282, eng) **35-2170**
Failure of sea ice by repeated compression (1978, p.63-68, jap) **35-1541**
Reduction with increasing range in intensity of reflected power of sea ice radar waves (1978, p.125-129, jap) **35-1548**

Tabler, R.D.
Geometry and density of drifts formed by snow fences (1980, p.405-419, eng) **35-2382**
Self-similarity of wind profiles in blowing snow allows outdoor modeling (1980, p.421-434, eng) **35-2383**
Studying snowdrifting problems with small-scale models outdoors (1980, p.1-13, eng) **35-2221**

Tabuchi, H.
Model and field experiments for development of ice resistant offshore structures (1980, p.307-314, eng) **35-3635**

Tachkova, N.A.
Thermal and physical properties of cellular concrete enclosures (1979, p.72-76, rus) **35-4058**

Tafuri, A.N.
Water pollution and associated effects from street salting (1975, p.317-340, eng) **35-2569**

Tagunova, L.N.
Results of studying geobotanical indices for engineering-geological and geocryologic purposes (1971, p.23-28, rus) **35-756**

Taillefer, A.
Incremental formulation of constitutive equations for deposited snow (1980, p.289-307, eng) **35-1823**
Mechanical properties of snow: experimental study by triaxial compression (1979, 25p., fre) **35-1886**
Mechanical properties of snow: treatment as a Burgers body (1977, 31p., fre) **35-1885**

Taits, V.G.
Centralized technical servicing of construction equipment at the Baykal-Amur railroad (1980, p.11-14, rus) **35-446**
Gantry crane for repairing construction equipment at the Baykal-Amur railroad (1981, p.21-22, rus) **35-2853**
Reusable shelters for maintenance and repair of machines at the Baykal-Amur railroad (1981, p.10-12, rus) **35-4279**
Servicing heavy road construction machines (1981, p.26-28, rus) **35-2085**

Takagi, S.
Adsorption force theory of frost heaving (1980, p.57-81, eng) **35-819**
Summary of the adsorption force theory of frost heaving (1980, p.233-236, eng) **35-739**

Takahashi, E.
Floristic study of ice algae in the sea ice of lagoon, Lake Saroma, Hokkaido, Japan (1981, p.49-56 + 5 plates, eng) **35-3597**

Takahashi, K.
Shapes of snow and ice (1980, 119p., jap) **35-2855**

Takahashi, S.
Ablation study on the Yukikabe snow patch in the Daisetsu Mountains (1981, p.97-100, jap) **35-4268**
Study on ablation hollows on a melting snow surface (1978, p.13-46, jap) **35-1538**

Takahashi, T.
Atmospheric electrical observations of precipitation particles in the winter monsoon at Hokuriku District, Japan (Part 1. Results at Unoke Town) (1979, p.31-48, eng) **35-513**
On the formation of snow crystals in a vertical wind tunnel (1980, p.29-32, jap) **35-1065**

Takashi, T.
Experimental study of uniaxial compressive strength of segregated ice in soil (1981, p.83-96, eng) **35-4267**

Takeda, K.
Dual-jet injection of soil water vapour during soil freezing (1978, p.181-183, jap) **35-1556**

Takeuchi, M.
On the light attenuation and visibility in snow drift (1976, p.165-170, jap) **35-258**
Vertical profile and horizontal increase of drift snow transport (1979, p.143-156, eng) **35-518**
Vertical profile and horizontal increase of drift-snow transport (1980, p.481-492, eng) **35-2388**

Takh, M.G.
Industrialization of the construction of steam power stations in the Far North (1981, p.26-28, rus) **35-4229**

Takizawa, T.
Deflection of a floating ice sheet subjected to a moving load, Pt.2 (1978, p.69-78, jap) **35-1542**

Tales the ice can tell
Tales the ice can tell (1978, p.15-21, eng) **35-401**

Talovskaia, V.S.
Hydrochemical regime of swamps in the Evoron Lake Basin (1979, p.156-180, rus) **35-1524**

Tal'roze, V.L.
Investigation of organic additive aggregation processes in frozen water-salt systems (1980, p.377-379, rus) **35-1388**

Talvitie, J.
Reconnaissance prospecting by photogeology in northern Finland (1973, p.73-81, eng) **35-2745**

Tam, S.Y.K.
Some tests of a VHF synthetic pulse sea ice thickness sensor (1980, p.305-312, eng) **35-556**
Synthetic pulse radar design (1980, p.349-360, eng) **35-559**

Tam, W.
Ship's hull as a test instrument (1980, p.237-274, eng) **35-3845**

Tanaka, K.
Design of snow-gauge using photoelectric effects (1976, p.171-177, jap) **35-259**

Tang, L.
Preliminary application of pollen analysis method to the research of annual layer of glaciers (1980, p.87-90, chi) **35-2680**

Tang, Y.
Analysis of sedimentary facies in South Muzart Valley, Tian Shan (1980, p.83-86, chi) **35-2679**
Evidence of climatic fluctuation in Quaternary deposit involution layers (1980, p.41-43, chi) **35-87**

Tangborn, V.
Ice and water balances, South Cascade glacier, 1975-1977 (1980, p.143-147, rus) **35-1246**

Tangborn, W.V.
Contribution of glacier runoff to hydroelectric power generation on the Columbia River (1980, p.62-67, 140-143, rus) **35-2818**
Model to forecast short-term snowmelt runoff using synoptic observations of streamflow, temperature and precipitation (1980, p.778-786, eng) **35-439**

Tanin-Shakhov, V.S.
Bulldozer-pusher D7-121 with scraping equipment (1980, p.6-7, rus) **35-323**

Tanoue, R.
Origin of Harding Lake (1980, p.1-8, eng) **35-1558**
Quaternary geologic and geomorphologic history around the Harding Lake, Alaska, U.S.A. (1980, p.45-53, eng) **35-1562**
Water budget and lake-level stability of Harding Lake (1980, p.9-15, eng) **35-1559**

Tantsman, M.A.
Quick method of checking the pollution of construction materials used in Angarstroi (1981, p.22-23, rus) **35-2845**

Tarabrin, V.A.
Dynamics of natural temperature fields in the ground (1980, p.106-111, rus) **35-2336**
Dynamics of thermal regime in the pipeline-ground-air system (1980, p.20-26, rus) **35-2335**

Tarakanov, A.G.
Frost mounds of the Son-Kel' basin (Tien Shan) (1981, p.48-52, rus) **35-3482**
Relief forms produced by stone-bearing solifluction in Tien Shan (1980, p.98-105, rus) **35-953**

Taran, B.M.
Numerical modeling of ice drift in a coastal zone (1980, p.81-85, rus) **35-931**

Taran, I.V.
Introduced trees in recreation areas of Novosibirsk (1980, p.174-176, rus) **35-2446**

Tarapchak, S.J.
Limnology of the Klutlan moraines, Yukon Territory, Canada (1980, p.130-148, eng) **35-3721**

Tarasenko, A.N.
Field protection effectiveness of forest strip systems in the steppes of northern Kazakhstan (1978, p.4-11, rus) **35-1092**
Forest strip vulnerability to snow breakage (1978, p.83-90, rus) **35-1100**

Taraskin, Iu.S.
Performance of combined tracked units under different operation conditions (1977, p.125-127, rus) **35-69**

Tarasova, L.N.
Plotting precipitation fields of the Surkhob, Obikhingou and Vanch river basins in the Pamirs from data on accumulation at the equilibrium line of glacier alimentation [1980, p.200-203, rus] **35-2832**

Taravasmaki, P.
Snow scooter and cross country vehicle as farmers' wood transport vehicles [1981, p.28-30, fin] **35-2798**

Tarbutton, G.
Electric heat tracing and energy conservation for northern installations [1980, p.288-309, eng] **35-2124**

Tareeva, A.M.
Calculating glacial runoff in Caucasus by the air temperature field at the equilibrium line of glacier alimentation [1980, p.31-37, 112-118, rus] **35-2812**

Targulian, IU.O.
Construction of piling foundations and increasing their bearing capacity in frozen soils [1980, p.218-228, eng] **35-1978**

Tarkhova, T.N.
Microclimate of moss and lichens habitats in the Hylocomium- lichen pine forests [1980, p.14-20, rus] **35-1037**

Tarnavskii, O.V.
Container transportation of superphosphate to the Far North [1980, p.13, rus] **35-543**

Tarnocai, C.
Some nonsorted patterned ground types in northern Canada [1981, p.139-151, eng] **35-4088**

Tarnogradskii, V.D.
Surface and underground glaciation of the West Siberian Plain during the Pleistocene [1978, p.18-28, rus] **35-1421**

Tart, R.G.
Construction and performance of frozen gravel fills [1981, p.693-704, eng] **35-2531**
Using explosives to excavate frozen ground [1980, p.246-265, eng] **35-1986**

Tatinclaux, J.C.
Characteristics of flow below a rough floating cover [1981, p.122-142, eng] **35-2547**

Taylor, A.
Ground temperature studies at an arctic drained lake site [1981, p.642-658, eng] **35-2527**
Permafrost studies in northern Quebec [1979, p.245-251, eng] **35-1042**

Taylor, C.H.
Influence of snow on the input and movement of cations within a small watershed: methods and preliminary results [1980, p.182-184, eng] **35-3158**

Taylor, D.A.
Snow and buildings [1981, p.562-579, eng] **35-3758**
Snow loads for the design of cylindrical curved roofs in Canada 1953-1980 [1981, p.63-76, eng] **35-4218**
Unbalanced snow distributions for the design of arch-shaped roofs in Canada [1980, p.651-656, eng] **35-2149**

Taylor, K.S.
Interpretation of Rb-Sr dates of feldspar in tillite on Mt. Tuatara, Byrd Glacier [1980, p.59-60, eng] **35-3174**

Taylor, P.A.
Note on albedo variations of the frozen surface of Lake Simcoe during March, 1978 [1980, p.168-176, eng] **35-2458**

Taylor, P.R.
Ship operations. *Deep Freeze* 80 [1980, p.230-232, eng] **35-3195**

Taylor, R.A.H.
Snow survey of the Northern Hemisphere [1980, p.75-76, eng] **35-2163**

Taylor, R.J.
Shoreline vegetation of the arctic Alaska coast [1981, p.37-42, eng] **35-4049**

Tchernia, P.
Observation of the antarctic east wind drift current by using tabular icebergs tracked by satellite [1980, p.83, eng] **35-3187**

Tchittarath, S.
Effects of winter salting on the natural environment [1981, p.41-52, fre] **35-4006**

Tebeau, P.A.
U.S. Coast Guard Arctic oil spill research program [1980, p.111-128, eng] **35-3880**

Technology Transfer Seminar on Effluent Irrigation under Prairie Conditions, Regina, Saskatchewan, Jan. 24-25, 1979
Papers [1979, var p., eng] **35-2793**

Tedrow, J.C.F.
Soil and permafrost surveys in the Arctic [1981, 279p., eng] **35-4128**

Teitel'baum, K.A.
Dependence of air temperature above the Kara Sea on ice conditions and atmospheric circulation during the spring-summer seasons [1980, p.109-117, rus] **35-3501**

Teitsma, G.J.
Advancing the state-of-the-arts, thermal insulations and moisture retarders [1981, p.32, eng] **35-2791**

Teixeira, J.
Interpretation of the unusual behavior of H2O and D2O at low temperatures: tests of percolation model [1980, p.3404-3422, eng] **35-842**

Telegina, L.I.
Studying processes of ice cryoextraction by organic solvents [1979, p.80, rus] **35-1276**

Telford, A.S.
Oil in moving pack – laboratory study [1979, p.225-264, eng] **35-175**

Temnikov, S.N.
Using aerial surveys and satellite information in studying ice regime of the Aral Sea [1980, p.44-51, rus] **35-2973**

Tenenbaum, P.S.
Introduction of new production testing methods for construction in conditions of the North [1980, 108p., eng] **35-987**

Teplitskii, L.S.
Improving watertightness of large panel buildings [1980, 95p., rus] **35-1575**

Terekhin, A.A.
Large components as a basis for the intensification of residential building construction [1981, p.31-32, rus] **35-4240**

Terent'ev, V.G.
Calculating elastic properties of ice at Vostok Station [1980, p.80-84, rus] **35-2037**

Tereshenkova, I.A.
Time for the formation of organic matter in the second humic zone of soddy-podsolic soils [1980, p.1475-1478, rus] **35-2766**

Ternovskii, I.N.
Problems of lightening underground structures and methods of constructing them under permafrost conditions [1980, p.131-140, eng] **35-963**

Tetel'baum, A.N.
Evaporation thermosiphons for heating stairs in pedestrian tunnels [1981, p.48-49, rus] **35-2090**

Tetel'min, V.V.
Injection grouts for cementing low temperature bases of hydraulic structures [1980, p.63-64, rus] **35-597**

Teterina, L.V.
Tundra soils of the Kolyma River area [1980, p.158-194, rus] **35-292**

Theakstone, W.H.
Glacial geomorphology [1980, p.241-253, eng] **35-3557**
Recent changes of the glacier Osterdalsisen, Svartisen, Norway [1981, p.23-30, eng] **35-4017**

Thibeault, D.
Analysis of hydraulic and ice conditions at Terrebonne in relation with winter and spring floods [1981, p.209-226, eng] **35-2553**

Thomas, B.C.
Lightering with air cushion vehicles in Alaska [1981, p.249-263, eng] **35-2507**

Thomas, B.L.
Changes in the volatile hydrocarbon content of Prudhoe Bay crude oil treated under different simulated weathering conditions [1981, p.109-119, eng] **35-2937**

Thomas, H.P.
Geotechnical issues and answers during construction of the trans-Alaska pipeline [1979, p.128-133, eng] **35-1112**
Improvement of bearing capacity of pipe piles by corrugations [1980, p.229-234, eng] **35-1979**

Thomas, R.E.
Cost of land treatment systems [1979, 135p., eng] **35-2464**
EPA policy on land treatment and the Clean Water Act of 1977 [1980, p.452-460, eng] **35-2759**

Thomas, R.H.
Ice-sheet dynamics by satellite laser altimetry [1981, p.1012-1022, eng] **35-3593**
Ice-shelf grounding – ice and bedrock temperature changes [1980, p.397-400, eng] **35-1503**
Ross Ice Shelf glaciology [1979, p.66-67, eng] **35-653**

Thomason, S.B.
Experimental observations of flow instability during turbulent flow freezing in a horizontal tube [1980, p.782-784, eng] **35-1679**

Thompson, L.G.
Glaciological interpretation of microparticle concentrations from the French 905-m Dome C, Antarctica, core [1981, p.227-234, eng] **35-3033**
Glaciological interpretation of the microparticle concentration in the 905-meter Dome C core [1980, p.71-75, eng] **35-3180**
Ice core studies from Mt. Kenya, Africa, and their relationship to the other tropical ice core studies [1981, p.55-62, eng] **35-3021**
Interpretation of monopulse ice radar soundings on two Peruvian glaciers [1981, p.958-973, eng] **35-3588**
Microparticle concentration variations linked with climatic change: evidence from polar ice cores [1981, p.812-815, eng] **35-3773**
Microparticle deposition at South Pole [1979, p.91-93, eng] **35-665**

Thompson, S.L.
Carbon dioxide and climate: ice and ocean [1981, p.9-10, eng] **35-2071**
Ice-free Cretaceous? Results from climate model simulations [1981, p.501-508, eng] **35-3687**

Thomsen, A.G.
Watershed information system [1980, p.14-25, eng] **35-2222**

Thomson, J.W.
Lichens of the Alaskan Arctic slope [1979, 314p., eng] **35-3523**

Thor, D.R.
Depositional and erosional features of the inner shelf, northeastern Bering Sea [1981, p.332-267, eng] **35-3245**
Distribution of gas-charged sediments in Norton Basin, northern Bering Sea [1981, p.261-287, eng] **35-3242**
Geological, geochemical and geotechnical observations on the Bering Shelf, Alaska [1980, var p., eng] **35-2538**
Hydrocarbon gases in near-surface sediment of northern Bering Sea (Norton Sound and Chirikov Basin) [1981, p.215-243, eng] **35-3239**
Ice gouging on the subarctic Bering shelf [1981, p.286-314, eng] **35-3243**
Ice gouging on the subarctic Bering shelf [1980, p.279-302, eng] **35-4145**
Sedimentary processes and potential geologic hazards on the sea floor of the northern Bering Sea [1980, p.247-261, eng] **35-4143**

Thorez, J.
Study of a section taken across a rampart of a pingo scar in Brackvenn [1974, p.341-357, fre] **35-1995**

Thorn, C.E.
Quantitative evaluation of nivation in the Colorado Front Range [1976, p.1169-1178, eng] **35-1901**

Thorndike, A.S.
FGGE Arctic data buoy program [1980, p.2097-2099, eng] **35-3655**
Geometric properties of the underside of sea ice [1980, p.3955-3963, eng] **35-156**
Horizontal coherency of the motion of summer Arctic sea ice [1980, p.1281-1289, eng] **35-1052**

Thornes, J.
Nature of fluid motion [1979, p.39-72, eng] **35-1685**
Sub-surface processes [1979, p.187-212, eng] **35-1687**

Thornley, S.
Quality of sewage lagoon discharges during winter and impact on stream water quality and biota [1979, p.547-558, eng] **35-433**

Thornton, D.E.
Summary of AMOP oil-ice-gas interaction studies [1980, p.3-5, eng] **35-3868**

Thurston, S.J.
Thermal analysis of thick concrete sections [1980, p.347-357, eng] **35-824**

Thyssen, F.
Deep geoelectric and electromagnetic soundings at Dome C [1980, p.69-71, eng] **35-3179**

Tice, A.R.
Analysis of water in the Martian regolith [1979, p.33-38, eng] **35-2756**
Low temperature phase changes in montmorillonite and nontronite at high water contents and high salt contents [1980, p.139-144, eng] **35-728**
Unfrozen water contents of submarine permafrost determined by nuclear magnetic resonance [1980, p.400-412, eng] **35-2755**

Tieszen, L.L.
Analysis of processes of primary production in tundra growth forms [1981, p.285-356, eng] **35-3384**
Arctic ecosystem: the coastal tundra at Barrow, Alaska [1980, 571p., eng] **35-1929**
Biophysical processes and primary production [1980, p.66-101, eng] **35-1932**
Control of tundra plant allocation patterns and growth [1980, p.140-185, eng] **35-1934**
Growth and physiological responses of tundra plants to defoliation [1980, p.531-552, eng] **35-3204**
Photosynthesis [1980, p.102-139, eng] **35-1933**

Tikhanova, O.P.
Construction of the first 750 kv overhead line in mountains [1980, p.49-53, rus] **35-311**

Tikhanovskaia, A.A.
Air temperature distribution above a glacier along its transverse profile [1981, p.60-66, rus] **35-4306**

Tikhmenev, E.A.
Cleistogamy in Arctic grasses [1981, p.116-120, rus] **35-3222**

Tikhomirov, B.A.
Phytomass and primary production of tundra communities, USSR [1981, p.227-238, eng] **35-3381**

Tikhonov, V.P.
Foundation design for fine-grained sands and deep seasonal freezing [1973, p.3-11, rus] **35-1597**

Tikhonov, V.V.
Temperature distribution over the cross-section of a large diameter hot oil line after shut-down [1979, p.5-8, rus] **35-492**

Timashev, I.E.
Allowing for environmental protection when designing partial redirection of Siberian rivers [1979, p.121-127, rus] **35-2329**
Forecasting changes in landscapes, bio- and medico-geographic conditions due to changing river courses in the central region of the USSR [1980, p.82-89, rus] **35-1429**

Timco, G.W.
Development of a new type of model ice for refrigerated towing basins [1980, 31p., eng] **35-1588**
Flexural strength of ice grown from chemically impure melts [1981, p.81-92, eng] **35-3665**
Mechanical properties of saline-doped and carbamide (urea)-doped model ice [1980, p.45-56, eng] **35-818**
NRC ice property measurements during the *Canmar Kigoriak* trials in the Beaufort Sea, winter 1979-80 [1980, 54p., 54 figs., eng] **35-1881**
Peculiar melt pattern in fresh-water ice [1980, p.499-501, eng] **35-1512**

Time to end hard wintertime starting
Time to end hard wintertime starting [1981, p.48, eng] **35-2562**

Timerev, A.A.
Evaluating possible changes in the meteorological regime of the Ob' River estuary during interzonal redistribution of flow [1980, p.97-103, rus] **35-3122**

Timofeev, B.A.
Solar radiation as the main energy source of thermal meliorations in permafrost areas [1976, p.63-77, rus] **35-1147**

Timofeev, D.A.
Problems of the relations between climate changes and exogenic relief formation [1978, p.9-21, rus] **35-12**

Timofeev, IU.L.
Tests of driven piles in slump-prone soils under the effect of horizontal and elastic loads [1980, p.107-110, eng] **35-1385**

Timofeev, P.A.
Using the Daurskaya larch in landscaping [1980, p.59-63, rus] **35-4102**

Timoshenko, A.T.
Studying thermophysical characteristics of polymer insulation [1979, p.114-119, rus] **35-242**

Ting, C.
Chinese research work on frozen ground and engineering work in the last 30 years [1979, p.7-12, chi] **35-2896**

Tingey, R.J.
Glaciation, erosion and uplift over part of East Antarctica [1981, p.142-144, eng] **35-3367**

Tishin, M.I.
Measuring solar radiation in ice on Lake Syrdakh [1980, p.38-40, rus] **35-3312**
Thermal regime of the bottom of a large thermokarst lake in Central Yakutia [1980, p.40-47, rus] **35-3313**
Water seepage from Lake Syrdakh [1980, p.90-97, rus] **35-3998**

Tishin, V.G.
Dynamic sounding method of determining earth dam densities [1980, p.25, rus] **35-505**
Thermal interaction between buildings on base fills and frozen soil [1981, p.240-244, eng] **35-4150**

Tishinkov, P.A.
Improving stability of physico-chemical and detonation properties of simplest explosives [1978, p.84-97, rus] **35-1083**

Tishkov, A.A.
Natural and man-induced dynamics of Valday spruce forests [1979, p.30-69, rus] **35-4119**
Natural revegetation in Valday spruce forests [1979, p.158-175, rus] **35-4122**

Titkov, S.N.
Movements of some rock glaciers in Zailiyskiy Alatau [1979, p.34-42, rus] **35-187**

Titov, A.
In defiance of winter conditions [1978, p.31-35, rus] **35-2450**

Tiulina, L.N.
Vegetation of the southern part of the Barguzin Range [1981, 85p., rus] **35-3228**

Tiumin, V.P.
Stability of mining excavations in Yakutia at above-zero thermal regimes [1979, p.62-64, rus] **35-197**

Tiuri, M.
Microwave emission signatures of snow in Finland [1981, p.670-675, eng] **35-3441**
Theoretical and experimental studies of microwave radiation from a natural snow field [1980, p.225-234, eng] **35-1745**

Tiurin, A.I.
Isotope methods of studying rock stream formation [1981, p.90-96, rus] **35-3300**
Rock stream formation in the area of the South Yakutian Task Economic Complex [1978, p.104-106, rus] **35-19**

Tiurin, A.P.
Atlases of hydrometeorological phenomena especially dangerous for sea navigation [1980, p.3-7, rus] **35-27**

Tiwari, J.L.
Ecosystem models vs biological reality: experiences in the systems analysis of an arctic pond [1978, p.105-109, eng] **35-2890**
Modeling [1980, p.407-456, eng] **35-1757**
Modeling approach based on stochastic differential equations, the principle of maximum entropy, and Bayesian inference for parameters [1979, p.167-193, eng] **35-4234**

Tkachenko, A.A.
Selecting foundations for power line supports allowing for the engineering-geological characteristics of South Yakutia [1981, p.46-49, rus] **35-2783**

Tkachevskii, I.D.
Equipment for building seepage fills on the Baykal Amur railroad [1981, p.3-5, rus] **35-3532**

Tkachuk, K.N.
Rock blasting under complicated mining and geological conditions [1980, 358p. (Pertinent p.144-197), rus] **35-2686**

Tlisov, M.I.
Effect of crystalline phase on hailstone growth [1975, p.151-162, rus] **35-1622**
Studying hail nuclei in wind tunnels [1975, p.122-139, rus] **35-1620**

Tobiasson, W.
Hand-held infrared systems for detecting roof moisture [1977, p.261-271, eng] **35-2494**
Moisture gain and its thermal consequence for common roof insulations [1980, p.4-16, eng] **35-2053**
Roofs in cold regions [1980, 21p., eng] **35-2713**
Roofs in cold regions, Marson's Store, Claremont, New Hampshire [1980, 13p., eng] **35-975**

Tokar', M.G.
Drilling and blowing wells clean with low-pressure compressed air [1980, p.28-29, rus] **35-355**
Testing experimental drilling assembly UEBR-1000 [1980, p.26-27, rus] **35-107**

Tokhver, V.
Active multiplication of bacteria in frozen soils [1974, p.56-60, rus] **35-1205**

Tokmagambetov, G.A.
Chemical composition and properties of Kazakhstan glacier meltwater [1980, p.162-166, rus] **35-1250**
Periglacial lakes in Zailiyskiy Alatau [1980, p.97-101, 165-170, rus] **35-2824**

Tokmakov, IU.A.
Heavy snowfall and avalanches in the Ukrainian Carpathians in the winter of 1975-76 [1978, p.297-299, eng] **35-3685**

Tolchel'nikov, IU.S.
Time for the formation of organic matter in the second humic zone of soddy-podsolic soils [1980, p.1475-1478, rus] **35-2766**

Tolkachev, G.S.
Experimental and analytical method of studying oscillations, stresses and stability of bases beneath foundations of machines [1981, p.7-21, rus] **35-4288**

Tolpinskii, B.A.
High quality and tempo of winter road construction [1980, p.16-17, rus] **35-1024**

Tolstikov, E.I.
At the poles in Antarctica [1980, 160p., rus] **35-1864**

Tolstov, V.N.
Ice nuclei concentrations measured from helicopters [1980, p.133-137, rus] **35-26**

Tomilin, B.A.
Biogeocenoses of the Taymyr Tundra [1989, 256p., rus] **35-1401**
Fungi as components of tundra biogeocenoses [1980, p.165-192, rus] **35-1411**
Tareia research station of the Botanical institute, Academy of Sciences USSR -- results of scientific research [1980, p.3-25., rus] **35-1402**

Tomirdiaro, S.V.
Ice-bearing loess of the Upper Pleistocene hyperzone in the Northern Hemisphere [1975, p.170-197, rus] **35-1137**
Surficial position of the Late Pleistocene ice-bearing loess complex in the Yana-Omoloy Interfluve [1976, p.3-11, rus] **35-1144**

Tomlinson, E.M.
New horizontal gradient, continuous flow, ice thermal diffusion chamber and detailed observation of condensation-freezing and deposition nucleations [1980, 108p., eng] **35-3468**

Tommos, K.
Some geochemical characteristics of Bering Sea sediments [1980, p.305-319, eng] **35-4146**

Tong, C.G.
Relationship between normal frost-heaving forces and areas of bearing plates [1981, p.741-748, eng] **35-2535**

Tonka, A.R.
Influence of a complex surfactant admixture on the properties of plasticized portland cement paste, stone and mortar [1980, p.71-75, rus] **35-1364**

Tonkoshkurov, B.A.
Starting hot oil lines at optimal pumping regime for non-Newtonian oil [1980, p.5-8, rus] **35-493**

Tooms, J.S.
Geochemical drainage dispersion from sulphide mineralization in glaciated terrain, central Norway [1973, p.1-10, eng] **35-2742**

Topchiev, A.G.
Spaceborne methods of studying naleds in relation to the development of the Baykal Amur railroad area [1978, p.101-102, rus] **35-17**

Topchii, V.D.
Concrete and reinforced concrete work. Construction manual [1980, 201p., rus] **35-2880**
Design of thermoactive forms and pouring concrete structures in thermoactive forms in conditions of the northern zone [1980, p.315-321, eng] **35-1984**

Topham, D.R.
Disposition of gas-oil mixtures trapped under ice [1980, p.55-73, eng] **35-3875**

Tornevik, H.
Study of the large scale cooling in the Bay of Bothnia [1980, 32p., eng] **35-3699**

Tough plow blades save big bucks
Tough plow blades save big bucks [1980, p.55-57, eng] **35-1499**

Toukairin, A.
Melting of ice in Lake Harutori observed in April 1973 [1981, p.9-13, jap] **35-4202**

Toung, B.
Active layer at the south foot of Tanggula Shan [1980, p.19-24, chi] **35-121**
Active layer at the south foot of Tanggula Shan [1980, p.19-24, chi] **35-121**

Trabant, D.
Comparison of mass balance and runoff at four glaciers in the United States, 1966 to 1977 [1980, p.138-143, rus] **35-1245**

Tracey, R.W.
Application of skin effect current tracing for freeze protection of water systems [1980, p.263-287, eng] **35-2123**

Trasky, L.L.
Environmental studies of Kachemak Bay and lower Cook Inlet -- Vol.1, Impact of oil on the Kachemak Bay environment [1977, 123p., eng] **35-888**

Travin, IU.V.
Surficial position of the Late Pleistocene ice-bearing loess complex in the Yana-Omoloy Interfluve [1976, p.3-11, rus] **35-1144**

Tremblay, P.R.
Analysis of hydraulic and ice conditions at Terrebonne in relation with winter and spring floods [1981, p.209-226, eng] **35-2553**

Trepov, G.V.
Radar technique of studying peat and sapropel deposits [1980, p.27-29, rus] **35-365**
Use of radio-echo measurements in determining the thickness and velocity of an antarctic ice sheet [1979, p.60-74, eng] **35-2886**

Treshnikov, A.F.
All-Union conference on Arctic environment and its conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers [1980, 147p., rus] **35-3103**
Major physiographic features of the Arctic and Southern Oceans [1979, p.37-54, rus] **35-1399**
Polex-North-76 (scientific results) Part 2 [1979, 194p., rus] **35-4182**
Problems in studying the Arctic environment and preservation of its resources at the present stage of development [1980, p.4-7, rus] **35-3104**
Problems of the Arctic and the Antarctic, collection of articles, Vol. 48, 1976 [1981, 173p., eng] **35-4129**

Tret'iakov, IU.D.
Low temperature scanning calorimetry technique of studying crystallization of water solutions of sulfates [1979, p.79, rus] **35-1275**
Studying processes of ice cryoextraction by organic solvents [1979, p.80, rus] **35-1276**
Thermodynamic analysis of cryochemical crystallization of water-salt solutions [1979, p.76, rus] **35-1273**

Trifonov, V.
Studying winter performance of ships [1980, p.10-11, rus] **35-906**

Trifonova, I.S.
Phytoplankton composition and cropping power in different lake types of the Karelian Isthmus [1979, 168p., rus] **35-201**

Trincher, K.
Mathematic-thermodynamic analysis of the anomalies of water and the temperature range of life [1981, p.433-448, eng] **35-2460**

Trinkl, E.W.
Stochastic dynamic analysis of polar sea ice variability [1980, p.2100-2120, eng] **35-2473**

Trivett, N.B.A.
Evaluation of the spatial and temporal distributions of snowpack parameters in the Saint John River basin [1980, p.19-35, eng] **35-3144**

Trofimets, L.N.
Water resources in routine study areas of southern Tyumen' [1980, p.185-190, rus] **35-3425**

Trofimov, A.S.
Anchors with thermo-chucks for holding pipelines in frozen ground [1980, p.13-14, rus] **35-1635**

Trofimov, V.I.
Investigation of organic additive aggregation processes in frozen water-salt systems [1980, p.377-379, rus] **35-1388**

Trofimov, V.L.
Instantaneous deformation of peat in the general process of sagging ground consolidation [1980, p.10-12, rus] **35-623**

Trofimov, V.T.
Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia [1980, 256p., rus] **35-279**

Trofimov, V.T. *(cont.)*
Cryogenic structure and ice content of perennially frozen rocks in the West Siberian Platform [1980, 246p., rus] **35-385**
Regional forecasting of ground sagging depth due to permafrost thawing in the West Siberian Platform [1981, p.101-112, rus] **35-3460**

Trofimova, I.E.
Climate and microclimate of central taiga in West Siberia [1980, p.144-182, rus] **35-2490**
Evaporation from swamps in the forest zone of West Siberia [1980, p.140-147, rus] **35-3422**
Microclimatic changes in taiga geosystems due to human factors [1980, p.90-100, rus] **35-3052**
Studying heat balance of dark conifer forests in the central taiga of West Siberia [1977, p.37-47, rus] **35-762**
Typification of central taiga facies in West Siberia according to thermal conditions and the structure of radiation-meteorological fields [1978, p.97-123, rus] **35-3824**
Variability of basic climatic factors in the Konda-Sos'va area of the Ob' River region [1980, p.114-128, rus] **35-3420**

Troitskii, E.V.
Improving the design of foundations for gas-pumping aggregates [1980, p.11-12, rus] **35-312**

Troitskii, L.S.
Experience in direct use of glaciers for winter water supply [1980, p.260-264, rus] **35-1755**
Pleistocene glaciations on Svalbard [1981, p.20-26, eng] **35-3901**
Studies of Spitsbergen snow cover in spring of 1979 [1980, p.185-[illegible], rus] **35-2829**

Tron', S.F.
Relations between the strength of peat soils, swamp microlandscapes and their images on aerial photographs [1980, p.4-6, rus] **35-620**

Tronin, V.
Results of icebreaker tests [1980, p.14-16, rus] **35-908**
Studying winter performance of ships [1980, p.10-11, rus] **35-906**

Troshkina, E.S.
Avalanche regimes on Sakhalin Island [1980, p.57-61, rus] **35-879**
Engineering geography of mountain regions: subject matter and current problems [1980, p.66-73, rus] **35-1439**

Troshkova, N.D.
Settlement of pile foundations in clayey water-saturated soils [1979, p.29-30, rus] **35-4**

Troup, A.G.
Copper-molybdenum porphyry mineralization in central British Columbia, Canada: an assessment of geochemical sampling media useful in areas of glaciated terrain [1975, p.6-15, eng] **35-2735**

Troy, B.E.
Measurement of the microwave properties of sea ice at 90 GHz and lower frequencies [1981, p.4283-4289, eng] **35-[illegible]14**

Trubetskaia, A.P.
Zonal peculiarities of the hydrothermal regime of saline soils in southwestern Siberia [1980, p.67-68, rus] **35-2273**

Trudell, J.
Habitat preference and forage consumption by reindeer and caribou near Atkasook, Alaska [1980, p.511-529, eng] **35-3203**

Truett, J.C.
Physical processes [1981, p.82-108, eng] **35-3284**

Trupak, N.G.
Artificial freezing of the ground in underground construction [1979, 452p., eng] **35-704**
Using liquid oxygen in artificial freezing of ground [1980, p.19-20, rus] **35-354**

Trush, N.I.
Composition and properties of Upper Pleistocene deposits of the Yana-Indigirka coastal lowland [1975, p.59-69, eng] **35-2401**
Exogenic geologic processes and phenomena (Southern Yakutia) [1980, 227p., rus] **35-1701**

Trushevskii, V.L.
Forecasting thermal regime variations in the Ob' Bay in relation to the planned first phase of flow diversion [1980, p.84-86, rus] **35-3118**

Tryde, P.
Physics and mechanics of ice [1980, p.556-559, eng] **35-2421**

Tryon, P.R.
Use of space by Lapland longspurs breeding in Arctic Alaska [1980, p.509-520, eng] **35-1683**

Trzhtsinskii, Iu.B.
Engineering geology of East Siberia in relation to the rational development of natural resources [1980, p.45-53, rus] **35-1704**

Tsaliuk, I.G.
Airport pavements of fine-grained concrete [1980, p.25, rus] **35-1652**
Construction of deep sea piers in the Arctic [1981, p.17-18, rus] **35-3013**
Organizing construction in the Far North [1980, p.13-14, rus] **35-3**

Tsang, G.
Frazil ice and anchor ice and their resistance effect in rivers [1979, p.127-138, eng] **35-408**
Ice and oil research at Hydraulics Research Division, National Water Research Institute [1980, p.33-35, eng] **35-3872**
Proceedings [1981, 301p., eng] **35-2533**
Resistance of Beauharnois Canal in winter [1981, p.57-78, eng] **35-2543**

Tsang, L.
Multiple scattering of electromagnetic waves by random distributions of discrete scatterers with coherent potential and quantum mechanical formulism [1980, p.3465-3485, eng] **35-2410**
Theoretical models for microwave snow response and applications to remote sensing [1980, p.147-167, eng] **35-1741**

Tsarev, B.K.
Calculating snow cover areas in high altitude zones of mountain basins from the altitude of seasonal snow lines [1980, p.89-98, rus] **35-3579**
Requirements for resolving power in satellite information for studying snow cover dynamics in mountains [1980, p.15-20, rus] **35-2969**
Results of satellite reconnaissance of snow line dynamics in western Tien Shan [1980, p.128-136, rus] **35-3799**
Studying snow cover dynamics and evaluating mean discharge of the Amudar'ya River during the vegetation period from satellite photographs [1980, p.30-34, rus] **35-2971**

Tsarev, V.P.
Peculiarities of the formation, methods of exploration and development of hydrocarbon accumulation under permafrost conditions [1980, 213p., rus] **35-2955**

Tsarev, V.T.
Lowering construction cost of pile foundations for residential buildings in Yakutsk [1978, p.101-106, rus] **35-4115**

Tsareva, V.T.
Seed productivity of two species of wood rush *Luzula arcuata* (Wahlb.) Sw. and *L. spicata* (L.) DC. in the Khibiny Mountains [1980, p.4-50, rus] **35-3067**

Tselikov, F.I.
Using blasting in studying seismic stability of rock excavation slopes [1980, p.121-125, rus] **35-147**

Tserevitinov, F.O.
Energy interaction between reservoirs and the atmosphere [1980, p.151-173, rus] **35-1496**

Tsigel'naia, I.D.
Water resources of mountains [1980, p.50-65, rus] **35-1438**

Tsoi, L.G.
Selecting principal parameters of ice-breaking cargo ships [1979, p.4-6, rus] **35-319**

Tsolakis, A.
Ice depolarization at 11.7 and 19 GHz on slant paths in Virginia, USA [1981, p.148-153, eng] **35-3886**

Tsomaia, V.Sh.
Mass transfer variations in glaciers of the Caucasus during the last 35-40 years and their influence on river water content [1980, p.125-130, rus] **35-1241**
Snow deposits on the southern slope of the central Caucasus highlands, which undergoes intensive economic development [1980, p.83-98, rus] **35-3802**

Tsubata, I.
Simple snowfall detector employing infrared rays reflection [1981, p.77-82, jap] **35-4266**

Tsuchiya, I.
Airborne [illegible] of snow depths in Mts. Iide, Gassan and Chokai and a preliminary report on the birth of a small glacier [1976, p.178-187, jap] **35-260**

Tsui, T.
Basis and division of the ice period in western China [1979, p.13-21, chi] **35-2897**

Tsukerman, I.G.
Determining density of loose clastic deposits in outcrops [1980, p.82-94, rus] **35-1812**

Tsunakawa, K.
Random waves attack on a composite breakwater [1979, p.275-288, eng] **35-177**

Tsuprik, V.G.
Calculating strength of ice floe impact against separate supports [1978, p.81-85, rus] **35-753**

Tsurikov, V.L.
Mechanisms of population and the possibility of microflora development in sea ice [1980, p.118-132, rus] **35-1320**

Tsutskiridze, IA.A.
Regularities of distribution of low subzero air temperatures in East Georgia [1980, p.80-88, rus] **35-2988**

Tsvetaeva, Z.N.
Regional geographic forecast, Vol.2: present state and basic trends in changes of natural environments. West Siberia [1980, 206p., rus] **35-1269**

Tsvetukhin, A.S.
Statistical structure of currents in the northwestern part of the Pacific Ocean [1979, p.184-193, rus] **35-4200**

Tsvyk, P.Sh.
Intensity fluctuations of a laser beam in falling snow [1980, p.103-107, eng] **35-4159**

Tsykin, E.N.
Use of the ice channeling plow for the prevention of ice barrages [1970, 6p., eng] **35-4096**

Tsypanova, A.N.
Oxidation-reduction processes and migration of mobile compounds in clay-podsol soils of northern taiga in Komi ASSR [1974, p.25-30, rus] **35-689**
Peculiarities of soil processes in the far northern taiga [1971, p.58-59, rus] **35-2610**
Thermal regime, oxidation-reduction processes and the effectiveness of fertilizers in southern tundra soils [1980, p.117-118, rus] **35-2293**

Tu, F.
Portland cement work in cold weather in Europe and America [1980, 238p., chi] **35-4012**

Tugaenko, IU.F.
Development of deformations in loess beneath an experimental foundation [1980, p.85-97, rus] **35-231**

Tugunov, P.I.
Paraffin precipitation effect on the thermal regime of hot oil line [1980, p.5-8, rus] **35-925**

Tulaev, A.IA.
Design and construction of drainage systems [1980, 191p., rus] **35-3233**

Tulinov, S.
Preparing rocket gunners for combat duty in winter [1979, p.19-22, rus] **35-495**

Tulubenskii, V.M.
Seagoing passenger sidewall hovercraft "Chaika" [1980, p.5-7, rus] **35-317**

Tumel', N.V.
Peculiarities of seasonal thawing of soils in the west subarctic plains [1980, p.59-60, rus] **35-2270**
Temperature regime of frozen rocks and frost fracturing [1979, p.26-49, rus] **35-1829**

Tummers, E.L.
Heat budgets of the Southeast Beaufort Sea for the years 1974 and 1975 [1980, 204p., eng] **35-1777**

Tunegolovets, V.P.
Thermal regime of surface waters in the subarctic zone of the Pacific Ocean [1980, 173p., rus] **35-1798**

Tunnel problems put on ice
Tunnel problems put on ice [1980, p.32-33, eng] **35-1068**

Tupitsyn, N.M.
Selecting pavement structures for roads in West Siberian oil fields [1980, p.5-7, rus] **35-940**

Tur, V.M.
Using design schemes of pipelines built on elastic foundations in western Siberia [1980, p.21-23, rus] **35-2782**

Turalyov, K.G.
Village house for Central Yakutia [1980, p.3-5, rus] **35-459**

Turbina, M.I.
Changes in natural environments in one of the sections of a working gas pipeline in Central Yakutia [1980, p.31-36, rus] **35-3310**
Surface stability in the presence of industrial activities in permafrost areas [1980, 142p., rus] **35-2184**

Turenne, R.G.
Bituminous roofing membranes: practical considerations [1980, p.1-4, eng] **35-2319**

Turkina, O.S.
Structure and vegetational cover of peat deposits in hummocky swamps of the Pangoda River Basin [1980, p.67-71, rus] **35-500**

Turner, F.H.
Concrete and cryogenics, Part 2 [1980, p.31, eng] **35-251**

Turner, J.S.
Ice blocks melting into a salinity gradient [1980, p.367-384, eng] **35-1910**

Tushima, K.
Arctic sea ice research, 5: measurements of friction between sea ice and other materials [1978, p.141-161, jap] **35-1550**

Tushinskii, G.K.
Engineering geography of mountain regions: subject matter and current problems [1980, p.66-73, rus] **35-1439**

Tushinskii, G.N.
Common and proper features of the climatic regime of glaciers and their oscillations [1981, p.319-328, fre] **35-3742**

Tusima, K.
Experimental studies of snow accretion on electric lines by the use of a wind tunnel: growth of snow accretion under high wind speeds [1978, p.169-180, jap] **35-1184**

Tychino, N.IA.
Geothermal conditions of sedimentary mantle in the Siberian Platform [1980, p.5-13, rus] **35-1570**

Tyrtikov, A.P.
Protection of vegetational cover in permafrost areas [1980, p.14-18, rus] **35-1286**
Vegetation of the Ozernyy region in Central Yamal [1980, p.76-82, rus] **35-499**

U.S. Army Corps of Engineers
Building under cold climates and on permafrost, collection of papers from a U.S.-Soviet joint seminar, Leningrad, USSR [1980, 365p., eng] **35-1965**
Water resources development [1981, 52p., eng] **35-4010**

U.S. Army Corps of Engineers. Alaska District
Bank stabilization, Bethel, Alaska [1981, 63p. + appends., eng] **35-3812**

Draft environmental impact statement for World War II debris removal and cleanup, Aleutian Islands and Lower Alaskan Peninsula, AK [1979, 272p. + 1 Vol. of append., eng] **35-1816**

Final environmental impact statement, Prudhoe Bay Oil Field Waterflood Project [1980, 3 Vols., eng] **35-798**

Final supplemental environmental impact statement, Chena River Lakes Project [1980, 82p. + appends., eng] **35-132**

Prudhoe Bay Waterflood Project - A summary of the final environmental impact statement [1980, 27p., eng] **35-1166**

U.S. Coast Guard

Deep Freeze 1980 Cruise Report [1980, 72p., eng] **35-184**

Report of the International Ice Patrol Services in the north Atlantic Ocean, season of 1979 [1979, 64p., eng] **35-1759**

U.S. Department of Housin, ad Urban Development

Building under cold climate - d on permafrost, collection of papers from a U.S.-Soviet joint seminar, Leningrad, USSR [1980, 365p., eng] **35-1965**

U.S. General Accounting Office. Comptroller General

Lessons learned from constructing the Trans-Alaska oil pipeline - Report to the Congress of the United States [1978, 56p., eng] **35-2013**

Trans-Alaska oil pipeline operations: more federal monitoring needed - Report to the Congress of the United States [1981, 139p., eng] **35-3560**

U.S. Maritime Transportation Research Board. Committee on Maritime Services to Support Polar Resource Development

Maritime services to support polar resource development [1981, 78p., eng] **35-4042**

U.S. Naval Polar Oceanography Center

U.S. Navy-NOAA joint ice center seasonal outlook eastern Arctic ice 1981 [1981, 2 pieces (15 + 3p.), eng] **35-3769**

U.S. Naval Support Force, Antarctica

CNSFA Operation Order (OPORD) No.1-Yr [1980-1981] [1980, c. 100 leaves, eng] **35-328**

U.S. Navy. Fleet Weather Facility

Antarctic ice charts, 1977-1978 [1978, 105p., eng] **35-532**

U.S.-Soviet Joint Seminar on Building under Cold Climates and on Permafrost, Leningrad, June 24-29, 1979

Building under cold climates and on permafrost, collection of papers from a U.S.-Soviet joint seminar, Leningrad, USSR [1980, 365p., eng] **35-1965**

Uchvatov, V.P.

Physico-chemical characteristics of old and recent soils in the evaluation of landscape-chemical conditions of their formation [1980, p.152-154, rus] **35-2303**

Udin, I.

Numerical model for forecasting the ice motion in the Bay and Sea of Bothnia [1976, 40p., eng] **35-2056**

Sea Ice-75. Dynamical report [1976, 64p., eng] **35-531**

Ueda, H.T.

Investigation of the snow adjacent to Dye-2, Greenland [1981, 23p., eng] **35-3651**

Ufimtsev, G.F.

Geomorphology and neotectonics of mountain areas in the Far East [1977, 132p., rus] **35-57**

Ugarov, I.S.

Hydrothermal regime of cryogenic saline soils beneath forage crops with overhead irrigation [1980, p.47-53, rus] **35-3314**

Moisture regime of Central Yakutian soils with overhead irrigation [1980, p.53-59, rus] **35-3315**

Ukleba, K.K.

Snow deposits on the southern slope of the central Caucasus highlands, which undergoes intensive economic development [1980, p.83-98, rus] **35-3802**

Ulaby, F.R.

Radar observations of snowpacks [1980, p.131-146, eng] **35-1740**

Ulaby, F.T.

Circularly polarized measurements of radar backscatter from terrain and snow-covered terrain [1980, 78p. + appends., eng] **35-892**

Microwave radiometric observations of snowpacks [1980, p.187-201, eng] **35-1743**

Microwave remote sensing of snowpacks [1980, 404p., eng] **35-2929**

Radar spectral observations of snow [1981, p.654-668, eng] **35-3440**

Ulitskii, V.M.

Interaction of asbestos-cement pipelines with freezing and heaving soils [1980, p.73-16, rus] **35-783**

Ullerstig, A.

Numerical model for forecasting the ice motion in the Bay and Sea of Bothnia [1976, 40p., eng] **35-2056**

Ullidtz, P.

Fundamental method for prediction of roughness, rutting and cracking of pavements [1979, p.557-586, eng] **35-333**

Underwood, L.S.

Ecological research report: Volume 1: establishing a system for Alaska [1979, 36p. + map, eng] **35-4163**

Unni, S.

Acoustic fluctuations due to the temperature fine structure of the ocean [1981, p.676-680, eng] **35-2801**

Unterberger, R.R.

Microwave measurements of salt thickness [1980, p.331-347, eng] **35-558**

Upton, C.R.

Proceedings [1980, 440p., eng] **35-3081**

Urabe, N.

Fracture toughness of sea ice [1980, p.29-37, eng] **35-816**

Urban, N.W.

Land treatment systems and the environment [1979, p.201-225, eng] **35-2752**

Usachev, V.F.

Accuracy of mapping snow cover boundary in mountains from television images of the satellite "Meteor" (experimentation in the Stanovoy Highlands) [1980, p.35-43, rus] **35-2972**

Mapping snow cover on plains from satellite survey data [1980, p.21-29, rus] **35-2970**

Ushakov, B.I.

Concrete mixer SB-119 [1980, p.12, rus] **35-2622**

Ushakov, V.V.

Performance of continuously reinforced cement-concrete pavements under severe climatic conditions [1977, p.60-64, rus] **35-74**

Ushakova, L.A.

Mobile water phase on ice surfaces [1974, p.60-68, eng] **35-3628**

Ushakova, T.V.

Thermal balance of the active layer and its possible variations during inter/zonal redistribution of river flow [1980, p.107-109, rus] **35-3125**

Ushkov, F.V.

Construction thermodynamics (microclimate and thermal insulation of buildings) [1979, 133p., rus] **35-4055**

Usov, V.A.

Cryogenic lithogenesis under swamp conditions [1980, p.40-44, rus] **35-752**

Ust'-Ilim Lumber Industry Complex

Ust'-Ilim Lumber Industry Complex [1981, p.12-14, rus] **35-2848**

Utkin, V.I.

Earthwork under urban construction conditions [1981, 256p., rus] **35-3962**

Utusikov, IU.D.

Computational error during navigation among icebergs [1980, p.125-129, rus] **35-1464**

Uvarkin, IU.T.

Present state and dynamics of permafrost in West Siberia near its southern boundary [1980, p.106-112, rus] **35-1533**

Uyeda, H.

Atmospheric electrical observations of precipitation particles in the winter monsoon at Hokuriku District, Japan (Part I. Results at Unoke Town) [1979, p.31-48, eng] **35-513**

Size distribution of snowflakes and graupel particles observed in Nagaoka, Niigata Prefecture [1979, p.79-92, eng] **35-515**

Uzdin, A.M.

Evaluating seismic stability of bridges allowing for interaction between temporary loads, bridge spans and piers at longitudinal seismic oscillations [1980, p.27-40, rus] **35-145**

Vadnais, K.G.

Airborne snow survey using natural gamma radiation [1980, p.1-10, eng] **35-1161**

Operational airborne measurement of snow water equivalent using natural terrestrial gamma radiation [1980, p.97-106, eng] **35-2232**

Vaikmäe, R.A.

Relation between variations of the O-18/O-16 ratio and meteorological conditions in vertical profiles of warm glaciers [1981, p.25-30, rus] **35-3298**

Vainblat, V.Z.

Basic types of paluded spruce forests in Karelia [1980, p.78-99, rus] **35-1326**

Valendik, E.N.

Evaluating fire danger in taiga from microwave radiation [1980, p.14-19, rus] **35-3545**

Valiaev, V.N.

Prospects of increasing productivity of Karelian forests by introducing larch [1977, p.75-84, rus] **35-2692**

Valiavskii, V.I.

Concrete with combined chemical admixtures [1980, p.23-24, rus] **35-3007**

Valla, F.

Avalanche education for skiers [1980, p.105-107, eng] **35-2353**

Valler, F.I.

Aerial surveys for hydrometeorological provision of national economy branches in the northern Caspian Sea [1981, p.14-18, rus] **35-3935**

Vallese, F.

Correlation function studies for microwave remote sensing of snow and ice [1981, p.685-690, eng] **35-3443**

Van Buren, P.D.

Heat transfer during solidification around a cooled horizontal cylinder [1979, p.103-111, eng] **35-3353**

Van Cleve, K.

Biomass reserves of permafrost and non-permafrost ecosystems in the black spruce stands of interior Alaska [1979, p.28-36, rus] **35-4326**

Forest-floor nitrogen dynamics in a 60-year-old paper birch ecosystem in interior Alaska [1980, p.359-381, eng] **35-988**

Van den Berg, A.

Hand-held infrared systems for detecting roof moisture [1977, p.261-271, eng] **35-2494**

Van Etten, P.

Impulse radars [1980, p.421-437, eng] **35-564**

Van Hook, W.A.

Isotope effects in aqueous systems - II. Excess volumes in H2O-D2O mixtures - The apparent molar volume of NaCl in an H2O-D2O mixture [1980, p.2735-2740, eng] **35-995**

Vance, G.P.

Characteristics of ice in Whitefish Bay and St. Marys River during January, February and March 1979 [1980, 27p., eng] **35-488**

Clearing ice-clogged shipping channels [1980, 15p., eng] **35-2000**

Evaluation of ice deflectors on the USCG icebreaker *Polar Star* [1980, 37p., eng] **35-2595**

VanPelt, D.J.

Thermal diffusivity of frozen soil [1980, 30p., eng] **35-2603**

Varfolomeev, L.A.

Land reclamation effect on hydrophysical properties and biologic activity of bog soils in northern taiga [1980, p.44-51, rus] **35-957**

Varich, A.A.

Snow cover and its melting dates in the central part of Wrangel Island [1976, p.42-45, rus] **35-3828**

Varsta, P.

Long term measurements of ice pressure and ice-induced stresses on the icebreaker *Sisu* in winter 1978 [1979, 50p., eng] **35-4180**

Measurement and analysis of ice-induced stresses in the shell of an icebreaker [1977, 26p. + figs., eng] **35-4178**

On plastic design of an ice-strengthened frame [1978, 54p., eng] **35-4179**

Vartiainen, H.

Aspects of photogeological interpretation of Sokli carbonatite massif [1977, p.25-29, eng] **35-2721**

Vashchuk, I.M.

Earthwork under urban construction conditions [1981, 256p., rus] **35-3962**

Vashurkin, IU.B.

Construction of bulk plants and gasoline stations [1980, 332p. (Pertinent p.56-147), rus] **35-2873**

Vasilenko, E.V.

Peculiarities of radio echo sounding of mountain glaciers and the design of special instruments for glaciological investigations [1980, p.273-278, rus] **35-1259**

Vasilenko, N.G.

Water balance of small river watersheds in permafrost areas [1980, p.11-32, rus] **35-1792**

Vasil'ev, A.A.

Snowplow design and construction [1980, p.12-14, rus] **35-1023**

Vasil'ev, A.N.

Ecologic-geographic analysis of the *Mitella nuda* L. spruce forest in the northern foothills of eastern Sayan [1981, p.37-52, rus] **35-3892**

Vasil'ev, IU.M.

Forecasting and controlling soil moisture in roadbeds [1980, p.17-19, rus] **35-2637**

Vasil'ev, N.F.

Production of precast lightweight concrete elements for transportation construction [1981, p.20-23, rus] **35-2080**

Vasil'ev, S.V.

Trends in ice cover development in the Arctic Basin [1977, p.69-70, rus] **35-2425**

Vasil'ev, V.

Maintenance base of small units at the Baykal-Amur railroad [1980, p.63-66, rus] **35-494**

Vasil'eva, L.I.

Algae in subarctic tundra lakes in the "Pokhodsk" research station area [1980, p.92-104, rus] **35-288**

Vasil'eva, L.G.

Climatic regionalization of the Baykal-Amur railroad area and the adjacent regions of economic development [1980, p.3-15, rus] **35-1194**

Minimum air temperature regime in the Chara Basin area at different weather conditions [1980, p.43-54, rus] **35-1198**

Vasil'eva, M.P.

Treating earth with binders when laying pipelines on swamps [1980, p.23-24, rus] **35-313**

Vasilevich, V.I.

Bogs in the vicinity of Lake Segezhskoye (Southern Karelia) [1980, p.27-38, rus] **35-392**

Interrelations between the components of forest and swamp ecosystems in the central taiga of the Ural area [1980, 256p., rus] **35-3863**

Vasil'evskaia, V.D.

Elementary processes in cryogenic tundra soils [1980, p.28-29, rus] **35-2261**

Genetic characteristics of soils in a spotty tundra [1979, p.390-401, eng] **35-933**

Vasil'evskaia, V.D. *(cont.)*
Podsol formation in the residually-polygonal microrelief system of northern West Siberia [1980, p.94-101, rus] **35-501**
Soil formation in Central Siberian tundras [1980, 235p., rus] **35-1281**
Soils of Taymyr Peninsula [1980, p.8-16, rus] **35-1612**
Tundra and analogous soils [1981, p.139-179, eng] **35-2705**

Vasilevskii, A.I.
Double-blade snowplow DE-223 [1980, p.10, rus] **35-539**

Vasiliuk, V.A.
Changes in the cost of road construction in the Tyumen' petroleum producing area [1980, p.2-3, rus] **35-1030**

Vasiutina, L.G.
Morphostructural map of the central part of the Baykal Amur railroad area compiled from spaceborne photographic data [1979, p.56-63, rus] **35-777**

Vasserman, S.N.
Hydraulic models for studying temperature fields beneath embankments [1980, p.12-15, rus] **35-2779**

Vassilopoulos, L.
Longitudinal stiffness analyses for the propulsion shafting systems of the polar class icebreakers [1921, p.179-195, eng] **35-3561**

Vassoille, R.
Anomalous behaviour of Dome C ice core (East Antarctica) studied by mechanical damping measurements [1980, p.491-498, eng] **35-2887**

Vasilova, I.V.
Calculating ice melting currents according to the two wires-ground scheme [1979, p.40-44, rus] **35-607**

Vdovin, IU.I.
Water supply in populated areas of the North [1980, 133p., rus] **35-1577**

Vdovina, L.I.
Role of scientific-technical progress in development of natural resources of the North [1978, p.32-38, rus] **35-4112**

Vecherskii, S.S.
Magnitude of the gap between zero-isotherm depth and thicknesses of frozen layers in seasonally and perennially frozen grounds [1980, p.96-98, rus] **35-2284**

Vedenskaia, I.E.
Problems of the relations between climatic zones and exogenic relief formation [1978, p.9-21, rus] **35-12**

Vedrova, E.F.
Podsolization degree of soils in autonomous taiga landscapes [1980, p.104-128, rus] **35-303**

Velednitskii, IU.B.
Bulldozer-pusher DZ-121 with scraping equipment [1980, p.6-7, rus] **35-323**

Vel'iaots, K.O.
Thermal regime of surface waters in the subarctic zone of the Pacific Ocean [1980, 173p., rus] **35-1798**

Velichko, A.A.
Problems of Pleistocene paleogeography in glacial and periglacial regions [1981, 251p., rus] **35-3293**

Velikotskii, M.A.
Wedge-shaped deformations in alassy complexes [1979, p.172-182, rus] **35-1838**

Velkoff, H.R.
Experimental study of the thermal performance of a phase change material dispersed in a stone-like matrix [1979, p.127-133, eng] **35-3356**

Velli, Y.J.
Foundations on complex permafrost soils [1980, p.204-217, eng] **35-1977**

Venuti, G.
Prenormative study of thermal insulation defect types by infrared thermography [1980, p.1025-1032, eng] **35-3987**

Vepřek, J.
Electrical methods of measuring low temperatures [1980, 184p., cze] **35-3506**

Verevkin, S.I.
Improving the reliability of reservoirs, gas tanks and their equipment [1980, 288p., rus] **35-2440**

Verge, R.W.
Drift control [1981, p.630-647, eng] **35-3761**

Verity, P.H.
Small prototype cone tests, winter 1974-75 [1975, 95p. + appends., eng] **35-4214**

Verkholantseva, L.A.
Hydrothermal and physical properties of soils in green-moss pine forests and mixed conifer-foliate young growth of northern taiga [1971, p.51-53, rus] **35-2609**

Vertel'nikova, O.A.
Cylindrical sonde for measuring heat transfer coefficient of lightweight thermoinsulation materials [1979, p.111-117, rus] **35-4062**

Vesajoki, H.
Pre- and post-drainage development of the shore morphology and stratigraphy of Lake Höytiäinen, eastern Finland [1980, 30p., eng] **35-3209**

Vestal, J.R.
Oil spill effects [1980, p.388-406, eng] **35-1756**

Vetrov, IU.A.
Scraper with adjustable cutting angle [1981, p.20-21, rus] **35-2096**

Veyret, P.
Glaciers of the Mont Blanc massif (north slope) in 1978, 1979, 1980 [1981, p.385-391, fre] **35-3744**

Vialov, S.S.
Analysis of foundations in permafrost [1980, p.97-117, eng] **35-1974**
Calculating the strength and creep of artificially frozen grounds [1981, 199p., rus] **35-3932**
Industrial construction on frozen peat [1980, 144p., rus] **35-280**

Vinkina, L.IU.
Possibilities of stimulating thermokarst phenomena in the Baykal Amur railroad area [1978, p.103-104, rus] **35-18**

Vick, S.G.
Morphology and the role of landsliding in formation of some rock glaciers in the Mosquito Range, Colorado [1981, p.75-84, eng] **35-2459**

Viereck, L.A.
Effects of fire in Alaska and adjacent Canada - a literature review [1980, 124p., eng] **35-891**

Viksne, A.A.
Land reclamation in the non-chernozem zone in freezing weather [1981, p.22-24, rus] **35-3536**

Viktorov, S.V.
Results of studying geobotanical indices for engineering-geological and geocryologic purposes [1971, p.23-28, rus] **35-756**

Vikulov, M.A.
Characteristics of mining excavations in permafrost areas [1979, p.105-106, rus] **35-199**

Vil'danov, R.T.
Construction of underwater crossings for the Urengoy-Chelyabinsk gas pipelines [1980, p.34-35, rus] **35-315**

Vilesov, E.N.
Chemical composition and properties of Kazakhstan glacier meltwater [1980, p.162-166, rus] **35-1250**
Dependence of annual glacier ablation on mean summer air temperature [1980, p.101-104, rus] **35-719**

Vil'ner, A.D.
Gantry crane for repairing construction equipment at the Baykal Amur railroad [1981, p.21-22, rus] **35-2853**

Vincent, C.E.
Lewis Glacier (Mt. Kenya) and possible links tropical climate [1981, p.63-78, eng] **35-3022**

Vincent, D.G.
Estimation of small basin flood flows in the discontinuous permafrost zone [1979, p.229-238, eng] **35-416**

Vincent, J.-S.
Sakami moraine, Quebec: a 500-km-long moraine without climate control [1981, p.210-214, eng] **35-3138**

Vinje, T.E.
On the drift ice conditions in the Atlantic sector of the Antarctic [1979, p.75-82, eng] **35-164**
Some satellite-tracked iceberg drifts in the Antarctic [1980, p.83-87, eng] **35-2211**

Vinnikov, S.D.
Forecasting thermal regime variations in the Ob' Bay in relation to the planned first phase of flow diversion [1980, p.84-86, rus] **35-3118**

Vinogradov, B.V.
Studying wetland systems from multispectral satellite sensing data [1980, p.83-92, rus] **35-2978**

Vinogradov, E.S.
Calculation of compressed air flow for dock protection from drift ice [1979, p.42-45, rus] **35-320**
Experimental determination of the coefficient of drowned ice friction against ship's body in shipyard waters [1976, p.86-90, rus] **35-935**

Vinogradov, IU.B.
Classification of mudflow phenomena [1980, p.46-50, rus] **35-208**
Mudflows, No.4 [1980, 148p., rus] **35-203**
Transport and transport-shear types of mudflow processes [1980, p.3-19, rus] **35-204**
Transportation-shear mudflow process. A model with concentrated parameters [1980, p.10-12, rus] **35-1800**

Vinogradov, M.E.
Biology of the Central Arctic Basin [1980, 260p., rus] **35-1312**
Studying the pelagic zone ecosystem in the Central Arctic Basin [1980, p.5-14, rus] **35-1313**

Vinogradov, V.A.
Mudflow basins and foci in the Katun Range (Altai) [1980, p.82-85, rus] **35-455**
Mudflows in the Chuya "belki" (snow-covered, flattened mountain summits), Altai Mountains [1981, p.87-92, rus] **35-4304**

Vinogradova, N.
Extending the navigation period on rivers [1980, p.24-25, rus] **35-1606**

Vinokurov, IU.I.
Landscape indicators of engineering and hydrogeological conditions on plains east of Altai [1980, 191p., rus] **35-3229**

Vinsome, P.K.W.
Simple method for predicting cap and base rock heat losses in thermal reservoir simulators [1980, p.87-90, eng] **35-1070**

Vinson, T.S.
Dynamic properties of frozen silt under cyclic loading [1980, p.963-980, eng] **35-526**
Northern community: a search for a quality environment [1981, 786p., eng] **35-2496**

Vishniakova, Z.V.
Microbe successions in sedge pine forest soils of different ages [1980, p.130-144, rus] **35-2479**

Viskanta, R.
Heat transfer during solidification around a cooled horizontal cylinder [1979, p.103-111, eng] **35-3353**

Vital', A.D.
Relation of linear offshoot increments and leaves of Arctic plants to the course of temperature and rhythm of phenologic development [1980, p.97-104, rus] **35-1406**

Vitushkina, M.N.
Active-passive radio system for sounding sea ice [1980, p.23-26, rus] **35-364**

Vitvitskii, G.N.
Mean 500 millibar contour charts of the large-scale atmospheric processes (elementary circulation mechanisms of the northern hemisphere) [1980, 67p., rus] **35-3966**

Vivatrat, V.
Erosion prediction for exploration and production structures in the Arctic [1981, p.459-470, eng] **35-3453**
Ice force prediction using a limited driving force approach [1981, p.471-485, eng] **35-3454**

Vivian, R.
Common and proper features of the climatic regime of glaciers and their oscillations [1981, p.319-328, fre] **35-3742**
Nature of the ice-rock interface: the results of investigation on 20 000 sq m of the rock bed of temperate glaciers [1980, p.267-277, eng] **35-1821**

Vladimirov, A.M.
Minimum summer-fall discharge of rivers in the western part of the Baykal Amur railroad zone [1980, p.44-53, rus] **35-1794**

Vladychenskii, A.S.
Dynamics of chemical composition of soil solutions and lysimetric waters in spruce forests [1979, p.86-104, rus] **35-4121**
Microclimate and transpiration of soddy semipodsolic soils of Picea-Oxalis forests [1979, p.70-85, rus] **35-4120**

Vlasenko, V.I.
Seasonal dynamics of phytocenoses in the sub-Alpine baldpeak belt of West Sayan [1980, p.175-200, rus] **35-2483**

Vlasov, T.A.
Evaporation thermosiphons for heating stairs in pedestrian tunnels [1981, p.48-49, rus] **35-2090**

Vlasov, V.I.
Evaluation of regional scientific and technical progress based on a system of indices [1978, p.15-23, rus] **35-4110**

Vlasova, I.G.
Atmospheric circulation above the northern part of the Pacific Ocean [1979, p.121-125, rus] **35-4196**

Vodovozov, S.A.
Prospects of rational utilization of natural resources [1980, 113p., rus] **35-1423**

Voeikov, V.A.
Performance of continuously reinforced cement-concrete pavements under severe climatic conditions [1977, p.60-64, rus] **35-74**

Voelker, R.P.
Research priorities for Arctic ships [1979, p.571-581, eng] **35-181**

Voevoda, A.N.
Industrial construction on frozen peat [1980, 144p., rus] **35-280**

Vogel, E.A.
Effect of a heat-conducting well casing on temperature distribution in an observation well [1979, p.20-27, eng] **35-1113**

Vohra, C.
Mass balance of Gara Glacier and its relation to meltwater discharge for the years 1974-77 [1980, p.132-136, rus] **35-1243**

Voinilovich, N.A.
Modern technology of building cross-over poles [1980, p.57-61, rus] **35-603**

Voinov, G.N.
Assessing several characteristics of antarctic ice [1980, p.88-92, rus] **35-1458**

Voitkovskii, V.K.
Compiling avalanche cadasters for unexplored areas taking the eastern part of the Ketmen' Range as an example [1980, p.25-34, rus] **35-712**

Voitov, S.A.
Cost of foam-plastic covers preventing frost heave [1979, p.75-84, rus] **35-1626**

Vokes, F.M.
Geological, geophysical and geochemical investigations of the molybdenum-copper deposit at Langvatn, Setesdalsheiene, south-central Norway [1975, p.32-40, eng] **35-2736**

Volkodav, D.N.
Accelerated excavation of mine shafts under Far Northern conditions [1980, p.6, rus] **35-356**

Volkov, G.I.
Selecting foundations for power line supports allowing for the engineering-geological characteristics of South Yakutia [1981, p.46-49, rus] **35-2783**
Volkov, V.A.
Space distribution of mesoscale subsurface currents in the Amerasian subbasin of the Arctic Ocean [1980, p.752-754, rus] **35-1386**
Volkova, N.A.
Artificial crystallization of cloud water droplets on AgI and PbI particles [1980, p.47-50, rus] **35-1201**
Volkova, Z.V.
Energy interaction between reservoirs and the atmosphere [1980, p.151-173, rus] **35-1496**
Volkovitskii, O.A.
Scattering of light by ice crystals [1980, p.98-102, eng] **35-4158**
Volodin, E.S.
Empirical determination of matrices of light scattering in ice [1980, p.119-128, rus] **35-381**
Horizontal temperature gradients in ice [1980, p.153-157, rus] **35-383**
Voloshina, A.P.
Two-step multidimensional regression analysis and prediction of ablation rate on glacier surfaces [1980, p.92-98, rus] **35-1234**
Volotkovskii, V.S.
Low temperature performance of belt conveyors [1980, p.14-17, rus] **35-541**
Vorob'ev, I.V.
Periglacial formations of the northern part of the Yenisey Ridge and western part of the Siberian platform [1975, p.42-48, eng] **35-2400**
Vorob'ev, V.D.
Allowing for the properties of freezing soils when building trenches by blasting [1980, p.20-22, rus] **35-782**
Vorob'ev, V.V.
Interrelations among natural conditions, economic development and population in the Baykal Amur railroad construction zone [1975, p.13-18, rus] **35-792**
Vorob'eva, G.A.
Cryogenic phenomena in the Late Pleistocene deposits of southeastern Siberia and their influence on recent soils [1980, p.169-171, rus] **35-2307**
Voronina, L.V.
Zonal peculiarities of the hydrothermal regime of saline soils in southwestern Siberia [1980, p.67-68, rus] **35-2273**
Voronkevich, S.D.
Geochemical and physico-chemical aspects of fabric formation in soil stabilization using fly-ashes [1980, p.204-212, rus] **35-1354**
Voronkov, P.T.
Conference of young scientists, 3rd, Krasnoyarsk, 1971 Studies of the nature of Siberian forests [1972, 325p., rus] **35-1373**
Voronov, A.G.
Forecasting changes in landscapes, bio- and medico-geographic conditions due to changing river courses in the central region of the USSR [1980, p.82-89, rus] **35-1429**
Voronov, E.T.
Dust control during mining exploration in the North [1980, p.54-57, rus] **35-954**
Vorontsova, G.M.
Tests of driven piles in slump-prone soils under the effect of horizontal and elastic loads [1980, p.107-110, eng] **35-1385**
Vorotnikov, V.S.
Protecting embankment slopes from erosion along the Surgut-Urengoy line [1980, p.3-5, rus] **35-104**
Vorozhbitov, I.I.
Determining loci and dimensions of active soil erosion areas on aerial photographs [1980, p.108-111, rus] **35-2981**
Voskovshchuk, G.I.
Equipment for chemical soil stabilization [1980, p.21-22, rus] **35-1028**
Voskresenskii, A.I.
Structure of recent fluctuations in climatic conditions of the Arctic [1980, p.57-62, rus] **35-3050**
Vosteen, B.
Recycling of milled asphalt as a frost protection material [1981, p.130-140, ger] **35-3919**
Vostokova, E.A.
Using space information in swamp protection and melioration [1980, p.159-167, rus] **35-1447**
Vostretsov, R.N.
Drilling experiments with drilling fluids [1980, p.119-123, rus] **35-2045**
Vostrikova, N.V.
Forecasting mountain river runoff from satellite data (upper course of the Ob' and Yenisey rivers) [1980, p.52-58, rus] **35-2974**
Forecasting spring runoff in the Upper Ob' and Upper Yenisey river basins from satellite information [1980, p.26-30, rus] **35-3043**
Redistribution and preservation of water resources in Siberia [1980, p.76-81, rus] **35-1428**
Using space survey data in forecasting flooding of mountain rivers [1980, p.20-26, rus] **35-3546**
Vovk, A.A.
Mechanical properties of frozen soils under dynamic loads [1980, p.64-69, eng] **35-497**
Rock blasting under complicated mining and geological conditions [1980, 358p. (Pertinent p.144-197), rus] **35-2686**
Vowinckel, E.
Meteorological consequences of natural or deliberate changes in the surface environment [1980, p.87-110, eng] **35-1008**
Vrachev, V.V.
Differentiated evaluation of frozen ground strength [1980, p.73-80, rus] **35-1389**
Influence of freeze drying on the strength of frozen clays of various mineral compositions [1976, p.72-75, eng] **35-2406**
Vsesoiuznaia konferentsiia po prognozu izmenenii kriogennykh pochv pod vliianiem khoziaistvennogo osvoeniia territorii, Pushchino, Oct. 29-31, 1980
All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct. 29-31, 1980 Abstracts [1980, 203p., rus] **35-2251**
Vsesoiuznoe nauchnoe soveshchanie po khimii nizkikh temperatur, Moscow, Nov. 28-29, 1979
All-Union scientific conference on chemistry of low temperatures, Moscow, Nov.28-29, 1979, Abstracts [1979, 90p., rus] **35-1272**
Vsesoiuznoe soveshchanie Klimat, rel'ef i deiatel'nost' cheloveka, Kazan', 1978
All-Union conference on climate, relief and human activities Abstracts of the papers, Pt 1 [1978, 155p., rus] **35-11**
Vsesoiuznoe soveshchanie Priroda Arktiki v usloviiakh mezhzonal'nogo pereraspredeleniia vodnykh resursov, Leningrad, Nov. 15-17, 1980
All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers [1980, 147p., rus] **35-3103**
Vsesoiuznyi simpozium Fizicheskie osnovy izmeneniia sovremennogo klimata, Moscow, Apr. 23-25, 1979
All-Union symposium on physical bases of recent climatic changes, Moscow, Apr 23-25, 1979, Vol 1 [1980, 108p., rus] **35-3049**
Vtiurin, B.
"Edoma": problems and puzzles [1980, p.265-271, rus] **35-3232**
Vtiurin, B.I.
Cryogenic structure of Yakutian permafrost as a basis for long-range engineering-geological forecasts [1980, p.50-57, rus] **35-2190**
Glaciological and geocryological field studies on King George Island during the 25th Soviet antarctic Expedition [1980, p.30, rus] **35-2811**
Principles of classification of lithocryogenic processes and phenomena [1980, p.13-22, rus] **35-950**
Vtiurina, E.A.
Principles of classification of lithocryogenic processes and phenomena [1980, p.13-22, rus] **35-950**
Vuorio, J.
Long term measurements of ice pressure and ice-induced stresses on the icebreaker *Sisu* in winter 1978 [1979, 50p., eng] **35-4180**
Vychuzhanina, M.V.
Ice nuclei concentrations measured from helicopters [1980, p.133-137, rus] **35-26**
SALIA-1 cloud chamber designed by the Central Aerological Observatory for airborne measurements of ice nuclei concentration [1980, p.123-127, rus] **35-24**
Vykhristiuk, M.M.
Plant climate in shore forests north of Lake Baykal [1980, 215p., rus] **35-1372**
Vyrkin, V.B.
Glacial and morphoclimatic indices of the Baykal Highlands [1980, p.113-118, rus] **35-3479**
Nivation and the formation of nival niches in bald mountains of North Transbaikal and the Baykal Lake area [1978, p.152-154, rus] **35-21**
Physical weathering of rocks and microclimate near snow fields of bald mountains in the Lake Baykal and northern Transbaikal areas [1980, p.101-107, rus] **35-3472**
Vysotskii, V.IU.
Developing means of transporting super-blocks [1981, p.11-12, rus] **35-3342**
Wang, C.J.
Folds in firn [1981, p.268-273, eng] **35-3688**
Wada, M.
Airborne radio echo sounding on the Shirase Glacier and its drainage basin, East Antarctica [1981, p.16-25, eng] **35-4221**
Glaciological data collected by the Japanese Antarctic Research Expedition from February 1979 to January 1980 [1981, 43p., eng] **35-3599**
POLEX-South data, Part 2 Micrometeorological data at Mizuho Station, Antarctica in 1979 [1981, 321p., eng] **35-3598**
Wadhams, P.
Analysis of the ice profiles obtained by submarine sonar in the Beaufort Sea [1980, p.401-414, eng] **35-1504**
Estimation of sea ice thickness from the distribution of pressure ridge heights and depths [1980, p.53-75, eng] **35-548**
Field experiments on antarctic tabular icebergs [1981, p.445-448, eng] **35-4342**
Flexural response of a tabular ice island to ocean swell [1980, p.23-27, eng] **35-2200**
Oil and ice in the Beaufort Sea, the physical effects of a hypothetical blowout [1980, p.23-35, eng] **35-1114**
Recent developments in strainmeter design [1980, p.97-125, eng] **35-3840**
Wagner, H.P.
Radiation balance at the equilibrium line of Hintereisfernet (Oetztal Alps), 1971 [1980, p.104-107, rus] **35-1236**
Wagstaff, J.
Search for cometary dust in the antarctic ice [1980, p.78-79, eng] **35-3184**
Wakabayashi, R.
Forest cutting and avalanches on heavy snow slopes [1981, p.15-20, jap] **35-4203**
Wakahama, G.
Ablation study on the Yukikabe snow patch in the Daisetsu Mountains [1981, p.97-100, jap] **35-4268**
Boring core of ice taken from beneath the soil of a landslide [1978, p.179-180, jap] **35-1555**
Distribution and process of accumulation and ablation of snow on the west slope of Mt Asahidake, Hokkaido [1978, p.1-12, jap] **35-1537**
Experimental studies of snow accretion on electric lines by the use of a wind tunnel growth of snow accretion under high wind speeds [1978, p.169-180, jap] **35-1184**
Observations on depositional and melting processes of snow at different altitudes of Mt Teine, Hokkaido [1978, p.47-54, jap] **35-1539**
Relationships between snow distribution and climate in mountain areas [1981, p.109-118, eng] **35-3024**
Wakonigg, H.
Verifying measurements in the Pasterze Glacier area (Glockner group) in 1979 [1979, p.247-251, ger] **35-3734**
Walden, J.T.
Design and construction of sea ice roads in the Alaskan Beaufort Sea [1981, p.135-140, eng] **35-3449**
Walker, B.D.
Tundra and analogous soils [1981, p.139-179, eng] **35-2705**
Walker, D.A.
Geobotanical atlas of the Prudhoe Bay region, Alaska [1980, 69p., eng] **35-2150**
Late Holocene and present-day vegetation, Prudhoe Bay and Atigun River, Alaskan arctic slope [1981, p.153-172, eng] **35-4089**
Prudhoe Bay, Alaska, USA [1981, p.776-777, eng] **35-3401**
Walsh, J.E.
Review of techniques for measuring soil moisture *in situ* [1980, 17p., eng] **35-976**
Walter, B.A.
Wintertime observations of roll clouds over the Bering Sea [1980, p.2024-2031, eng] **35-3648**
Wang, C.
Icebergs [1979, p.82-83, chi] **35-2909**
Institute of Low Temperature Science, Hokkaido University [1980, p.62 + figs., chi] **35-93**
Remote measuring and auto-recording of ground temperature [1980, p.7-9, chi] **35-2650**
Why does the road turn to melting [1979, p.81, chi] **35-2908**
Wang, D.
Principle of railway line selection in alpine permafrost regions [1981, p.278-287, eng] **35-2509**
Wang, H.
Chiao-li-feng Peak and its glacier [1979, p.72-76, chi] **35-2906**
Wang, J.
Active layer at the south foot of Tanggula Shan [1980, p.19-24, chi] **35-121**
Application of microwave range in the surveying of glaciers and permafrost on Qingzang Plateau [1980, p.56-60, chi] **35-2669**
Preliminary experimental study on the instantaneous strength of frozen sand [1980, p.37-40, chi] **35-86**
Wang, L.
Analysis of property of temperature measuring crystal [1980, p.28-29, chi] **35-2658**
Primary results of the study on modern glaciers in the region of Mt Tuomuer [1980, p.15-18, chi] **35-2912**
Systems of data transfer and measurement in radio telemetry station on glacier [1980, p.3-7, chi] **35-2649**
Wang, P.
Trace element content in snow and ice samples of west Qongtailan Glacier, Mt Tuomuer [1980, p.77-79, chi] **35-2677**
Wang, P.K.
Theoretical determination of the efficiency with which aerosol particles are collected by simple ice crystal plates [1980, p.1628-1638, eng] **35-485**
Theoretical study of the effect of electric charges on the efficiency with which aerosol particles are collected by ice crystal plates [1980, p.44-56, eng] **35-1676**

Wang, R.
Preliminary application of pollen analysis method to the research of annual layer of glaciers [1980, p.87-90, chi] **35-2680**

Wang, S.
Application of airphoto in the study of periglacial geomorphic dynamics [1980, p.72-73, chi] **35-2675**
Preparation of synthetic image map of permafrost in the north of Tuo-Tuo River [1980, p.70-71, chi] **35-2674**

Wang, S.B.
Mineral insulation - a critical study [1980, 25p., eng] **35-2165**

Wang, T.
Historical Mu-chia-erh-te Glacier valley and east-west communication [1979, p.22-26, chi] **35-2898**

Wang, W.
Analysis of property of temperature measuring crystal [1980, p.28-29, chi] **35-2658**
Forecasting the change of Batura Glacier this and next centuries [1980, p.191-207, chi] **35-4039**
Measurements and analysis on the ice movement of Batura Glacier [1980, p.28-41, chi] **35-4028**
New stage in the development of measuring and testing technique in glaciology and cryopedology [1980, p.1-2, chi] **35-2648**
Recent situation of Baltbare surging glacier, Pakistan [1980, p.26-31, chi] **35-84**
Terrestrial stereophotogrammetric surveying and mapping in the region of Mt. Qomolangma, the Batura Glacier in Karakoram [1980, p.22-28, chi] **35-2914**

Wang, Y.
Cartographic methods of the map of Batura Glacier [1980, p.221-228, chi] **35-4041**

Wang, Z.
Method of observing and determining the mass balance of continental glaciers in China [1980, p.48-51, chi] **35-2666**

Warburton, J.A.
Enhanced enrichment of metals in precipitation on Ross Ice Shelf [1979, p.75-76, eng] **35-656**
Heavy metal enrichment in antarctic snow and firn [1979, p.76-78, eng] **35-657**
Meteorological and seasonal effects of snow chemistry of Ross Ice Shelf, Antarctica [1981, p.17-37, eng] **35-4147**
Radar reflectivity and precipitation rate studies at Palmer Station and Faraday Base [1979, p.212-213, eng] **35-680**
Temporal variations and correlations in the chemistry of snow on Ross Ice Shelf [1979, p.72-74, eng] **35-655**
Time-related changes in snow chemistry - Ross Ice Shelf, Antarctica [1981, p.27-39, eng] **35-2416**

Ward, C.A.
Water monomer on the prism face of ice and above a four layer ice basal face ledge: an effective pair potential model [1981, p.1991-1995, eng] **35-4155**

Ward, D.S.
Solar air heating systems for high latitude cold climates using evacuated tubular solar collectors [1980, p.40-53, eng] **35-1970**

Ward, L.G.
Coastal morphology, sedimentation and oil spill [illegible]erability of the outer Kenai Peninsula and Montague Island [1980, p.5-13, eng] **35-1151**

Ward, R.G.W.
Avalanche hazard in the Cairngorm Mountains, Scotland [1980, p.31-41, eng] **35-2345**

Wardle, P.
Engelmann spruce (*Picea engelmannii* Engel.) at its upper limits on the Front Range, Colorado [1968, p.483-495, eng] **35-1903**

Waring, E.A.
Snowmelt and water equivalent guage for British conditions [1980, p.129-134, eng] **35-484**

Warman, J.M.
Electron solvation in crystalline ice on a subnanosecond timescale [1981, p.43-46, eng] **35-4013**
Proton mobility in ice [1980, p.465-467, eng] **35-1370**

Warner, G.
Measurement of surface strain rate in glaciers using embedded wire strain gages [1974, p.24-28, eng] **35-4319**

Warren, A.
Nature of fluid motion [1979, p.39-72, eng] **35-1685**

Warren, S.G.
Model for the spectral albedo of snow. I: Pure snow [1980, p.2712-2733, eng] **35-2717**
Model for the spectral albedo of snow. II: Snow containing atmospheric aerosols [1980, p.2734-2745, eng] **35-2718**
Spectral albedo of snow: effects of age, depth, cloud cover, sun angle, and impurities [1980, p.68-71, eng] **35-2228**

Warshaw, M.
Experiment on the sensitivity of a global circulation model [illegible] climatic dynamics for environmental research [1972, 26p., eng] **35-3465**

Wartho-Clark, J.
Satellite observation of Great Lakes ice: winter 1978-79 [1980, 36p., eng] **35-3409**

Wartsila's new icebreaking laboratory
Wartsila's new icebreaking laboratory [1981, p.176, 179, eng] **35-3694**

Washburn, A.L.
Focus on polar research [1980, p.643-652, eng] **35-250**

Washington (State). University. Department of Atmospheric Sciences
Annual report No.12, Contract N00014-76-C-0234, NR 307-252 [1980, 26p., eng] **35-2055**

Washington, W.M.
General circulation experiment with a coupled atmosphere, ocean and sea ice model [1980, p.1887-1908, eng] **35-2472**

Wastewater treatment ponds
Wastewater treatment ponds [1975, 21p. + appends., eng] **35-2862**

Watanabe, S.
Forest cutting and avalanches on heavy snow slopes [1981, p.15-20, jap] **35-4203**
Inclination of young broad-leaved trees caused by snow accretion [1980, p.27-31, jap] **35-3661**
Method for measuring snow gliding [1976, p.196-197, jap] **35-262**

Watanabe, Z.
Tensile strain and fracture of snow [1980, p.255-262, eng] **35-2368**

Wate, A.
Ice transport in Great Lakes [1979, 275p., eng] **35-1773**

Water fights snow for bullet trains; automated sprinklers clear tracks
Water fights snow for bullet trains, automated sprinklers clear tracks [1981, p.25, eng] **35-2941**

Waterman, S.E.
Evaluation of the spatial and temporal distributions of snowpack parameters in the Saint John River basin [1980, p.19-35, eng] **35-3144**
Modelling of shortwave radiation for snow covered terrain [1980, p.144-158, eng] **35-3154**

Watson, R.A.
Landform development on moraines of the Klutlan Glacier, Yukon Territory, Canada [1980, p.50-59, eng] **35-3717**

Watte, C.
Forecasting ice conditions on the Saguenay River (Quebec) [1979, p.185-196, fre] **35-412**

Watts, J.S.
New rig for ice platform drilling [1981, p.41-44, eng] **35-1960**

Wear bars save downtime dollars; at the St. Louis airport, tungsten carbide pads added an extra season to snowplow blades
Wear bars save downtime dollars; at the St. Louis airport, tungsten carbide pads added an extra season to snowplow blades [1980, p.53, eng] **35-1954**

Weather from the ends of the earth
Weather from the ends of the earth [1978, p.38-46, eng] **35-402**

Weaver, F.M.
Sedimentation on the Antarctic continental slope [1979, p.265-283, eng] **35-327**

Webb, P.N.
Scallop Hill Formation and associated Pliocene marine deposits of southern McMurdo Sound [1979, p.54-56, eng] **35-645**

Webber, P.J.
Biophysical processes and primary production [1980, p.66-101, eng] **35-1932**
Coastal tundra at Barrow [1980, p.1-29, eng] **35-1930**
Geobotanical atlas of the Prudhoe Bay region, Alaska [1980, 69p., eng] **35-2150**
Late Holocene and present-day vegetation, Prudhoe Bay and Atigun River, Alaskan arctic slope [1981, p.153-172, eng] **35-4089**
Niwot Ridge, Colorado, USA [1981, p.780-782, eng] **35-3403**
Two low Arctic vegetation maps near Atkasook, Alaska [1980, p.447-472, eng] **35-3199**
Vegetation pattern and succession [1980, p.187-218, eng] **35-1935**
Vegetation succession and recovery of old oil wells on the Alaskan North Slope [1980, p.38-64, eng] **35-580**

Weeden, R.
Eagle Summit, Alaska, USA [1981, p.779-780, eng] **35-3402**

Weeks, W.F.
"Pack ice and icebergs" : report to POAC 79 on problems of the seasonal sea ice zone: an overview [1979, p.320-337, eng] **35-178**
Iceberg water: an assessment [1980, p.5-10, eng] **35-2197**

Weertman, J.
Paleoclimate model of Northern Hemisphere ice sheets [1981, p.126-142, eng] **35-3676**

Weil, H.
Scattering and absorption by thin flat aerosols [1980, p.2066-2071, eng] **35-2409**

Weiser, J.R.
Modeling hydrologic impacts of winter navigation [1981, p.1073-1080, eng] **35-4166**

Welch, M.L.
Oceanographic measurements in the Chukchi Sea, April-August 1977 [1979, 131p., eng] **35-1581**

Welch, R.
Morphometric analyses of antarctic cirques from photogrammetric measurements [1981, p.41-53, eng] **35-4019**

Wellen, E.W.
Sublimation and its control in the CRREL permafrost tunnel [1981, 12p., eng] **35-3736**

Weller, G.
Final technical development plans, Arctic Beaufort Sea (Joint Federal State Sale), Beaufort Sea (Sale No.71), Chuckchi Sea (Sale No.85), Hope Basin (Sale No.86) - Fiscal Year 1981 [1980, 166p., eng] **35-2018**
Spatial and temporal variations in the south polar surface energy balance [1980, p.2006-2014, eng] **35-3646**
United States Arctic science policy [1981, 62p., eng] **35-3738**

Wellman, P.
Glaciation, erosion and uplift over part of East Antarctica [1981, p.142-144, eng] **35-3367**

Wen, B.
Frozen soil and ground water [1980, p.21, chi] **35-82**

Wendler, G.
Multiple reflection effects on irradiance in the presence of Arctic stratus clouds [1981, p.2049-2057, eng] **35-3276**

Wennevirta, H.
Sampling of the till-bedrock interface in geochemical exploration [1973, p.67-71, eng] **35-2744**

Wenying, W.
Research on snow cover in China and the avalanche phenomena of Batura Glacier in Pakistan [1980, p.25-30, eng] **35-2344**

Wesley, R.
Dry ash handling system in cold climate conditions [1981, p.493-506, eng] **35-2520**

Western Snow Conference
Proceedings of the 48th annual meeting [1980, 137p., eng] **35-2220**

Westerstrom, G.
Runoff from a surface study plot [1979, 12p., eng] **35-3629**

Westerveld, J.
Simple method for predicting cap and base rock heat losses in thermal reservoir simulators [1980, p.87-90, eng] **35-1070**

Wetzel, V.F.
Potential schemes for offshore Labrador year round production [1980, p.293-305, eng] **35-3631**

Weyer, P.
Protective measures for engineering concrete structures against the influence of humidity, frost and salt [1980, p.173-177, ger] **35-567**

Whalley, E.
Scheiner's halo: evidence for ice Ic in the atmosphere [1981, p.389-390, eng] **35-4249**

Whalley, W.B.
Rock glaciers and their formation as part of a glacier debris-transport system [1974, 60p., eng] **35-1160**

Whatmough, R.G.
Fire protection in isolated northern communities [1980, p.234-236, eng] **35-2120**

Whillans, I.M.
Glaciology of dome C area [1979, p.100-101, eng] **35-671**
Reaction of the accumulation zone portions of glaciers to climatic change [1981, p.4274-4282, eng] **35-3913**
Total gas content of ice and past changes of the northwest Greenland ice sheet [1981, p.235-237, eng] **35-3034**

Whinnery, R.
Radar reflectivity and precipitation rate studies at Palmer Station and Faraday Base [1979, p.212-213, eng] **35-680**

Whitaker, T.M.
Morphology and chemical composition of natural population of an ice-associated antarctic diatom *Navicula glaciei* [1980, p.250-257, eng] **35-1285**

White, C.M.
Breeding of Say's Phoebe in Arctic Alaska [1973, p.360-361, eng] **35-4008**

White, J.E.
Prediction of growth parameters of frost deposits in forced convection [1981, p.3-6, eng] **35-2145**

White, R.
Cape Spirit mirabilite beds [1979, p.50-52, eng] **35-642**
Forest-floor nitrogen dynamics in a 60-year-old paper birch ecosystem in interior Alaska [1980, p.359-381, eng] **35-988**

White, R.G.
Habitat preference and forage consumption by reindeer and caribou near Atkasook, Alaska [1980, p.511-529, eng] **35-3203**
Herbivore based trophic system [1980, p.338-410, eng] **35-1939**
Herbivory: a strategy of tundra consumers [1981, p.359-375, eng] **35-3385**
[illegible] and nutrient digestibilities of reindeer and caribou forages [1980, p.613-622, eng] **35-848**
Ungulates on arctic ranges [1981, p.397-483, eng] **35-3387**

White, S.E.
Alpine mass movement forms (noncatastrophic): classification, description, and significance [1981, p.127-137, eng] **35-4087**

Whiteley, H.R.
Storm runoff delays induced by snow and ice on agricultural watersheds in southern Ontario [1979, p.356-379, eng] **35-423**

Whiteside, M.C.
Limnology of the Klutlan moraines, Yukon Territory, Canada [1980, p.130-148, eng] **35-3721**
Paleolimnology of two lakes in the Klutlan Glacier region, Yukon Territory, Canada [1980, p.149-168, eng] **35-3722**

Whiting, E.H.
Effects of off-road vehicle traffic on soils and vegetation in the Denali Highway region of Alaska [1978, p.20-27, eng] **35-1162**

Whitman, R.R.
Stratigraphy and glacial-marine sediments of the Amerasian basin, central Arctic Ocean [1980, 57p. + maps, eng] **35-1844**

Whitten, K.R.
Effects of the Trans-Alaska pipeline on caribou movements [1980, 16p., eng] **35-3923**

Whittick, J.A.
Offshore engineering information sources [1980, 34p., eng] **35-1879**

Whyman, A.D.
Advanced northern utility piping system [1981, p.425-437, eng] **35-2516**
Pre-insulated high density polyethylene piping - the evolution of a northern achievement [1980, p.187-220, eng] **35-2117**

Whyte, A.V.
Appropriate technologies for water supplies and sanitation in northern communities [1980, p.121-135, eng] **35-2113**

Wiegand, R.C.
Wintertime temperature inversion in Kootenay Lake, British Columbia [1981, p.2024-2034, eng] **35-3275**

Wielgolaski, F.E.
Nutrients in tundra ecosystems [1981, p.647-683, eng] **35-3395**
Primary production of tundra [1981, p.187-225, eng] **35-3380**
Tundra plant structure and production in relation to the environment [1980, p.23-30, eng] **35-486**

Wierum, F.A.
Liquid spray cooling of a heated surface [1981, p.261-271, eng] **35-3271**

Wiese, W.
Polar ice and atmospheric fluctuations [1981, 22p., eng] **35-2050**

Wiesnet, D.R.
New data base for climate studies [1981, p.451-456, eng] **35-2074**

Wilcox, D.E.
Geohydrology of the Delta-Clearwater area, Alaska [1980, 26p., eng] **35-1896**

Wildberger, A.
Hydrogeology of karst in the Rawil region [1981, 175p. + maps, ger] **35-4162**

Wilkie, D.I.
Dome's "kick tolerance" formula for safe Beaufort Sea drilling [1981, p.33-36, eng] **35-3277**

Willand, J.H.
Snow hydrology studies using data from the Heat Capacity Mapping Mission [1981, p.1211-1217, eng] **35-3594**

Williams, G.A.
1979 Undergraduate Research Participation program, Juneau icefield, Alaska and the Atlin region, B.C.-Yukon, Canada - Final report [1980, 34p., eng] **35-2017**

Williams, G.P.
Drift control [1981, p.630-647, eng] **35-3761**
Thermal methods of control [1981, p.613-629, eng] **35-3760**

Williams, K.
Credibility of avalanche warnings [1980, p.93-96, eng] **35-2351**

Williams, P.J.
Final report - investigation of thermally actuated water migration in frozen soils to the Department of Energy, Mines and Resources Earth Physics Branch [1980, 74p., eng] **35-2317**
Thermally induced water migration in frozen soils [1980, p.101-109, eng] **35-725**

Williams, R.B.G.
Weathering of sandstone by the combined action of frost and salt [1981, p.1-9, eng] **35-2338**

Williams, R.M.
Turbulent heat flux from Arctic leads [1979, p.57-91, eng] **35-159**

Wilson, E.A.
Circularly polarized measurements of radar backscatter from terrain and snow-covered terrain [1980, 78p. + appends., eng] **35-892**

Wilson-Fahmi, R.F.
Tension resistant inclusions in soils [1980, p.1313-1326, eng] **35-1494**

Wilson, J.A.
Summary of snow survey measurements for Idaho and pertinent measurements in Montana, Wyoming, Utah and Nevada [1980, 393p., eng] **35-1843**

Wilson, N.W.
Melting of a vertical ice wall by free convection into fresh water [1981, p.13-17, eng] **35-2147**

Wilson, S.C.
Pedology of the Darwin Glacier area [1979, p.58-59, eng] **35-647**

Winer, A.A.
Mineral insulation - a critical study [1980, 25p., eng] **35-2165**

Winslade, J.W.
Land application of sludge [1981, p.8-9, eng] **35-1692**

Winsor, W.D.
Cruise report of ice feature observations from the *CCGS Franklin*, summer 1979 [1980, 104p., eng] **35-3701**

Winter maintenance
Winter maintenance [1980, p.10-15, eng] **35-1262**

Winter maintenance of road pavements
Winter maintenance of road pavements [1980, p.12-25, eng] **35-529**

Winter Olympics will open with assist by two midwest machine manufacturers
Winter Olympics will open with assist by two midwest machine manufacturers [1980, p.32-34, eng] **35-2933**

Winter salt prospects improved; more barges will aid stockpiling
Winter salt prospects improved; more barges will aid stockpiling [1980, p.18-22, eng] **35-2935**

Winterize equipment for best performance
Winterize equipment for best performance [1980, p.51-57, eng] **35-1876**

Winterize equipment to conserve fuel, improve operation
Winterize equipment to conserve fuel, improve operation [1980, p.53, eng] **35-2137**

Winters, W.J.
Environmental geology of Shelikof Strait, OCS state area 60, Alaska [1981, p.19-34, eng] **35-3456**

Wintertime deicing: let the pavement do the work
Wintertime deicing: let the pavement do the work [1980, p.37-40, eng] **35-524**

Wiscombe, W.J.
Model for the spectral albedo of snow. I: Pure snow [1980, p.2712-2733, eng] **35-2717**
Model for the spectral albedo of snow. II: Snow containing atmospheric aerosols [1980, p.2734-2745, eng] **35-2718**
Spectral albedo of snow: effects of age, depth, cloud cover, sun angle, and impurities [1980, p.68-71, eng] **35-2228**

Wise, J.L.
Superstructure icing in Alaskan waters [1980, 30p., eng] **35-3791**
Superstructure icing study [1980, 10p. + figs., eng] **35-2582**

Wiseman, W.J.
Temporal and spatial variability of ice-foot morphology [1981, p.69-80, eng] **35-4021**

Wisler, M.M.
Measurement of the microwave properties of sea ice at 90 GHz and lower frequencies [1981, p.4283-4289, eng] **35-3914**

Wisniewski, E.
Relief of the marginal zone of the Torell Glacier (Austre Torell) in terms of its recession (SW Spitsbergen) [1977, p.37-62, eng] **35-3621**

Witherspoon, D.F.
Hydraulic resistance of the ice cover in the International Rapids section of the St. Lawrence River [1981, p.79-93, eng] **35-2544**

Woeste, F.E.
Independent roof sections for long buildings to resist snow loads [1980, p.968-972, eng] **35-2411**

Wold, B.
Airborne radio echo sounding of glaciers in Svalbard [1980, p.261-266, eng] **35-943**
Supra-glacial lakes in Spitsbergen [1980, p.89-92, eng] **35-254**

Wolfe, B.R.
Relationship between a lake ice and snowcover and zooplankton distribution [1980, p.133-148, eng] **35-46**
Role of the lake winter cover in the phosphorous budget of a southern Ontario lake [1980, p.170-178, eng] **35-3156**

Wolff, E.W.
Trace metals in remote Arctic snows: natural or anthropogenic [1980, p.574-576, eng] **35-1218**

Wolgemuth, C.H.
Investigation of a two-phase, moving boundary system, with convection at the solid-liquid interface [1979, p.112-119, eng] **35-3354**

Wolkomir, R.
Waging war against the cold is the job of a unique Army lab [1981, p.103-111, eng] **35-1815**

Wong, C.S.
Baseline data on chemical oceanography in the southern Beaufort Sea, 1974-5 [1980, 51p., eng] **35-2946**

Wong, Y.F.
Influence of channel cross-section on the regime of streams in winter [1979, p.164-174, eng] **35-410**

Woo, M.
Annual water balance of small high Arctic basins [1979, p.536-546, eng] **35-432**
Modelling basin snow storage in a high Arctic environment [1979, p.206-216, eng] **35-414**

Woo, M.-K.
Hydrology of a small lake in the Canadian high Arctic [1980, p.227-235, eng] **35-1664**
Occurrence of ice layers at the base of high arctic snowpacks [1981, p.225-230, eng] **35-4095**

Wooding, F.J.
Effects of off-road vehicle traffic on soils and vegetation in the Denali Highway region of Alaska [1978, p.20-27, eng] **35-1162**
Land application of sludge [1981, p.8-9, eng] **35-1692**

Woodruff, F.
Miocene stable isotope record: a detailed deep Pacific Ocean study and its paleoclimatic implications [1981, p.665-668, eng] **35-3137**

Woodward-Clyde Consultants
Gravel removal guidelines manual for Arctic and Subarctic floodplains [1980, 169p., eng] **35-797**
Gravel removal studies in Arctic and Subarctic floodplains in Alaska [1980, 403p., eng] **35-1997**

Wootton, K.G.
Summary of snow survey measurements for Idaho and pertinent measurements in Montana, Wyoming, Utah and Nevada [1980, 393p., eng] **35-1843**

Workshop on Hydraulic Resistance of River Ice, Burlington, Ontario, Sep.23-24, 1980
Proceedings [1981, 301p., eng] **35-2539**

Workshop on Research in the Labrador Coastal and Offshore Region, Goose Bay, Labrador, Sep. 4-6, 1980
Proceedings [1980, 410p., eng] **35-3090**

Workshop on Sea Ice Field Measurement, St. John's, Newfoundland, Apr. 29-May 1, 1980
Proceedings [1980, 360p., eng] **35-3835**

Workshop on the Behaviour of Oil, Ice and Gas, Toronto, Canada, Oct. 10-11, 1979
Oil, ice and gas [1980, 169p., eng] **35-3867**

Workshop on the Microwave Remote Sensing of Snowpack Properties, Fort Collins, Colorado, May 20-22, 1980
Microwave remote sensing of snowpack properties [1980, 275p., eng] **35-1732**

Worsfold, R.D.
Assessment of SAR for oil pollution surveillance in the ice environment [1979, p.99-123, eng] **35-166**
Shorebased radar data for navigation of coastal and restricted ice covered areas with specific examples of Bylot Island, N.W.T., Canada [1979, p.83-98, eng] **35-165**

Wortley, C.A.
Ice engineering design of boat harbors and ports [1981, p.1104-1113, eng] **35-4170**

WREL, Water Resources Engineering, Lulea--the activities of the division
WREL, Water Resources Engineering, Lulea - the activities of the division [1980, 46p., eng] **35-3793**

Wright, B.
Ice conditions affecting offshore hydrocarbon production in the Labrador Sea [1980, p.307-319, eng] **35-3100**

Wright, H.E., Jr.
Moraines of the Klutlan Glacier, Yukon Territory, Canada: origin, wastage, vegetation succession, lake development, and application to the Late-Glacial of Minnesota [1980, p.2-18, eng] **35-3714**

Wright, R.
Marine sediment core descriptions IWSOE 68, 69, 70, Deep Freeze 79 [1981, 60p., eng] **35-2148**

Wright, R.K.
Preliminary results of a study on active layer hydrology in the discontinuous zone at Schefferville, Nouveau-Quebec [1979, p.359-368, eng] **35-1050**

Wu, H.
Application of remote sensing data in the glacial mapping work [1980, p.60-61, chi] **35-2670**

Wu, K.
Function and characteristics of glaciers and utilization of water resources in the Ha-la-hu Lake area [1979, p.27-32, chi] **35-2899**

Wu, R.
Determination of ancient permafrost table, based on the variation of the content of clay minerals [1980, p.39-44, chi] **35-2664**

Wu, T.
Engineering classification of aged frozen ground [1979, p.52-60, chi] **35-2903**

Wu, X.
Determination of ancient permafrost table, based on the variation of the content of clay minerals [1980, p.39-44, chi] **35-2664**

Wyoming reduces drifting with new fence designs
Wyoming reduces drifting with new fence designs [1979, p.12, eng] **35-2932**

Xie, Y.
Active layer at the south foot of Tanggula Shan [1980, p.19-24, chi] **35-121**
Solar penetration radiometer and its preliminary testing results [1980, p.12-14, chi] **35-2652**

Xie, Z.
General features of Batura Glacier [1980, p.8-27, chi] **35-4027**
Mass balance and its relationship with characteristics of glaciers [1980, p.1-10, chi] **35-2910**

Xing, Z.
Characteristics of underground ice in the District of Fenghuo Shan along the Qing-Zang highway (1980, p 31-35, chi) **35-123**
Determination of ancient permafrost table, based on the variation of the content of clay minerals (1980, p 39-44, chi) **35-2664**

Xirouchakis, P.C.
Investigation of the acoustic emission and deformation response of finite ice plates (1981, p 123-133, eng) **35-3448**

Xu, Q.
Introduction of a theory ice ages controlled by variations of the Earth's orbit (1980, p 53-57, chi) **35-127**

Xu, S.
On the problem of further investigation of the Pleistocene glaciation of eastern China (1980, p 52-57, chi) **35-2919**

Xu, X.
Divisional indexes and marks of horizontal distribution of permafrost in China (1981, p 659-663, eng) **35-2528**

Yaeger, D.R.
Storm runoff delays induced by snow and ice on agricultural watersheds in southern Ontario (1979, p 356-379, eng) **35-423**

Yafeng, S.
Research on snow cover in China and the avalanche phenomena of Batura Glacier in Pakistan (1980, p 25-30, eng) **35-2344**
Some achievement on mountain glacier researches in China (1980, p 13-26, eng) **35-3660**

Yagi, T.
Size distribution of snowflakes and graupel particles observed in Nagaoka, Niigata Prefecture (1979, p 79-92, eng) **35-515**

Yamada, T.
Distribution and process of accumulation and ablation of snow on the west slope of Mt. Asahidake, Hokkaido (1978, p 1-12, jap) **35-1537**
Observations on depositional and melting processes of snow at different altitudes of Mt. Teine, Hokkaido (1978, p 47-54, jap) **35-1539**
Relationships between snow distribution and climate in mountain areas (1981, p 109-118, eng) **35-3024**
Study of snow melting in Mt. Asahidake, Hokkaido (1978, p 181-188, jap) **35-1185**

Yamaki, M.
Design of snow-gauge using photoelectric effects (1976, p 171-177, jap) **35-259**

Yamami, N.
Growth form of ice crystals grown by the Frank mechanism in colder temperature regions (1980, p 67-70, jap) **35-271**
Proposed mechanism for the growth of ice crystals abnormally extended to the b-axis (1980, p 61-66, jap) **35-270**
Snow crystals of unusual type observed at the summit of Mt. Teine (1977, p 39-45, eng) **35-572**

Yamamoto, H.
Experimental study of uniaxial compressive strength of segregated ice in soil (1981, p 83-96, eng) **35-4267**

Yamamoto, K.
Liquid figures of high-pressure ice VI (1980, p 2291-2292, eng) **35-1673**
Supercooling of the coexisting state of ice VII and water within ice VI region observed in diamond-anvil pressure cells (1980, p 1841-1845, eng) **35-1672**

Yamamoto, M.
Random waves attack on a composite breakwater (1979, p 275-288, eng) **35-177**

Yamanouchi, T.
Glaciological data collected by the Japanese Antarctic Research Expedition from February 1979 to January 1980 (1981, 43p., eng) **35-3599**
POLEX-South data, Part 2 Micrometeorological data at Mizuho Station, Antarctica in 1979 (1981, 321p., eng) **35-3598**

Yan, Q.
On the problem of further investigation of the Pleistocene glaciation of eastern China (1980, p 52-57, chi) **35-2919**

Yao, L.S.
Effects of natural convection in the melting region around a heated horizontal cylinder (1980, p 667-672, eng) **35-1677**

Yashima, N.
Model and field experiments for development of ice resistant offshore structures (1980, p 307-314, eng) **35-3635**

Yee, A.
Evaluation of alternative water bleeder controls (1981, p 555-569, eng) **35-2524**

Yen, Y.-C.
Free convection heat transfer characteristics in a melt water layer (1980, p 550-556, eng) **35-103**

Yin, S.
Experiment in the preparation of glacier distribution map (scale 1:1,000,000) of Xizang Plateau with MSS images (1980, p 67-70, chi) **35-2673**
Method of showing naked bed rock on the glacial map (scale 1:25,000) of Mt. Qomolangma (1980, p 74-76, chi) **35-2676**

Yletyinen, V.
Modern boulder tracing in prospecting (1973, p 87-98, eng) **35-2747**

Yogi, T.
Winter ice crystals at South Pole (1979, p 201-203, eng) **35-679**

Yokoyama, T.
Quaternary geologic and geomorphologic history around the Harding Lake, Alaska, U.S.A. (1980, p 45-53, eng) **35-1562**
Seasonal thermal storage in aquifer for utilization (1980, p 1646-1654, eng) **35-1964**

Yong, R.N.
Alleviation of detrimental frost heaving of soils by chemical treatment (1979, 150p., eng) **35-4011**
On drawbar pull of tracked oversnow vehicle (1980, p 101-108, jap) **35-269**
On trafficability of tracked oversnow vehicle energy analysis for track motion on snow covered terrain (1980, p 93-100, jap) **35-273**
Plate loading and vane-cone test measurements for fresh and sintered snow (1980, 32p., eng) **35-2010**

Yoshida, Z.
Theoretical studies on air flow within snow 1 Equations of motion (1978, p 11-27, jap) **35-1172**
Theoretical studies on air flow within snow 2 Boundary conditions at a porous surface when fluid flows over it in the form of laminar flow (1978, p.29-40, jap) **35-1173**
Theoretical studies on air flow within snow 3 Flow of fluid in the surface transition layer (1978, p 41-54, jap) **35-1174**
Theoretical studies on motion of snow kicked up by a snowplow (1980, 36p., eng) **35-3709**

Yoshikiyo, H.
Simple structure insulating material properties for multilayer insulation (1980, p.135-138, eng) **35-1782**

Yoshitake, A.
Fracture toughness of sea ice (1980, p 29-37, eng) **35-816**

Young, G.J.
Application of the UBC watershed model to Peyto Glacier basin (1979, p 217-228, eng) **35-415**
Impact of floods from glacier-dammed lakes, Yukon, Canada (1980, p.101-107, 170-175, rus) **35-2825**
Mass balance of Peyto Glacier, Alberta, Canada, 1965 to 1978 (1981, p.307-318, eng) **35-4263**
Net shortwave radiation model for glacierized basins (1980, p 159-169, eng) **35-3155**
Separation of runoff components in glacierized alpine watersheds by hydrochemical analysis (1979, p 570-581, eng) **35-435**
Streamflow formation in a glacierized watershed in the Rocky Mountains, Canada (1980, p 55-62, 134-139, rus) **35-2817**

Young, L.G.
Meteorological and seasonal effects of snow chemistry of Ross Ice Shelf, Antarctica (1981, p 17-37, eng) **35-4147**
Time-related changes in snow chemistry Ross Ice Shelf, Antarctica (1981, p 27-39, eng) **35-2416**

Young, N.W.
Responses of ice sheets to environmental changes (1981, p 331-360, eng) **35-3038**

Yu, C.G.
Relationship between normal frost-heaving forces and areas of bearing plates (1981, p 741-748, eng) **35-2535**

Yu, J.
Remote measuring and auto-recording of ground temperature (1980, p 7-9, chi) **35-2650**

Yu, P.M.
Modelling ice dissipation in eastern Lake Erie (1978, p 194-200, eng) **35-4321**

Yuan, C.
Research on prevention of snow-drifts by blower fences (1980, p 435-445, eng) **35-2384**

Yuen, W.W.
Application of a variable-time-step finite-difference method for the one-dimensional melting problem including the effect of subcooling (1979, p 120-126, eng) **35-3355**

Zabegalov, G.V.
Bulldozer-pusher DZ-121 with scraping equipment (1980, p 6-7, rus) **35-323**

Zabelina, E.F.
Bearing strength of ice cover in the Baykal Amur railroad area rivers in spring (1980, p 77-84, rus) **35-787**

Zabirov, R.D.
Role of glaciological investigations in the studies and development of mountainous regions (1980, p 37-40, rus) **35-1437**

Zaboeva, I.V.
Alpine tundra soils of the northern Urals (1974, p 3-9, rus) **35-687**
Biological cycle of chemical elements in taiga spruce forests (1974, p 9-14, rus) **35-1925**
Biological studies in the northeastern European USSR (1974, 235p., rus) **35-1924**
Materials on the soils of Komi ASSR (1974, 96p., rus) **35-686**
Peculiarities of soil processes in the far northern taiga (1971, p 58-59, rus) **35-2610**
Podsol soils of Central and Eastern European USSR (developed on loams) (1980, 304p., rus) **35-877**
Proceedings of a scientific conference of the Institute of Biology (1971, 124p., rus) **35-2604**

Zabolotnik, S.I.
Conditions of formation and the dynamics of seasonal cryolithozone in Central Siberia (1980, p 113-120, rus) **35-3324**
Dynamics of seasonally freezing layer in the Lake Baykal area (1980, p 106-113, rus) **35-3323**

Zabolotskaia, M.I.
Microstructure of frozen clay rocks when cooled from -5 to -50 C (according to the electron microscopy data) (1975, p 84-86, eng) **35-2404**

Zabolotskaia, T.G.
Regime of nitrogen and ash elements in the soil-plant system of cultivated central taiga cenoses, Komi ASSR (1974, p 64-69, rus) **35-693**

Zabolotskaia, T.N.
Studying the height of the upper boundary of winter frontal clouds from radar data (1980, p 142-145, rus) **35-2996**

Zabotina, L.N.
Characteristics of assimilation organs in creeping plants of the White Sea islands (1980, p 1779-1784, rus) **35-3220**

Zagorodnov, V.S.
Core drilling through Ross Ice Shelf (1979, p 63-64, eng) **35-651**
Freezing on the undersurface of the Ross Ice Shelf, Antarctica (1979, p 1454-1457, rus) **35-437**
Heat and mass transfer at the lower surface of the Ross Ice Shelf (1980, p 27-36, rus) **35-1223**
Sea ice on bottom of Ross Ice Shelf (1979, p 65-66, eng) **35-652**

Zagrivnyi, E.A.
Drilling experiments with drilling fluids (1980, p 119-123, rus) **35-2045**
Mechanized water preparation at Vostok (1980, p 124-127, rus) **35-2046**

Zagural'skaia, L.M.
Temperature and moisture effects on microflora and nitrogen regime of transition-type peat soils (1980, p 114-123, rus) **35-1328**

Zaitsev, V.N.
Temperature regime and seasonal thawing of perennially frozen rocks in the territory of the coastal lowlands of Yakut ASSR (1975, p 99-104, eng) **35-2403**

Zakablukovskii, A.P.
Heat balance of the surface of the northeastern part of the Pacific Ocean (1979, p 136-138, rus) **35-4197**

Zakharina, E.S.
Rational use of land resources (1980, p 233-235, rus) **35-3058**

Zakharov, IU.F.
Engineering-geological conditions of oil and gas-bearing areas in Northern Zaural'e (1981, 143p., rus) **35-3227**
Structurally unstable soils of different compositions and methods of estimating their engineering and geological properties (1980, p 167-175, rus) **35-1351**

Zakharov, V.A.
DP-31XI equipment for layer-by-layer excavation (1980, p.12-13, rus) **35-322**

Zakharov, V.F.
Age composition of ice in the Arctic Ocean (1980, p 118-121, rus) **35-3502**
Arctic surface waters as a factor of ice cover stability (1980, p 122-134, rus) **35-3503**
Forecasting the dates of ice formation in the Laptev Sea (1980, p 61-67, rus) **35-3494**
Polar ice is it a cause or consequence of climatic changes (1980, p 70-79, rus) **35-136**

Zakharov, V.G.
New data on the dynamics of ice shelves in the Weddell Sea (1980, p 181-185, rus) **35-2828**

Zakharov, V.I.
Roller-plate supports for pipeline construction (1980, p 33-34, rus) **35-314**

Zakharov, V.L.
Electrical grounding for 110 kv unit substations, designed according to contact voltage standards (1980, p 64-66, rus) **35-598**

Zakolodin, V.A.
Pavement elements made of frost resistant, colored sand-concrete (1980, p 8-10, rus) **35-472**

Zakrisson, K.
Snow assessments and snow distribution in the Malmagen area at 62N in Sweden, with special reference to spring runoff forecasts (1981, p 11-17, eng) **35-4016**

Zalenskii, O.V.
Potential photosynthesis of West Taymyr plants (1980, p 145-164, rus) **35-1410**

Zal'tsman, E.G.
Stresses on propelling mechanisms of universal excavators in frozen ground (1979, p 13-14, rus) **35-2619**

Zaman, M.S.
Frost action on immature cement paste effects on mechanical behavior (1980, p 386, eng) **35-825**

Zamana, L.V.
Cryogenesis and soil climate in troughs of the northern Baykal area (1980, p 73-75, rus) **35-2276**

Zamoshch, M.N.
Experimental studies of vapor condensation in the aeration zone at subzero temperatures (1980, p.62-82, rus) **35-3996**

Zanegin, V.G.
Experimental study of ice strength (1978, p.85-87, rus) **35-754**

Zaretskii, IU.K.
Calculating the strength and creep of artificially frozen grounds (1981, 199p., rus) **35-3932**

Zarkhina, E.S.
Problems of rating protective and preventive forest strips in the eastern part of the Baykal Amur railroad area (1979, p.11-26, rus) **35-1520**

Zarkrisson, K.
Spring runoff forecasts from snow assessments in the Mahmagen area at 62N in Sweden (1980, 119p. + append., swe) **35-2151**

Zarling, J.
Ice force measurement on the Yukon River bridge (1981, p.749-777, eng) **35-2536**
Passive solar design elements for the Subarctic (1980, p.11-16, eng) **35-3857**

Zarling, J.P.
Air-to-air heat recovery devices for small buildings. Interim report (1981, 19p., eng) **35-2014**
Heat and mass transfer from freely falling drops at low temperatures (1980, 14p., eng) **35-594**
Passive solar heating in Alaska. Final report (1980, 17p., eng) **35-3077**
Single and double reaction beam load cells for measuring ice forces (1980, 17p., eng) **35-1724**

Zarubin, N.E.
Engineering and seismic conditions of bridge construction for the Baykal-Amur railroad (1980, p.164-173, rus) **35-140**
Evaluating seismic stability of thixotropic ground in the Baykal Amur railroad area (1980, p.173-178, rus) **35-141**

Zarudzki, E.F.K.
Project Westmar - A shallow marine geophysical survey on the West Greenland continental shelf (1979, 29p., eng) **35-111**

Zastavenko, L.G.
All-Union symposium on physical bases of recent climatic changes, Moscow, Apr. 23-25, 1979. Vol. 1 (1980, 108p., rus) **35-3049**

Zavarzin, V.M.
Recent soil processes and fertility of Karelian soils (1979, 174p., rus) **35-1417**

Zavertkin, I.A.
Moisture-proof insulation for lowering heat losses in heat pipes (1980, p.26-29, rus) **35-595**

Zav'ialova, I.N.
Evaluating possible changes in the meteorological regime of the Ob' River estuary during interzonal redistribution of flow (1980, p.97-100, rus) **35-3122**

Zbarzhevskii, V.V.
Improvement of road construction technology (1980, 152p., rus) **35-1434**

Zelentsova, L.I.
Exhibition of the Road Construction Machines pavillion in 1980 (1980, p.40-44, rus) **35-611**

Zelinger, F.F.
Temperature spectrum of ground water crystallization (1980, p.16-20, rus) **35-2770**

Zeller, E.J.
Nitrogenous chemical composition of antarctic ice and snow (1980, p.79-81, eng) **35-3185**
Nitrogenous chemical composition of antarctic snow and ice (1979, p.80-82, eng) **35-660**

Zel'tser, P.IA.
New way of heating well plugging cements (1980, p.25-26, rus) **35-630**
Plugging low temperature wells with cements containing complex chemical admixtures (1980, p.20-21, rus) **35-631**

Zemgals, Z.
Port feasibility study, Nome, Alaska (1981, p.235-248, eng) **35-2506**

Zemlin, S.
Unloading cargo on fast ice (1980, p.70-71, rus) **35-969**

Zemtsov, A.A.
Drilling experiments with drilling fluids (1980, p.119-123, rus) **35-2045**
Mechanized water preparation at Vostok (1980, p.124-127, rus) **35-2046**

Zemzerov, S.N.
Assembly for heating and drying concrete aggregates in a vibro-fluidized layer (1980, p.27, rus) **35-3001**

Zenke, B.
Methods for calculating the travel distance and impact pressure of flowing avalanches (1981, 125p., ger) **35-4211**

Zenkevich, D.I.
Synoptic-statistical approach to forecasting visibility in snowfall (1980, p.11-17, rus) **35-1359**

Zernov, A.
We work in polar regions (1980, p.8-9, rus) **35-915**

Zernov, S.IA.
River transport of the Baykal Amur railroad area (1980, 89p., rus) **35-2966**

Zeus, K.
Importance of admixtures and cement for the resistance of concrete to freezing and deicing compound (1979, p.167-173, ger) **35-528**

Zgadzai, L.K.
Cement, made on a base of piperylene and fluosilicate acid, for strengthening loess and clayey soils (1981, p.113-117, rus) **35-3461**
Promising compounds for soil stabilization (1980, p.14-15, rus) **35-3006**

Zhakamikhov, Kh.M.
Theoretical model of hail processes and cloud modification with nucleating agents (1980, p.3-39, rus) **35-1199**

Zhang, C.
Discussion about "Permafrost classification for engineering" (1980, p.58-60, chi) **35-128**
Principle of railway line selection in alpine permafrost regions (1981, p.278-287, eng) **35-2509**

Zhang, F.
Underground thermal current meter and its application in permafrost (1980, p.15-18, chi) **35-2653**

Zhang, H.
Some cognizance of the formation of glacial melt-water sedimentation (1980, p.59-60, chi) **35-2921**
Tentative study of transistor direct numerical reading thermometer (1980, p.23-26, chi) **35-2656**
Terrestrial stereophotographic mapping of the drainage area of Batura Glacier (1980, p.208-220, chi) **35-4040**

Zhang, J.
General features of Batura Glacier (1980, p.8-27, chi) **35-4027**
Preliminary research on ultrasonic measurement of frozen soil and ice (1980, p.44-48, chi) **35-2665**
Some features of radiation and heat balance of Batura Glacier (1980, p.57-82, chi) **35-4030**
Surface ablation and its variation of Batura Glacier (1980, p.83-98, chi) **35-4031**
Tentative study of transistor direct numerical reading thermometer (1980, p.23-26, chi) **35-2656**

Zhang, S.
Meteorological conditions of mudflow and the probability of forecast at Gu Shiang, Tibet (1980, p.41-47, chi) **35-125**

Zhang, X.
Application of numerical go-round-about tester in the study of frozen soil (1980, p.26-28, chi) **35-2657**
Changes of Batura Glacier in the Quaternary and recent times (1980, p.173-190, chi) **35-4038**
Forecasting the change of Batura Glacier this and next centuries (1980, p.191-207, chi) **35-4039**
General features of Batura Glacier (1980, p.8-27, chi) **35-4027**
Gravimetric determination of ice thickness and the calculation of ice quantity of Batura Glacier (1980, p.42-56, chi) **35-4029**
Migrating subglacial channel of Batura Glacier and the tendency of the new channel (1980, p.153-165, chi) **35-4036**
Recent research of snow and ice in the World (3) (1980, p.61-65, chi) **35-2922**
Recent research of snow and ice in the world, Pt.1 (1980, p.54-58, chi) **35-90**
Recent research of snow and ice in the world, Pt.2 (1980, p.48-52, chi) **35-126**

Zhao, L.
Preliminary experimental study on the instantaneous strength of frozen sand (1980, p.37-40, chi) **35-86**

Zhao, X.
Application of numerical go-round-about tester in the study of frozen soil (1980, p.26-28, chi) **35-2657**

Zharov, L.M.
Modeling temperature regime in different types of ground cross-sections when building earth dams (1981, p.18-19, rus) **35-4245**

Zhazykov, K.T.
Paraffin precipitation effect on the thermal regime of hot oil line (1980, p.5-8, rus) **35-925**

Zhekamukhov, M.K.
Influence of dissolved admixtures on the speed of movement of the fluid crystallization front (1980, p.40-46, rus) **35-1200**
Theoretical model of hail processes and cloud modification with nucleating agents (1980, p.3-39, rus) **35-1199**

Zhemerichko, M.I.
Influence of temperature fluctuations on slope movements of individual rubble pieces (1980, p.91-94, rus) **35-1766**

Zheng, B.
Recent advances of the study on Quaternary glaciation in Qing-Zang Plateau (1980, p.15-18, chi) **35-120**

Zheng, Q.
Application of thermal resistor in measuring temperature of frozen soil (1980, p.20-23, chi) **35-2655**
Hydrogeological characteristics of permafrost and cold regions in Dahinganling (1980, p.44-51, chi) **35-2918**

Zhigarev, L.A.
Development of the cryolithozone in the East Siberian and Chukchi Seas during the Pleistocene and Holocene (1981, p.181-191, rus) **35-4079**
Engineering-geological characteristics of coastal shelf deposits in the southeastern part of the Laptev Sea (1979, p.91-96, rus) **35-66**
River diversion effect on shore stability of the Ob' Bay (1980, p.113-117, rus) **35-3127**

Zhigarev, V.V.
Drilling-crane assembly BKTS-1 (1981, p.25-27, rus) **35-3534**

Zhikhovich, V.V.
Possibility of artificial strengthening of clay soils (1981, p.7-11, rus) **35-3337**

Zhirmunskii, A.V.
Biologic investigations in the Far East (1979, 183p., rus) **35-4307**

Zhivotkevich, N.
Cargo delivery to the Far North (1980, p.7-9, rus) **35-905**

Zhon, Y.
Discussion on the research method of water migration in the seasonal frost zone (1980, p.46-53, chi) **35-89**

Zhonglong, W.
Research on prevention of snow-drifts by blower fences (1980, p.435-445, eng) **35-2384**

Zhou, F.
Measurement of permafrost table by portable seismograph (1980, p.9-12, chi) **35-2651**

Zhu, G.
Quartz crystal thermometer and its application in permafrost drilling holes (1980, p.18-20, chi) **35-2654**
Systems of data transfer and measurement in radio telemetry station on glacier (1980, p.3-7, chi) **35-2649**
Underground thermal current meter and its application in permafrost (1980, p.15-18, chi) **35-2653**

Zhu, Y.
Freezing-thaw regularity of railway bed in the permafrost region on the Qinghai-Xizang Plateau (1980, p.38-43, chi) **35-2917**

Zhukov, A.F.
Intensity fluctuations of a laser beam in falling snow (1980, p.103-107, eng) **35-4159**

Zhukov, IU.S.
Reliability of electrical equipment under northern conditions (1980, p.25, rus) **35-3011**

Zhukov, V.
Foundation construction in Urgal BAM village (1980, p.42-45, rus) **35-929**

Zhukov, V.M.
Structures of heat and water balance in average and in anomalous years in western Siberia (1981, p.55-67, rus) **35-3969**

Zhukova, M.A.
Evaluating economic effectiveness of the method of calculating maximal ice-jam water levels (1980, p.113-118, rus) **35-1020**

Zhuo, C.
Introduction of achievements about the study of bases and foundations on the frozen ground in China (1980, p.1-5, chi) **35-79**

Zhuravlenko, V.IA.
Heat and mass transfer in massive rocks and in underground structures (1980, 383p., rus) **35-2874**

Zhuravlev, A.B.
Radar echo sounding of Spitsbergen glaciers in 1977 (1980, p.279-286, rus) **35-1260**

Zhuravleva, L.E.
Frost resistance of concretes of different strengths (1980, p.14-16, rus) **35-1648**

Zhurina, L.L.
Seasonal dynamics of heat balance structure in dark coniferous biogeocenoses (1980, p.132-140, rus) **35-3421**

Zibert, G.K.
Modernizing gas dehydration equipment on northern fields (1980, p.2-3, rus) **35-627**

Zielinski, A.
Hydrodynamic effects on iceberg gouging (1981, p.55-61, eng) **35-2418**

Zimin, B.I.
Estimating the time of rainfall intensification when seeding thunderclouds with ice-forming aerosols (1980, p.30-36, rus) **35-2694**

Zimin, L.I.
Work-camp living complexes for the North (1978, 152p., rus) **35-1699**

Zimmerman, A.P.
Appropriate technologies for water supplies and sanitation in northern communities (1980, p.121-135, eng) **35-2113**

Zimov, S.A.
Role of ancient and recent hydroclimatic factors in morphogenesis and lithogenesis of plains in the permafrost zone (1979, p.143-156, rus) **35-3047**

Zin', E.A.
River transport of the Baykal Amur railroad area (1980, 89p., rus) **35-2966**

Zinchenko, A.I.
Experimental studies of vapor condensation in the aeration zone at subzero temperatures (1980, p.62-82, rus) **35-3996**

Zinchenko, N.A.
Winter concreting (1981, p.19-21, rus) **35-4283**

Zlatkinskaia, T.V.
Peculiarities of external walls of Norilsk buildings (1980, p.20-22, rus) **35-460**

Zolotar', A.I.
Foundation design for fine-grained sands and deep seasonal freezing [1973, p.3-11, rus] **35-1597**
Zolotarev, E.A.
Avalanche cadaster content and the evaluation of avalanche danger [1980, p.58-64, rus] **35-77**
Zolotarev, G.S.
Methods of engineering-geological investigations of high slopes susceptible to cave-ins and landslides [1980, 184p. + append., rus] **35-344**
Zolotareva, B.N.
Peculiarities in the behavior of some chemical elements in forest-steppe soils subject to long seasonal freezing, in West Siberia [1980, p.65-66, rus] **35-2272**
Zoltai, S.C.
Some nonsorted patterned ground types in northern Canada [1981, p.139-151, eng] **35-4088**
Zorikov, P.S.
Scientific basis of economic development of the mountain taiga zone in Primor'e [1979, p.25-35, rus] **35-4308**
Zorina, E.F.
Land erosion maps of the Central Region for environmental protection [1979, p.95-101, rus] **35-2327**
Zoroastrov, V.K.
Seagoing passenger sidewall hovercraft "Chaika" [1980, p.5-7, rus] **35-317**
Zotikov, I.A.
Core drilling through Ross Ice Shelf [1979, p.63-64, eng] **35-651**
Freezing on the undersurface of the Ross Ice Shelf, Antarctica [1979, p.1454-1457, rus] **35-437**
Heat and mass transfer at the lower surface of the Ross Ice Shelf [1980, p.27-36, rus] **35-1223**
Sea ice on bottom of Ross Ice Shelf [1979, p.65-66, eng] **35-652**
Zubakin, G.K.
Calculating water movements in a partially ice-covered sea caused by cyclones [1979, p.49-59, rus] **35-934**
Zubakov, V.A.
Recent and ancient glaciation of plains and mountainous regions of the USSR [1978, 131p., rus] **35-1420**
Zuberev, A.P.
Soils of dark conifer forests in the Khamar-Daban mountains and history of their development [1980, p.167-169, rus] **35-2306**
Zubareva, R.S.
Physical properties of soils and their forest-forming role in dark coniferous mountain forest of the central Ural Mountains [1976, p.114-123, rus] **35-1920**
Zubchenko, G.V.
Calculation and design of closed circulating water supply systems for dredging [1977, p.87-100, rus] **35-3807**
Studying land recultivation in mining areas of the northeastern USSR [1977, p.111-125, rus] **35-3808**
Zubkov, V.I.
Calculating the cooling of concrete placed at subzero temperatures [1980, p.99-104, rus] **35-2771**
Temperature field of a growing solid mass [1980, p.94-98, rus] **35-1035**
Zuev, A.N.
Calculating water movements in a partially ice-covered sea caused by cyclones [1979, p.49-59, rus] **35-934**
Peculiarities of ice distribution in the Danish Strait [1980, p.54-60, rus] **35-31**
Zuev, A.P.
Levels and composition of the mineral components in ice cores from central Antarctica [1980, p.152-158, eng] **35-4148**
Zueva, K.G.
Humus and oxalate-soluble forms of sesquioxides in the soils of West Sayan *Pinus cembra* forests [1980, p.73-84, rus] **35-301**
Soils of mountain *Pinus sibirica* forests in Central Siberia [1980, 172p., rus] **35-2330**
Zuniga, M.Z.
Mean dyadic Green's function for remote sensing of a two-layer random medium [1981, p.691-695, eng] **35-3444**
Zuzel, J.F.
Comparison of areal snow storage sampling procedures for rangeland watersheds [1980, p.71-82, eng] **35-1132**
Zverev, V.L.
Uranium and plutonium isotopes in glaciers and waters of the Issyk-Kul' basin [1981, p.198-200, rus] **35-3302**
Zvereva, T.S.
Characteristics of the genesis of the tundra soils of the northern Ob' region [1979, p.512-520, eng] **35-961**
Cryogenic migration and crystallization of substances in tundra and forest tundra soils [1980, p.107-109, rus] **35-2289**
Zvereva, V.M.
Mapping snow cover on plains from satellite survey data [1980, p.21-29, rus] **35-2970**
Zvorygin, L.V.
Rock pressure in main and preparatory shafts [1977, 170p., rus] **35-68**
Zwally, H.J.
Arctic sea-ice variations from time-lapse passive microwave imagery [1980, p.99-106, eng] **35-1115**
Seasonal variation of total antarctic sea ice area, 1973-75 [1979, p.102-103, eng] **35-673**
Zwick, T.T.
Comparison between the modern and composite Pleistocene snow-lines, Absaroka and Beartooth Mountains, Montana-Wyoming, U.S.A. [1980, p.347-352, eng] **35-1826**

SUBJECT INDEX

Ablation

Mudflow phenomena in the USSR — Raushenbakh, I O , (1980, p 90-102, rus) **35-212**

Controlling runoff from naleds — Kemmerikh, A O , (1980, p 20-25, rus) **35-467**

International symposium on glacial hydrology — Korzun, V E , (1980, p 89-90, rus) **35-1232**

Specific features in the formation of chemical composition of natural waters in East Antarctica — Bardin, V I , et al, (1980, p 166-174, rus) **35-1251**

Snow accumulation and ablation — a stochastic model — Cary, L E , et al, (1979, p 32-43, eng) **35-1398**

Snow accumulation and ablation on the west slope of Mt Asahidake, Hokkaido — Yamada, T , et al, (1978, p 1-12, jap) **35-1537**

Study on ablation hollows on a melting snow surface — Takahashi, S , (1978, p 13-46, jap) **35-1538**

Heat budget of the Greenland ice sheet — Ambach, W , (1979, p 44-54, ger) **35-2643**

Ablation in a vertical ice profile in Greenland — Ambach, W , (1979, p 55-62, ger) **35-2644**

Surface ablation by melting or sublimation on a submerged rotating disc — Conditt, D W , et al, (1979, p 134-147, eng) **35-3357**

Reconstruction of past velocities of Mer de Glace using Forbes Bands — Reynaud, L , (1979, p 149-163, eng) **35-3724**

Snowcover ablation and runoff — Male, D H , et al, (1981, p 360-436, eng) **35-3754**

Ablation study on the Yukikabe snow patch in the Daisetsu Mountains — Sato, A , et al, (1981, p 97-100, jap) **35-4268**

Abrasion

Glacial processes — Embleton, C , (1979, p 272-306, eng) **35-1688**

Erosion of northern sea shores — Archikov, F I , et al, (1976, p 50-56, rus) **35-1852**

Frictional characteristics of materials sliding against ice — Calabrese, S J , et al, (1980, p 283-289, eng) **35-1953**

Grain-size distribution of subglacial till — Haldorsen, S , (1981, p 91-105, eng) **35-2940**

Proceedings (1980, 460p , eng) **35-2957**

Shore erosion by ice — Dionne, J C , (1980, p 80-92, fre) **35-2958**

River diversion effect on permafrost conditions of Arctic shores — Popov, B A , et al, (1980, p 113-117, rus) **35-3127**

Absorption

Microwave absorption and scattering by water and ice particles — Abshaev, M T , et al, (1975, p 40-71, rus) **35-1616**

Scattering and absorption by thin flat aerosols — Weil, H , et al, (1980, p 2066-2071, eng) **35-2409**

Interaction of the water molecule with a rigid prism face of ice — Hale, B N , et al, (1981, p 1991-1995, eng) **35-4155**

Accidents

Accidents and damage due to avalanches — Schild, M , et al, (1980, p 93-151, ger) **35-2566**

Colloquium on Security and Freedom in the Mountains in Winter, 1980 (1981, p 64-87, fre) **35-4048**

Avalanches and planning — Schwarz, W , (1981, p 425-442, ger) **35-4216**

Acclimatization

Snow and living things — McKay, G A , et al, (1981, p 3-31, eng) **35-3746**

Accuracy

Stereophotogrammetric surveys and mapping of the Batura Glacier — Wang, W , et al, (1980, p 22-28, chi) **35-2914**

Acoustic measurement

Temperature fields and sound transmission variations in the Arctic Ocean — Bogorodskii, V V , et al, (1980, p 967-970, rus) **35-306**

Acoustic method of studying ice rheology — Nikitin, V A , (1980, p 30-36, rus) **35-366**

Acoustic effects of breaking sea ice — Bogorodskii, P V , et al, (1980, p 67-70, rus) **35-372**

Measuring acoustic and electromagnetic wave propagation in sea ice — Bogorodskii, V V , et al, (1980, p 80-86, rus) **35-375**

Acoustic instruments used on drift stations — Bogorodskii, P V , et al, (1980, p 94-100, rus) **35-377**

Heat and mass transfer at the lower surface of the Ross Ice Shelf — Zotikov, I A , et al, (1980, p 27-36, rus) **35-1223**

Sonar measurement of Beaufort Sea ice profiles — Wadhams, P , et al, (1980, p 401-414, eng) **35-1504**

Radio echo sounding equipment for glaciers — Svernsson, M , et al, (1980, p 477-486, eng) **35-1509**

Sonar studies of icebergs, ice fronts and ice walls — Klepsvik, J O , et al, (1980, p 31-36, eng) **35-2202**

Seismic velocity measurement in the Arctic Archipelago — Acheson, C H , (1981, p 707-716, eng) **35-3061**

Faulting in Norton Sound and Chirikov Basin, Alaska — Johnson, J I , et al, (1981, p 420-444, eng) **35-3248**

Acoustic emission and deformation response of finite ice plates — Xirouchakis, P C , et al, (1981, p 123-133, eng) **35-3448**

Acoustic measurement of the frost resistance of concretes — Filomidov, A M , (1981, p 14-15, rus) **35-4228**

Acoustics

Geophysical methods of studying permafrost in the USSR — Akimov, A T , et al, (1980, 51p , rus) **35-1928**

Distribution of gas-charged sediments in Norton Basin, Bering Sea — Holmes, M L , et al, (1981, p 261-287, eng) **35-3242**

Active layer

Slope processes in permafrost areas — Kolesnikov, S F , (1979, p 68-74, rus) **35-65**

Active layer at the south foot of Tanggula Shan — Toung, B , et al, (1980, p 19-24, chi) **35-121**

Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia — Popov, A I , ed, (1980, 256p , rus) **35-279**

Loose surface deposits of the Angara River area — Gorbachev, V N , (1980, p 21-39, rus) **35-297**

Methods of engineering-geological investigations of high slopes susceptible to cave-ins and landslides — Zolotarev, G S , ed, (1980, 184p + append , rus) **35-344**

Cryogenic structure and ice content of perennially frozen rocks in the West Siberian Platform — Trofimov, V I , et al, (1980, 246p , rus) **35-385**

Permafrost conditions in West Siberia — Shamanova, I I , et al, (1980, p 94, rus) **35-772**

Oats in the permafrost zone — Denisov, G V , (1979, 184p , rus) **35-812**

Permafrost studies in northern Quebec — Taylor, A , et al, (1979, p 245-251, eng) **35-1042**

Permafrost and active layer in the forest tundra — Gray, J T , et al, (1979, p 253-264, fre) **35-1043**

Permafrost in the Chic-Chocs Mts , Quebec — Gray, J T , et al, (1979, p 299-316, eng) **35-1046**

Thermal and radar active layer measurement techniques — Pilon, J A , et al, (1979, p 317-326, eng) **35-1047**

Geophysical study of a palsa field at Poste-de-la-Baleine, Ungava — Seguin, M K , et al, (1979, p 327-337, fre) **35-1048**

Cryogenic mineral mounds of the Leaf River lowlands, Ungava — Payette, S , et al, (1979, p 339-358, fre) **35-1049**

Active layer hydrology in discontinuous permafrost — Wright, R K , (1979, p 359-368, eng) **35-1050**

Observation on permafrost within the Bayan-Nuurin-Khotnor basin (Mongolia) — Babinski, Z , et al, (1976, p 1-17, pol) **35-1165**

Origin of hummocks, western Arctic coast, Canada — Mackay, J R , (1980, p 996-1006, eng) **35-1265**

Central Siberian tundra soils — Vasil'evskaia, V D , (1980, 235p , rus) **35-1281**

Protection of vegetational cover in permafrost areas — Tyrtikov, A P , (1980, p 14-18, rus) **35-1286**

Studies of forest soils and vegetation in the northeastern USSR — Shcherbakov, I P , ed, (1971, 176p , rus) **35-1390**

Thermal and water regimes of Yakutian soils — Savvinov, D D , (1971, p 118-175, rus) **35-1396**

Physical properties of the tundra soil-water system at Stordalen, Abisko — Ryden, B E , et al, (1980, p 27-54, eng) **35-1472**

Plant distribution and environment of a subarctic mire — Kvillner, E , et al, (1980, p 97-111, eng) **35-1475**

Ice formation in the active layer — Parmuzina, O IU , (1980, p 131-152, eng) **35-1761**

Moisture redistribution in frozen soils (based on field observations) — Parmuzina, O IU , (1979, p 194-197, rus) **35-1840**

Permafrost active layer in the Sudety Mountains during the last glaciation — Jahn, A , (1981, p 29-42, eng) **35-1883**

Neumann solution applied to soil systems — Tumarkina, V I , (1980, 7p , eng) **35-1893**

Dynamics of temperature field of the dam of the Vilyuy hydroelectric power plant — Olovin, B A , et al, (1980, 48p , rus) **35-2049**

Concepts, terminology and classification of freezing soils — Sokolov, I A , et al, (1980, p 9-10, rus) **35-2253**

Controlling the climate of cryogenic soils — Savvinov, D D , (1980, p 15-16, rus) **35-2256**

Indications of cryogenic soils — Gugalinskaia, L A , (1980, p 33-35, rus) **35-2264**

Origin of loams in Yorkuta tundra — Archegova, I B , (1980, p 37-39, rus) **35-2265**

Soil formation in sporadic permafrost areas — Savinov, A G , (1980, p 39-41, rus) **35-2266**

Soil formation in different Alpine landscapes — Kac'inin, V A , et al, (1980, p 71-73, rus) **35-2275**

Soil water reserves in permafrost areas — Oznobikhin, V I , et al, (1980, p 80-81, rus) **35-2279**

Relations between zero-isotherm depths and frozen layer thicknesses — Vecherskii, S S , (1980, p 96-98, rus) **35-2284**

Thermal regime of permafrost in Yakutia — Zaitsev, A N , (1975, p 99-104, eng) **35-2403**

Soil moisture migration in freezing soils — Ershov, E D , et al, (1976, p 89-91, eng) **35-2405**

Thickness of aeration zones in permafrost — Oberman, N G , (1981, p 127-133, rus) **35-2453**

Larch phytocenoses in mountain taiga — Korotkov, I A , et al, (1980, p 87-97, rus) **35-2478**

Calculation and control of cryogenic regime of soil — Pavlov, A V , (1980, 240p , rus) **35-2947**

Soil temperature variations due to river diversion — Seriakova, I P , et al, (1980, p 107-109, rus) **35-3125**

Distribution and variability of soils near Atkasook, Alaska — Everett, K R , (1980, p 433-446, eng) **35-3198**

Cryogenic relief features and vegetation in Arctic islands — Matveeva, N V , (1980, p 1543-1559, rus) **35-3217**

Formation of gullies in tundra — Konstantinov, I P , (1981, p 80-95, rus) **35-3287**

Isotope methods of studying rock stream formation — Morkovkina, I K , et al, (1981, p 90-96, rus) **35-3300**

Heat balance of soils with disturbed and undisturbed vegetational cover — Ivanova, I I , et al, (1980, p 19-25, rus) **35-3308**

Frost heave intensities and thaw depth in northern cities — Solov'ev, P A , (1980, p 60-63, rus) **35-3316**

Cryogenic structure of eluvium in southwestern Yakutia — Spesivtsev, V I , (1980, p 167-173, rus) **35-3334**

Mathematical models of water balance in permafrost areas — Nikitin, S P , (1980, p 213-218, rus) **35-3428**

Forecasting ground sagging due to permafrost thawing — Trofimov, V T , et al, (1981, p 101-112, rus) **35-3460**

Debris forms on the Skoddefjellet slope — Jania, J , (1977, p 91-117, eng) **35-3624**

Vegetation, substrate and topography in interior Alaska — Neiland, B J , (1975, 61p + 3 appends , eng) **35-3683**

Evaluation of soil moisture from space photographs — Nazimov, M , et al, (1980, p 115-122, eng) **35-3797**

Runoff characteristics in polar regions — Nasybulin, Sh S , (1976, p 32-41, rus) **35-3827**

Recent processes which formed the present surface of the Yana-Indigirka Plain — Egorova, G N , (1976, p 55-65, rus) **35-3830**

Dynamics of soil water runoff in permafrost areas — Khersonskii, E S , et al, (1980, p 37-43, rus) **35-3993**

Chemical composition of waters infiltrating seasonally thawing sands — Anisimova, N P , (1980, p 82-90, rus) **35-3997**

Water regime of cereal grasses in Yakutia — Grigor'eva, D V , et al, (1981, 145p , rus) **35-4097**

Decorative plants for landscaping residential areas in Yakutia — Krotova, Z E , ed, (1980, 106p , rus) **35-4098**

Shrubs introduced in the Yakut Botanical Garden — Nazarova, E I , (1980, p 15-24, rus) **35-4100**

Root systems of trees and shrubs introduced in Yakutia — Dokhunaev, V N , (1980, p 25-32, rus) **35-4101**

Calculating water flow in freezing pipes — Karaush, S V , et al, (1981, p 117-122, rus) **35-4290**

Adhesion

Wet snow accretion on power lines under high wind speed — Wakahama, G , et al, (1978, p 169-180, jap) **35-1184**

Collecting aerosols on ice crystals using electric charges — Martin, J J , et al, (1980, p 44-56, eng) **35-1676**

Admixtures

Organic admixtures in frozen water-salt systems Kovalev, O I., et al. (1980, p 377-379, rus) **35-1388**

Chemical stabilization of soils Sokolovich, V E., (1980, 119p., rus) **35-2952**

Adsorption

Freezing of adsorbed water in materials of varied porosity Efimov, S S., et al. (1979, p 91-96, rus) **35-237**

Summary of the adsorption force theory of frost heaving Takagi, S., (1980, p 233-236, eng) **35-739**

Adsorption force theory of frost heaving Takagi, S., (1980, p 57-81, eng) **35-819**

Adsorbed film controversy Miller, R D., (1980, p 83-86, eng) **35-820**

Analysis of water in the Martian regolith Anderson, D M., et al. (1979, p 33-38, eng) **35-2756**

Aeration

Aerobic and anaerobic bacteria in podsols Emtsev, V T., et al. (1974, p 83-87, rus) **35-1208**

Thickness of aeration zones in permafrost Oberman, N G., (1981, p 127-133, rus) **35-2453**

Vapor condensation in aeration zones at subzero temperatures Papernov, I M., et al. (1980, p 62-82, rus) **35-3996**

Aerial photography

Legends for detailed engineering-geological maps of permafrost areas Dostovalov, V B., (1981, p 42-43, rus) **35-2088**

Glacial mudflows in Altai Mountains Vinogradov, V A., (1981, p 87-92, rus) **35-4304**

Aerial surveys

Conference on climate, relief and human activities (1978, 155p., rus) **35-11**

Spaceborne surveys of naled development Gavrilov, A B., et al. (1978, p 101-102, rus) **35-17**

Aerial photography in soil mapping Monakhov, A K., (1980, p 355-356, rus) **35-109**

Aerial survey of ice thickness of the Dufek Massif Behrendt, J C., et al. (1980, p 1014-1017, eng) **35-218**

Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979 Abstracts of the papers (1979, 211p., rus) **35-245**

Determining strength of peat soils from aerial photographs Pitrogov, V G., et al. (1980, p 4-6, rus) **35-620**

Airborne geophysical investigations of ice sheet and bedrock, 1978-79 Drewry, D J., et al. (1979, p 95-96, eng) **35-667**

Mathematical models of snow cover formation Konovalov, V G., (1980, p 3-10, rus) **35-710**

Pulsating glaciers of the Gissar-Alay Mountains Glazyrin, G E., et al. (1980, p 81-100, rus) **35-718**

Geobotanical photointerpretation of northern landscapes Viktorov, S V., et al. (1971, p 23-28, rus) **35-756**

Sea ice reporting from satellite data Nikitin, P A., et al. (1980, p 65-68, rus) **35-786**

Airborne radio echo sounding of glaciers in Svalbard Drewry, D J., et al. (1980, p 261-266, eng) **35-943**

Radar sounding of mountain glaciers Vasilenko, E V., et al. (1980, p 273-278, rus) **35-1259**

Aerial surveys of pipeline construction sites Karpov, V G., et al. (1980, p 20-21, rus) **35-1301**

Climatic problems of mountainous regions in the USSR Bagdasarian, A B., (1980, p 29-36, rus) **35-1436**

North Atlantic ice conditions, 1979 (1979, 64p., eng) **35-1759**

Remote sensing studies of the water component Grinberg, A M., et al. (1980, p 152-154, rus) **35-1923**

Geophysical methods of studying permafrost in the USSR Akimov, A I., et al. (1980, 51p., rus) **35-1928**

Ice formation and ice control programs for St Lawrence Seaway Hung, S C., (1980, p 35-37, eng) **35-2160**

Ground ice distribution maps Ivanov, M S., (1980, p 58-75, rus) **35-2191**

Sea ice atlas of Arctic Canada 1969-1974 Lunasay, D G., (1977, 219p., eng) **35-2630**

Conductive ground effects on electromagnetic survey methods Peltoniemi, M., (1977, p 89-103, eng) **35-2728**

International ice patrol (1981, p 20-31, eng) **35-2884**

Using satellite information in solving hydrological problems Kuprianov, V V., et al. (1980, p 3-9, rus) **35-2968**

Ice conditions of the Aral Lake from satellite data Temnikov, S N., (1980, p 44-51, rus) **35-2973**

Studying wetland systems from satellite data Vinogradov, B V., (1980, p 83-92, rus) **35-2978**

Studying catchment areas in swamps from aerial photographs Savel'eva, T S., (1980, p 93-99, rus) **35-2979**

Evaluating riverbed processes using aerial photographs Smishchenko, D V., (1980, p 100-107, rus) **35-2980**

Locating soil erosion areas on aerial photographs Bobrovitskaia, N N., et al. (1980, p 108-111, rus) **35-2981**

Ice cover thickness from radar data Chizhov, A N., et al. (1980, p 112-124, rus) **35-2982**

Complex geocryological interpretation of space photographs Deleur, M S., et al. (1980, p 98-106, rus) **35-3322**

Lakes in the northeastern part of the Siberian Platform Parmuzin, IU P., et al. (1981, 190p., rus) **35-3412**

Space survey data in flood forecasts Vostriakova, N V., (1980, p 20-26, rus) **35-3546**

Calculating water reserves from aerial snow survey data Moskalev, IU D., (1980, p 127-138, rus) **35-3584**

Angular anisotropy of reflection from snow cover Korzov, V I., et al. (1980, p 43-53, rus) **35-3803**

Spectral brightness of northern landscapes Kondrat'ev, K IA., et al. (1980, p 72-83, rus) **35-3804**

Effects of the Trans-Alaska pipeline on caribou movements Cameron, R D., et al. (1980, 16p., eng) **35-3923**

Aerial surveying for ice navigation Lebedev, V P., et al. (1981, p 5-13, rus) **35-3934**

Plotting courses for aerial ice surveys Shil'nikov, V I., (1981, p 22-24, rus) **35-3937**

Airplane operation in ice surveys Shil'nikov, V I., (1981, p 25-31, rus) **35-3938**

Barrage technique of leading ships through sea ice Shil'nikov, V I., (1981, p 32-37, rus) **35-3939**

Ice surveying from helicopters Shatalin, N V., (1981, p 32-40, rus) **35-3940**

Mi-2 helicopters for Arctic ice surveys Shatalin, N V., et al. (1981, p 41-45, rus) **35-3941**

Reporting ice observations from helicopters Kupetskii, V N., (1981, p 46-68, rus) **35-3942**

Detailed ice surveys in the Arctic Gushchenkov, E M., (1981, p 49-50, rus) **35-3943**

Visual evaluation of sea ice packing Borodachev, V E., (1981, p 65-71, rus) **35-3947**

Optimal intervals between ice surveys in the Arctic Bulavkin, V M., (1981, p 76-78, rus) **35-3949**

Peculiarities of sea ice breaking by icebreakers Kupetskii, V N., (1981, p 89-91, rus) **35-3952**

Morphometric characteristics of drifting ice in Long Strait Gorbunov, IU A., et al. (1981, p 129-136, rus) **35-3960**

Drainage in the faulted Aldan Plateau zone Lygin, A M., (1980, p 22-30, rus) **35-3991**

Ice conditions in Laptev Sea Gudkovich, Z M., et al. (1979, p 16-19, rus) **35-4184**

Aerosols

Cloud chamber for measuring ice nuclei concentration Aksenov, M IA., et al. (1980, p.118-122, rus) **35-23**

SALIA-1 cloud chamber for measuring ice nuclei concentration Aksenov, M IA., et al. (1980, p 123-127, rus) **35-24**

Measuring ice nuclear concentrations in clouds Potapov, E I., (1980, p 128-132, rus) **35-25**

Ice nuclei concentrations measured from helicopters Vychuzhanina, M V., et al. (1980, p 133-137, rus) **35-26**

Ice crystal collection of atmospheric aerosols Martin, J J., et al. (1980, p 1628-1638, eng) **35-485**

Ice formation on silver iodide particles Gorbunov, B Z., et al. (1980, p 57-63, rus) **35-768**

Airborne equipment for sampling ice forming aerosols Berezinskii, N A., et al. (1980, p 105-110, rus) **35-771**

Ice forming activity in diffusion chambers Gorbunov, B Z., et al. (1980, p 22-29, rus) **35-785**

Biochemical cycle of carbon dioxide in the Arctic Kelley, J J., (1980, p 266-271, rus) **35-1270**

Collecting aerosols on ice crystals using electric charges Martin, J J., et al. (1980, p 44-56, eng) **35-1676**

Effect of aerosols on the ice-forming activity Baklanov, A M., et al. (1980, p 61-65, eng) **35-1778**

Scattering and absorption by thin flat aerosols Weil, H., et al. (1980, p 2066-2071, eng) **35-2409**

Health aspects of water reuse in California Reed, S C., (1979, p 434-435, eng) **35-2580**

Seeding of thunderclouds Zimm, B I., (1980, p 30-36, rus) **35-2694**

Ice forming properties of AgI Kim, N S., (1980, p 89-98, rus) **35-2698**

Formation of hailstone nuclei Khorguani, V G., (1980, p 638-643, eng) **35-2838**

Assembly for measuring the size of ice-forming particles Beliaev, S P., et al. (1980, p 57-63, rus) **35-2865**

Atmospheric aerosols over the antarctic ice sheet Shaw, G E., (1981, p 911-921, eng) **35-2892**

Mathematical model of ice aerosol evolution Bakhanov, V P., et al. (1980, p 41-50, rus) **35-2990**

Climatic role of snow covers Kukla, G (1981, p 79-107, eng) **35-3023**

Liquid spray cooling of a heated surface Grissom, W N., et al. (1981, p 261-271, eng) **35-3271**

Some characteristics of the antarctic aerosols Hogan, A., et al. (1980, p 78-86, eng) **35-3411**

On the origin of the Arctic aerosol: a statistical approach Heidam, N Z., (1980, 11p + figs., eng) **35-3735**

Microparticle concentration variations linked with climatic change: evidence from polar ice cores Thompson, L G., et al. (1981, p.812-815, eng) **35-3773**

Deposition of trace metals and sulfates onto arctic snow Davidson, C I., (1981, 59p., eng) **35-4248**

Age determination

Acidity of polar ice cores Hammer, C U., (1980, p 359-372, eng) **35-1500**

Trace metals in antarctic snows since the 1880's Boutron, C., (1980, p 7426-7432, eng) **35-1911**

Time for the formation of organic matter in the second humic zone of soddy-podsolic soils Tolchel'nikov, IU S., et al. (1980, p 1475-1478, rus) **35-2766**

Dating morainal deposits in Arctic regions Gol'dfarb, IU I., (1976, p 100-106, rus) **35-3834**

Agriculture

Problems of the North, a current bibliography (1980, 3 volumes, rus) **35-858**

Problems of the North, a current bibliography (1980, 198p., rus) **35-859**

Land application of sludge Johnson, R A., et al. (1981, p 8-9, eng) **35-1692**

Snow management for crop production on the Canadian prairies Steppuhn, H., (1980, p 50-61, eng) **35-2226**

Energy and costs for agricultural reuse of wastewater Sletten, R S., et al. (1980, p 339-346, eng) **35-2572**

Lime requirement methods for cold-region soils Loynachan, T E., (1981, p 75-80, eng) **35-2926**

Handbook of snow: principles, processes, management and use Gray, D M., ed. (1981, 776p., eng) **35-3745**

Snow and agriculture Steppuhn, H., (1981, p 60-125, eng) **35-3748**

Air cushion vehicles

Seagoing passenger hovercraft "Chaika" Zoroastrov, V K., et al. (1980, p 5-7, rus) **35-317**

Military air-cushion ships Korytov, N., (1980, p 10-12, rus) **35-351**

Icebreaking by hovercraft Burton, R., (1980, p 78-83, eng) **35-483**

Projects for transportation technology in Canada, 1979 (1980, 83p., eng) **35-840**

Lightering with air cushion vehicles in Alaska Thomas, B C., (1981, p 249-263, eng) **35-2507**

Air entrainment

Concrete properties in relation to extended freeze-thaw cycles Pigeon, M., et al. (1980, p 407-420, fre) **35-834**

New method and apparatus for testing air content of fresh concrete in situ Nasser, K W., et al. (1980, p 472-476, eng) **35-1493**

Freeze thaw cycles and air void spacing factors for concretes Pigeon, M., et al. (1981, p 282-291, eng) **35-4315**

Air flow

Water and air horizontal flow in porous media Nakano, Y., (1980, p 81-85, eng) **35-844**

Water and air vertical flow through porous media Nakano, Y., (1980, p 124-133, eng) **35-845**

Theoretical studies on air flow within snow 1 Equations of motion Yoshida, Z., (1978, p 11-27, jap) **35-1172**

Air flow through snow during laminar flow of a fluid over snow Yoshida, Z., (1978, p 29-40, jap) **35-1173**

Air flow within snow during fluid flow in surface transition layer Yoshida, Z., (1978, p 41-54, jap) **35-1174**

Formation and properties of fluidized snow Maeno, N., et al. (1978, p 77-92, jap) **35-1177**

Traveling wave solution to the problem of simultaneous flow of water and air through homogeneous porous media Nakano, Y., (1981, p 57-64, eng) **35-2796**

Gas permeability of permafrost in the Vilyuy watershed area Olovin, B A., et al. (1980, p 83-90, rus) **35-3320**

Wintertime observations of roll clouds over the Bering Sea Walter, B A., (1980, p 2024-2031, eng) **35-3648**

Criteria for ice prevention in counterflow natural draft cooling towers Cooper, J W., Jr., (1980, p 47-53, eng) **35-3862**

Seasonal variations of weather in the non-chernozem zone Kornilova, R P., (1981, p 137-142, rus) **35-3973**

Air leakage

Building envelope performance testing Harrje, D T., (1981, p 39-41, eng) **35-2802**

Air masses

Mean 500 millibar contour charts of the large-scale atmospheric processes (elementary circulation mechanisms of the northern hemisphere) Vitvitskii, G N., ed. (1980, 67p., rus) **35-3966**

Seasonal variations of weather in the non-chernozem zone Kornilova, R P., (1981, p 137-142, rus) **35-3973**

Air pollution

Biochemical cycle of carbon dioxide in the Arctic Kelley, J J., (1980, p 266-271, rus) **35-1270**

Air pollution in Alaska Benson, C S., et al. (1980, p 210-215, eng) **35-1489**

Fairbanks atmospheric carbon monoxide transport model Carlson, R F., et al. (1980, 49p., eng) **35-1841**

Trace metals in antarctic snows since the 1880's Boutron, C., (1980, p 7426-7432, eng) **35-1911**

Historical record of global atmospheric pollution revealed in polar ice sheets Boutron, C., et al. (1980, p 210-215, eng) **35-2470**

Winter air pollution at Fairbanks, Alaska Coutts, H J., et al. (1981, p 512-528, eng) **35-2522**

Climatic role of snow covers Kukla, G., (1981, p 79-107, eng) **35-3023**

Deposition of trace metals and sulfates onto arctic snow Davidson, C I., (1981, 59p., eng) **35-4248**

Air temperature

Calculating vertical air temperature gradients in mountains Blagoveshchenskii, V P., (1979, p 83-87, rus) **35-190**

Fluctuations of the Ichinokura snow patch Kotwa, S., (1979, p 161-164, jap) **35-263**

Mean winter temperature anomalies over the U S., 1895-1979 Diaz, H F., (1980, 88p., eng) **35-707**

Forecasting winter air temperature in West Siberia — Sorokina, L P., (1971, p 29-38, rus) 35-757
Radio echo sounding of surface atmospheric layer — Babkin, S I., et al, (1980, p 36-45, rus) 35-770
Variations of August ice cover in the Beaufort Sea — Dey, B., (1980, p 213-217, eng) 35-894
Dependence of polar ice albedo on air temperature — Strokina, L A., (1980, p 57-60, rus) 35-1004
Air temperature and snow heat energy at night in Sapporo — Ishikawa, N., et al, (1978, p 121-132, jap) 35-1181
Air temperature variations in the Chuia Basin — Vasil'eva, I G., (1980, p 43-54, rus) 35-1198
Heat and mass transfer in the glacier-snow field system — Mazo, V I., (1980, p 74-79, rus) 35-1229
Climate formation — Khromov, S P., ed, (1980, 183p., rus) 35-1451
Winter air temperature in West Siberia — Miachkova, N A., (1980, p 106-118, rus) 35-1452
Climatic changes reflected in glacial hydrology and vegetation — Adamenko, V N., (1980, p 130-143, rus) 35-1453
Spring breakup on Alaskan rivers — Nibler, G J., (1980, p 207-209, eng) 35-1488
Energy interaction between reservoirs and the atmosphere — Panin, G N., et al, (1980, p 151-173, rus) 35-1496
Glacier energy balance and air temperature — Braithwaite, R J., (1980, p 501-503, eng) 35-1513
Index and analysis of surface temperature and wind frequency data — Raynet, J N., (1961, 18p + tables, eng) 35-2022
Polar ice and atmospheric fluctuations — Wiese, W., (1981, 22p., eng) 35-2050
Thermobaric and ice conditions, South Orkneys region — Petrov, I N., et al, (1980, p 59-65, rus) 35-2180
Heat transfer at the soil-air interface — Akushevskaia, K E., (1980, p 79-92, rus) 35-2441
Atmospheric circulation effect on Siberian climate — Sergeev, N I., (1980, p 31-48, rus) 35-2487
Diurnal winter air temperature variations in Siberia — Sorokina, I P., (1980, p 110-143, rus) 35-2489
Wind velocities in the Asiatic USSR — Durnev, V F., (1980, p 196-210, rus) 35-2492
Horizontal distribution of permafrost in China — Ding, D., et al, (1981, p 659-663, eng) 35-2528
Climatic prospects with antarctic but no arctic ice — Flohn, H., (1979, p 35-51, fre) 35-2576
Maximum thickness and subsequent decay of lake, river and fast sea ice in Canada and Alaska — Bilello, M A., (1980, 160p., eng) 35-2588
Thermometer with a range of -50 to + 50 C — Borovikov, A A., et al, (1980, p 52-56, rus) 35-2639
Climatic changes in the Northern Hemisphere — Gruza, G V., et al, (1980, 72p., rus) 35-2950
Distribution of subzero air temperatures in Caucasian mountains — Aslanikashvili, N A., et al, (1980, p 80-88, rus) 35-2988
Aerosynoptic conditions starting thaws over Georgia — Kordzakhia, R S., (1980, p 89-94, rus) 35-2989
Ice core studies from Mt. Kenya, Africa — Thompson, L G., (1981, p 55-62, eng) 35-3021
Sea-ice atmosphere interactions in the Weddell Sea using drifting buoys — Ackley, S F., (1981, p 177-191, eng) 35-3029
All-Union symposium on physical bases of recent climatic changes, Moscow, Apr 23-25, 1979, Vol 1 — (1980, 108p., rus) 35-3049
Summer air temperature and precipitation in northern Alaska — Haugen, R K., et al, (1980, p 403-412, eng) 35-3196
Far North air temperature and wind velocity variations in winter — Sorokina, I P., (1980, p 41-51, rus) 35-3415
Diurnal air temperature variations in northern river basins — Sorokina, I P., (1980, p 51-59, rus) 35-3416
Climate forming processes in the Minusinsk Basin — Durnev, V F., (1980, p 59-77, rus) 35-3417
Relations between air temperature and ice conditions in Arctic seas — Tertel'baum, K A., (1980, p 109-117, rus) 35-3501
H2O frost point detection on Mars — Ryan, J A., et al, (1981, p 503-511, eng) 35-3602
Wintertime observations of roll clouds over the Bering Sea — Walter, B A., (1980, p 2024-2031, eng) 35-3648
Sea ice simulation from a global circulation model — Parkinson, C L., et al, (1980, p 2080-2091, eng) 35-3653
Mean 500 millibar contour charts of the large-scale atmospheric processes (elementary circulation mechanisms of the northern hemisphere) — Vitvitskii, G N., ed, (1980, 67p., rus) 35-3966
Persistence of winters in plains of the Soviet Union — Il'icheva, E M., et al, (1981, p 24-44, rus) 35-3968
Heat and water balance in western Siberia — Zhukov, V M., (1981, p 55-67, rus) 35-3969
Radiation balance of west Siberian taiga — Potapova, L S., (1981, p 68-81, rus) 35-3970
West Siberian climatic conditions — Solomotina, O V., et al, (1981, p 82-92, rus) 35-3971
Seasonal variations of weather in the non-chernozem zone — Kormilova, R P., (1981, p 137-142, rus) 35-3973
Paleoclimatic reconstructions in West Siberia — Chekhovskii, V I., et al, (1981, p 78-84, rus) 35-4071
Supercooled sediments and permafrost in Arctic seas — Zhigarev, L A., (1981, p 181-191, rus) 35-4079
Problems of the Arctic and the Antarctic, collection of articles, Vol 48, 1976 — Treshnikov, A F., ed, (1981, 173p., eng) 35-4129
Calculation of air temperature in numerical models of redistribution of ice — Appel', I L., (1981, p 23-28, eng) 35-4130
Set of instruments for determining the elements of the heat balance of the surface layer of the atmosphere — Makshtas, A P., (1981, p 71-74, eng) 35-4133
Stochastic models of air temperature in the North — Privал'skii, V E., (1981, p 1342-1345, rus) 35-4275
Air temperature distribution above glaciers — Tikhanovskaia, A A., (1981, p 60-66, rus) 35-4306

Air water interactions

Cyclone effect on ice covered sea — Denisov, V V., et al, (1979, p 49-59, rus) 35-934
Thermal regime of surface waters in the subarctic zone of the Pacific Ocean — Pokudov, V V., et al, (1980, 173p., rus) 35-1798
Snow manufacturing for ski trails — (1980, p 61, eng) 35-1956
Air-water heat transfer in the North Atlantic — Goroshkova, I N., et al, (1980, p 32-36, rus) 35-2999
Oceanic mechanisms for amplification of the 23,000-year ice-volume cycle — Ruddiman, W F., et al, (1981, p 617-627, eng) 35-3136
Relations between air temperature and ice conditions in Arctic seas — Tertel'baum, K A., (1980, p 109-117, rus) 35-3501
Supercooled sediments and permafrost in Arctic seas — Zhigarev, L A., (1981, p 181-191, rus) 35-4079
Polex-North-76 (scientific results) Part 2 — Treshnikov, A F., ed, (1979, 194p., rus) 35-4182
Complex full-scale experiment "IAna" — Gudkovich, Z M., et al, (1979, p 7-15, rus) 35-4183
Calculating heat balance of the ocean surface — Zakablukovskii, A P., et al, (1979, p 136-138, rus) 35-4197

Airborne equipment

SALIA-1 cloud chamber for measuring ice nuclei concentration — Aksenov, M IA., et al, (1980, p.123-127, rus) 35-24
Ice nuclei concentrations measured from helicopters — Vychuzhanina, M V., et al, (1980, p 133-137, rus) 35-26
Airborne equipment for sampling ice forming aerosols — Berezinskii, N A., et al, (1980, p 105-110, rus) 35-771
Aerial surveys of pipeline construction sites — Karpov, V G., et al, (1980, p.20-21, rus) 35-1301
Satellite measurements of ocean surface temperature — Staritsyn, D K., (1980, p 52-61, rus) 35-1345
Air deployed oceanographic mooring (ADOM) — (1980, 77p., eng) 35-1589
Airborne measurement of snow water equivalent — Carroll, T R., et al, (1980, p 97-106, eng) 35-2232
Soil and bedrock as reflected in Arctic vegetation — Paarma, H., et al, (1977, p.25-29, eng) 35-2721
Satellite information for studying snow cover dynamics — Tsarev, B K., (1980, p 15-20, rus) 35-2969
Studying microwave emission from a snow cover — Gershenzon, V E., et al, (1981, p 58-62, rus) 35-3541

Airborne radar

Radar sounding of mountain glaciers — Vasilenko, E V., et al, (1980, p 273-278, rus) 35-1259
Radar sounding of Spitsbergen glaciers — Macheret, IU IA., et al, (1980, p 279-286, rus) 35-1260
Radar methods of studying the earth — Mel'nik, IU A., et al, (1980, 161p., rus) 35-2250
Ice cover thickness from radar data — Chizhov, A N., et al, (1980, p 112-124, rus) 35-2982
Studying winter frontal cloud boundaries from radar data — Zabolotskaia, T N., et al, (1980, p 142-145, rus) 35-2996
Application of airborne radar surveying in geologic and geographic investigations — Glushkov, V M., ed, (1981, 238p., rus) 35-3224
Water content values of ice hydrometeors from aircraft and radar data — Plank, V G., et al, (1980, p 1293-1299, eng) 35-3865
Ice surveying methods and results — Bolodachev, V E., ed, (1981, 144p., rus) 35-3933
Airborne radar for ice surveys — Balandin, V N., et al, (1981, p 19-21, rus) 35-3936
Measuring ice cover thickness in summer — Lazarev, E I., (1981, p 113-116, rus) 35-3957
Radar measurements of ice cover thickness in the Arctic Ocean — Finkel'shtein, M I., et al, (1981, p 117-119, rus) 35-3958
Polex-North-76 (scientific results) Part 2 — Treshnikov, A F., ed, (1979, 194p., rus) 35-4182
Ice drift in the Laptev Sea — Gorbunov, IU A., et al, (1979, p 45-65, rus) 35-4188
Ice transfer through the New Siberian straits — Gorbunov, IU A., (1979, p.66-72, rus) 35-4189

Aircraft icing

Projects for transportation technology in Canada, 1979 — (1980, 83p., eng) 35-840
Weather and flights of airplanes and helicopters — Astapenko, P D., et al, (1980, 280p., rus) 35-1362
Feasibility of helicopter support Seek Frost — Merna, R L., (1980, 54p., eng) 35-1578
Helicopter icing review — Peterson, A A., et al, (1980, 233p., eng) 35-1731
Determining aircraft icing zones — Abramovich, K G., et al, (1980, p 75-85, rus) 35-2427
Icing tests on army helicopters — Hanks, M L., (1979, 36p., eng) 35-3467
Computer simulation of airfoil icing without runback — Lozowski, E P., et al, (1981, 8p., eng) 35-3562
Winter worries — Olcott, J W., (1980, p 86, eng) 35-3851
Use of similitude in analyzing aircraft windshield anti-icing performance — Ross, R., (1980, p 830-837, eng) 35-3852

Aircraft landing areas

Contractor support — Murphy, R L., (1979, p 238-239, eng) 35-684
Rolling resistance of aircraft wheels in dry snow — Kihlgren, B., (1977, 22p + tables, sw) 35-702
Winter maintenance of military airports — Fedosenko, N., (1921, p 33-36, rus) 35-971
Deicing of airfields — Laumann, M., (1980, 27p., eng) 35-992
1980-81 ANARE report — (1980, 62p., eng) 35-1400
Tungsten carbide pads for snowplow blades — (1980, p 53, eng) 35-1954
Winter worries — Olcott, J W., (1980, p 86, eng) 35-3851

Airplanes

Rolling resistance of aircraft wheels in dry snow — Kihlgren, B., (1977, 22p + tables, sw) 35-702
Transportation development problems and prospects — Economic development of Siberia and the Far East — Pavlovskii, I G., (1980, 125p., rus) 35-864
Proceedings, Vol 1 — (1980, 516p., eng) 35-1583
Low temperature study of airplanes — Alley, B J., Jr., (1980, p 77-96, eng) 35-1585
Carburetor ice flight testing, use of an anti-icing fuel additive — Newman, R L., (1981, p 5-6, eng) 35-2176
Using liquid fuels at low temperatures — Englin, B A., (1980, 207p., rus) 35-2998
Airplane operation in ice surveys — Shil'nikov, V I., (1981, p 25-31, rus) 35-3938

Airports

Design standards SNiP II-47-80 "Airports — Deman, I D., (1980, p 17-18, rus) 35-612
Design and operation of airfields — Glushkov, G I., et al, (1980, 441p., eng) 35-703
Winter maintenance of military airports — Fedosenko, N., (1921, p 33-36, rus) 35-971
Airport pavements of fine-grained concrete — Khuchnikov, G IA., et al, (1980, p 25, rus) 35-1652
Snow and ice control on railroads, highways and airports — Minsk, I D., et al, (1981, p 671-706, eng) 35-3763

Alassy

Soils and vegetation of alassy — Desiatkin, R V., (1980, p 72-79, rus) 35-1568
Material composition of Edoma series — Kuznetsov, IU V., (1979, p 136-144, rus) 35-1834
Wedge-shaped deformations in alassy complexes — Velikotskii, M A., (1979, p 172-182, rus) 35-1838
Thermokarst in Arctic regions of the USSR and abroad — Belorusova, Zh M., (1972, p 41-43, rus) 35-2424
Permafrost investigations in economically developing areas of the USSR — Pavlov, A V., ed, (1980, 183p., rus) 35-3305
Thermal denudation relief forms in northern Yakutia — Fartyshev, A I., (1980, p 128-132, rus) 35-3327
Thermodelapsing formations — deposits of young thermokarst basins — Ivanov, M S., (1980, p 132-140, rus) 35-3328
Recent processes which formed the present surface of the Yana-Indigirka Plain — Egorova, G N., (1976, p 55-65, rus) 35-3830

Albedo

Determining early dates for dusting snow cover — Romanov, P G., (1979, p 122-124, rus) 35-243
Dependence of polar ice albedo on air temperature — Strokina, L A., (1980, p 57-60, rus) 35-1004
Meteorological consequences of natural or deliberate changes in the surface environment — Vowinckel, E., et al, (1980, p 87-110, eng) 35-1008
Role of the Southern Hemisphere in global climate change — Henderson-Sellers, A., (1980, p 373-374, eng) 35-1311
Development of a portable albedometer — Aburakawa, H., et al, (1978, p 171-174, jap) 35-1553
Space-time variations of naled albedo — Dzikin, B N., (1980, p 53-60, rus) 35-1869
Estimation technique for snow surface albedo — Petzold, D E., (1977, p 1-11, eng) 35-2156
Short-wave radiation regime in Antarctica based on 20 years of observation — Marshunova, M S., (1980, p 11-19, rus) 35-2179
Spectral albedo of snow — Wiscombe, W J., et al, (1980, p 68-71, eng) 35-2228
Changes in cryogenic soil temperature due to cultivation — Khudiakov, O I., et al, (1980, p 134-136, rus) 35-2298
Albedo variations of ice on Lake Simcoe, Canada, March 1978 — Reid, J D., et al, (1980, p 168-176, eng) 35-2458
Climatic conditions and microclimate of taiga geosystems in Siberia — Bufal, V V., ed, (1980, 232p., rus) 35-2485
Radiation balance of Siberian taiga — Bufal, V V., et al, (1980, p 5-30, rus) 35-2486

Albedo *(cont.)*
Influence of the observatory summit on radiation measurements — Busch, O., (1980, p 152-154, ger) **35-2567**
Model for the spectral albedo of snow. I. Pure snow — Wiscombe, W.J., et al, (1980, p 2712-2733, eng) **35-2717**
Model for the spectral albedo of snow. II. Snow containing atmospheric aerosols — Warren, S.G., et al, (1980, p 2734-2745, eng) **35-2718**
Albedo of melting ice cover — Bolnikov, M.M., et al, (1979, p 108-112, rus) **35-2986**
Climatic role of snow covers — Kukla, G., (1981, p 79-107, eng) **35-3023**
Incident flux and snow cover albedo for partially cloudy skies — Choudhury, B.J., et al, (1980, p 76-90, eng) **35-3149**
Arctic stratus clouds and reflection effects on irradiance — Wendler, G., et al, (1981, p 2049-2057, eng) **35-3276**
Chemical composition of arctic haze Ny-Alesund, Spitzbergen — Heintzenberg, J., et al, (1981, p 162-171, eng) **35-3487**
On the angular variation of solar reflectance of snow — Choudhury, B.J., et al, (1981, p 465-472, eng) **35-3601**
Radiative properties of snow for clear sky solar radiation — Choudhury, B., (1981, p 103-120, eng) **35-3667**
Spectral albedos of an alpine snowpack — Grenfell, T.C., et al, (1981, p 121-127, eng) **35-3668**
Snow and climate — Berry, M.O., (1981, p 32-59, eng) **35-3747**
Interpretation of satellite photographs — Borisoglebskii, G.I., et al, (1980, p 123-127, rus) **35-3798**
Angular anisotropy of reflection from snow cover — Korzov, V.I., et al, (1980, p 43-53, rus) **35-3803**
Spectral brightness of northern landscapes — Kondrat'ev, K.IA., et al, (1980, p 72-83, rus) **35-3804**
New observations on the daily variation of natural ice albedo — Bolsenga, S.J., (1980, 36p, eng) **35-3921**
Albedo of snow for partially cloudy skies — Choudhury, B.J., et al, (1981, p 371-389, eng) **35-3964**
Radiation balance of west Siberian taiga — Potapova, I.S., (1981, p 68-81, rus) **35-3970**
Effects of surface dust on snowmelt rates — Drake, J.J., (1981, p 219-223, eng) **35-4094**

Algae
Microbial dynamics of two sub-Arctic Canadian rivers — Albright, L.J., et al, (1980, p 1353-1362, eng) **35-114**
Phytoplankton composition and cropping power in different lake types of the Karelian Isthmus — Trifonova, I.S., (1979, 168p, rus) **35-201**
Phytoplankton in arctic and subarctic lakes — Moore, J.W., (1979, p 485-499, eng) **35-246**
Vegetation and soils of subarctic tundra — Andreev, V.N., ed, (1980, 209p, rus) **35-282**
Algae in thermokarst lakes — Vasil'eva, I.I., et al, (1980, p 92-104, rus) **35-288**
Algae in tundra soils — Perminova, G.N., (1980, p 859-863, rus) **35-395**
Cryopelagic fauna of the Central Arctic Basin — Mel'nikov, I.A., et al, (1980, p 97-111, rus) **35-1318**
Microflora in sea ice — Tsurikov, V.I., (1980, p 118-132, rus) **35-1320**
Phytoplankton in the area of the drift station "Severnyy polius-22" — Belaeva, T.V., (1980, p 133-142, rus) **35-1321**
Epiphyte algae of peat mosses — Antipina, G.S., (1980, p 167-175, rus) **35-1330**
Primary productivity and aquatic plants in tundra ponds — Alexander, V., et al, (1980, p 179-250, eng) **35-1752**
Modeling in the aquatic program of the tundra biome — Tiwari, J.L., et al, (1980, p 407-456, eng) **35-1757**
Sea ice microalgae in the Canadian Arctic — Hsiao, S.I.C., (1980, p 768-793, eng) **35-2172**
Arctic marine diatoms and sea ice — Lichti-Federovich, S., (1981, p 57-62, eng) **35-3083**
Ice algae near Showa Station — Hoshiai, T., (1981, p 1-12, eng) **35-3596**
Algae in lagoon ice — Takahashi, E., (1981, p 49-56 + 5 plates, eng) **35-3597**
New data on the phytogeography of Siberia — Krasnoborov, I.M., et al, (1981, 232p, rus) **35-3889**
Algae in waters of the Kuznetskiy Alatau — Safonova, T.A., (1981, p 4-16, rus) **35-3890**
Sea ice colored by algae — Hoshiai, T., et al, (1981, p 113-120, eng) **35-4149**
Algae in cryogenic soils — Pivovarova, Zh.F., et al, (1979, p 125-133, rus) **35-4329**

Alimentation
Role of glaciological investigations in the studies and development of mountainous regions — Kotlyakov, V.M., et al, (1980, p 37-40, rus) **35-1437**
Hydrochemistry of northern peatlands — Ivanov, A.V., et al, (1979, p 156-180, rus) **35-1524**
Glacier systems of the Northeastern USSR — Krenke, A.N., et al, (1980, p 17-33, rus) **35-1532**
Hydrology of northern swamps — Babikov, B.V., (1980, p 14-26, rus) **35-1861**
Formation of large naleds — Kolotaev, V.N., (1980, p 37-45, rus) **35-1867**
Regime of glaciers — Krenke, A.N., (1980, p 20-23, rus) **35-2806**
Forecasting glacial runoff of mountain rivers — Abdiani, I.S., et al, (1980, p 42-49, 124-129, rus) **35-2815**
Glacier runoff related to Columbia River hydroelectric power generation — Tangborn, W.V., (1980, p 62-67, 140-143, rus) **35-2818**
Modeling glacial runoff in river basins — Christensen, M., et al, (1980, p 81-86, 154-157, rus) **35-2821**
Analytical method of calculating runoff storage — Kikkenlo, V.A., et al, (1980, 200p, rus) **35-3641**

All terrain vehicles
Transportation and residential houses for the North — (1980, p 26-27, rus) **35-3012**

Alloys
Frost resistant nickel containing steel 12GN25MI AII — Mukhanov, K.K., et al, (1981, p 133-136, rus) **35-4292**

Alluvium
Slope processes in permafrost areas — Kolesnikov, S.I., (1979, p 68-74, rus) **35-65**
Periglacial phenomena in the Chaglinka River valley — Meshchikhin, D.V., (1979, p 133-140, rus) **35-195**
Studying global factors of climato-morphogenetic phenomena of the Far East — Nikol'skaia, V.V., ed, (1979, 163p, rus) **35-3045**
Mountain alluvium in the Far East — Korotkii, A.M., et al, (1979, p 94-117, rus) **35-3046**
Distribution and variability of soils near Atkasook, Alaska — Everett, K.R., (1980, p 433-446, eng) **35-3198**
Geocryological processes in the Far East — Shumilov, I.V., (1976, p 46-54, rus) **35-3829**
Thermokarst lakes in the Anadyr lowlands — Rozhkin, V.K., (1976, p 66-72, rus) **35-3831**
Cryogenic structure of the Amur River basin alluvium — Kostiaev, A.G., et al, (1981, p 126-153, rus) **35-4077**

Alpine glaciation
Periglacial levels in high mountains of Europe and North Africa — Poser, H., ed, (1977, 354p, ger) **35-1750**

Alpine landscapes
Conference on climate, relief and human activities — (1976, 155p, rus) **35-11**
Nivation and nival niches — Vyrkin, V.B., (1978, p 152-154, rus) **35-21**
Development of bald mountain landscapes — Nikonova, R.I., et al, (1978, p 154-155, rus) **35-22**
Geomorphology and neotectonics of mountain areas in the Far East — Sizikov, A.I., ed, (1977, 132p, rus) **35-57**
Formation of rock streams in the Far East — Sklyf'nik, G.P., (1977, p 86-88, rus) **35-59**
Calculating vertical air temperature gradients in mountains — Blagoveshchenskii, V.P., (1979, p 83-87, rus) **35-190**
Soil formation in mountain taiga — Ogorodnikov, A.V., (1980, p 58-72, rus) **35-300**
Chemistry of cryogenic mountain forest soils — Zueva, K.G., (1980, p 73-84, rus) **35-301**
Mudflow formation in high mountains — Vinogradov, V.V., (1980, p 82-85, rus) **35-455**
Slope processes in Alpine taiga — Rashba, I.N., (1978, p 86-122, rus) **35-880**
Photosynthesis of alpine meadow plants — Goryshina, T.K., et al, (1980, p 21-26, rus) **35-1038**
Physiology of Alpine meadow plants — Bannikova, I.V., et al, (1980, p 27-35, rus) **35-1039**
Seasonal development of vegetation in Siberian mountains — Lobanov, A.I., (1980, p 91-93, rus) **35-1040**
Movement rate of solifluction lobes in the Yukon Territory — Alexander, C.S., et al, (1980, p 365-379, eng) **35-1129**
Dynamics of microbiological processes in soils and the factors influencing it. Pts. 1 and 2 — Ryys, O., ed, (1974, 2 vols., rus) **35-1202**
Seasonal variations in microbiology of Alpine soils — Naplekova, N.N., (1974, p 153-156, rus) **35-1214**
Altitudinal zonation of mountain vegetation in the USSR — Stanukovich, K.V., (1980, p 74-81, rus) **35-1440**
Weather-forming factors and their role in bioclimatology — Pogosian, Kh.P., ed, (1980, 108p, rus) **35-1448**
Thermal regime of soils in the USSR — Dimo, V.N., (1980, p 47-59, rus) **35-1449**
Permafrost in Altai Mountains — Maloletko, A.M., (1970, p 204-212, rus) **35-1572**
Subalpine cryosolic soils in Banff and Jasper National Parks — Achuff, P.L., et al, (1980, p 579-581, eng) **35-1708**
Weathering in some arctic-alpine soils — Ellis, S., (1980, p 371-385, eng) **35-1709**
Slope orientation factor in landscape development — Shcherbakov, I.A., (1975, p 24-34, rus) **35-1788**
Non-podsolized forest soils of Tannu-Ola (East Sayan Mountains) — Dedkov, V.S., (1979, p 100-118, rus) **35-1790**
Mudflows in Altai and Sayan Mountains — Abramenko, N.A., (1980, p 49-54, rus) **35-1806**
Climatic geomorphology of the Far East — Kapitsa, A.P., ed, (1978, 144p, rus) **35-1850**
Topography developing processes in northern taiga — Nikol'skaia, V.V., et al, (1976, p 81-85, rus) **35-1854**
Cryogenic processes in Sikhote-Alin — Korotkii, A.M., (1976, p 100-123, rus) **35-1856**
Topography development under monsoon and continental climates — Korotkii, A.M., et al, (1976, p 124-138, rus) **35-1857**
Age and restoration dynamics of forests in the Ural Mountains and east of the Urals — Kolesnikov, B.P., (1976, 168p, rus) **35-1916**
Genetic classification of mountain forests — Machov, V.N., et al, (1976, p 3-91, rus) **35-1917**
Geomorphological processes under different climatic conditions — Poser, H., ed, (1974, 439p, ger) **35-1942**
Experimental determination of the processes producing small polygonal sorted alpine soils — Pissart, A., (1974, p 241-248, fre) **35-1943**
Mudflows in relation to climate and topography, Canadian Rocky Mts — Owens, I.F., (1974, p 313-318, eng) **35-1949**
Arid and periglacial processes in the subtropical semideserts mountains — Hollermann, P., (1974, p 333-355, ger) **35-1951**
Vertical distribution of plants in the Patomana Mountains — Kuvaev, V.B., (1980, 261p, rus) **35-2051**
Radiant energy exchange in forest snow cover — Marks, D., et al, (1980, p 43-49, eng) **35-2225**
Energy and mass balance of a deep alpine snow cover — Davis, R., et al, (1980, p 62-67, eng) **35-2227**
Mapping snow surface temperature from satellite data, Sierra Nevada — Frampton, M., et al, (1980, p 93-96, eng) **35-2231**
Natural and regulated alpine rivers — resemblances and differences in morphology, their influence on river fauna — Jaeggi, M., (1980, p 85-90, ger) **35-2246**
Soil formation in different Alpine landscapes — Kovda, V.A., et al, (1980, p 71-75, rus) **35-2275**
Soils of taiga and forested bald-peak areas — Ogorodnikov, A.V., (1980, p 81-83, rus) **35-2280**
Cryogenic Alpine soils of Mongolia — Maksimovich, N.V., (1980, p 83-85, rus) **35-2281**
Implications of alternative national energy policies for tundra ecosystems — Schofield, E.A., (1980, p 274-296, eng) **35-2316**
Thermal regime in lakes of the Kodar Range — Glavatskii, N.S., et al, (1980, p 15-28, rus) **35-2333**
High-altitude vegetation of West Sayan Mountains — Vtyurenko, A.I., (1980, p 175-200, rus) **35-2483**
Principle of railway line selection in alpine permafrost regions — Qu, G., et al, (1981, p 278-287, eng) **35-2509**
Glacial mudflows in Central Asia — Nikitin, A.M., et al, (1980, p 107-110, 175-178, rus) **35-2826**
Late glacial floras in eastern China — Kong, Z., et al, (1980, p 29-32, chi) **35-2915**
Geographic aspects of Siberian taiga — Sochava, V.B., (1980, 256p, rus) **35-2951**
Relationships between snow distribution and climate in mountain areas — Yamada, T., et al, (1981, p 109-118, eng) **35-3024**
Studying global factors of climato-morphogenetic phenomena of the Far East — Nikol'skaia, V.V., ed, (1979, 163p, rus) **35-3045**
Vegetation of Alpine tundra — Andreeva, V.N., (1980, p 40-49, rus) **35-3066**
Protection of Arctic tundra vegetation — Isaeva, V.I., (1980, p 49-50, rus) **35-3067**
Protection of Alpine tundra vegetation — Kostina, V.A., (1980, p 67-71, rus) **35-3068**
Soil development and rock weathering in the Ellsworth Mountains — Bockheim, J.G., et al, (1980, p 33-54, eng) **35-3170**
Vegetation of the southern part of the Barguzin Range — Tulina, L.N., (1981, 85p, rus) **35-3228**
Isotope methods of studying rock stream formation — Motkovkina, I.K., et al, (1981, p 90-96, rus) **35-3300**
Rock weathering in snow field areas — Vyrkin, V.B., (1980, p 101-107, rus) **35-3472**
Transpiration of taiga vegetation — Antipov, V.N., et al, (1980, p 115-124, rus) **35-3474**
Glacial and morphoclimatic indices of the Baykal Highlands — Vyrkin, V.B., et al, (1980, p 113-118, rus) **35-3479**
Slope and slope processes — Mosley, M.P., (1981, p 114-122, eng) **35-3565**
Alpine vegetation of the Indian Peaks area, Colorado — Komarkova, V., (1979, 591p + figs + maps, eng) **35-3604**
Resemblances and differences in vegetation of the Alps and Caucasus — Grebenshchikov, O.S., et al, (1981, p 343-352, fre) **35-3743**
Alpine vegetation in the Indian Peaks area, Colorado Rocky Mts — Komarkova, V., (1980, p 149-163, eng) **35-3767**
Interrelations between the components of forest and swamp ecosystems in the central taiga of the Ural area — Vasilevich, V.I., ed, (1980, 256p, rus) **35-3863**
New data on the phytogeography of Siberia — Krasnoborov, I.M., et al, (1981, 232p, rus) **35-3889**
Moss of the Altai-Sayan highlands — Gudoshnikov, S.V., (1981, p 52-60, rus) **35-3893**
Productivity of high altitude grass communities in the central Caucasus — Nakhutsrishvili, G.Sh., et al, (1980, 159p, rus) **35-3899**
Avalanche formation in the Katun' River basin — Chubenko, A.G., (1981, p 77-86, rus) **35-4303**
Glacial mudflows in Altai Mountains — Vinogradov, V.V., (1981, p 87-92, rus) **35-4304**

Alpine tundra
Edaphic factors and their influence in patterns of tundra revegetation — Everett, K.R., (1980, p.30-37, eng) 35-579
Vegetation of old oil wells on the Alaskan North Slope — Komarkova, V., et al., (1980, p.48-64, eng) 35-580
Impact of elk on alpine tundra in Rocky Mountain National Park — Stevens, D.R., (1980, p.228-241, eng) 35-593
Alpine tundra soils of the northern Urals — Zaboeva, I.V., et al., (1974, p.3-9, rus) 35-687
Botanical geography of Altai — Ogureeva, G.N., (1980, 192p., rus) 35-876
Complex geographic studies and the development of mountainous regions — Gvozdetskii, N.A., ed., (1980, 150p., rus) 35-1435
Altitudinal zonation of mountain vegetation in the USSR — Stanukovich, K.V., (1980, p.74-81, rus) 35-1440
Environmental protection of mountain landscapes — Makunina, A.V., et al., (1980, p.107-119, rus) 35-1441
Biological components of landscapes in the eastern Baykal-Amur railroad area — Babushkin, M.N., ed., (1979, 183p., rus) 35-1518
Tundra and taiga soils of Stanovoy Range — Ershov, I.I., (1979, p.112-131, rus) 35-1523
Seed production, dispersal and germination of alpine vegetation — Marchand, P.J., et al., (1980, p.137-146, eng) 35-1658
Mapping vegetational resources of permafrost areas — Geleta, I.F., et al., (1980, p.114-124, rus) 35-1707
Topography developing processes in northern taiga — Nikol'skaia, V.V., et al., (1976, p.81-85, rus) 35-1854
Geoecology of the Colorado Front Range — Ives, J.D., ed., (1980, 484p., eng) 35-1900
Soil loss in the Colorado Front Range sampling design and areal variation — Bovis, M.J., (1978, p.10-21, eng) 35-1902
Nocturnal arthropods in the alpine tundra of Colorado — Schmoller, R., (1971, p.345-352, eng) 35-1906
Age and restoration dynamics of forests in the Ural Mountains and east of the Urals — Kolesnikov, B.P., ed., (1976, 168p., rus) 35-1916
Genetic classification of mountain forests — Makhonin, A.S., et al., (1976, p.3-91, rus) 35-1917
Vertical distribution of plants in the Putorana Mountains — Kuvaev, V.B., (1980, 261p., rus) 35-2051
Soil formation in alpine tundra and taiga — Makeev, A.O., et al., (1980, p.30-31, rus) 35-2262
Dynamics of forest biogeocenoses in Siberia — Smagin, V.N., ed., (1980, 208p., rus) 35-2474
Larch phytocenoses in mountain taiga — Korotkov, I.A., et al., (1980, p.87-97, rus) 35-2478
New terms "dynamics" and "ecogenesis" of biogeocenoses — Smagin, V.N., (1980, p.201-205, rus) 35-2484
Biologic-floristic studies related to environmental protection in polar regions — Shilnikov, R.N., ed., (1980, 149p., rus) 35-3062
Protection of Arctic tundra vegetation — Tsareva, V.I., (1980, p.49-50, rus) 35-3067
Epilithophytic lichens of Alpine [illegible] — Antonova, I.M., (1980, p.87-95, rus) 35-3071
Liverworts of Alpine tundra — Konstantinova, N.A., (1980, p.96-107, rus) 35-3072
List of tundra plants in the Murmansk area — Kostolomov, M.N., et al., (1980, p.108-117, rus) 35-3073
Development of tundra science in the USSR — Aleksandrova, V.D., (1980, p.1513-1522, rus) 35-3214
Lichens of Arctic landscapes — Andreev, M.P., (1961, p.31-41, rus) 35-3221
Vegetation of the southern part of the Bargazin Range — Trulina, I.N., (1981, 85p., rus) 35-3228
Niwot Ridge, Colorado, USA — Webber, P.J., [illegible], p.780-782, eng) 35-3403
Increment and defoliation of tundra shrubs — Andreashkina, N.I., et al., (1981, p.80-83, rus) 35-3510
Energy exchange at the surface of high alpine tundra — Skartveit, A., (1976, 147p., eng) 35-3522
Geocryological processes in the Far East — Shumskii, P.A., et al., (1961, p.46-54, rus) 35-3829
Interrelations between the components of [illegible] swamp ecosystems in the central [illegible] Ural area — Vasilevich, V.I., ed., (1980, 256p., rus) 35-3863
Flora of pine forests in central [illegible] — Galo, D.N., (1981, p.197-210, rus) 35-3896
Biological cycle in boreal tundras in the southern Magadan area — Ignatenko, I.V., ed., (1977, 64p., rus) 35-4323
Altitudinal variations of tundra biomass — Ignatenko, I.V., et al., (1979, p.5-[illegible], rus) 35-4324
Biomass and biological cycle in tundras — Ignatenko, I.V., et al., (1977, p.[illegible]-24, rus) 35-4328
Alpine [illegible] the Bol'shoy Annachag Range (at the source of the Kolyma River) — Berman, D.I., ed., (1980, 178p., rus) 35-4332
Alpine tundras in the Kolyma-Indigirka area — Alimov, A.V., et al., (1980, p.7-31, rus) 35-4333
Landscape structure of the Sibit-Tyellakh River basin — Egorova, E.N., (1980, p.32-53, rus) 35-4334
Soil cover structure in Alpine tundras — Ignatenko, I.V., et al., (1980, p.54-67, rus) 35-4335
Microbiology of Alpine tundra soils — Kulichevskaia, I.S., (1980, p.68-77, rus) 35-4336
Plants growing in Alpine tundra — Khokhriakov, A.P., (1980, p.78-92, rus) 35-4337
Alpine tundra vegetation in the Bol'shoy Annachag Range — Dokuchaeva, V.B., (1980, p.93-109, rus) 35-4338

Altiplanation
Climatic geomorphology of the Far East — Kapitsa, A.P., ed., (1978, 144p., rus) 35-1850
Topography developing processes in northern taiga — Nikol'skaia, V.V., et al., (1976, p.81-85, rus) 35-1854
Cryogenic processes in Sikhote-Alin — Korotkii, A.M., (1976, p.100-123, rus) 35-1856
Formation processes on snow patches in the Icelandic highlands — Schunke, E., (1974, p.274-286, ger) 35-1946
Cryoplanation in the Alps and Canadian Rocky Mts — Karrasch, H., (1974, p.287-300, ger) 35-1947

Altitude
Calculating vertical air temperature gradients in mountains — Blagoveshchenskii, V.P., (1979, p.83-87, rus) 35-190
Snow accumulation and melting at different altitudes of Mt. Teine, Hokkaido — Suzuki, S., et al., (1978, p.47-54, jap) 35-1539
Snow cover distribution on Axel Heiberg Island — Steffen, K., et al., (1980, p.211-223, eng) 35-2628
Ablation in a vertical ice profile in Greenland — Ambach, W., (1979, p.55-62, ger) 35-2644
Montane periglacial zone and its morphological lower limit — Hagedorn, J., (1980, p.96-103, eng) 35-3303
Calculating snow covered areas in high altitude zones — Tsarev, B.K., (1980, p.89-98, rus) 35-3579
Topoclimatic factors and development of rock glacier facies — Morris, S.E., (1981, p.329-338, eng) 35-4264

Analysis (mathematics)
Water and air vertical flow through porous media — Nakano, Y., (1980, p.124-133, eng) 35-845
Avalanche forecasting by discriminant analysis — Obled, C., et al., (1980, p.315-346, eng) 35-1825
Age of ice in drill holes at Vostok and Vostok-1 — Shumskii, P.A., et al., (1980, p.41-48, rus) 35-2030
Method for monthly charting of antarctic atmospheric precipitation — Briazgin, N.N., (1980, p.106-112, rus) 35-2183
Calculations of avalanche friction coefficients from field data — Martinelli, M., Jr., et al., (1980, p.109-119, eng) 35-2354
Surface widths of simple liquids and an empirical law of freezing — Mon, K.K., et al., (1981, p.2078-2080, eng) 35-2461
Remote sensing of revegetation of burned tundra, Kokolik River, Alaska — Hall, D.K., et al., (1980, p.263-272, eng) 35-2462
Numerical interpretation of resistivity sounding data in permafrost — He, Y., (1980, p.37-39, chi) 35-2663
Molecular theory for the solid-liquid interface — Haymet, A.D.J., et al., (1981, p.2559-2565, eng) 35-2709
Transport of matter, impulse and heat in porous media — Diersch, H.-J., (1980, p.351-407, ger) 35-3563
"Spinodals" in the mean field theory of freezing — Klein, W., et al., (1981, p.6960-6964, eng) 35-3693
Sensitivity analysis of steady, free floating ice — Omstedt, A., (1980, 31p., eng) 35-3700

Anchors
Pipeline anchors for northern swamps — Gumerov, A.G., et al., (1980, p.6-7, rus) 35-621
Anchoring pipelines in northern swamps — Postnikov, V.V., et al., (1980, p.7-10, rus) 35-622
Deflection of icebergs by anchors — Mellor, D.C., (1980, p.87-88, eng) 35-821
Construction of river harbors under severe climatic conditions — Rikhter, O.B., et al., (1980, p.18-20, rus) 35-1299
Pipeline construction in the Far North — Blinov, M.A., (1980, p.23-25, rus) 35-1303
AP-401 anchors for pipelines in frozen ground — Trofimov, A.S., (1980, p.13-14, rus) 35-1635
Instructions for designing walls and water resistant screens — (1976, 33p., rus) 35-1714
Wall-in-the ground method of building foundations and structures — Smorodinov, M.I., et al., (1976, 129p., rus) 35-1718
Mooring systems and rig anchor release in drilling operations, Arctic — Lasch, J.E., et al., (1980, p.339-344, eng) 35-3638
Recommendations for pipeline construction in permafrost areas — (1981, p.36-38, rus) 35-4243

Animals
Environmental studies (1974), James Bay territory and surrounding area — (1975, 108p. + 14 figs., eng) 35-566
Impact of elk on alpine tundra in Rocky Mountain National Park — Stevens, D.R., (1980, p.228-241, eng) 35-593
Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979 — (1980, 925p., eng) 35-846
In vitro and nylon-bag digestibilities of reindeer and caribou forages — Person, S.J., et al., (1980, p.613-622, eng) 35-848
Effects of fire in Alaska and adjacent Canada — a literature review — Viereck, L.A., et al., (1980, 124p., eng) 35-891
Nutritional ecology of microtine rodents: digestibility of forage — Batzli, G.O., et al., (1979, p.740-750, eng) 35-989
Cryopelagic fauna of the Central Arctic Basin — Mel'nikov, I.A., et al., (1980, p.97-111, rus) 35-1318
Demographic features of a Lapland longspur population near Barrow, Alaska — Custer, T.W., et al., (1977, p.505-525, eng) 35-1682
Use of space by Lapland longspurs breeding in Arctic Alaska — Tryon, P.R., et al., (1980, p.509-520, eng) 35-1683
Responses of Arctic tundra to intensive muskox grazing — McKendrick, J.D., (1981, p.49-55, eng) 35-1694
SUNDAY, a simulation model of an arctic Daphnia population — Stross, R.G., et al., (1979, p.549-562, eng) 35-1785
Mineral nutrition of brown lemmings — Barkley, S.A., et al., (1980, p.103-114, eng) 35-1786
Nocturnal arthropods in the alpine tundra of Colorado — Schmoller, R., (1971, p.345-352, eng) 35-1906
Arctic ecosystem: the coastal tundra at Barrow, Alaska — Brown, J., ed., (1980, 571p., eng) 35-1929
Herbivore-based trophic system in coastal tundra — Batzli, G.O., et al., (1980, p.335-410, eng) 35-1939
Detritus-based trophic system in coastal tundra — MacLean, S.F., Jr., (1980, p.411-457, eng) 35-1940
Arctic animal ecology — Remmert, H., (1980, 250p., eng) 35-2023
Marine mammals inhabiting the Baffin Bay North Water in winter — Finley, K.J., et al., (1980, p.724-738, eng) 35-2171
Selective feeding of Red Phalaropes on zooplankton of arctic ponds — Dodson, S.I., et al., (1980, p.755-763, eng) 35-2239
Ecological roles of river icings in the Tsichu River Valley, Northwest Territories, Canada — Gill, D., et al., (1981, p.119-125, eng) 35-3025
Nutritional ecology of microtine rodents in tundra, Alaska — Batzli, G.O., et al., (1980, p.483-499, eng) 35-3201
Ecology of ground squirrels near Atkasook, Alaska — Batzli, G.O., et al., (1980, p.501-510, eng) 35-3202
Forage consumption by reindeer and caribou near Atkasook, Alaska — White, R.G., et al., (1980, p.511-529, eng) 35-3203
Plant-eating animals and fertilization of tundra soils — McKendrick, J.D., et al., (1980, p.565-578, eng) 35-3206
Environmental assessment of the Alaskan continental shelf, Vol.7 — Biological studies (1981, 678p., eng) 35-3253
Tundra ecosystems: a comparative analysis — Bliss, L.C., ed., (1981, 813p., eng) 35-3373
Herbivory: a strategy of tundra consumers — Batzli, G.O., et al., (1981, p.359-375, eng) 35-3385
Populations and energetics of small mammals in the tundra ecosystem — Batzli, G.O., (1981, p.377-396, eng) 35-3386
Ungulates on arctic ranges — White, R.G., et al., (1981, p.397-483, eng) 35-3387
Predatory birds and mammals — Fitzgerald, B.M., (1981, p.485-508, eng) 35-3388
Introduction to invertebrates in tundra — MacLean, S.F., Jr., (1981, p.509-516, eng) 35-3389
Invertebrate faunas at IPB tundra sites — Ryan, J.K., (1981, p.517-539, eng) 35-3390
Point Barrow, Alaska, USA — Brown, J., (1981, p.775-776, eng) 35-3400
Prudhoe Bay, Alaska, USA — Walker, D.A., (1981, p.776-777, eng) 35-3401
Eagle Summit, Alaska, USA — Anderson, J.H., et al., (1981, p.779-780, eng) 35-3402
Snow and living things — McKay, G.A., et al., (1981, p.3-31, eng) 35-3746
Effects of the Trans-Alaska pipeline on caribou movements — Cameron, R.D., et al., (1980, 16p., eng) 35-3923
Breeding of Say's Phoebe in Arctic Alaska — Cade, T.J., et al., (1973, p.360-361, eng) 35-4008
Deep-sea traces from the central Arctic: an analysis of diversity — Kitchell, J.A., (1979, p.1185-1198, eng) 35-4224
Alpine bird communities of western North America — Braun, C.E., (1980, p.280-291, eng) 35-4235
Semipalmated Sandpiper in Alaska: reproductive strategies and tactics — Safriel, U.N., (1980, p.425, eng) 35-4236
Breeding territories of Lapland Longspurs, arctic Alaska — Seastedt, T.R., et al., (1979, p.131-142, eng) 35-4237

Anisotropy
Proceedings — (1980, 505p., eng) 35-545
Physical properties of sea ice and under-ice current orientation — Kovacs, A., et al., (1980, p.109-153, eng) 35-550
Crystal anisotropy in sea ice — Langhorne, P., (1980, p.189-224, eng) 35-552
Polarization studies in sea ice — Arcone, S.A., et al., (1980, p.225-245, eng) 35-553
Modeling of anisotropic electromagnetic reflection from sea ice — Golden, K.M., et al., (1980, p.247-294, eng) 35-554
Modeling of anisotropic electromagnetic reflection from sea ice — Golden, K.M., et al., (1980, 15p., eng) 35-1722
Sea ice anisotropy, electromagnetic properties and strength — Kovacs, A., et al., (1980, 18p., eng) 35-1891

Anisotropy *(cont.)*
Magnetic susceptibility and its anisotropy in studying glacial transport. Puranen, R. (1977, p.111-119, eng) **35-2730**

Antarctica
United States antarctic research for 1980 report to SCAR (1980, 90p., eng) **35-183**
Deep Freeze 1980 Cruise Report (1980, 72p., eng) **35-184**
CNSFA Operation [illegible] No.1-V.1 (1980-1981) (1980, c.100.) **35-328**
Nitrogenous [illegible] Antarctic snow and ice. Pa[illegible] (1982, eng) **35-660**
Oases in Ant[illegible] (1969, 146p., eng) **35-898**
Satellite data o[illegible] conditions. Dobrotvyslov, V.N. (1978, [illegible]) **35-1002**
Past ... future of ant[illegible] glaciation. Miagkov, S.M. (1980, p.79-8[illegible], eng) **35-1007**
Sources of twelve trace metals in antarctic snows. Boutron, C., et al. (1980, p.5631-5638, eng) **35-1118**
Stratospheric sulfate in antarctic snow. Delmas, R., et al. (1980, p.5645-5649, eng) **35-1119**
Soviet glaciological studies in 1979. Kotlyakov, V.M., et al. (1980, p.5-13, rus) **35-1219**
Problem of a glacier inventory of Antarctica. Swithinbank, C. (1980, p.229-236, eng) **35-1284**
1980-81 ANARE report. (1980, 62p., eng) **35-1400**
Characteristics of iceberg drift. Eskin, I.I. (1980, p.68-76, rus) **35-1455**
Iceberg drift in the Antarctic Circumpolar Current. Eskin, I.I. (1980, p.77-81, rus) **35-1456**
Melting of antarctic fast ice. Nazintsev, B.I. (1[illegible] p.97-101, rus) **35-[illegible]**
Infiltration and freezing of sea water in coastal g[illegible]. Dubrovin, I.I., et al. (1980, p.104-108, rus) **35-[illegible]**
Analysis of Cl-36 in environmental water samples [illegible] electrostatic accelerator. Elmore, D., et al. (1[illegible] p.22-25, eng) **35-[illegible]**
At the poles in Antarctica. Tolstikov, E.I. (1980, 160p., rus) **35-1854**
Several properties of the radio emission of land surfaces. Gurvich, A.S. (1973, 29p., eng) **35-1895**
Morphometric features of the antarctic ice cover. Aver'ianov, V.G. (1980, p.5-9, rus) **35-2024**
Determining the components of antarctic ice cover mass exchange with the atmosphere. Aver'ianov, V.G., (1981, p.10-16, rus) **35-2025**
Thermal regime of ice cover during thaw. Klokov, V.D., (1980, p.23-28, rus) **35-2027**
Extent of meltwater areas in Antarctica. Klokov, V.D., (1980, p.29-35, rus) **35-2028**
Report of 15th SCAR and 9th IMGP meetings. Aver'ianov, V.G., et al. (1980, p.128-132, rus) **35-2047**
Antarctic climatic research. Dolgin, I.M., ed. (1980, 206p., rus) **35-2178**
Short-wave radiation regime in Antarctica based on 20 years of observation. Marshunova, M.S., (1980, p.11-19, rus) **35-2179**
Glaciochimatological research topics in Antarctica. Aver'ianov, V.G. (1980, p.85-89, rus) **35-2182**
Method for monthly charting of antarctic atmospheric precipitation. Briazgin, N.N., (1980, p.106-112, rus) **35-2183**
Movement of continental ice. Bagrov, N.A., (1980, p.54-62, rus) **35-2249**
Meteorological processes in the antarctic atmosphere. Helbig, A., (1980, p.64-79, ger) **35-2435**
Historical record of global atmospheric pollution revealed in polar ice sheets. Boutron, C., et al. (1980, p.210-215, eng) **35-2470**
On the estimation of antarctic iceberg melt rate. Neshyba, S., et al. (1980, p.1681-1685, eng) **35-2471**
Review of sea-ice weather relationships in the Southern Hemisphere. Ackley, S.F., (1981, p.127-159, eng) **35-3026**
Effect of sea ice on a general circulation model of the Southern Hemisphere. Simmonds, I., (1981, p.193-206, eng) **35-3030**
Geographic names of the Antarctic. Alberts, F.G., ed. (1981, 959p., eng) **35-3164**
Antarctic research programme of the Federal Republic of Germany (1981, 169p., eng) **35-3917**
U.S. report to SCAR, 1981 (1981, 79p., eng) **35-4044**

—Adelie Coast
Marine sediment core descriptions IWSOE 68, 69, 70: Deep Freeze 79. Anderson, J.B., et al. (1981, 60p., eng) **35-2148**
Late Quaternary geology of the George V and Adelie continental shelf. Domack, E.W., (1980, p.127-128, eng) **35-3192**

—Allan Hills
Gas in ice from Allan Hills and Byrd Station. Fireman, E.L., (1979, p.85-86, eng) **35-662**
JARE activities near McMurdo Sound, 1978-79. Nishio, F., et al. (1980, p.137-148, jap) **35-1055**
Ice flow in the bare ice area near the Allan Hills. Nishio, F., et al. (1980, p.1-13, eng) **35-2964**
Glaciological studies in Allan Hills, 1979-80. Annexstad, J.O., et al. (1980, p.65-66, eng) **35-3176**
Radioactive dating and the compositions of the gas in Antarctic ice. Fireman, E.L., (1980, p.67-68, eng) **35-3177**

—Amundsen-Scott Station
Heavy metal enrichment in antarctic snow and firn. Warburton, J.A., et al. (1979, p.76-78, eng) **35-657**
Microparticle deposition at South Pole. Mosley-Thompson, E., et al. (1979, p.91-93, eng) **35-665**
Winter ice crystals at South Pole. Ohtake, T., et al. (1979, p.201-203, eng) **35-679**
Atmospheric aerosols over the antarctic ice sheet. Shaw, G.E., (1981, p.911-921, eng) **35-2892**
Polar Ice Coring Office (PICO) drilling activities, 1979-80. Kuivinen, K.C., et al. (1980, p.76-77, eng) **35-3183**
911 years of microparticle deposition at the South Pole. Mosley-Thompson, E., (1980, 134p., eng) **35-3809**

—Antarctic Peninsula
Short-term fluctuations in heavy metal concentrations in antarctic snow. Tandy, M.P., et al. (1981, p.144-146, eng) **35-3368**

—Argentine Islands
Rate of peat accumulation in antarctic moss banks. Fenton, J.H.C., (1980, p.211-228, eng) **35-1170**

—Black Island
Cape Spirit mirabilite beds. Brady, H.T., et al. (1979, p.50-72, eng) **35-642**
Pliocene marine sediments of southern McMurdo Sound area. Leckie, R.M., et al. (1979, p.54-56, eng) **35-645**

—Bonney, Lake
Stable isotope and radio echo sounding investigations in Taylor Valley. Drewry, D.J., (1979, p.93-94, eng) **35-666**

—Byrd Glacier
Glacial history of the Byrd-Darwin Glacier area. Denton, G.H., (1979, p.57-58, eng) **35-646**
Interpretation of Rb-Sr dates of feldspar in tillite on Mt Tuatara, Byrd Glacier. Faure, G., et al. (1980, p.59-60, eng) **35-3174**
Apparent surface lowering on Byrd Glacier between 1960 and 1978. Brecher, H.H., (1980, p.64-65, eng) **35-3175**

—Byrd Station
Creep and fracture of ice and strains of glaciers and sea ice. Goodman, D.J., (1977, 149p. + plates, eng) **35-135**
Heavy metal enrichment in antarctic snow and firn. Warburton, J.A., et al. (1979, p.76-78, eng) **35-657**
Glacial processes. Embleton, C., (1979, p.272-306, eng) **35-1688**
Glacier accumulation zone reaction to climate changes. Whillans, I.M., (1981, p.4274-4282, eng) **35-3913**

—Campbell Glacier
Coastal ice sheet in Enderby Land, Antarctica: relief, movement and mass balance. Meier, S., (1977, 104p., ger) **35-1413**

—Darwin Glacier
Glacial history of the Byrd-Darwin Glacier area. Denton, G.H., (1979, p.57-58, eng) **35-646**
Pedology of the Darwin Glacier area. Bockheim, J.G., et al. (1979, p.58-59, eng) **35-647**

—Darwin Mountains
Microclimate and weathering processes in the area of Darwin Mountains and Bull Pass, Dry Valleys. Miotke, F.-D., (1980, p.14-16, eng) **35-3168**

—Davis Valley
Dufek Massif and Forrestal Range glacial geology. Boyer, S.J., (1979, p.46-48, eng) **35-640**

—Dome C
Nature of snow cover density distribution along a Pionerskaya Station–Dome C profile. Diurgerov, M.B., et al. (1980, p.66-69, rus) **35-2034**
Glaciological research at the South Pole, Dome C and in the McMurdo Sound area in 1974-1976. Barkov, N.I., (1980, p.107-113, rus) **35-2043**
Anomalous behaviour of Dome C ice core (East Antarctica) studied by mechanical damping measurements. Vassoille, R., et al. (1980, p.491-498, eng) **35-2887**
Climatic evidence from Dome C ice core. Lorius, C., et al. (1981, p.217-225, eng) **35-3032**
Dome C geophysical survey, 1979-80. Shabtaie, S., et al. (1980, p.2-5, eng) **35-3165**
Deep geoelectric and electromagnetic soundings at Dome C. Thyssen, F., et al. (1980, p.69-71, eng) **35-3179**
Microparticle concentration in the 905-meter Dome C core. Mosley-Thompson, E., et al. (1980, p.71-75, eng) **35-3180**
Shallow-depth temperature models for Dome C. Ewing, R.E., (1980, p.75-76, eng) **35-3181**
French field activities at Dome C. Lorius, C., (1980, p.76, eng) **35-3182**

—Don Juan Pond
Artesian well at Don Juan Pond. McGinnis, L.D., (1979, p.26-27, eng) **35-637**
Hydrology and hydrogeochemistry of the Don Juan Pond area. Harris, H.J.H., (1981, 341p., eng) **35-3607**

—Dufek Massif
Aerial survey of ice thickness of the Dufek Massif. Behrendt, J.C., et al. (1980, p.1014-1017, eng) **35-218**
Dufek Massif and Forrestal Range glacial geology. Boyer, S.J., (1979, p.46-48, eng) **35-640**

—East Antarctica
Specific features in the formation of chemical composition of natural waters in East Antarctica. Bardin, V.I., et al. (1980, p.166-171, rus) **35-1251**
Geodetic and glaciological activities in East Antarctica, 1962-1978. Meier, S., (1980, p.24-31, ger) **35-2431**
Mass balance studies in East Antarctica. Morgan, V.I., et al. (1981, p.253-260, eng) **35-3037**
Glaciation, erosion and uplift over part of East Antarctica. Wellman, P., et al. (1981, p.142-144, eng) **35-3367**

—Ellsworth Mountains
Soil development and rock weathering in the Ellsworth Mountains. Bockheim, J.G., et al. (1980, p.33-34, eng) **35-3170**
Glacial history of the Ellsworth Mountains. Rutford, R.H., et al. (1980, p.56-57, eng) **35-3172**

—Erebus Glacier Tongue
Mechanism for the formation of large icebergs. Holdsworth, G., et al. (1981, p.3210-3222, eng) **35-3371**

—Filchner Ice Shelf
Satellite observations of the ice edge in coastal areas from Queen Maud Land to the Filchner Ice Shelf. Germandi, H., (1979, p.127-131, ger) **35-3489**

—Fildes Peninsula
Glaciological and geocryological field studies on King George Island during the 25th Soviet antarctic Expedition. Vtiurin, B.I., (1980, p.30, rus) **35-2811**

—Forrestal Range
Dufek Massif and Forrestal Range glacial geology. Boyer, S.J., (1979, p.46-48, eng) **35-640**

—Gamburtsev Subglacial Mountains
Connection between the Gamburtsev and Vernadsky Mountains. Koblents, I.A.P., (1980, p.224-233, eng) **35-2629**

—George V Coast
Transport and depositional mechanisms in glacial marine sediments. Domack, E.W., et al. (1980, p.813-820, eng) **35-884**
Late Quaternary geology of the George V and Adelie continental shelf. Domack, E.W., (1980, p.127-128, eng) **35-3192**

—Hatherton Glacier
Glacial history of the Byrd-Darwin Glacier area. Denton, G.H., (1979, p.57-58, eng) **35-646**

—Hays Glacier
Coastal ice sheet in Enderby Land, Antarctica: relief, movement and mass balance. Meier, S., (1977, 104p., ger) **35-1413**
Tritium in ice near Molodezhnaya Station. Herbert, D. et al. (1980, p.91-94, rus) **35-2039**
Methodology of the geological investigation of Hays Glacier. Dietrich, H., (1980, p.20-24, ger) **35-2430**

—Hobbs Coast
Geology of Hobbs Coast, Marie Byrd Land. LeMasurier, W.E., et al. (1979, p.48-50, eng) **35-641**

—Law Dome
Chemical concentrations in ice cores from Law Dome. Johnson, B.B., et al. (1981, p.771-776, eng) **35-2885**

—Lazarev Ice Shelf
Drilling through shelf ice near Novolazarevskaya Station. Korotkevich, E.S., et al. (1979, 11p., eng) **35-1057**

—Little America
Little America: town at the end of the world. Carter, P.A., (1979, 301p., eng) **35-2863**

—Lutzow-Holm Bay
Variations of sea ice conditions in Lutzow-Holm Bay area in Antarctica in the last 20 years. Kusunoki, K., (1981, p.171-176, eng) **35-3028**

—Marie Byrd Land
Fission track ages of Marie Byrd Land volcanic rocks. Seward, D., et al. (1980, p.19, eng) **35-3169**

—Mawson Station
Antarctic sea ice growth and oceanic heat flux. Allison, I., (1981, p.161-170, eng) **35-3027**

—McMurdo Sound
Seismic refraction measurements from sea ice in western McMurdo Sound. McGinnis, L.D., (1979, p.34-35, eng) **35-638**
Pliocene marine sediments of southern McMurdo Sound area. Leckie, R.M., et al. (1979, p.54-56, eng) **35-645**
Subsurface measurements of McMurdo Ice Shelf. Gow, A.J., et al. (1979, p.79-80, eng) **35-659**
Relief-forming activity of the Ross and McMurdo Shelf glaciers, Antarctica. Miagkov, S.M., (1980, p.84-91, rus) **35-951**
Glaciological research at the South Pole, Dome C and in the McMurdo Sound area in 1974-1976. Barkov, N.I., (1980, p.107-113, rus) **35-2043**
Seismic refraction studies in western McMurdo Sound. McGinnis, L.D., (1980, p.11, eng) **35-3166**
Earth sciences research in the McMurdo Sound region, 1979-1980. Nagata, T., (1980, p.12, eng) **35-3167**

—McMurdo Station
Public works, Deep Freeze 79. Evans, R.I., (1979, p.235-237, eng) **35-683**

Mertz Glacier
Geological survey of east antarctic continental margin Anderson, J.B., et al. (1979, p.142-144, eng) 35-678

Meserve Glacier
Evolution of McMurdo Oasis glaciers according to phototheodolite survey Miagkov, S.M. (1980, p.99-102, rus) 35-2041

Minna Bluff
Pliocene marine sediments of southern McMurdo Sound area Leckie, R.M., et al. (1979, p.54-56, eng) 35-645

Mirnyy Station
Isotope and chemical composition of snow cover in East Antarctica (Studies along the Mirnyy-Vostok profile) Gordienko, F.G., et al. (1980, p.36-48, rus) 35-1224
Use of water balance method to evaluate precipitation measurement in Antarctica Averianov, V.G. (1980, p.17-22, rus) 35-2026
Preliminary estimate of ice cover flow in Antarctica using seismic data Sytinskii, V.D., et al. (1980, p.36-40, rus) 35-2029
Some features of snow accumulation on a Mirnyy-Vostok profile Lipenkov, V.Ia. (1980, p.59-65, rus) 35-2033
Thermal energy exchange in East Antarctica Averianov, V.G. (1981, p.32-39, eng) 35-3903

Mizuho Station
Research activities at Mizuho Station, 1977 Fujii, Y. (1980, p.2-10, jap) 35-1268
Temperature profiles at Mizuho Station Nishio, F., et al. (1981, p.239-246, eng) 35-3035
POLEX-South data, Part 2 Micrometeorological data at Mizuho Station, Antarctica in 1979 Wada, M., et al. (1981, 321p., eng) 35-3598
Glaciological data from JARE-20 Wada, M., et al. (1981, 43p., eng) 35-3599
Treatment and disposal system of waste materials at Mizuho Station Hayashida, S., et al. (1981, p.49-60, jap) 35-4174
Progress of Japanese glaciological research in Antarctica Kusunoki, K. (1981, p.55-61, eng) 35-4207

Molodezhnaya Station
Tritium in ice near Molodezhnaya Station Herbert, D., et al. (1980, p.91-94, rus) 35-2039

Ninnis Glacier
Geological survey of east antarctic continental margin Anderson, J.B., et al. (1979, p.142-144, eng) 35-678

Novolazarevskaya Station
Inherent noise of the Antarctic glacier in the Novolazarevskaya Station area and acoustic attenuations Gavrilo, V.P., et al. (1980, p.56-61, rus) 35-370
Oxygen-isotope analysis of Novolazarevskaya Glacier shelf ice cores Gordienko, F.G., et al. (1980, p.85-90, rus) 35-2038

Oasis Station
Techniques for measuring soil surface temperature Smirnov, S.V. (1972, 11p., eng) 35-247

Oates Coast
Winter climatic conditions in the Somov Sea Pettov, I.S., et al. (1980, p.72-78, rus) 35-2181

Omega, Cape
Glacio-geomorphological observations at Cape Omega Moriwaki, K. (1980, p.1-14, eng) 35-1054

Onyx River
Morphology of the Onyx River system, McMurdo Sound region, Antarctica Shaw, J., et al. (1980, p.223-238, eng) 35-2953

Orville Coast
Former glaciation of the Orville Coast region Carrara, P. (1979, p.45-46, eng) 35-639

Pensacola Mountains
Dufek Massif and Forrestal Range glacial geology Boyer, S.J. (1979, p.46-48, eng) 35-640

Pionerskaya Station
Nature of snow cover density distribution along a Pionerskaya Station Dome C profile Dzurgerov, M.B., et al. (1980, p.66-69, rus) 35-2034

Prince Olav Coast
Field operation of explosion seismic experiment in Antarctica Ikami, A., et al. (1980, p.158-182, jap) 35-1056

Queen Maud Land
Bottom sediments under the Novolazarevskaya ice shelf Kolobov, D.D., et al. (1980, p.93-96, rus) 35-1459
Satellite observations of the ice edge in coastal areas from Queen Maud Land to the Filchner Ice Shelf Gernandt, H. (1979, p.127-131, ger) 35-3489
Glaciological research in eastern Queen Maud Land Higashi, A. (1981, p.129-130, jap) 35-4273

Queen Maud Mountains
Glaciology and glaciogeomorphology in Victoria Land and Queen Maud Mountains Mayewski, P.A. (1979, p.53, eng) 35-644

Rennick Glacier
Glaciology and glaciogeomorphology in Victoria Land and Queen Maud Mountains Mayewski, P.A. (1979, p.53, eng) 35-644

Ronne Ice Shelf
Former glaciation of the Orville Coast region Carrara, P. (1979, p.45-46, eng) 35-639

Ross Ice Shelf
Freezing on the undersurface of the Ross Ice Shelf, Antarctica Zotikov, I.A., et al. (1979, p.1454-1457, rus) 35-437
Ross Ice Shelf Project 1978-79 Clough, J.W., (1979, p.60, eng) 35-648
Hot water drilling and coring on Ross Ice Shelf Browning, J.V., et al. (1979, p.60-61, eng) 35-649
Core drilling through Ross Ice Shelf Zotikov, I.A., et al. (1979, p.63-64, eng) 35-651
Ross Ice Shelf bottom ice structure Zotikov, I.A., et al. (1979, p.65-66, eng) 35-652
Ross Ice Shelf glaciology Thomas, R.H., et al. (1979, p.66-67, eng) 35-653
Surface accumulation on Ross Ice Shelf Clausen, H.B., et al. (1979, p.68-72, eng) 35-654
Temporal variations and correlations of Ross Ice Shelf snow chemistry Molenar, J.V., et al. (1979, p.72-74, eng) 35-655
Enhanced enrichment of metals in precipitation on Ross Ice Shelf Warburton, J.A., et al. (1979, p.75-76, eng) 35-656
Heavy metal enrichment in antarctic snow and firn Warburton, J.A., et al. (1979, p.76-78, eng) 35-657
Relief-forming activity of the Ross and McMurdo Shelf glaciers, Antarctica Miagkov, S.M., (1980, p.84-91, rus) 35-951
Ice-shelf grounding - ice and bedrock temperature changes MacAyeal, D.R., et al. (1980, p.397-400, eng) 35-1503
Time-related changes in snow chemistry Ross Ice Shelf, Antarctica Warburton, J.A., et al. (1981, p.27-39, eng) 35-2416
Responses of ice sheets to environmental changes Young, N.W., (1981, p.331-360, eng) 35-3038
Meteorological and seasonal effects of snow chemistry of Ross Ice Shelf, Antarctica Warburton, J.A., et al. (1981, p.17-37, eng) 35-4147
Primary production under Ross Ice Shelf Horrigan, S.G., (1981, p.378-382, eng) 35-4298

Ross Island
Atmospheric aerosols over the antarctic ice sheet Shaw, G.E., (1981, p.911-921, eng) 35-2892
Contribution to the geochemical study of the ice cover on James Ross Island, Antarctic Peninsula Aristarain, A.J., et al. (1980, p.113-126, spa) 35-3774

Ross Sea
Ross Sea glaciations events in the Lower Victoria Valley Borns, H.W., Jr., (1979, p.52-53, eng) 35-643
Heat and mass transfer at the lower surface of the Ross Ice Shelf Zotikov, I.A., et al. (1980, p.27-36, rus) 35-1223
Winter climatic conditions in the Somov Sea Pettov, I.S., et al. (1980, p.72-78, rus) 35-2181
Glacial marine sedimentation in the Ross Sea, DSDP sites 270-273 Biddle, K.B., (1980, p.57-59, eng) 35-3173
Antarctic glacial chronology reflected in Ross Sea sediments Balshaw, K.M., (1981, 140p., eng) 35-3915

Scallop Hill
Pliocene marine sediments of southern McMurdo Sound area Leckie, R.M., et al. (1979, p.54-56, eng) 35-645

Scott Glacier
Causes of mountain glacier oscillation in antarctic dry valleys Miagkov, S.M., (1980, p.95-98, rus) 35-2040

Shackleton Ice Shelf
Glaciological work on the Shackleton Ice Shelf (Jan.-Apr. 1978) Savatugin, L.M., (1980, p.114-118, rus) 35-2044

Shirase Glacier
Ice discharge from the Shirase drainage basin Fujii, Y., (1981, p.1-15, eng) 35-4220
Airborne radio echo sounding on Shirase Glacier Wada, M., et al. (1981, p.16-25, eng) 35-4221

Showa Station
Electrical conductivity of ice from a pond near Showa Station Nishimura, J., et al. (1978, p.67-76, jap) 35-1176
Ice algae near Showa Station Hoshiai, T., (1981, p.1-12, eng) 35-3596
Glaciological data from JARE-20 Wada, M., et al. (1981, 43p., eng) 35-3599
Progress of Japanese glaciological research in Antarctica Kusunoki, K., (1981, p.55-61, eng) 35-4207

Siple Station
New U.S. station for Antarctica Esser, A.C., (1981, p.288-299, eng) 35-2510

South Pole
Glaciological research at the South Pole, Dome C and in the McMurdo Sound area in 1974-1976 Barkov, N.I., (1980, p.107-113, rus) 35-2043

Spirit, Cape
Cape Spirit mirabilite beds Brady, H.T., et al. (1979, p.50-52, eng) 35-642

Taylor Glacier
Saline discharge at the terminus of Taylor Glacier Keys, J.R., (1979, p.82-85, eng) 35-661
Stable isotope and radio echo sounding investigations in Taylor Valley Drewry, D.J., (1979, p.93-94, eng) 35-666
Evolution of McMurdo Oasis glaciers according to phototheodolite survey Miagkov, S.M., (1980, p.99-102, rus) 35-2041

Taylor Valley
Soil development on moraines of Taylor Glacier, lower Taylor Valley, Antarctica Paston, J., et al. (1980, p.341-348, eng) 35-225

Transantarctic Mountains
Areas of bottom melting of ice cover in the Transantarctic Mountains Miagkov, S.M., (1980, p.103-106, rus) 35-2042
Ice sheet, subglacial basalts and uplift of the Transantarctic Mts Stump, E., et al. (1980, p.757-759, eng) 35-2792

Victoria Land
Characteristics and significance of rock glaciers in southern Victoria Land, Antarctica Mayewski, P.A., et al. (1980, p.68-69, eng) 35-3178
Adenosine triphosphate, chlorophyll, and organic nitrogen in the dry valleys Friedmann, E.I., et al. (1980, p.164-166, eng) 35-3193
241Pu/239+240Pu ratios in polar glaciers Konde, M., et al. (1981, p.239-247, eng) 35-4297

Victoria Valley
Ross Sea glaciations events in the Lower Victoria Valley Borns, H.W., Jr., (1979, p.52-53, eng) 35-643
Photogrammetric measurements of antarctic cirques in Victoria Valley Amya, M., et al. (1981, p.41-53, eng) 35-4019

Vostok Station
Isotope and chemical composition of snow cover in East Antarctica (Studies along the Mirnyy-Vostok profile) Gordienko, F.G., et al. (1980, p.36-48, rus) 35-1224
Use of water balance method to evaluate precipitation measurement in Antarctica Averianov, V.G., (1980, p.17-22, rus) 35-2026
Age of ice in drill holes at Vostok and Vostok-1 Shumskii, P.A., et al. (1980, p.41-48, rus) 35-2030
Variation in ice sheet thickness at Vostok and Vostok-1 Shumskii, P.A., et al. (1980, p.49-53, rus) 35-2031
Borehole compression in antarctic ice cover Shumskii, P.A., et al. (1980, p.54-58, rus) 35-2032
Some features of snow accumulation on a Mirnyy-Vostok profile Lipenkov, V.Ia. (1980, p.59-65, rus) 35-2033
Optical axis orientation in continental ice Portnov, V.G., et al. (1980, p.70-74, rus) 35-2035
Horizontal cracks in deep ice cores from Vostok Station Portnov, V.G., (1980, p.75-79, rus) 35-2036
Calculating elastic properties of ice at Vostok Station Dmitriev, D.N., et al. (1980, p.80-84, rus) 35-2037
Drilling experiments with drilling fluids Zagrivnyi, F.A., et al. (1980, p.119-123, rus) 35-2045
Mechanized water preparation at Vostok Zagrivnyi, F.A., et al. (1980, p.124-127, rus) 35-2046
Polar Ice Coring Office (PICO) drilling activities, 1979-80 Kuivinen, K.C., et al. (1980, p.76-77, eng) 35-3183
Thermal energy exchange in East Antarctica Averianov, V.G., (1981, p.32-39, eng) 35-3903

Weddell Sea
Positioning in polar regions Osterholt, P.A., (1979, p.125-137, eng) 35-167
Iceberg distribution in the Atlantic sector of East Antarctica (1977-78) Kuznetsov, I.M., (1980, p.82-87, rus) 35-1457
Marine sediment core descriptions IWSOE 68, 69, 70 Deep Freeze 79 Anderson, J.B., et al. (1981, 60p., eng) 35-2148
Physical characteristics and life expectancy of tabular antarctic icebergs Orheim, O., (1980, p.11-18, eng) 35-2198
Sonar studies of icebergs, ice fronts and ice walls Klepsvik, J.O., et al. (1980, p.31-36, eng) 35-2202
New data on the dynamics of ice shelves in the Weddell Sea Zakharov, V.G., et al. (1980, p.181-185, rus) 35-2828
Microwave observation of the Weddell polynya Carsey, F.D., (1980, p.2032-2044, eng) 35-3649

West Antarctica
Airborne geophysical investigations of ice sheet and bedrock, 1978-79 Drewry, D.J., et al. (1979, p.95-96, eng) 35-667
West antarctic ice sheet during the last glaciation Stuiver, M., et al. (1981, p.319-436, + 5 sheets, eng) 35-2069
If West Sheet melts rapidly - what then Bentley, C.R., (1980, p.20-21, eng) 35-2954
Responses of ice sheets to environmental changes Young, N.W., (1981, p.331-360, eng) 35-3038
Climatic change, ice sheets and sea level Flohn, H., (1981, p.431-440, eng) 35-3041
Antarctic glacial chronology reflected in Ross Sea sediments Balshaw, K.M., (1981, 140p., eng) 35-3915

Wilkes Land
Trace metals in antarctic snows since the 1880's Boutron, C., (1980, p.7426-7432, eng) 35-1911

Wright Valley
Glaciology and glaciogeomorphology in Victoria Land and Queen Maud Mountains Mayewski, P.A., (1979, p.53, eng) 35-644

Antifreezes
Strength of concretes with antifreeze admixtures Krylov, B.A., et al. (1979, p.27-28, rus) 35-474

Antifreezes *(cont.)*
Cargo freezing prevention and defrosting techniques (Alokha-Kokh, Kh., (1980, p.23-26, rus) **35-542**
Method for snow and ice removal Manzano, B.B., (1974, 61p., eng) **35-1563**
Carburetor ice flight testing: use of an anti-icing fuel additive Newman, R.L., (1981, p.5-6, eng) **35-2176**
Prevention of road pavement icing Rudakov, I.M., et al, (1980, p.11, 21, rus) **35-3005**
Strength of mortars with antifreeze admixtures Kuntsevich, O.V., et al, (1980, p.26-34, rus) **35-3527**
Corrosion of concrete reinforcements from antifreeze admixtures Sheikin, A.E., et al, (1980, p.35-44, rus) **35-3528**
Induced polarization of concretes with antifreeze admixtures Kurushin, A.D., et al, (1980, p.52-58, rus) **35-3529**
How to solve frozen-coal problems Baur, P.N., (1981, p.57-59, eng) **35-4015**

Arctic landscapes
Organizing construction in the Far North Tsaltuk, I.G., (1980, p.13-14, rus) **35-3**
Arctic and Antarctic: their division into geobotanical areas Aleksandrova, V.D., (1980, 247p., eng) **35-130**
Vegetation adaptations for Arctic survival Davids, R., (1980, p.56-63, eng) **35-248**
Classification of Arctic vegetation Aleksandrova, V.D., (1979, p.1715-1730, rus) **35-341**
Grazing effect on tundra vegetation Polezhaev, A.N., (1980, p.5-13, rus) **35-1036**
Weather-forming factors and their role in bioclimatology Pogosian, Kh.P., ed, (1980, 108p., rus) **35-1448**
Thermal regime of soils in the USSR Dimo, V.N., (1980, p.47-59, rus) **35-1449**
Vegetation of the European part of the USSR Gribova, S.A., ed, (1980, 429p., rus) **35-1491**
Chukotskiy Peninsula soils and vegetation Galanin, A.V., (1980, p.1174-1187, rus) **35-1566**
Soils of Taymyr Peninsula Vasil'evskaya, V.D., (1980, p.8-16, rus) **35-1612**
Geographic distribution of vascular plants in tundra Il'ertsev, B.A., et al, (1970, p.111-122, rus) **35-1613**
Vascular plant distribution in tundra Il'ertsev, B.A., et al, (1979, p.74-83, rus) **35-1614**
Climatic geomorphology of the Far East Kapitsa, A.P., ed, (1978, 144p., rus) **35-1850**
Climate and topography of Wrangel Island Skryl'nik, G.P., (1976, p.20-43, rus) **35-1851**
Surface stability in the presence of industrial activities in permafrost areas Grave, N.A., ed, (1980, 142p., rus) **35-2184**
Environmental protection in permafrost areas Grave, N.A., (1980, p.6-12, rus) **35-2185**
Environmental protection problems in Alaska and Canada Grave, N.A., (1980, p.135-141, rus) **35-2195**
Trends in ice cover development in the Arctic Basin Vasil'ev, S.V., (1972, p.69-70, rus) **35-2425**
Soil and bedrock as reflected in Arctic vegetation Paarma, H., et al, (1977, p.25-29, eng) **35-2721**
Facies of soil cryogenesis and peculiarities of soil profile arrangement in them Makeev, O.V., (1981, 87p., rus) **35-3053**
Development of agriculture in Siberia and the Far East Kashtanov, A.N., ed, (1980, 352p., rus) **35-3055**
Land reclamation in Siberia and the Far East Shumakov, B.B., (1980, p.89-96, rus) **35-3056**
Biologic-floristic studies related to environmental protection in polar regions Shlikov, R.N., ed, (1980, 149p., rus) **35-3062**
Physiology of some Arctic plants Filippova, L.N., (1980, p.9-26, rus) **35-3064**
Epilithophyte lichens of Alpine tundras Antonova, I.M., (1980, p.87-95, rus) **35-3071**
List of tundra plants in the Murmansk area Kostolomov, M.N., et al, (1980, p.108-117, rus) **35-3073**
Cells of leaf chlorenchyma in Arctic plants Miroslavov, E.A., et al, (1980, p.1523-1530, rus) **35-3215**
Lichens of Arctic landscapes Andreev, M.P., (1981, p.31-41, rus) **35-3221**
Cleistogamy in Arctic grasses Levkovskii, V.P., et al, (1981, p.116-120, rus) **35-3222**
Northern dwellings Putintsev, E., (1980, p.38-46, rus) **35-3230**
Natural resources of the northeastern USSR Lozhkin, A.V., ed, (1976, 152p., rus) **35-3825**
Climatic conditions of the Magadan Region Mel'nikova, T.V., (1976, p.5-21, rus) **35-3826**
Yamal Peninsula Danilova, N.S., et al, (1981, p.84-91, rus) **35-4072**
Pleistocene permafrost in the Taz Peninsula Belopukhova, E.B., (1981, p.92-96, rus) **35-4073**

Arctic Ocean
Conference on climate, relief and human activities (1978, 155p., rus) **35-11**
Temperature fields and sound transmission variations in the Arctic Ocean Bogorodskii, V.V., et al, (1980, p.967-970, rus) **35-306**
Physics of ice and ocean Bogorodskii, V.V., ed, (1980, 157p., rus) **35-360**
Electrical properties of Arctic sea ice Bogorodskii, V.V., et al, (1980, p.6-14, rus) **35-361**
Special instruments for acoustic studies in the Arctic Basin Gusev, A.V., et al, (1980, p.87-93, rus) **35-376**
Temperature fluctuations in the Central Arctic Basin Bogorodskii, P.V., et al, (1980, p.101-104, rus) **35-378**
Water temperature and salinity in the Arctic Basin Chebotareva, V.A., (1980, p.109-111, rus) **35-379**
Acoustic methods of studying ice cover dynamics Sosedova, A.L., et al, (1980, p.112-118, rus) **35-380**
Estuarine salinity of Arctic seas Brezgunov, V.S., et al, (1980, p.101-105, rus) **35-469**
Geomorphologic analysis of Arctic continental shelf Patyk-Kara, N.G., et al, (1980, p.91-98, rus) **35-952**
Consequences of Arctic river flow control Krenke, A.N., (1980, p.287-292, rus) **35-1261**
Regularities governing changes in regimes of Arctic seas in natural hydrologic periods Krutskikh, B.A., (1978, 91p., rus) **35-1282**
Biology of the Central Arctic Basin Vinogradov, M.E., ed, (1980, 260p., rus) **35-1312**
Pelagic zone ecosystems of the Arctic Basin Vinogradov, M.E., et al, (1980, p.5-14, rus) **35-1313**
Hydrochemical characteristics of Arctic Basin waters Rusanov, V.P., (1980, p.15-33, rus) **35-1314**
Surface morphology of Arctic Ocean ice Grishchenko, V.D., (1980, p.33-35, rus) **35-1315**
Bibliography on cryobiology of the Arctic Ocean Mel'nikov, I.A., (1980, p.56-61, rus) **35-1316**
Subsurface currents in the Arctic Ocean Belyakov, I.N., et al, (1980, p.752-754, rus) **35-1386**
Slow waves at the surface of the Arctic Ocean Fedorov, E.K., et al, (1980, p.1466-1468, rus) **35-1387**
Redistribution of river water resources in the USSR Sokolov, A.A., ed, (1980, 164p., rus) **35-1427**
Climatic changes due to diverting river courses Drozdov, O.A., et al, (1980, p.133-149, rus) **35-1432**
Subdivision of the Arctic Ocean into basins Klepikov, V.V., (1980, p.114-115, rus) **35-1569**
Icy routes Nikolaeva, A.G., et al, (1980, 128p., rus) **35-1574**
Reservoir effect on heat regime of rivers Odrova, T.V., (1980, p.90-93, rus) **35-1611**
Arctic sea ice and atmospheric circulation Johnson, C.M., (1980, p.1782-1791, eng) **35-1720**
Marine life and biogeography of the Canadian Eastern Arctic Dunbar, M.J., et al, (1980, 119p., eng) **35-1760**
Offshore landforms along the Arctic coast Danilov, I.D., et al, (1980, p.77-84, rus) **35-1765**
Cryogenic soils of tundra lake landscapes Evseev, A.V., (1980, p.173-174, rus) **35-2309**
Subglacial towing of a drift vessel Pikul', V., (1981, p.24-26, rus) **35-2854**
Oceanographic investigations in polar regions of the World Ocean Blinov, N.I., et al, (1980, 239p., rus) **35-2888**
Eastern-western Arctic sea ice analysis (1979, 104p., eng) **35-2928**
Proceedings (1980, 460p., eng) **35-2957**
Beach thaw depth on Canadian Arctic Islands (1980, p.103-121, fre) **35-2960**
Construction of artificial island in the Beaufort Sea Boone, D.J., (1980, p.231-247, fre) **35-2961**
Ice surface roughness effect on its microwave emission Nikitin, P.A., (1980, p.93-97, rus) **35-2984**
All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers Treshnikov, A.F., ed, (1980, 147p., rus) **35-3103**
Changes in Arctic natural conditions due to human activities Treshnikov, A.F., (1980, p.4-7, rus) **35-3104**
Ice conditions in Arctic river estuaries Ivanov, V.V., (1980, p.8-11, rus) **35-3105**
Evaluating hydrologic consequences of river diversion Kashinov, N.S., (1980, p.34-36, rus) **35-3111**
River diversion effect on hydrochemical conditions of the bay waters Perliuk, M.F., (1980, p.41-44, rus) **35-3113**
Pipe transportation by the Northern Sea Route Agapkin, V.M., et al, (1981, p.16-17, rus) **35-3345**
Ice conditions in the Arctic Ocean Arikainen, A.I., et al, (1980, p.83-88, rus) **35-3497**
Solar activity effect on ice conditions in oceans Kovalev, E.G., et al, (1980, p.89-93, rus) **35-3498**
Ice conditions in the Severnaya Zemlya area Kirillov, A.A., et al, (1980, p.94-100, rus) **35-3499**
Dependence of sea ice conditions on meteorological factors Kirillov, A.A., et al, (1980, p.101-108, rus) **35-3500**
Age composition of ice in the Arctic Ocean Zakharov, V.F., (1980, p.118-121, rus) **35-3502**
Arctic surface waters and ice cover stability Zakharov, V.F., (1980, p.122-134, rus) **35-3503**
Arctic Ocean temperature, salinity and density, March-May 1979 McPhee, M.G., (1981, 20p., eng) **35-3706**
Natural resources of the northeastern USSR Lozhkin, A.V., ed, (1976, 152p., rus) **35-3825**
Climatic conditions of the Magadan Region Mel'nikova, T.V., (1976, p.5-21, rus) **35-3826**
Erosion and deposition on Arctic shelves Pavlidis, Iu.A., et al, (1981, p.33-96, rus) **35-3887**
Ice surveying methods and results Borodachev, V.E., ed, (1981, 144p., rus) **35-3933**
Mi-2 helicopters for Arctic ice surveys Shatalin, N.V., et al, (1981, p.41-45, rus) **35-3941**
Optimal intervals between ice surveys in the Arctic Bulavkin, V.M., (1981, p.76-78, rus) **35-3949**
Polex-North-76 (scientific results) Part 2 Treshnikov, A.F., ed, (1979, 194p., rus) **35-4182**
Complex full-scale experiment "IAna" Gudkovich, Z.M., et al, (1979, p.7-15, rus) **35-4183**
Dimensions of ice fields Romanov, I.P., (1979, p.111-115, rus) **35-4194**
Deep-sea traces from the central Arctic: an analysis of diversity Kitchell, J.A., (1979, p.1185-1198, eng) **35-4224**

Arid land
Cryogenic arid steppe soils Snytko, V.A., (1980, p.78-79, rus) **35-2278**

Artesian water
Artesian well at Don Juan Pond McGinnis, L.D., (1979, p.26-27, eng) **35-637**

Artificial freezing
Artificial rock freezing used in mining excavations Kachur, V.D., et al, (1980, p.24-26, rus) **35-325**
Artificial ground freezing in mining Shparber, P.A., (1980, p.26-27, rus) **35-326**
Using liquid oxygen in artificial freezing of ground Trupak, N.G., (1980, p.19-20, rus) **35-354**
Studying artificial freezing parameters for driving horizontal workings Nasonov, I.D., et al, (1980, 248p., rus) **35-384**
Artificial freezing of the ground in underground construction Trupak, N.G., (1979, 452p., eng) **35-704**
Water seepage control in mining excavations Shparber, P.A., (1980, p.41-44, rus) **35-868**
Stability of mining excavations in permafrost Sherstov, V.A., et al, (1980, 56p., rus) **35-1283**
Artificial rock freezing in tunnel construction Akubovich, D.V., (1980, p.55-56, rus) **35-1300**
Blasting artificially frozen rocks Klochkov, V.F., et al, (1980, p.36-38, rus) **35-1358**
Artificial freezing of water-bearing rocks in tunneling Leonov, A.I., et al, (1980, p.11-14, rus) **35-1527**
Ground freezing halts sewer collapse (1980, p.85, eng) **35-1698**
Artificial ground freezing equipment used in tunnel construction Gubenkov, E.K., et al, (1981, p.52-54, rus) **35-2084**
Artificial freezing of rocks when sinking shafts Kachur, V.D., et al, (1980, p.17-18, rus) **35-2636**
Calculating the strength and creep of artificially frozen grounds Vialov, S.S., et al, (1981, 199p., rus) **35-3932**
Construction thermodynamics (microclimate and thermal insulation of buildings) Ushkov, F.V., ed, (1979, 135p., rus) **35-4055**

Artificial ice
Artificial ice pillars in placer mining Emel'ianov, V.I., et al, (1978, p.49-73, rus) **35-1082**
Mathematical models of artificial ice formation Sosnovskii, A.V., (1980, p.49-54, rus) **35-1225**
Freezing of artificial rain drops Sosnovskii, A.V., (1980, p.54-59, rus) **35-1226**
Properties of artificial ice in skating rings Likhtenshtein, E.L., et al, (1980, p.249-254, rus) **35-1253**
Sprinkling systems for producing artificial ice Gordeichik, A.V., et al, (1980, p.254-260, rus) **35-1254**
Rapid ice building examined in Alaska (1980, p.10, eng) **35-2857**

Artificial islands
Arctic technology (1980, p.145-218, eng) **35-51**
Design of hydrostatically supported sand islands for Arctic drilling Dowse, B.E.W., (1980, p.49-54, eng) **35-1106**
Measurements of sea-ice stresses near grounded obstacles Sackinger, W.M., et al, (1981, p.144-147, eng) **35-1107**
Sohio plans busy winter in Beaufort (1980, p.30-31, eng) **35-1133**
Dome makes rich discoveries despite severe environment (1981, p.46-48, eng) **35-1962**
Island design proposed for "iceberg alley" fields Robertson, F.P., et al, (1981, p.85-88, 93, eng) **35-2072**
Ice and steep slopes present design challenges for arctic production islands (1980, p.24-28, eng) **35-2858**
Proceedings (1980, 460p., eng) **35-2957**
Construction of artificial island in the Beaufort Sea Boone, D.J., (1980, p.231-247, fre) **35-2961**
Slope protection for artificial exploration islands off Prudhoe Bay Leidersdorf, C.B., et al, (1981, p.437-448, eng) **35-3451**
Erosion prediction for exploration and production structures in the Arctic Kobayashi, N., et al, (1981, p.459-470, eng) **35-3453**
Offshore Technology Conference, 12th, 1980 Proceedings, Vol.4 (1980, 646p., eng) **35-3632**
Construction of artificial drilling islands in the Beaufort Sea Boone, D.J., (1980, p.187-195, eng) **35-3633**
Effect of pile-ups and rubble fields on ice-structure interaction forces Bercha, F.G., et al, (1980, p.297-305, eng) **35-3634**
Monitoring sea ice ridgebuilding and stresses Biswas, N.N., et al, (1980, p.209-236, eng) **35-3844**

Instrumentation of a small island to measure pack ice forces — Jones, J. M., (1980, p. 323-342, eng) 35-3848

Artificial melting

Investigation of the heat transfer at the liquid-solid interface of rapidly melting ice — Fredley, J. E., (1980, 87p., eng) 35-1591

Methods of frozen ground excavation — Chechenkov, M. S., (1980, 127p., rus) 35-2881

Water supply systems for dredging in permafrost areas — Ageenkov, A. V., et al, (1977, p. 87-100, rus) 35-3807

Artificial taliks in permafrost areas — Gol'dtman, V. G., et al, (1976, p. 77-84, rus) 35-3833

Artificial nucleation

Propane dispersal in supercooled fog — Dutevich, V. A., et al, (1980, p. 3-11, rus) 35-2693

Seeding of thunderclouds — Zimin, B. I., (1980, p. 30-36, rus) 35-2694

Ice forming properties of 1,5-dioxynaphthalene and phloroglucinol — Aksenov, M. I. V., et al, (1980, p. 68-75, rus) 35-2695

Ice-forming ability of calcium iodide and ammonium fluoride — Plaude, N. O., (1980, p. 76-81, rus) 35-2696

Ice forming properties of copper acetylacetonate — Aksenov, M. I. A., et al, (1980, p. 82-88, rus) 35-2697

Ice forming properties of AgI — Kim, N. S., (1980, p. 89-98, rus) 35-2698

Using silver iodide in cloud seeding — Bakhanova, R. A., et al, (1980, p. 98-101, rus) 35-2992

Free silver separating on AgI particles under ultraviolet irradiation — Bakhanova, R. A., (1980, p. 102-106, rus) 35-2993

Turbulence in stratiform clouds in an artificial crystallization zone — Kudriavtseva, S. K., (1980, p. 124-137, rus) 35-2995

Artificial snow

Artificial snow for dust control on roads — Bitkolov, N. Z., et al, (1980, p. 58-60, rus) 35-867

First artificial snow crystals (Pt. 1) — Sekido, Y., (1980, p. 49-60, jap) 35-3663

Commemorative monument of the birthplace of the first artificial snow crystals — Higashi, A., (1980, p. 61-62, jap) 35-3664

First artificial snow crystals (Pt. 2) — Sekido, Y., (1981, p. 41-54, jap) 35-4206

First artificial snow crystals. (Pt. 3) — Sekido, Y., (1981, p. 115-122, jap) 35-4271

Artificial thawing

Solar energy for artificial thawing of permafrost — Novoseletskii, R. N., et al, (1976, p. 63-77, rus) 35-1147

Theory of forecasting cryogenic processes — Izmailov, I. I., et al, (1976, p. 78-85, rus) 35-1148

Construction thermodynamics (microclimate and thermal insulation of buildings) — Ushkov, F. V., ed, (1979, 133p., rus) 35-4055

Calculating artificial thawing of frozen ground — Khromets, D. H., (1979, p. 29-33, rus) 35-4056

Atlantic Ocean

Island design proposed for "iceberg alley" fields — Robertson, F. P., et al, (1981, p. 85-88, 93, eng) 35-2072

Air-water heat transfer in the North Atlantic — Goroshkova, I. N., et al, (1980, p. 32-36, rus) 35-2999

Atmospheric attenuation

Spectral solar radiation model for snow-covered mountains — Dozier, J., (1980, p. 709-718, eng) 35-438

Atmospheric aerosols over the antarctic ice sheet — Shaw, G. E., (1981, p. 911-921, eng) 35-2892

Atmospheric circulation

Radio echo sounding of surface atmospheric layer — Babkin, S. I., et al, (1980, p. 36-45, rus) 35-770

January and July performance of the OSU two-level atmospheric general circulation model — Schlesinger, M. E., et al, (1980, p. 1914-1943, eng) 35-1074

Climate formation — Khromov, S. P., ed, (1980, 183p., rus) 35-1451

Winter air temperature in West Siberia — Miachkova, N. A., (1980, p. 106-118, rus) 35-1452

Climatic changes reflected in glacial hydrology and vegetation — Adamenko, V. N., (1980, p. 130-143, rus) 35-1453

Himalayan glacier fluctuations and south Asian monsoons — Mayewski, P. A., et al, (1980, p. 171-182, eng) 35-1659

Arctic sea ice and atmospheric circulation — Johnson, C. M., (1980, p. 1782-1791, eng) 35-1720

Fairbanks atmospheric carbon monoxide transport model — Carlson, R. F., et al, (1980, 49p., eng) 35-1841

Polar ice and atmospheric fluctuations — Wiese, W., (1981, 22p., eng) 35-2050

Meteorological processes in the antarctic atmosphere — Helbig, A., (1980, p. 64-79, ger) 35-2435

Heat transfer at the soil-air interface — IAkushevskaia, K. E., (1980, p. 79-92, rus) 35-2441

Global circulation model of ocean, atmosphere and sea ice — Washington, W. M., et al, (1980, p. 1887-1908, eng) 35-2472

Atmospheric circulation effect on Siberian climate — Sergeev, N. I., (1980, p. 31-48, rus) 35-2487

Wind velocities in the Asiatic USSR — Durnev, V. F., (1980, p. 196-210, rus) 35-2492

Sea-ice atmospheric interactions in the Weddell Sea using drifting buoys — Ackley, S. F., (1981, p. 177-191, eng) 35-3029

Effect of sea ice on a general circulation model of the Southern Hemisphere — Simmonds, I., (1981, p. 193-206, eng) 35-3030

Microclimatology of the Minusinsk Basin — Durnev, V. F., (1980, p. 77-104, rus) 35-3418

Sensitivity of a global circulation model to an oceanic ice cover — Warshaw, M., et al, (1972, 26p., eng) 35-3465

Relations between air temperature and ice conditions in Arctic seas — Tettel'baum, K. A., (1980, p. 109-117, rus) 35-3501

General circulation model for arctic and antarctic climatology — Herman, G. F., et al, (1980, p. 1974-1991, eng) 35-3645

Sea ice simulation from a global circulation model — Parkinson, C. L., et al, (1980, p. 2080-2091, eng) 35-3653

Mean 500 millibar contour charts of the large-scale atmospheric processes telementary circulation mechanisms of the northern hemisphere) — Vitvitskii, G. N., ed, (1980, 67p., rus) 35-3966

Investigation of climate parameters under various weather conditions (anomalous years) — Khrgian, A. Kh., ed, (1981, 164p., rus) 35-3967

Persistence of winters in plains of the Soviet Union — Il'icheva, E. M., et al, (1981, p. 24-44, rus) 35-3968

West Siberian climatic conditions — Soromotina, O. V., et al, (1981, p. 82-92, rus) 35-3971

Hydroclimatically anomalous years in West Siberia — Glukh, I. S., (1981, p. 93-100, rus) 35-3972

Seasonal variations of weather in the non-chernozem zone — Kornilova, R. P., (1981, p. 137-142, rus) 35-3973

Atmospheric circulation above the northern part of the Pacific Ocean — Vlasova, I. G., et al, (1979, p. 121-125, rus) 35-4196

Atmospheric composition

Isotopes in CO2 in polar ice — Deuser, W. G., (1979, p. 78, eng) 35-658

Global emissions of trace metals into the atmosphere — Nriagu, J. O., (1979, p. 409-411, eng) 35-1217

Trace metals in remote Arctic snows: natural or anthropogenic — Landy, M. P., et al, (1980, p. 574-576, eng) 35-1218

Climatic prospects with antarctic but no arctic ice — Flohn, H., (1979, p. 35-51, fre) 35-2576

Atmospheric aerosols over the antarctic ice sheet — Shaw, G. E., (1981, p. 911-921, eng) 35-2892

Atmospheric trace gases in association with sea ice — Gosink, T. A., (1980, p. 82-83, eng) 35-3186

Chemical composition of arctic haze Ny-Alesund, Spitzbergen — Heintzenberg, J., et al, (1981, p. 162-171, eng) 35-3487

Atmospheric disturbances

Radio echo sounding of surface atmospheric layer — Babkin, S. I., et al, (1980, p. 36-45, rus) 35-770

Cyclone effect on ice covered sea — Denisov, V. V., et al, (1979, p. 49-59, rus) 35-934

Diurnal air temperature variations in northern river basins — Sotskina, I. P., (1980, p. 51-59, rus) 35-3416

Investigation of climate parameters under various weather conditions (anomalous years) — Khrgian, A. Kh., ed, (1981, 164p., rus) 35-3967

Atmospheric circulation above the northern part of the Pacific Ocean — Vlasova, I. G., et al, (1979, p. 121-125, rus) 35-4196

Atmospheric electricity

Electrical processes in atmospheres — (1977, 865p., eng) 35-3775

Atmospheric pressure

Climate formation — Khromov, S. P., ed, (1980, 183p., rus) 35-1451

Climatic changes reflected in glacial hydrology and vegetation — Adamenko, V. N., (1980, p. 130-143, rus) 35-1453

Polar ice and atmospheric fluctuations — Wiese, W., (1981, 22p., eng) 35-2050

Thermobaric and ice conditions, South Orkneys region — Petrov, I. S., et al, (1980, p. 59-65, rus) 35-2180

Sea-ice atmospheric interactions in the Weddell Sea using drifting buoys — Ackley, S. F., (1981, p. 177-191, eng) 35-3029

Effect of sea ice on a general circulation model of the Southern Hemisphere — Simmonds, I., (1981, p. 193-206, eng) 35-3030

Arctic Canada sea ice and weather conditions, summer 1978 — Dey, B., (1980, p. 2092-2097, eng) 35-3654

Relationship between ice drift and atmospheric pressure — Gorbunov, R. A., (1981, p. 97-103, rus) 35-3954

Attenuation

Light attenuation and visibility in drifting snow — Takeuchi, M., et al, (1976, p. 165-170, jap) 35-258

Technology of an airborne impulse radar — Butt, K. A., et al, (1980, p. 385-412, eng) 35-562

Direct measurement of the attenuation of ocean waves by pack ice — Squire, V. A., et al, (1980, p. 365-368, eng) 35-1465

On the angular variation of solar reflectance of snow — Choudhury, B. J., et al, (1981, p. 465-472, eng) 35-2340

Ice depolarization statistics for 19-GHz satellite-to-earth propagation — Arnold, H. W., et al, (1980, p. 546-550, eng) 35-2412

Radio wave attenuation due to snow and rain — Akeyama, A., et al, (1980, p. 580-585, eng) 35-2413

Ice depolarization at 11.7 and 19 GHz on slant paths in Virginia, USA — Bostian, C. W., et al, (1981, p. 148-155, eng) 35-3886

Augers

Drilling and sampling in frozen ground — Reimers, S., (1980, p. 13-17, eng) 35-256

Austria

—**Alps**

Glaciers of the Austrian Alps 1978-1979 — Patzelt, G., (1979, p. 235-246, ger) 35-3733

Avalanche deposits

Numerical simulation of snow avalanche impact on structures — Lang, T. E., et al, (1980, 21p., eng) 35-849

Methodologies for the study of snow phenomena — (1979, 153p., ita) 35-947

Avalanche activity and geomorphological processes in the Salzburg Alps — Pippan, T., (1974, p. 301-312, ger) 35-1948

Geomorphological processes in the Canadian Cordillera — Slaymaker, O., (1974, p. 319-332, eng) 35-1950

Avalanche hazard in the Cairngorm Mountains, Scotland — Ward, R. G. W., (1980, p. 31-41, eng) 35-2345

Frequency of major avalanche winters — Fitzharris, B. B., et al, (1980, p. 43-52, eng) 35-2346

Seismic and impact-pressure monitoring of flowing avalanches — Schaerer, P. A., et al, (1980, p. 179-187, eng) 35-2360

Avalanches of December 1966 in western Tien-Shan, China — Qui, J., et al, (1980, p. 512-514, eng) 35-2393

Alpine mass movement forms (noncatastrophic): classification, description, and significance — White, S. E., (1981, p. 127-137, eng) 35-4087

Avalanche engineering

Avalanches and landslides along the Baykal-Amur railroad — Petrov, V. F., ed, (1980, 189p., rus) 35-252

Calculating avalanche movements — Moskaliev, R. D., (1980, p. 41-50, rus) 35-714

Avalanches and countermeasures — Severskii, I. V., (1980, 151p., rus) 35-863

Avalanche protection structures — Rzhevskii, B. N., et al, (1980, p. 241-249, rus) 35-1252

Slope processes control in mountains — Tushinskii, G. K., et al, (1980, p. 66-73, rus) 35-1439

Active avalanche protection structural models — Belcaretti, P., (1981, p. 61-65, ita) 35-3512

Glaciology of mountainous regions (snow cover, avalanches) — Kanaev, I. A., ed, (1980, 144p., rus) 35-3569

Designing earth-fill cones for avalanche protection — Kanaev, I. A., et al, (1980, p. 64-73, rus) 35-3575

Design of avalanche protection structures — Bilialov, K. B., (1980, p. 79-84, rus) 35-3577

Bioengineering for land reclamation and conservation — Schiechtl, H., (1980, 404p., eng) 35-3595

Avalanche erosion

Avalanches and countermeasures — Severskii, I. V., (1980, 151p., rus) 35-863

Avalanche forecasting

Using cadaster data in avalanche forecasting — Zolotarev, I. A., et al, (1980, p. 58-64, rus) 35-77

Snow depth in relationship with avalanche control structure design — Balzaretti, P., (1980, p. 44-46, ita) 35-223

Avalanches and landslides along the Baykal-Amur railroad — Petrov, V. F., ed, (1980, 189p., rus) 35-252

Glaciology of mountain regions (snow cover, avalanches and glaciers) — Suslov, V. F., ed, (1980, 144p., rus) 35-709

Forecasting avalanche danger — Drozdovskaia, N. F., et al, (1980, p. 35-40, rus) 35-713

Factors determining snowfall intensity and avalanche formation from new snow in the Zailiyskiy Alatau mountains — Kondrashov, I. V., (1980, p. 51-58, rus) 35-715

Formula for calculating avalanche danger — Sevin, V. M., et al, (1980, p. 59-66, rus) 35-716

Avalanche forecasting by discriminant analysis — Obled, C., et al, (1980, p. 315-346, eng) 35-1825

Fundamental processes in conventional avalanche forecasting — LaChapelle, E. R., (1980, p. 75-84, eng) 35-2349

Credibility of avalanche warnings — Williams, K., (1980, p. 93-96, eng) 35-2351

Avalanche zoning in Alaska, USA — Hackett, S. W., et al, (1980, p. 377-392, eng) 35-2380

Recommendations of the working session of the authors of avalanche maps — (1980, p. 27-30, rus) 35-2810

Acoustic emissions from unstable snow slopes — Sommerfeld, R. A., (1980, p. 319-329, eng) 35-3141

Review of avalanche forecasting methods — Drozdovskaia, N. F., (1980, p. 48-63, rus) 35-3574

Mathematical methods in avalanche forecasting — Maksimov, N. V., et al, (1980, p. 99-102, rus) 35-3580

Avalanche forecasting and protection at U.S. stations — Garrecaud, E., (1981, p. 58-63, fre) 35-4047

Avalanche formation

Avalanche control in forested mountains — Chagchshvili, R. G., (1976, p. 71-75, rus) 35-72

Using cadaster data in avalanche forecasting — Zolotarev, I. A., et al, (1980, p. 58-64, rus) 35-77

Avalanche formation *(cont.)*
Snow depth in relationship with avalanche control structure design Balzaretti, P., (1980, p.44-46, ita) **35-223**
Avalanches and landslides along the Baykal Amur railroad Perov, V.F., ed. (1980, 189p., rus) **35-252**
Compiling avalanche cadasters Akif'eva, K.V., et al. (1980, p.25-34, rus) **35-712**
Calculating avalanche movements Moskalev, IU.D., (1980, p.41-50, rus) **35-714**
Avalanche formation in Transbaikal Alekseev, V.R., et al. (1972, p.40-49, rus) **35-761**
Avalanches and countermeasures Severskii, I.V., (1980, 151p., rus) **35-863**
Methodologies for the study of snow phenomena (1979, 153p., ita) **35-947**
Snow survey of the National Petroleum Reserve in Alaska, Apr.-May, 1979 Glude, W.J., et al. (1980, 13p., eng) **35-991**
Avalanche protection structures. Rzhevskii, B.N., et al. (1980, p.241-249, rus) **35-1252**
Nival processes Embleton, C., (1979, p.307-324, eng) **35-1689**
Physics of snow and avalanche phenomena Lind, D.A., (1981, p.103-114, eng) **35-1783**
Symposium on snow in motion (1980, 527p., eng) **35-2342**
Avalanche activity in Iceland, climatic conditions, and terrain features Bjornsson, H., (1980, p.13-23, eng) **35-2343**
Snow cover and avalanches in China and in the Batura Glacier area, Pakistan Yafeng, S., et al. (1980, p.25-30, eng) **35-2344**
Avalanche hazard in the Cairngorm Mountains, Scotland Ward, R.G.W., (1980, p.31-41, eng) **35-2345**
Frequency of major avalanche winters Fitzharris, B.B., et al. (1980, p.43-52, eng) **35-2346**
Process-oriented model for simulating avalanche danger Judson, A., et al. (1980, p.53-63, eng) **35-2347**
Snow cover and the weather in fracture zones of avalanches Gubler, H., (1980, p.65-74, eng) **35-2348**
Snow-slab studies at Whistler Mountain, British Columbia, Canada Stethem, C., et al. (1980, p.85-91, eng) **35-2350**
Credibility of avalanche warnings Williams, K., (1980, p.93-96, eng) **35-2351**
University course in snow dynamics Montagne, J., (1980, p.97-103, eng) **35-2352**
Calculations of avalanche friction coefficients from field data Martinelli, M., Jr., et al. (1980, p.109-119, eng) **35-2354**
Fragment-flow model of dry-snow avalanches Mears, A.I., (1980, p.153-163, eng) **35-2358**
Avalanche run-out distance based on topographic parameters Lied, K., et al. (1980, p.165-177, eng) **35-2359**
Acoustic emission response of snow St. Lawrence, W.F., (1980, p.209-216, eng) **35-2363**
Legalization of avalanche zoning in Switzerland Frutiger, H., (1980, p.313-324, eng) **35-2374**
Avalanche zoning in France: regulation and technical bases Crecy, L. de, (1980, p.325-330, eng) **35-2375**
Natural-hazard maps for land-use planning in Norway Hestnes, E., et al. (1980, p.331-343, eng) **35-2376**
Snow-avalanche hazard zoning in British Columbia, Canada Fiset, G.F., et al. (1980, p.345-354, eng) **35-2377**
Avalanche zoning in four western U.S. communities Mears, A.I., (1980, p.355-362, eng) **35-2378**
Avalanche hazard mapping and zoning in the Rocky Mtns. Ives, J.D., et al. (1980, p.363-375, eng) **35-2379**
Avalanche zoning in Alaska, U.S.A. Hackett, S.W., et al. (1980, p.377-392, eng) **35-2380**
Observations of ground avalanches with a video tape recorder (VTR) Akitaya, E., (1980, p.493-496, eng) **35-2389**
Avalanche warning system and public education program for Alaska Hackett, S.W., et al. (1980, p.497-500, eng) **35-2390**
Energy-line method in the mechanics of avalanches Korner, H.J., (1980, p.501-505, eng) **35-2391**
Avalanches of December 1966 in western Tien-Shan, China Qin, J., et al. (1980, p.512-514, eng) **35-2393**
Snow and avalanches in the Davos area Fohn, P., et al. (1980, p.30-43, ger) **35-2564**
Snow and avalanche conditions in the Swiss Alps Schild, M., et al. (1980, p.44-92, ger) **35-2565**
Accidents and damage due to avalanches Schild, M., et al. (1980, p.93-151, ger) **35-2566**
Recommendations of the working session of the authors of avalanche maps (1980, p.27-30, rus) **35-2810**
Stereophotogrammetric surveys of avalanche danger areas Masloskii, F.B., et al. (1980, p.20-21, rus) **35-3010**
Acoustic emissions from unstable snow slopes Sommerfeld, R.A., (1980, p.319-329, eng) **35-3141**
Glaciology of mountainous regions (snow cover, avalanches) Kanaev, I.A., ed. (1980, 144p., rus) **35-3569**
Statistical analysis of avalanche formation conditions Chirkova, A.A., (1980, p.74-78, rus) **35-3576**
Mathematical methods in avalanche forecasting Maksimov, N.V., et al. (1980, p.99-102, rus) **35-3580**
Dust clouds associated with snow avalanche movement Kirilluk, I.V., et al. (1980, p.113-120, rus) **35-3582**
Avalanche formation in Carpathian Mountains Grishchenko, V.F., et al. (1978, p.297-299, eng) **35-3685**
Artificial release of avalanches and its influence on the soil cover Christa, R., (1979, p.175-181, ger) **35-3726**
Measurements of avalanches in forests Fiebiger, G., (1979, p.183-194, ger) **35-3727**
Avalanches Schaerer, P.A., (1981, p.475-518, eng) **35-3756**
Avalanche statistics for France, winter 1979-1980 (1980, p.3-20, fre) **35-3981**
Study of power avalanche flow on a scale model of an actual case Beghin, P., (1980, 42-57, fre) **35-3983**
Avalanche statistics for the 1980-1981 season (1981, p.43-47, fre) **35-4046**
Avalanches and planning Schwarz, W., (1981, p.425-442, ger) **35-4216**
Avalanche research in Japan, 1970-1980 Nitta, R., (1981, p.123-127, jap) **35-4272**
Avalanche formation in the Katun' River basin Chubenko, A.G., (1981, p.77-86, rus) **35-4303**

Avalanche mechanics
Using cadaster data in avalanche forecasting Zolotarev, E.A., et al. (1980, p.58-64, rus) **35-77**
Calculating avalanche movements Moskalev, IU.D., (1980, p.41-50, rus) **35-714**
Avalanche formation in Transbaikal Alekseev, V.R., et al. (1972, p.40-49, rus) **35-761**
Numerical simulation of snow avalanche impact on structures Lang, T.E., et al. (1980, 21p., eng) **35-849**
Avalanches and countermeasures Severskii, I.V., (1980, 151p., rus) **35-863**
Snow-avalanche impact on structures Lang, T.E., et al. (1980, p.445-455, eng) **35-1507**
Physics of snow and avalanche phenomena Lind, D.A., (1981, p.103-114, eng) **35-1783**
Comparison of observed and calculated avalanche velocities LaChapelle, F.R., et al. (1980, p.309-314, eng) **35-1824**
Rapid-sequence stereophotogrammetry of avalanches. (1980, 4p., fre) **35-2337**
Symposium on snow in motion (1980, 527p., eng) **35-2342**
Avalanche activity in Iceland, climatic conditions, and terrain features Bjornsson, H., (1980, p.13-23, eng) **35-2343**
Process-oriented model for simulating avalanche danger Judson, A., et al. (1980, p.53-63, eng) **35-2347**
University course in snow dynamics Montagne, J., (1980, p.97-103, eng) **35-2352**
Calculations of avalanche friction coefficients from field data Martinelli, M., Jr., et al. (1980, p.109-119, eng) **35-2354**
Run-out distance of avalanches and friction coefficients Buser, O., et al. (1980, p.121-130, eng) **35-2355**
Modeling of snow flow Dent, J.D., et al. (1980, p.131-140, eng) **35-2356**
Study on high-speed avalanches in the Kurobe Canyon, Japan Shimizu, H., et al. (1980, p.141-151, eng) **35-2357**
Fragment-flow model of dry-snow avalanches Mears, A.I., (1980, p.153-163, eng) **35-2358**
Avalanche run-out distance based on topographic parameters Lied, K., et al. (1980, p.165-177, eng) **35-2359**
Seismic and impact-pressure monitoring of flowing avalanches Schaerer, P.A., et al. (1980, p.179-187, eng) **35-2360**
Scale modeling of snow-avalanche impact on structures Lang, T.E., et al. (1980, p.189-196, eng) **35-2361**
Two-parameter model of snow-avalanche motion Perla, R., et al. (1980, p.197-207, eng) **35-2362**
Observations of ground avalanches with a video tape recorder (VTR) Akitaya, E., (1980, p.493-496, eng) **35-2389**
Energy-line method in the mechanics of avalanches Korner, H.J., (1980, p.501-505, eng) **35-2391**
Numerical computation of avalanche motion Cheng, T.T., et al. (1979, 12p., eng) **35-3552**
Avalanche movement, impact and wind Moskalev, IU.D., (1980, p.13-22, rus) **35-3571**
Designing earth-fill cones for avalanche protection Kanaev, I.A., et al. (1980, p.64-73, rus) **35-3575**
Design of avalanche protection structures Bilialov, K.B., (1980, p.79-84, rus) **35-3577**
Dust clouds associated with snow avalanche movement Kirilluk, I.V., et al. (1980, p.113-120, rus) **35-3582**
Avalanche dynamics: what has to be measured Korner, H.J., (1979, p.165-173, ger) **35-3725**
Avalanches Schaerer, P.A., (1981, p.475-518, eng) **35-3756**
Study of power avalanche flow on a scale model of an actual case Beghin, P., (1980, 42-57, fre) **35-3983**
Methods for calculating the travel distance and impact pressure of flowing avalanches Laatsch, W., et al. (1981, 125p., ger) **35-4211**

Avalanche modeling
Mathematical modeling of snow avalanches Eglit, M.E., et al. (1980, p.79-84, rus) **35-1230**
Snow-avalanche impact on structures Lang, T.E., et al. (1980, p.445-455, eng) **35-1507**
Process-oriented model for simulating avalanche danger Judson, A., et al. (1980, p.53-63, eng) **35-2347**
Study of power avalanche flow on a scale model of an actual case Beghin, P., (1980, 42-57, fre) **35-3983**

Avalanche tracks
Avalanche run-out distance based on topographic parameters Lied, K., et al. (1980, p.165-177, eng) **35-2359**
Energy-line method in the mechanics of avalanches Korner, H.J., (1980, p.501-505, eng) **35-2391**
Numerical computation of avalanche motion Cheng, T.T., et al. (1979, 12p., eng) **35-3552**
Methods for calculating the travel distance and impact pressure of flowing avalanches Laatsch, W., et al. (1981, 125p., ger) **35-4211**

Avalanche triggering
Avalanche control in forested mountains Chagelishvili, R.G., (1976, p.71-75, rus) **35-72**
Using cadaster data in avalanche forecasting Zolotarev, E.A., et al. (1980, p.58-64, rus) **35-77**
Avalanches and landslides along the Baykal-Amur railroad Perov, V.F., ed. (1980, 189p., rus) **35-252**
Compiling avalanche cadasters Akif'eva, K.V., et al. (1980, p.25-34, rus) **35-712**
Avalanches and countermeasures Severskii, I.V., (1980, 151p., rus) **35-863**
Avalanche protection structures Rzhevskii, B.N., et al. (1980, p.241-249, rus) **35-1252**
Analysis of non-steady plastic shock waves in snow Brown, R.L., (1980, p.279-287, eng) **35-1822**
Acoustic emission response of snow St. Lawrence, W.F., (1980, p.209-216, eng) **35-2363**
Glaciology of mountainous regions (snow cover, avalanches) Kanaev, I.A., ed. (1980, 144p., rus) **35-3569**
Explosion effects on snow cover Morgunov, IU.I., (1980, p.41-46, rus) **35-3573**
Statistical analysis of avalanche formation conditions Chirkova, A.A., (1980, p.74-78, rus) **35-3576**
Mathematical methods in avalanche forecasting Maksimov, N.V., et al. (1980, p.99-102, rus) **35-3580**
Dust clouds associated with snow avalanche movement Kirilluk, I.V., et al. (1980, p.113-120, rus) **35-3582**
Avalanche formation in Carpathian Mountains Grishchenko, V.F., et al. (1978, p.297-299, eng) **35-3685**
Artificial release of avalanches and its influence on the soil cover Christa, R., (1979, p.175-181, ger) **35-3726**
Avalanche formation in the Katun' River basin Chubenko, A.G., (1981, p.77-86, rus) **35-4303**

Avalanche wind
Physics of snow and avalanche phenomena Lind, D.A., (1981, p.103-114, eng) **35-1783**
Study on high-speed avalanches in the Kurobe Canyon, Japan Shimizu, H., et al. (1980, p.141-151, eng) **35-2357**
Avalanche movement, impact and wind Moskalev, IU.D., (1980, p.13-22, rus) **35-3571**
Dust clouds associated with snow avalanche movement Kirilluk, I.V., et al. (1980, p.113-120, rus) **35-3582**

Avalanches
Snow-disaster countermeasures and cost analysis Nakatao, T., et al. (1979, p.205-210, jap) **35-268**
Glaciology of mountain regions (snow cover, avalanches and glaciers) Suslov, V.F., ed. (1980, 144p., rus) **35-709**
Avalanche classification Kanaev, I.A., (1980, p.11-24, rus) **35-711**
Cryogenic slope processes in Tien Shan Tarakanov, A.G., (1980, p.98-105, rus) **35-953**
Soviet glaciological studies in 1979 Kotlyakov, V.M., et al. (1980, p.5-13, rus) **35-1219**
Avalanche protection structures Rzhevskii, B.N., et al. (1980, p.241-249, rus) **35-1252**
Design of pipelines for avalanche areas Lupin, V.A., (1980, p.21-22, rus) **35-1305**
Complex geographic studies and the development of mountainous regions Gvozdetskii, N.A., ed. (1980, 150p., rus) **35-1435**
Slope processes control in mountains Tushinskii, G.K., et al. (1980, p.66-73, rus) **35-1439**
Industrial activities effect on natural conditions of the Far East Nikol'skaia, V.V., (1976, p.89-95, rus) **35-1855**
Swiss Federal Institute for Snow and Avalanche Research on Weissfluhjoch, near Davos De Quervain, M., (1980, 54p., ger) **35-1877**
Snow and avalanche research in France Brugnot, G., (1980, p.73, eng) **35-2162**
Winter avalanche activity and weather in a Canterbury alpine basin McSaveney, M.J., et al. (1980, p.103-111, eng) **35-2341**
Avalanche education for skiers Valla, F., (1980, p.105-107, eng) **35-2353**
Snow and avalanches in the Swiss Alps, winter 1978-79 (1980, 155p., ger) **35-2563**
Resolutions of the Editorial Board of the World Atlas of Snow and Ice Resources (The fifth meeting, 21 February 1980) (1980, p.7-8, rus) **35-2804**

Workshop session of the authors of avalanche maps, prepared for the World Atlas of Snow and Ice resources. Glazovskaia, T.G., et al. (1980, p.26-27, rus) 35-2809
Recommendations of the working session of the authors of avalanche maps (1980, p.27-30, rus) 35-2810
Stereophotogrammetric surveys of avalanche danger areas. Maslovskii, F.B., et al. (1980, p.20-21, rus) 35-3010
Satellite recording of dynamic processes at the earth surface. Bern, B.I., (1981, p.108-113, rus) 35-3336
Development and prospects of space glaciology. Kotlyakov, V.M., (1981, p.7-15, rus) 35-3539
Avalanches in the Inylchek River basin. Maksimov, N.V., (1980, p.121-126, rus) 35-3583
Avalanches in the Tskhenistskali River basin. Abdushelishvili, K.I., et al. (1980, p.75-82, rus) 35-3801
Snow accumulation on the southern slope of Caucasus. Tsomaia, V.Sh., et al. (1980, p.83-98, rus) 35-3802
Seismic detection of avalanches. Bonnet, G., (1980, p.30-41, fre) 35-3982
Active avalanche protection: structural models. Balzaretti, P., (1981, p.61-66, ita) 35-3986
Colloquium on Security and Freedom in the Mountains in Winter, 1980. (1981, p.64-87, fre) 35-4048
Forest cutting and avalanches on heavy snow slopes. Saeki, M., et al. (1981, p.15-20, jap) 35-4203
Forestry problems in permafrost areas. Nikolaiuk, V.V., (1981, p.6-11, rus) 35-4276
Adjustment to avalanche hazard in New Zealand. Prowse, T.D., et al. (1981, p.25-31, eng) 35-4299

Backscattering

Measurements of radar backscatter from terrain and snow-covered terrain. Stiles, W.H., et al. (1980, 78p. + appends., eng) 35-892
Modelling of shortwave radiation for snow covered terrain. Waterman, S.F., (1980, p.144-158, eng) 35-3154
Radar spectral observations of snow. Stiles, W.H., et al. (1981, p.654-668, eng) 35-3440
On the angular variation of solar reflectance of snow. Choudhury, B.J., et al. (1981, p.465-472, eng) 35-3601

Bacteria

Microbial dynamics of two sub-Arctic Canadian rivers. Albright, L.J., et al. (1980, p.1353-1362, eng) 35-114
Methodology of forecasting natural phenomena in Siberia. Druzhinin, I.P., ed. (1980, 144p., rus) 35-148
Dynamics of microbiological processes in soils and the factors influencing it. Pts. 1 and 2. Ryys, O., ed. (1974, 2 vols., rus) 35-1202
Low temperature effect on soil microorganisms. Rakhno, P.Kh., (1974, p.15-22, rus) 35-1203
Microbiology of cryogenic soils. Aristovskaia, T.V., et al. (1974, p.23-29, rus) 35-1204
Growth of bacteria in frozen soils. Tokhver, V., (1974, p.56-60, rus) 35-1205
Psychrophilic bacteria in cryogenic soils. Skvortsova, I.N., (1974, p.68-70, rus) 35-1207
Aerobic and anaerobic bacteria in podsols. Emtsev, V.T., et al. (1974, p.83-87, rus) 35-1208
Bacterial activities in tundra soils. Parinkina, O.M., (1974, p.104-108, rus) 35-1210
Bacteria and fungi in tundra ponds. Hobbie, J.E., et al. (1980, p.340-387, eng) 35-1755
Tundra soil microflora. Bunnell, F.L., et al. (1980, p.255-290, eng) 35-1937
Mixing and microorganism survival in the Slave River, N.W.T. Smith, D.W., et al. (1981, p.449-470, eng) 35-2518
Health aspects of water reuse in California. Reed, S.C., (1979, p.434-435, eng) 35-2580
Disinfection of wastewater by microwaves. Iskandar, I.K., et al. (1980, 15p., eng) 35-2592

Baffin Bay

Marine mammals inhabiting the Baffin Bay North Water in winter. Finley, K.J., et al. (1980, p.724-738, eng) 35-2171

Banks (waterways)

Microbial activities and Canadian river-bank materials and sediments. Albright, L.J., et al. (1980, p.1363-1366, eng) 35-115
Sediment displacement in the Ottauquechee River, 1975-1978. Martinson, C., (1980, 14p., eng) 35-974
Spring ice breakup at pipeline river crossing. Grey, B.J., (1978, 22p., eng) 35-3795
Bank stabilization, Bethel, Alaska (1981, 63p. + appends., eng) 35-3812

Barents Sea

Mathematical model for forecasting ice formation dates on seas. Moskal', T.N., (1980, p.45-54, rus) 35-3492

Basal sliding

Steady motion of ice sheets. Morland, L.W., et al. (1980, p.229-246, eng) 35-1819

Basements

Calculating thermal regime of basements containing technical equipment (discussion). Shapovalov, I.S., et al. (1980, p.19-21, rus) 35-2625

Baykal Amur railroad

Cryogenic processes in the Baykal Amur railroad area. Tsekhanov, A.M., (1978, p.99-101, rus) 35-16
Spaceborne surveys of naled development. Gavrilov, V.B., et al. (1978, p.101-102, rus) 35-17
Thermokarst processes in construction areas. Viatkina, L.IU., et al. (1978, p.103-104, rus) 35-18
Concrete plates for protecting slopes in cold regions. IU.din, L.N., (1980, p.17-19, rus) 35-105
Seismotectonics and seismicity of the Baykal Amur railroad construction area. Odintsov, M.M., ed. (1980, 204p., rus) 35-137
Construction of the Baykal Amur railroad. Kalinichev, V.P., (1980, p.5-7, rus) 35-138
Baykal-Angarakan section of the Baykal Amur railroad. Lysak, S.V., et al. (1980, p.139-153, rus) 35-139
Railroad construction in seismic permafrost areas. Pavlov, O.V., et al. (1980, p.164-173, rus) 35-140
Seismic stability of frozen fines. Zarubin, N.E., et al. (1980, p.173-178, rus) 35-141
Changes in seismic and permafrost conditions of developed areas. Sharapov, V.G., (1980, p.179-190, rus) 35-142
Seismic stability of transport-related structures. Napetvaridze, Sh.G., ed. (1980, 132p., rus) 35-144
Design of railroad bridges for earthquakes in permafrost areas. Uzdin, A.M., et al. (1980, p.27-40, rus) 35-145
Modeling seismic stability of bridge piers. Murusidze, R.Kh., et al. (1980, p.50-55, rus) 35-146
Heat and water balance in mountain drainage basins. Novorotskii, P.V., (1980, p.224-229, rus) 35-342
Winter maintenance of construction equipment. Tatts, V.G., (1980, p.11-14, rus) 35-446
Building construction in the North. Sergeev, A.F., et al. (1980, p.7-10, rus) 35-461
Winter maintenance and repair base for the army. Vasil'ev, V., (1980, p.63-66, rus) 35-494
Sewage treatment in northern settlements. Fedotov, V.P., (1980, p.20-21, rus) 35-600
Construction of the Baykal Amur railroad. Smirnov, I.V., (1980, p.44-47, rus) 35-610
Structural geology map of the Baykal Amur railroad area. Kuskov, A.P., et al. (1979, p.56-63, rus) 35-777
Surveying construction sites of the Baykal Amur railroad. Sochava, V.B., et al. (1975, p.3-12, rus) 35-791
Forecasting the effect of railroad construction on permafrost. Alekseev, V.R., et al. (1975, p.13-18, rus) 35-792
Climatic peculiarities of the Baykal Amur railroad zone. Galazii, G.I., ed. (1979, 144p., rus) 35-813
Transportation development problems and prospects. Economic development of Siberia and the Far East. Pavlovskii, I.G., (1980, 125p., rus) 35-864
Mountain forests of the Baykal Amur railroad zone. Panarin, I.I., et al. (1980, 224p., rus) 35-936
Tunnel construction in the Baykal Amur railroad area. Kosheley, R.A., et al. (1980, p.11-15, rus) 35-1140
Climatic regionalization of the Baykal Amur railroad area. Gol'tsberg, I.A., et al. (1980, p.3-15, rus) 35-1194
Frost forecasting in the Baykal Amur railroad area. Gol'tsberg, I.A., (1980, p.16-22, rus) 35-1195
Wind condition charts for the BAM area. Romanova, E.N., (1980, p.23-34, rus) 35-1196
Microclimatology of the Chara Basin. Kalashnikov, A.V., (1980, p.35-42, rus) 35-1197
Air temperature variations in the Chara Basin. Vasil'eva, L.G., (1980, p.43-54, rus) 35-1198
Seminar on the studies of naleds. Alekseev, V.R., et al. (1980, p.272, rus) 35-1258
Development of construction bases in permafrost areas. Belonogova, A.E., (1978, p.36-55, rus) 35-1277
International geological congress, 26th, 1979. Hydrogeology, engineering geology and construction materials. Reports of soviet geologists. Kulikov, G.V., ed. (1980, 247p., rus) 35-1349
Experimental Seismic forecasts in permafrost areas. Solomenko, V.P., (1980, p.129-143, rus) 35-1350
Weather-forming factors and their role in biochimatology. Pogosian, Kh.P., ed. (1980, 108p., rus) 35-1448
Climatic evaluations in the Baykal Amur railroad area. Kornilova, R.P., et al. (1980, p.60-69, rus) 35-1450
Biological components of landscapes in the eastern Baykal Amur railroad area. Babushkin, M.N., ed. (1979, 183p., rus) 35-1518
Heat pipelines at the Baykal Amur railroad. Sokolov-Baikov, O.V., (1980, p.22, rus) 35-1528
Studying soil geography and landscape geochemistry in the Baykal Amur railroad zone. Snytko, V.A., ed. (1980, 184p., rus) 35-1627
Regionalization of the Baykal Amur railroad zone. Nechaeva, E.G., et al. (1980, p.3-11, rus) 35-1628
Landscape types of the Baykal Amur railroad area. Kuz'min, V.A., (1980, p.11-98, rus) 35-1629
Engineering geology of East Siberia. Leshchikov, F.N., et al. (1980, p.45-53, rus) 35-1704
Hydrometeorological provisions for the Baykal Amur railroad. Dobrotumov, B.M., et al. (1980, p.3-10, rus) 35-1791
Industrial activities effect on natural conditions of the Far East. Nikol'skaia, V.V., (1976, p.89-95, rus) 35-1855
Steel for air temperature below -40C. Belov, I.F., et al. (1981, p.6-7, rus) 35-2076
Drainage systems for embankments on permafrost. Solov'ev, G.P., et al. (1981, p.9-11, rus) 35-2077
Modular construction in permafrost regions. Sobchenko, M.S., et al. (1981, p.16-17, rus) 35-2078
Precast lightweight concrete for cold regions. Vasil'ev, N.F., et al. (1981, p.20-23, rus) 35-2080
Panel joint structures for cold regions. Cheremisov, K.M., et al. (1980, p.68-70, rus) 35-2102
Cryogenic soils of Lake Baykal area. Parshikov, V.P., (1980, p.18-20, rus) 35-2258
Construction of Severobaykal'sk. Savel'ev, R.V., (1980, p.16-18, rus) 35-2631
Hydroelectric power plants in the Baykal Amur railroad area. Sheinman, L.B., (1980, 89p., rus) 35-2688
Calculating maximum river discharge during spring floods. Korniagin, S.V., (1978, p.64-69, rus) 35-2704
Railroad construction in mountainous permafrost areas. Podkaltuk, V.P., et al. (1981, p.3-4, rus) 35-2842
Temporary bridges in permafrost areas. Rasskazov, I.D., et al. (1981, p.6-8, rus) 35-2843
Prefabricated dismountable buildings in permafrost areas. Bardyshev, O.A., et al. (1981, p.17-19, rus) 35-2844
Washing construction materials in freezing water. Tantsman, M.A., et al. (1981, p.22-23, rus) 35-2845
Gantry crane for cold regions. Tatts, V.G., et al. (1981, p.21-22, rus) 35-2853
Forecasting ice breakup on rivers. Lobovikova, Z.P., (1980, p.29-34, rus) 35-2876
Permafrost effect on the length of river freeze/up period. Riabova, L.I., (1980, p.77-85, rus) 35-2878
River transport of the Baykal Amur railroad area. Degtiarev, V.V., et al. (1980, 89p., rus) 35-2966
Aggregate method of repairing road construction equipment. Khalkis, M.I., (1980, 64p., rus) 35-2967
Accuracy of mapping snow cover boundaries from satellite data. Prokacheva, V.G., et al. (1980, p.35-43, rus) 35-2972
Identification of naleds on satellite photographs. Abakumenko, V.P., et al. (1980, p.75-82, rus) 35-2977
Evaluating riverbed processes using aerial photographs. Smishchenko, D.V., (1980, p.100-107, rus) 35-2980
Cost of road construction in permafrost areas. Podymalova, T.P., (1980, p.7-8, rus) 35-3008
Engineering studies of frozen ground. Soil properties and the dynamics of cryogenic processes. Gur'ianov, I.I., ed. (1981, 159p., rus) 35-3280
Thermal properties of frozen coarse clastics. Gavrilev, R.I., et al. (1981, p.5-22, rus) 35-3281
Self-cleaning of polluted soils in cold regions. Shchetnikov, A.I., (1980, p.84-89, rus) 35-3477
Space surveying methods for studying exogenic processes. Plastinin, I.A., et al. (1981, p.22-26, rus) 35-3540
Compiling a medium-scale vegetation map of the northern Baykal area from space survey data. Belov, A.V., (1980, p.97-102, rus) 35-3543
Power supply to the Baykal Amur railroad. Petrov, N.K., (1981, p.2-5, rus) 35-4226
Forestry problems in permafrost areas. Nikolaiuk, V.V., (1981, p.6-11, rus) 35-4276
Shelters for winter maintenance of equipment. Tatts, V.G., (1981, p.10-12, rus) 35-4279

Beaches

Beach thaw depth on Canadian Arctic Islands (1980, p.103-123, fre) 35-2960
Morphology, erosion and barrier islands of the Beaufort Sea coast, Alaska. Hopkins, D.M., et al. (1981, p.178-186, eng) 35-3259
Erosion prediction for exploration and production structures in the Arctic. Kobayashi, N., et al. (1981, p.459-470, eng) 35-3453
Weathering of beach pebbles in Hornsund. Martini, Y., (1975, p.187-193, eng) 35-3617
Periglacial forms produced by shore ice at Hornsund (Spitsbergen). Jahn, A., (1977, p.19-29, eng) 35-3619
Temporal and spatial variability of ice-foot morphology. Wiseman, W.J., et al. (1981, p.69-80, eng) 35-4021
Shoreline vegetation of the arctic Alaska coast. Taylor, R.J., (1981, p.37-42, eng) 35-4049
Fresh water anchor ice along an Arctic beach. Sadler, H.E., et al. (1981, p.62-63, eng) 35-4052

Bearing strength

Foundation construction on clayey grounds. Ikonin, S.V., et al. (1980, p.42-47, rus) 35-227
Load bearing capacity test on a freshwater ice cover. Tadley, T.E., et al. (1980, 50p., eng) 35-565
Axi-symmetric element formulation of non-homogeneous floating ice sheets. Murat, J.R., (1976, 45p., eng) 35-575
Determining strength of peat soils from aerial photographs. Pirogov, A.G., et al. (1980, p.4-6, rus) 35-620
Deformation of peat bearing grounds. Kukushkin, V.V., et al. (1980, p.10-12, rus) 35-623
Stability of slopes in permafrost. McRoberts, E.C., (1973, 370p., eng) 35-708
Theory and application of ground freezing in civil engineering. Jessberger, H.L., (1980, p.3-27, eng) 35-815
Assessment of loss in carrying capacity after thawing. Dysli, M., et al. (1980, p.394-399, fre) 35-1130
Construction equipment for weak soils. Penchuk, V.A., (1980, p.21-23, rus) 35-1302
Bearing strength of frozen fines. Vrachev, V.V., et al. (1980, p.73-80, rus) 35-1389
Evaluation of ice-covered water crossings. Dean, A.M. Jr., (1980, p.443-453, eng) 35-1587
Road bearing capacity in Norway. Refsdal, G., (1980, 13p., eng) 35-1728

Bearing strength *(cont.)*
Report on an ice crossing at Riverhurst during the winter of 1974-75 — Eyre, D., et al. [1976, 109p + numerous figs., eng] **35-1842**
Analysis of foundations in permafrost — Vialov, S.S., et al. [1980, p 97-117, eng] **35-1974**
Foundations on complex permafrost soils — Velli, Y.J., [1980, p 204-217, eng] **35-1977**
Construction of piling foundations in permafrost — Sadovskii, V.V., et al. [1980, p 218-228, eng] **35-1978**
Improvement of bearing capacity of pipe piles by corrugations — Thomas, H.P., et al. [1980, p 229-234, eng] **35-1979**
Structural evaluation of porous pavement in cold climate — Eaton, R.A., et al. [1980, 43p, eng] **35-2006**
Guide for operating cats and light trucks on a floating ice sheet — Johnson, P., [1980, 29p, eng] **35-2012**
Effects of road construction faults in bituminous surfacing — Jaasko, J., [1980, 103p, fin] **35-2057**
Use of slag in bituminous pavements — Koivumeni, M., [1979, 71p + figs., fin] **35-2058**
Large scale development of remote housing in subarctic areas — Robertson, W.V., et al. [1980, p 426-438, eng] **35-2132**
Piles in permafrost for bridge foundations — Crory, F.E., et al. [1967, 41p, eng] **35-2753**
Foundation construction on peat soils — Konovalov, P.A., [1980, 161p, rus] **35-2997**
Fundamentals of cold regions engineering (Pt 9) — Higashi, A., [1980, p 33-48, jap] **35-3662**

Beaufort Sea
East ice regimes of the Beaufort and Chukchi Sea coasts, Alaska — Barry, R.G., et al. [1979, p 129-152, eng] **35-699**
Sonar measurement of Beaufort Sea ice profiles — Wadhams, P., et al. [1980, p 401-414, eng] **35-1504**
Heat budgets of the Southeast Beaufort Sea for the years 1974 and 1975 — Timmers, E.L., [1980, 204p, eng] **35-1777**
Overconsolidated surficial deposits on the Beaufort Sea shelf — Rennitz, F., et al. [1980, 37p, eng] **35-1914**
Environmental assessment of the Alaskan continental shelf, TDP, FY81 — Weller, G., coord. [1980, 166p, eng] **35-2018**
Carcinogenic pollution in sediments of arctic waters — Stich, H.F., et al. [1980, p 807-814, eng] **35-2174**
Deepwater vibrator operations, Beaufort Sea, Alaska, 1979 winter season — Mertz, R.W., et al. [1981, p 172-181, eng] **35-2578**
Chemical oceanography in the southern Beaufort Sea, 1974-1975 — Wong, C.S., et al. [1980, 51p, eng] **35-2946**
Beaufort seacoast permafrost studies — Rogers, J.C., et al. [1981, p 1-44, eng] **35-3235**
Seismotectonic studies of western Alaska and sea ice studies in Beaufort Sea — Biswas, N.N., et al. [1981, p 575-618, eng] **35-3250**
Geology and geomorphology of the Beaufort Sea coastal plain — Cannon, P.J., [1981, p 619-634, eng] **35-3251**
Environmental assessment of the Alaskan continental shelf, Vol 7 — Biological studies [1981, 678p, eng] **35-3253**
Oceanographic and geologic processes on the Beaufort Sea coast — Truett, J.C., [1981, p 52-108, eng] **35-3254**
Review of offshore permafrost studies, Beaufort Sea, Alaska, 1976 to 1980 — Harris, R.M., et al. [1981, p 167-177, eng] **35-3258**
Geologic processes of the Beaufort Sea shelf and coast — Barnes, P., et al. [1981, p 257-355, eng] **35-3261**
Overconsolidated surficial deposits on the Beaufort Sea shelf — Rennitz, F., et al. [1981, p 284-312, eng] **35-3263**
Donne's "kick tolerance" formula for safe Beaufort Sea drilling — Wilkie, D.F., et al. [1981, p 33-36, eng] **35-3277**
Bibliography of the engineering and environments of Arctic coasts and seas [1977, 11p, eng] **35-3360**
Design and construction of sea ice roads in the Alaskan Beaufort Sea — Potter, R.E., et al. [1981, p 135-140, eng] **35-3449**
Construction of artificial drilling islands in the Beaufort Sea — Boone, D.J., [1980, p 187-195, eng] **35-3633**
Under-ice circulation in a shallow lagoon, Beaufort Sea — Matthews, J.B., [1981, p 223-234, eng] **35-3698**
Oil, ice and gas [1980, 169p, eng] **35-3867**

Bench marks
Bench marks for monitoring landslide slopes — Grigor'ev, B.S., et al. [1980, p 80-84, rus] **35-773**
Bench mark stability in permafrost — Bogdanov, B.G., [1980, p 22-23, rus] **35-1860**

Bering Sea
Direct measurement of the attenuation of ocean waves by pack ice — Squire, V.A., et al. [1980, p 365-368, eng] **35-1465**
Sea ice, temperature variations and atmospheric changes in the Bering Sea — Niebauer, H.J., [1980, p 7502-7515, eng] **35-1912**
Environmental assessment of the Alaskan continental shelf, TDP, FY81 — Calder, J.A., coord. [1980, 209p, eng] **35-2019**
Geological, geochemical and geotechnical observations on the Bering Shelf, Alaska — Larsen, M.C., et al. [1980, Var p, eng] **35-2538**
Hydrocarbon gases in near-surface sediment of N. Bering Sea — Kvenvolden, K.A., et al. [1981, p 215-243, eng] **35-3239**
Ice gouging on the subarctic Bering shelf — Thor, D.R., et al. [1981, p 286-314, eng] **35-3243**
Deposition and erosion on the inner shelf, N.E. Bering Sea — Hunter, R.E., et al. [1981, p 332-267, eng] **35-3245**
Distribution of trace elements in bottom sediment of northern Bering Sea — Larsen, B.R., et al. [1981, p 445-567, eng] **35-3249**
Permafrost in submerged areas of northern Bering Sea — Hopkins, D.M., [1981, p 188-202, eng] **35-3260**
Physical environment of the eastern Bering Sea March 1979 — Salo, S.A., et al. [1980, 119p, eng] **35-3469**
Bering Sea ice edge properties — Bauer, J., et al. [1980, p 2045-2055, eng] **35-3650**
Bering Sea ice project [1980, 34p, eng] **35-3675**
Problems of the Arctic and the Antarctic, collection of articles, Vol 48, 1976 — Treshnikov, V.F., ed. [1981, 173p, eng] **35-4129**
Salinity and thermal state of Bering Sea waters as indices of development of the Chukchi flaw lead in June — Aitkamen, A.I., [1981, p 75-82, eng] **35-4134**
Recent fluctuations in sea ice distribution in the eastern Bering Sea — Niebauer, H.J., [1980, p 133-140, eng] **35-4137**
Ice growth and distribution in the Bering Sea — McNutt, S.L., [1980, p 141-165, eng] **35-4138**
Nearshore ice characteristics in the eastern Bering Sea — Stringer, W.J., [1980, p 167-187, eng] **35-4139**
Bering Sea ice-edge phenomena — Martin, S., et al. [1980, p 189-211, eng] **35-4140**
Eastern Bering Sea ice dynamics and thermodynamics — Pease, C.H., [1980, p 213-222, eng] **35-4141**
Anticipated oil-ice interactions in the Bering Sea — Martin, S., [1980, p 223-243, eng] **35-4142**
Sedimentation in the northern Bering Sea — Larsen, M.C., et al. [1980, p 247-261, eng] **35-4143**
Ice regime of Norton Sound, Bering Sea — Ray, V.M., et al. [1980, p 263-278, eng] **35-4144**
Ice gouging on the subarctic Bering shelf — Thor, D.R., et al. [1980, p 279-302, eng] **35-4145**
Some geochemical characteristics of Bering Sea sediments — Burrell, D.C., et al. [1980, p 305-319, eng] **35-4146**

Bering Strait
Ice flow through straits — Pritchard, R.S., et al. [1979, p 61-74, eng] **35-163**

Bibliographies
Glaciological research at Trent University and a bibliography, 1968-1980 — Adams, W.P., [1980, p 178-193, eng] **35-50**
Bibliography of the publications on the Alaskan continental shelf [1980, 177p, eng] **35-847**
Soils of Siberia and the Far East, a current bibliography [1978, 2 volumes, rus] **35-852**
Soils of Siberia and the Far East, a current bibliography [1978, 4 volumes, rus] **35-853**
Soils of Siberia and the Far East, a current bibliography [1980, 58p, rus] **35-854**
Vegetation of Siberia and the Far East, a current bibliography [1980, 2 volumes, rus] **35-855**
Vegetation of Siberia and the Far East, a current bibliography [1979, 2 volumes, rus] **35-856**
Vegetation of Siberia and the Far East, a current bibliography [1980, 97p, rus] **35-857**
Problems of the North, a current bibliography [1980, 3 volumes, rus] **35-858**
Problems of the North, a current bibliography [1980, 198p, rus] **35-859**
Taiga soils with second humus layer — Nechaeva, E.G., [1980, p 169-206, rus] **35-882**
Bibliography on northern sea ice and related subjects — Bradford, J.D., comp. [1980, 194p, eng] **35-890**
Review of research on snow and ice — Nishimura, H., et al. [1980, p 33-69, jap] **35-1066**
Ice — Physical properties — Modern methods of glaciology — Bogorodskii, V.V., et al. [1980, 384p, rus] **35-1123**
Bibliography on cryobiology of the Arctic Ocean — Mel'nikov, I.A., [1980, p 56-61, rus] **35-1316**
Research projects of the *Tareia* station in Taymyr tundra — Tomilin, B.A., [1980, p 3-25, rus] **35-1402**
Geophysical methods of studying permafrost in the USSR — Akimov, A.T., et al. [1980, 51p, rus] **35-1928**
Great Lakes ice, a selected bibliography — Hoffman, C.S., ed. [1980, p 39-71, eng] **35-2161**
Cold Regions Science and Technology Bibliography — Cummings, N.H., [1981, p 73-75, eng] **35-2420**
Soviet bibliography on glaciology for 1978 — Kotlyakov, V.M., et al. [1980, p 216-283, rus] **35-2837**
Development of tundra science in the USSR — Aleksandrova, V.D., [1980, p 1513-1522, rus] **35-3214**
Bibliography of the engineering and environments of Arctic coasts and seas [1977, 11p, eng] **35-3360**
Alaska coastal bibliography and index statewide [1980, 407p, eng] **35-3553**
Low temperature properties of polymers — Perepechko, I.I., [1980, 302p, eng] **35-3600**
Productivity of high altitude grass communities in the central Caucasus — Nakhutsrishvili, G.Sh., et al. [1980, 159p, rus] **35-3899**
Landscape evolution in the Far East — Ivanov, G.I., [1979, p 48-59, rus] **35-4309**

Biogeography
Marine life and biogeography of the Canadian Eastern Arctic — Dunbar, M.J., et al. [1980, 119p, eng] **35-1760**
Remarks on the stability of timberline — Ives, J.D., [1978, p 313-317, eng] **35-1904**
Concepts of biogeocenoses, ecogenesis and other terms — Smagin, V.N., [1980, p 6-28, rus] **35-2475**
Bioengineering for land reclamation and conservation — Schiechtl, H., [1980, 404p, eng] **35-3595**

Biomass
Methodology of forecasting natural phenomena in Siberia — Druzhinin, I.P., ed. [1980, 144p, rus] **35-148**
Phytoplankton composition and cropping power of different lake types of the Karelian Isthmus — Trifonova, I.S., [1979, 168p, rus] **35-201**
Vegetation and soils of subarctic tundra — Andreev, V.N., ed. [1980, 209p, rus] **35-282**
Seasonal dynamics of tundra cotton grass — Spodobitseva, N.I., [1980, p 75-84, rus] **35-286**
Algae in tundra soils — Permitnova, G.N., [1980, p 85?-85?, rus] **35-395**
Tundra plant structure and production in relation to the environment — Wielgolaski, F.E., [1980, p 25-50, eng] **35-486**
Matter and energy exchange in pine forests of the European North — Kazimirov, N.I., et al. [1977, 303p, rus] **35-807**
Mountain forests of the Bay-Lai-Amur railroad zone — Panarin, I.I., et al. [1980, 224p, rus] **35-936**
Physiology of Alpine meadow plants — Bannikova, L.V., et al. [1980, p 27-35, rus] **35-1039**
Forest strip effect on snow distribution — Savin, I.N., ed. [1978, 96p, rus] **35-1091**
Growth and biomass of Siberian larch in forest strips — Popov, V.P., [1978, p 33-44, rus] **35-1095**
Biomass of narrow forest strips in steppes — Dolgilevich, M.I., et al. [1978, p 57-68, rus] **35-1097**
Dynamics of microbiological processes in soils and the factors influencing it, Pts 1 and 2 — Ryss, O., ed. [1974, 2 vols, rus] **35-1202**
Microbiology of cryogenic soils — Aristovskaia, T.V., et al. [1974, p 23-29, rus] **35-1204**
Conference of young scientists, 3rd, Krasnoyarsk, 1971 — Studies of the nature of Siberian forests [1972, 325p, rus] **35-1373**
Biomass dynamics in green-moss fir forests of different age — Kuzikov, I.I., [1972, p 16-21, rus] **35-1374**
Biologic cycle in bilberry-peat moss pine forests — Prokhorova, A.I.A., [1972, p 30-36, rus] **35-1375**
Microflora biomass in pine biocenoses — Aunits, K.M., [1972, p 177-180, rus] **35-1376**
Amount of litter produced by different taiga trees — Karpel', B.A., [1971, p 94-102, rus] **35-1395**
Biogeocenoses of the Taymyr Tundra — Tomilin, B.A., et al. [1989, 256p, rus] **35-1401**
Research projects of the *Tareia* station in Taymyr tundra — Tomilin, B.A., [1980, p 3-25, rus] **35-1402**
Types of cotton grass in Taymyr tundra — Polozova, T.G., [1980, p 131-144, rus] **35-1409**
Organic matter decomposition in moss tundras — Parinkina, O.M., [1980, p 234-248, rus] **35-1412**
Water retaining role of northern swamps — Pozdnyakov, L.K., [1980, p 128-133, rus] **35-1445**
Biochemistry of cryogenic taiga soils — Nechaeva, E.G., et al. [1980, p 152-162, rus] **35-1632**
Mapping vegetational resources of permafrost areas — Geleta, I.F., et al. [1980, p 114-124, rus] **35-1707**
Primary productivity and aquatic plants in tundra ponds — Alexander, V., et al. [1980, p 179-250, eng] **35-1752**
Arctic ecosystem: the coastal tundra at Barrow, Alaska — Brown, J., ed. [1980, 571p, eng] **35-1929**
Biophysical processes and primary production — Miller, P.C., et al. [1980, p 66-101, eng] **35-1932**
Photosynthesis of tundra plants — Tieszen, L.L., et al. [1980, p 102-139, eng] **35-1933**
Tundra soils and their nutrients — Grospet, P.L., et al. [1980, p 219-254, eng] **35-1936**
Tundra soil microflora — Bunnell, F.L., et al. [1980, p 255-290, eng] **35-1937**
Detritus-based trophic system in coastal tundra — MacLean, S.F., Jr., [1980, p 411-437, eng] **35-1940**
Biological processes in Transbaikal soils — Kerzhentsev, A.S., [1980, p 100-102, rus] **35-2286**
Cryogenic soil temperatures in foliage areas — Krasnoshchekov, I.N., [1980, p 136-137, rus] **35-2299**
Biologic productivity and nutrient cycles of cryogenic soils — Gorshkovich, I.G., [1980, p 185-186, rus] **35-2312**
Floodplain biomass of northern rivers — Druzhinina, N.P., [1979, p 76-89, rus] **35-2325**
Dynamics of forest biogeocenoses in Siberia — Smagin, V.N., ed. [1980, 208p, rus] **35-2474**
Concepts of biogeocenoses, ecogenesis and other terms — Smagin, V.N., [1980, p 6-28, rus] **35-2475**
Revegetation in mountain taiga — Nazimova, D.I., et al. [1980, p 54-87, rus] **35-2477**
Larch phytocenoses in mountain taiga — Kotelkov, I.V., et al. [1980, p 87-97, rus] **35-2478**

Chemistry of pine forest soils Kulagina, M A., (1980, p 98-112, rus) 35-2481
High altitude vegetation of West Sayan Mountains Vlasenko, V I., (1980, p 175-200, rus) 35-2483
Proceedings of a scientific conference of the Institute of Biology Zaboeva, I V., ed. (1971, 124p., rus) 35-2604
Utilization of forest tundra meadows Kotelina, N S., (1971, p 14-16, rus) 35-2606
Cultivation of meadows in central taiga Koiushev, I A., (1971, p 16-17, rus) 35-2607
Biomass of green-moss-type taiga Nadutkin, V D., et al. (1971, p 50-51, rus) 35-2608
Annual chemical element cycle of central taiga Rusanova, G V., et al. (1971, p 62-63, rus) 35-2612
Influence of rodents on forest tundra grasses Peshkova, N V., (1977, p 134-145, rus) 35-2868
Estuarine perspectives Kennedy, V S., ed. (1980, 533p., eng) 35-3078
Plankton ecology in the arctic estuary of Chesterfield Inlet, N W T Roff, J C., et al. (1980, p 185-197, eng) 35-3079
Zooplankton in a Canadian arctic estuary Evans, M S., et al. (1980, p 199-210, eng) 35-3080
Freeze-out of nutrients from lake ice Jones, R., et al. (1980, p 193-195, eng) 35-3161
Biological studies on the Alaskan continental shelf, 1980 (1981, 359p., eng) 35-3252
Tundra ecosystems: a comparative analysis Bliss, L C., ed. (1981, 813p., eng) 35-3373
North American and Scandinavian tundras and polar deserts Bliss, L C., (1981, p 8-24, eng) 35-3374
Primary production of tundra Wielgolaski, F E., et al. (1981, p 187-225, eng) 35-3380
Phytomass and primary production of tundra communities, USSR Tikhomirov, B A., et al. (1981, p 227-238, eng) 35-3381
Simulation approach to primary production Jones, H E., et al. (1981, p 239-256, eng) 35-3382
Life cycles, population dynamics and the growth of tundra plants Callaghan, T V., et al. (1981, p 257-284, eng) 35-3383
Analysis of processes of primary production in tundra growth forms Tieszen, L L., et al. (1981, p 285-356, eng) 35-3384
Introduction to invertebrates in tundra MacLean, S F., Jr., (1981, p 509-516, eng) 35-3389
Ecosystem synthesis: a "fairytale" Bunnell, F L., (1981, p 637-646, eng) 35-3394
Nutrients in tundra ecosystems Dowding, P., et al. (1981, p 647-683, eng) 35-3395
Carbon flux in tundra by using simulation models Bunnell, F L., et al. (1981, p 685-715, eng) 35-3396
Density of taiga stand and the young growth Kuz'menko, E I., (1978, p 22-42, rus) 35-3821
Phytoplankton of the Pyasina River (western Taymyr) Ermolaev, V I., (1981, p 16-29, rus) 35-3891
Productivity of high altitude grass communities in the central Caucasus Nakhutsishvili, G Sh., et al. (1980, 159p., rus) 35-3899
Organization of spruce ecosystems in southern taiga Isakov, Iu A., ed. (1979, 220p., rus) 35-4117
Vegetation of the Valday taiga Glazov, M V., (1979, p 10-29, rus) 35-4118
Reforestation of the Valday taiga Tishkov, A V., (1979, p 30-69, rus) 35-4119
Primary production under Ross Ice Shelf Horrigan, S G., (1981, p 378-382, eng) 35-4298
Growth of *Carex aquatilis* along latitudinal and local gradients Chapin, F S., III, et al. (1981, p 1000-1009, eng) 35-4316
Biological cycle in forest tundras of the southern Magadan area Ignatenko, I V., ed. (1979, 164p., rus) 35-4323
Altitudinal variations of tundra biomass Ignatenko, I V., et al. (1979, p 5-15, rus) 35-4324
Structure and biomass of larch taiga Moskaluk, T A., (1979, p 16-27, rus) 35-4325
Biomass of Alaskan black spruce forests Van Cleve, K., (1979, p 28-36, rus) 35-4326
Biomass and biological cycle in tundras Ignatenko, I V., et al. (1979, p 92-124, rus) 35-4328

Bitumens

Asphalt pavement technology 1979 (1979, 273p., eng) 35-331
Viscosity and low temperature fracture strain in asphalt mixtures Ruth, B E., et al. (1979, p 221-237, eng) 35-332
Properties of asphalt cements at different temperatures Puzinauskas, V P., (1979, p 646-710, eng) 35-334
Frost protection layers in the design of road structures Floss, R., (1979, p 158-161, ger) 35-527
Roofs in cold regions Marson's Store, Claremont, New Hampshire Tobiasson, W., et al. (1980, 13p., eng) 35-975
Effects of road constructional faults in bituminous surfacing Jasko, J., (1980, 103p., fin) 35-2057
Bituminous roofing membranes: practical considerations Turenne, R G., (1980, p 1-4, eng) 35-2319
Rheological behavior of bituminous cement in a balance rheometer Mayer, H G., (1980, p 134-139, ger) 35-2495
Asphalt concrete for cold regions Dempsey, B J., et al. (1980, 55p., eng) 35-2587
Rubber in pavements for ice control Esch, D., (1980, p 34-39, eng) 35-3860
Recycling of milled asphalt as a frost protection material Schonberger, G., et al. (1981, p 130-140, ger) 35-3919

Bituminous concretes

Transportation of asphalt-concrete mixtures at subzero temperatures Chaika, A T., (1980, p 107-110, rus) 35-309
Method for predicting toughness, rutting and cracking of pavements Ullidtz, P., (1979, p 557-586, eng) 35-333
Rubber in asphalt may cut skidding, tests to gage road icing reduction (1980, p 24, eng) 35-701
Asphalt-polymer concrete linings of hydraulic structures in the North Stabnikov, N V., (1980, 176p., rus) 35-1122
Improvement of road construction technology Zhurzhevskii, V V., et al. (1980, 152p., rus) 35-1434
Field cooling rates of asphalt concrete overlays at low temperatures Eaton, R A., et al. (1980, 11p., eng) 35-2002
Structural evaluation of porous pavement in cold climate Eaton, R A., et al. (1980, 43p., eng) 35-2006
Use of slag in bituminous pavements Korvuniemi, M., (1979, 71p. + figs., fin) 35-2058
Asphalt concrete for cold regions Dempsey, B J., et al. (1980, 55p., eng) 35-2587

Blasting

Modeling hard rock slope resistance to earthquakes Tselikov, F I., et al. (1980, p 121-125, rus) 35-147
Borehole blasting of permafrost Gushchin, V I., (1980, p 27-29, rus) 35-616
Blasting frozen ground Frash, G B., et al. (1980, p 20-22, rus) 35-782
Blasting perennially frozen marls Bertsov, V G., et al. (1980, p 252-255, eng) 35-964
Loosening frozen ground by blasting Beloglazov, N I., (1980, p 12, rus) 35-1026
Explosives for blasting permafrost Egupov, A A., et al. (1978, p 84-97, rus) 35-1083
Blasting artificially frozen rocks Klochkov, V F., et al. (1980, p 36-38, rus) 35-1358
Using explosives to excavate frozen ground Farr, R G., et al. (1980, p 246-265, eng) 35-1986
Road construction for cold regions Gruzdev, V V., (1981, p 33-35, rus) 35-2086
Blasting deeply frozen rocks Pushkin, B I A., (1980, p 59-61, rus) 35-2456
Rock blasting under complicated mining and geological conditions Vovk, A A., et al. (1980, 358p. (Pertinent p 144-197), rus) 35-2686
Railroad construction in mountainous permafrost areas Podkaluk, V P., et al. (1981, p 3-4, rus) 35-2842
Methods of frozen ground excavation Chechenkov, M S., (1980, 127p., rus) 35-2881
Utilization of explosive energy in construction Danilenko, I I., (1981, 167p., rus) 35-3531

Blowing snow

Physical aspects of the wind-snow interaction in blowing snow Maeno, N., et al. (1979, p 127-141, eng) 35-517
Studying snowdrifting problems with small-scale models outdoors Tabler, R D., et al. (1980, p 1-13, eng) 35-2221
Self-similarity of wind profiles in blowing snow allows outdoor modeling Tabler, R D., (1980, p 421-434, eng) 35-2383
Snow transport over mountain crests Föhn, P M B., (1980, p 469-480, eng) 35-2387
Vertical profile and horizontal increase of drift-snow transport Takeuchi, M., (1980, p 481-492, eng) 35-2388
Wind-tunnel analysis of the effect of plantings on snowdrift control Ring, S I., (1980, p 8-12, eng) 35-3785
Electrostatics and the Arctic environment (1) Davey, C T., (1976, p 1-8, eng) 35-3792

Bolivia

Glacier economy in Bolivia Jordan, E., (1979, p 297-309, ger) 35-359

Borehole instruments

Offshore drilling of engineering-geological wells Arkhangel'skii, I V., (1980, 263p., rus) 35-202

Boreholes

Drilling equipment for frozen ground Bendler, A I., (1980, p 3-5, rus) 35-387
Borehole blasting of permafrost Gushchin, V I., (1980, p 27-29, rus) 35-616
Plugging cements for low temperature wells Zel'tser, P I A., (1980, p 20-21, rus) 35-631
Artesian well at Don Juan Pond McGinnis, L D., (1979, p 26-27, eng) 35-637
Conditions under Ross Ice Shelf, winter 1979 Kvinge, T., et al. (1979, p 61-63, eng) 35-650
Blasting perennially frozen marls Bertsov, V G., et al. (1980, p 252-255, eng) 35-964
Offshore permafrost studies, Beaufort Sea, Alaska Hartz, R W., et al. (1980, p 111-122, eng) 35-1154
Geologic processes on the Beaufort Sea shelf (July-Sep 1979) Barnes, P., et al. (1980, p 189-192, eng) 35-1157
Studying ice cores from glacier boreholes Kotlyakov, V M., et al. (1980, p 22-26, rus) 35-1222
Temperature profiles in the Barnes Ice Cap, Canada Hooke, R L., et al. (1980, p 1174-1188, eng) 35-1266
Borehole compression in antarctic ice cover Shumskii, P A., et al. (1980, p 54-58, rus) 35-2032
Thermometer used during permafrost drilling Zhu, G., et al. (1980, p 18-20, chi) 35-2654
Review of offshore permafrost studies, Beaufort Sea, Alaska, 1976 to 1980 Hartz, R W., et al. (1981, p 167-177, eng) 35-3258
Conquering Alaska's Arctic drilling problems Pt 2 Drilling procedures Moore, S D., (1981, p 90, 94, 96, 100, eng) 35-3639

Bothnia, Gulf

Study of the large scale cooling in the Bay of Bothnia Sahlberg, J., et al. (1980, 32p., eng) 35-3699
Economics of ice navigation in the northern Gulf of Bothnia Johansson, B M., (1977, 8p. + appens., eng) 35-4177
Statistical features of sea ice ridging in the Gulf of Bothnia Lepparanta, M., (1980, 46p., eng) 35-4181

Bottom ice

Bottomfast ice and hydrology in northern rivers Forbes, D L., (1979, p 175-184, eng) 35-411
Ross Ice Shelf bottom ice structure Zotikov, I A., et al. (1979, p 65-66, eng) 35-652
Fresh water anchor ice along an Arctic beach Sadler, H E., et al. (1981, p 62-63, eng) 35-4052

Bottom sediment

Studying coastal plains and shelves of Arctic seas Danilov, I D., ed. (1979, 135p., rus) 35-64
Subsea permafrost in the Laptev sea shelf Zhigarev, L A., (1979, p 91-96, rus) 35-66
Geophysical survey of Greenland continental shelf Brett, C P., et al. (1979, 29p., eng) 35-111
Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979 (1980, 595p., eng) 35-846
Sediment displacement in the Ottauquechee River, 1975-1978 Mattinson, C., (1980, 14p., eng) 35-974
Climatic changes of Harding Lake, Alaska Nakao, K., ed. (1980, 77p., eng) 35-1557
Origin of Harding Lake Nakao, K., et al. (1980, p 1-8, eng) 35-1558
Climatic changes in the interior Alaska Nakao, K., et al. (1980, p 16-23, eng) 35-1560
Sedimental process in Harding Lake Kajihara, M., et al. (1980, p 24-35, eng) 35-1561
Physics of tundra ponds Miller, M C., et al. (1980, p 51-75, eng) 35-1750
Chemistry of sediments in tundra ponds Prentki, R T., et al. (1980, p 76-178, eng) 35-1751
Primary productivity and aquatic plants in tundra ponds Alexander, V., et al. (1980, p 179-250, eng) 35-1752
Bacteria and fungi in tundra ponds Hobbie, J E., et al. (1980, p 340-387, eng) 35-1755
Modeling in the aquatic program of the tundra biome Tiwari, J L., et al. (1980, p 407-456, eng) 35-1757
Stratigraphy and glacial sediments of central Arctic Ocean Clark, D L., et al. (1980, 57p. + maps, eng) 35-1844
Hibernia and Ben Nevis seabed study, Polaris V Cruise report, June 1980 Amos, C L., et al. (1980, 40p., eng) 35-1846
Overconsolidated surficial deposits on the Beaufort Sea shelf Reimnitz, E., et al. (1980, 47p., eng) 35-1914
Marine sediment core descriptions IWSOE 68, 69, 70 Deep Freeze 79 Anderson, J B., et al. (1981, 60p., eng) 35-2148
Carcinogenic pollution in sediments of arctic waters Stich, H F., et al. (1980, p 807-814, eng) 35-2174
Iceberg-seabed interaction northern Labrador Sea Barrie, J V., (1980, p 71-76, eng) 35-2209
Geological, geochemical and geotechnical observations on the Bering Shelf, Alaska Larsen, M C., et al. (1980, Var p., eng) 35-2538
Distribution and features of bottom sediments in Alaskan coastal waters Sellmann, P V., (1980, 50p., eng) 35-2598
Sedimentation in proglacial Sunwapta Lake, Alberta Gilbert, R., et al. (1981, p 81-93, eng) 35-2707
Lake sediment coring along Smith Sound, Ellesmere Island and Greenland Blake, W., Jr., (1981, p 191-200, eng) 35-3086
Marine benthos in the Makkovik Bay and Cartwright regions Barrie, J., et al. (1980, p 154-173, eng) 35-3094
Environmental assessment of the Alaskan continental shelf Vol 5 Hazards (1981, 659p., eng) 35-3234
Synthesis report, environmental geology of Kodiak Shelf Hampton, M A., (1981, p 49-56, eng) 35-3236
Hydrocarbon gases in sediments from Kodiak Shelf Kvenvolden, K A., (1981, p 59-112, eng) 35-3237
Sedimentological studies in lower Cook Inlet, Alaska Rappeport, M L., (1981, p 170-180, eng) 35-3238
Hydrocarbon gases in near-surface sediment of N. Bering Sea Kvenvolden, K A., et al. (1981, p 215-243, eng) 35-3239
Gases in sediments of Norton Sound, Alaska Kvenvolden, K A., et al. (1981, p 244-250, eng) 35-3240
Thermogenic gases in near-surface sediments of Norton Sound, Alaska Nelson, H., et al. (1981, p 251-260, eng) 35-3241

Bottom sediment *(cont.)*

Distribution of gas-charged sediments in Norton Basin, Bering Sea — Holmes, M L , et al, [1981, p 261-287, engl) **35-3242**

Ice gouging on the subarctic Bering shelf — Thor, D R , et al, [1981, p 286-314, engl) **35-3243**

Sand waves and ice scoring potential on the Norton Basin sea floor — Nelson, H , et al, [1981, p 315-331, engl) **35-3244**

Deposition and erosion on the inner shelf, N E Bering Sea — Hunter, R E , et al, [1981, p 332-267, engl) **35-3245**

Graded storm sand layers offshore from the Yukon Delta, Alaska — Nelson, C H , [1981, p 368-388, engl) **35-3246**

Bottom sediment in the northern Bering Sea — Olsen, H W , et al, [1981, p 389-419, engl) **35-3247**

Faulting in Norton Sound and Chirikov Basin, Alaska — Johnson, J H , et al, [1981, p 420-444, engl) **35-3248**

Distribution of trace elements in bottom sediment of northern Bering Sea — Larsen, B R , et al, [1981, p 445-567, engl) **35-3249**

Oceanographic and geologic processes on the Beaufort Sea coast — Truett, J C , [1981, p 52-108, engl) **35-3254**

Environmental assessment of the Alaskan continental shelf, Vol 4 — Hazards [1981, 677p , engl) **35-3255**

Characteristics of permafrost beneath the Beaufort Sea — Sellmann, P V , et al, [1981, p 125-157, engl) **35-3256**

Prediction of offshore permafrost conditions — Smith, P A , et al, [1981, p 159-255, engl) **35-3257**

Permafrost in submerged areas of northern Bering Sea — Hopkins, D M , [1981, p 188-202, engl) **35-3260**

Gas inclusions in subsea permafrost, Prudhoe Bay, Alaska — Boucher, G , et al, [1981, p 276-283, engl) **35-3262**

Overconsolidated surficial deposits on the Beaufort Sea shelf — Reimnitz, E , et al, [1981, p 284-312, engl) **35-3263**

Ice scoring on the inner shelf of the Beaufort Sea, Alaska — Reimnitz, E , et al, [1981, p 318-332, engl) **35-3264**

Break in gouge character related to ice ridges — Barnes, P , et al, [1981, p 333-343, engl) **35-3265**

Dome's "kick tolerance" formula for safe Beaufort Sea drilling — Wilkie, D F , et al, [1981, p 33-36, engl) **35-3277**

Thermal regime of a thermokarst lake bottom — Tishin, M I , [1980, p 40-47, rus) **35-3313**

Ocean basins and margins — Volume 5 The Arctic Ocean — Nairn, A E M , ed, [1981, 672p , engl) **35-3431**

Environmental geology of Shelikof Strait, OCS state area 60, Alaska — Hampton, M A , et al, [1981, p 19-34, engl) **35-3456**

Antarctic glacial chronology reflected in Ross Sea sediments — Balshaw, K M , [1981, 140p , engl) **35-3915**

Supercooled sediments and permafrost in Arctic seas — Zhigarev, L A , [1981, p 181-191, rus) **35-4079**

Sedimentation in a glacier-fed lake — Smith, N D , [1981, p 75-82, engl) **35-4085**

Sedimentation in the northern Bering Sea — Larsen, M C , et al, [1980, p 247-261, engl) **35-4143**

Ice gouging on the subarctic Bering shelf — Thor, D R , et al, [1980, p 279-302, engl) **35-4145**

Some geochemical characteristics of Bering Sea sediments — Burrell, D C , et al, [1980, p 305-319, engl) **35-4146**

Bottom topography

Land forms of subglacial origin — Makkaveev, A N , [1980, p 17-24, rus) **35-788**

Geologic processes of the Beaufort Sea shelf (April-June 1979) — Barnes, P , et al, [1980, p 130-188, engl) **35-1156**

Geologic processes on the Beaufort Sea shelf (July-Sep 1979) — Barnes, P , et al, [1980, p 189-192, engl) **35-1157**

Geologic processes on the Beaufort Sea shelf (Oct-Dec 1979) — Barnes, P , et al, [1980, p 193-249, engl) **35-1158**

Biology of the Central Arctic Basin — Vinogradov, M E , ed, [1980, 260p , rus) **35-1312**

Ice scour studies on the Labrador shelf — Lewis, C F M , et al, [1980, p 264-265, engl) **35-3097**

Synthesis report, environmental geology of Kodiak Shelf, Hampton, M A , [1981, p 49-58, engl) **35-3236**

Sedimentological studies in lower Cook Inlet, Alaska — Rappeport, M I , [1981, p 170-180, engl) **35-3238**

Distribution of gas-charged sediments in Norton Basin, Bering Sea — Holmes, M L , et al, [1981, p 261-287, engl) **35-3242**

Ice gouging on the subarctic Bering shelf — Thor, D R , et al, [1981, p 286-314, engl) **35-3243**

Sand waves and ice scoring potential on the Norton Basin sea floor — Nelson, H , et al, [1981, p 315-331, engl) **35-3244**

Deposition and erosion on the inner shelf, N E Bering Sea — Hunter, R E , et al, [1981, p 332-267, engl) **35-3245**

Graded storm sand layers offshore from the Yukon Delta, Alaska — Nelson, C H , [1981, p 368-388, engl) **35-3246**

Faulting in Norton Sound and Chirikov Basin, Alaska — Johnson, J H , et al, [1981, p 420-444, engl) **35-3248**

Oceanographic and geologic processes on the Beaufort Sea coast — Truett, J C , [1981, p 52-108, engl) **35-3254**

Morphology, erosion and barrier islands of the Beaufort Sea coast, Alaska — Hopkins, D M , et al, [1981, p 178-186, engl) **35-3259**

Break in gouge character related to ice ridges — Barnes, P , et al, [1981, p 333-343, engl) **35-3265**

Super sea-ice kettles in the arctic nearshore zone — Reindeer Island — Reimnitz, E , et al, [1981, p 344-355, engl) **35-3266**

Boundary layer

Model of the planetary boundary layer over a snow surface — Halberstam, I , et al, [1979, p 431-452, engl) **35-158**

Oceanic boundary-layer features and oscillation at drift stations — McPhee, M G , [1980, p 870-884, engl) **35-1059**

Heat, mass and momentum transfer during ice sheet melting — Srivastava, P K , [1979, 110p , engl) **35-1987**

Nonsteady ice drift in the Strait of Belle Isle — Sodhi, D S , et al, [1980, p 177-186, engl) **35-2168**

Ship-velocity hypothesis of wind flow over a snow cover — Bergen, J D , [1980, p 447-452, engl) **35-2385**

Time-related changes in snow chemistry — Ross Ice Shelf, Antarctica — Warburton, J A , et al, [1981, p 27-39, engl) **35-2416**

Meteorological processes in the antarctic atmosphere — Helbig, A , [1980, p 64-79, ger) **35-2435**

Cooling of a horizontal cylinder of water through its maximum density — Gilpin, R R , [1975, p 1307-1315, engl) **35-2943**

Stefan problem with mixed boundary condition — Gupta, R S , et al, [1981, p 251-259, engl) **35-3270**

Stefan-like problems in finite geometry — El-Genk, M S , et al, [1979, p 69-80, engl) **35-3350**

Heat transfer during solidification around a cooled horizontal cylinder — Bathelt, A G , et al, [1979, p 103-111, engl) **35-3353**

Boundary system with convection at the solid-liquid interface — Nansteel, M W , et al, [1979, p 112-119, engl) **35-3354**

Surface meteorological processes in the Antarctic — Helbig, A , [1979, p 111-122, ger) **35-3488**

C-axes growth rate of ice crystals — Simpson, H C , et al, [1976, p 219-230, eng) **35-4294**

Numerical method for the two-dimensional freezing problem around a horizontal cylinder encompassing a density inversion point — Saitoh, T , et al, [1981, p 147-152, eng) **35-4314**

Boundary value problems

Moving boundary problems in the hydrodynamics of porous media — Nakano, Y , [1978, p 125-134, eng) **35-843**

Water and air horizontal flow in porous media — Nakano, Y , [1980, p 81-85, eng) **35-844**

Water and air vertical flow through porous media — Nakano, Y , [1980, p 124-133, eng) **35-845**

Air flow within snow during fluid flow in surface transition layer — Yoshida, Z , [1978, p 41-54, jap) **35-1174**

Uniqueness of steady state flows of glaciers and ice sheets — Fowler, A C , et al, [1980, p 333-345, eng) **35-2243**

Inertial oscillations in ice floe motion, Beaufort sea — Khandekar, M L , [1980, p 1-14, eng) **35-2457**

Sensitivity of a global circulation model to an oceanic ice cover — Warshaw, M , et al, [1972, 26p , eng) **35-3465**

Bricks

Steam permeability of concretes and bricks — Shamaeva, A P , et al, [1979, p 110-113, rus) **35-241**

Building codes for winter construction (SNiP III-17-80) — Kameiko, V A , et al, [1980, p 16-18, rus) **35-613**

Manual for earthquake-resistant brick buildings [1976, 32p , rus) **35-1716**

Linear expansion due to freezing and other properties of bricks — Davison, J L , [1981, 24p , eng) **35-4209**

Bridges

Seismotectonics and seismicity of the Baykal Amur railroad construction area — Odintsov, M M , ed, [1980, 204p , rus) **35-137**

Construction of the Baykal Amur railroad — Kalinichev, V P , [1980, p 5-7, rus) **35-138**

Railroad construction in seismic permafrost areas — Pavlov, O V , et al, [1980, p 164-173, rus) **35-140**

Seismic stability of transport-related structures — Napetvaridze, Sh G , ed, [1980, 132p , rus) **35-144**

Design of railroad bridges for earthquakes in permafrost areas — Uzdin, A M , et al, [1980, p 27-40, rus) **35-145**

Modeling seismic stability of bridge piers — Murusidze, R Kh , et al, [1980, p 50-55, rus) **35-146**

Resistivity of bridge concrete pavement to freezing and salting — Harig, S , [1980, p 271-276, ger) **35-568**

Modern methods of road construction — Smirnov, L V , [1980, p 45-47, rus) **35-609**

Construction of the Baykal Amur railroad — Smirnov, L V , [1980, p 44-47, rus) **35-610**

Damage to bridge parapets by frost and salting — Studer, W , [1980, p 364-366, ger) **35-896**

Bored situ-cast piles in bridge construction on permafrost — Rasskazov, I D , et al, [1980, p 7-9, rus) **35-1526**

Construction of petroleum industry objects in permafrost areas — Shemaev, G A , et al, [1980, p 10-11, rus) **35-1646**

Single and double reaction beam load cells for measuring ice forces — Johnson, P R , et al, [1980, 17p , eng) **35-1724**

Bridges across large rivers in the North — Rasskazov, I D , et al, [1981, p 23-24, rus) **35-2081**

Preventing naled formation near hydraulic structures — Merkulov, D M , [1981, p 38-39, rus) **35-2082**

Filter dam-culvert combinations for permafrost areas — Rabukhin, I G , [1981, p 47-48, rus) **35-2089**

Ice force measurement on the Yukon River bridge — McFadden, T , et al, [1981, p 749-777, eng) **35-2536**

Piles in permafrost for bridge foundations — Crory, F E , et al, [1967, 41p , eng) **35-2753**

Temporary bridges in permafrost areas — Rasskazov, I D , et al, [1981, p 6-8, rus) **35-2843**

Ice loads on bridge piers — Koren'kov, V A , [1980, p 10-11, rus) **35-3004**

Properties of concretes placed in freezing weather — Abramenko, N A , [1980, p 130-135, rus) **35-3530**

Construction of the Trans-Siberian Railroad System — Paul, V P , [1980, 167p , rus) **35-3548**

Travel over snow — Adam, K M , [1981, p 521-561, eng) **35-3757**

Snow and ice control on railroads, highways and airports — Minsk, I D , et al, [1981, p 671-706, eng) **35-3763**

Earth's heat may solve problem of dangerous iced bridge decks [1981, p 12, eng) **35-4161**

Using bridges as river crossings of power lines — Shchepetkin, A N , et al, [1981, p 64-66, rus) **35-4285**

Brightness

Microwave remote sensing of snowpacks — Kong, J A , et al, [1980, p 147-167, eng) **35-1741**

Microwave emission signatures of snow in Finland — Tiuri, M , [1981, p 670-675, eng) **35-3441**

Spectral brightness of northern landscapes — Kondrat'ev, K IA , et al, [1980, p 72-83, rus) **35-3804**

Measurement of sea ice microwave properties — Troy, B E , et al, [1981, p 4283-4289, eng) **35-3914**

Brines

Physics of ice and ocean — Bogorodskii, V V , ed, [1980, 157p , rus) **35-360**

Modeling of anisotropic electromagnetic reflection from sea ice — Golden, K M , et al, [1980, p 247-294, eng) **35-554**

Artesian well at Don Juan Pond — McGinnis, L D , [1979, p 26-27, eng) **35-637**

Subsurface measurements of McMurdo Ice Shelf — Gow, A J , et al, [1979, p 79-80, eng) **35-659**

Infiltration and freezing of sea water in coastal glaciers — Dubrovin, L I , et al, [1980, p 104-108, rus) **35-1462**

Study on ice on Lake Tofutsu — Kawamura, T , et al, [1978, p 85-91, jap) **35-1544**

Sea ice anisotropy, electromagnetic properties and strength — Kovacs, A , et al, [1980, 18p , eng) **35-1891**

Studies of the temperature-dependence of the brine content of sea ice by the pulse NMR method — Mel'nichenko, N A , et al, [1981, 6p , eng) **35-2589**

Temperature dependence of brine content in sea ice — Mel'nichenko, N A , et al, [1980, p 535-537, eng) **35-3304**

C-axes growth rate of ice crystals — Simpson, H C , et al, [1976, p 219-230, eng) **35-4294**

Brittleness

Laws and mechanisms of apparent brittle fracture of river and lake ice — Carter, D , et al, [1971, 393p , fre) **35-330**

Brittle to ductile transition in polycrystalline ice under tension — Schulson, E M , [1979, p 87-91, eng) **35-694**

Increasing frost resistance of steel structures — Sil'vestrov, A V , [1980, p 3-8, rus) **35-1085**

Calculating frost resistance of steel structures — Shaftai, S D , [1980, p 26-31, rus) **35-2101**

Frost resistance of butt-welded steel joints — Sil'vestrov, A V , et al, [1981, p 24-26, rus) **35-3338**

Breakage of granitic detritus by ice and water — Moss, A J , et al, [1981, p 261-272, eng) **35-4024**

Linear expansion due to freezing and other properties of bricks — Davison, J L , [1981, 24p , eng) **35-4209**

Bubbles

Effect of bubbles released from a melting antarctic ice — Josberger, E G , [1980, p 474-477, eng) **35-1053**

Liquid figures of high-pressure ice VI — Yamamoto, K , [1980, p 2291-2292, eng) **35-1673**

Model of rotating convective rolls in water over a freezing front — Azoum, M A , [1981, p 450-454, eng) **35-3521**

Bubbling

Point source bubbler systems to suppress ice — Ashton, G D , [1979, p 93-100, eng) **35-695**

Ice control at navigation locks — Hanamoto, B , [1981, p 1088-1095, eng) **35-4168**

Building codes

Design standards SNiP II-47-80 "Airports — Demin, I D , [1980, p 17-18, rus) **35-612**

Building codes for winter construction (SNiP III-17-80) — Kameiko, V A , et al, [1980, p 16-18, rus) **35-613**

State standards index of the USSR, 1980 [1980, 3 volumes, rus) **35-860**

Unbalanced snow loads on arch shaped roofs — Taylor, D A , et al, [1980, p 651-656, eng) **35-2149**

Urban construction norms for the North — Shubert, A A , [1981, p 58-62, rus) **35-3457**

Buildings

Cost of foundation construction in the Arctic — Andriushkin, E E , [1980, p 8-9, rus) **35-95**

Changes in seismic and permafrost conditions of developed areas — Sharapov, V G , [1980, p 179-190, rus) **35-142**

Heat and mass transfer in cellular plastics Nikitina, L M., et al. (1979. p.106-109. rus) 35-240
Frost resistance of ceramic wall materials Kuz'min, I D., et al. (1980. p.22-23. rus) 35-348
Deformation of buildings and foundations in permafrost areas Barabanshchikov, S G., et al. (1980. p.7-9. rus) 35-449
Fundamentals of sanitation and hygiene in urban construction of the Novosibirsk region Dobrinskii, A A., et al. (1974. 118p. rus) 35-805
Power plant construction in the North Fain, I I., (1980. p.63-66. rus) 35-1298
Reinforced concrete piles driven into weak soils Tumanov, B I., et al. (1980. p.107-110. eng) 35-1385
Foundations on deeply freezing sands Dokuchaev, V V., et al. (1973. p.3-11. rus) 35-1597
Frost weathering of cellular concrete Aleksandrovskii, S V., et al. (1980. p.41-42. rus) 35-1654
Swelling of frozen soils and its effect on structure foundations Orlov, V O., et al. (1980. 286p. eng) 35-1697
Foundation design manual for buildings and structures (1977. 276p. rus) 35-1711
Bases and foundations (1976. 96p. rus) 35-1715
Manual for earthquake-resistant brick buildings (1976. 32p. rus) 35-1716
U S.-Soviet seminar on building under cold climates and on permafrost (1980. 365p. eng) 35-1965
Urban planning in the Far North Platonov, G D., (1980. p.1-9. eng) 35-1966
System of construction in the Far North Berezovskii, B I., (1980. p.10-15. eng) 35-1967
Building construction technology in interior Alaska in winter Bennett, F I., (1980. p.16-31. eng) 35-1968
Solar air heating systems for buildings in cold climates Ward, D S., (1980. p.40-53. eng) 35-1970
Thermal interaction of structures and permafrost Porkhaev, G V., et al. (1980. p.85-96. eng) 35-1973
Design of foundations for buildings in discontinuous permafrost Phukan, V H., (1980. p.185-203. eng) 35-1976
Subgrade cooling for stabilization of permafrost beneath structures Barthelemy, J I., (1980. p.235-261. eng) 35-1980
Time constraints on measuring building R-values [illegible] 35-1998
Thermography control of heat insulation and tightness of buildings Axen, B., et al. (1980. 214p. eng) 35-2004
Porous fiberglass insulation used in modular construction Mordukhovich, I M., et al. (1981. p.17-19. rus) 35-2079
Rural schools prototype analysis in cold regions Livingston, I W., et al. (1980. p.439-474. eng) 35-2133
Mineral insulation - a critical study Winer, A A., et al. (1980. 25p. eng) 35-2165
Summit house: forces and forms cooperating in an extreme environment Goldstein, E W., (1980. 103p. eng) 35-2236
Measuring building R-values for large areas Flanders, S N., et al. (1981. p.137-138. eng) 35-2463
Space-time environment - man, architecture, climate and technology Germ-Lajoie, G., (1981. p.132-142. eng) 35-2503
Log school - a case for appropriate design Dubbs, P., et al. (1981. p.145-156. eng) 35-2504
New U S. station for Antarctica Esser, A C., (1981. p.288-299. eng) 35-2510
Stackwall - small log buildings for remote areas Sparling, A B., et al. [illegible] 35-2512
Construction in an arctic environment without adequate inspection Hoar, C I., (1981. p.348-361. eng) 35-2513
Post occupancy evaluation of a planned community in Arctic Canada Bechtel, R B., et al. (1980. 27p. eng) 35-2596
Post occupancy evaluation for communities in hot or cold regions Bechtel, R B., et al. (1980. 57p. eng) 35-2600
Construction of Severobaykal'sk Savel'ev, R V., (1980. p.16-18. rus) 35-2631
Architectural projects for the North Gadukova, N I., et al. (1980. p.9-12. rus) 35-2632
Building compressor stations in West Siberia. Pomatovskii, V A., (1981. p.30. rus) 35-2785
Modular construction in cold regions Rubinshtein, A B., (1981. p.24-25. rus) 35-2789
Thermal insulations and moisture retarders in buildings Teitsma, G J., (1981. p.32. eng) 35-2791
Building envelope performance testing Harrje, D T., (1981. p.39-41. eng) 35-2802
Pile foundation types used in permafrost areas Chizhevskii, M V., (1981. p.125-127. eng) 35-2840
Prefabricated dismountable buildings in permafrost areas Bardyshev, O A., et al. (1981. p.17-19. rus) 35-2844
From nomadic to mobile architecture Maidar, D., et al. (1980. 215p (Pertinent p.174-213). rus) 35-2864
Construction of seismically stable structures on permafrost Kharitonov, V A., (1980. 79p. rus) 35-2872
Multi-story stone buildings in the North Kalinin, M S., et al. (1980. 153p. rus) 35-2882
Passive solar heating in Alaska Final report Zarling, J P., (1980. 17p. eng) 35-3077
Snow accumulation on and around solar collectors Harris, J R., (1980. p.54-65. eng) 35-3147
Construction of the Trans-Siberian Railroad System. Paul', V P., (1980. 167p. rus) 35-3548
Snow and buildings Boyd, D W., et al. (1981. p.562-579. eng) 35-3758
Passive solar design elements for the Subarctic Zarling, J., (1980. p.11-16. eng) 35-3857
Peculiarities of foundation design in petroleum provinces of West Siberia Konovalov, A A., et al. (1981. 167p. rus) 35-3918
Detection of thermal insulation defects in buildings by infrared thermography Venuti, G., (1980. p.1025-1032. eng) 35-3987
Timan-Pechora regional industrial complex Podoplelov, V P., ed. (1979. 144p. rus) 35-4104
Thermal interaction between buildings on base fills and frozen soil Tishin, V G., (1981. p.240-244. eng) 35-4150
Construction of steam power stations in the North Takh, M G., (1981. p.26-28. rus) 35-4229

Buoyancy

Effect of bubbles released from a melting antarctic ice Josberger, E G., (1980. p.474-477. eng) 35-1053
Heat, mass and momentum transfer during ice sheet melting Srivastava, P K., (1979. 110p. eng) 35-1987

Caissons

Instructions for designing caissons lowered in thixotropic sleeves (1976. 39p. rus) 35-1713
Bases and foundations (1976. 96p. rus) 35-1715

Calorimeters

Measurements of free water content of wet snow by calorimetric method Akitaya, E., (1978. p.103-111. jap) 35-1179
Liquid water content in a melting snowpack Jones, E B., et al. (1980. p.41-67. eng) 35-1736
Dielectric behavior of snow: a study versus liquid water content Ambach, W., et al. (1980. p.69-92. eng) 35-1737
Passive microwave sensors for studying snowpack properties Chang, A T C., et al. (1980. p.235-248. eng) 35-1746

Calving

Melting of ice in cold stratified water. Huppert, H E., et al. (1980. p.953-960. eng) 35-1060
Viscoelastic analysis of calving glaciers. Reddy, D V., et al. [illegible] 35-1361
New data on the dynamics of ice shelves in the Weddell Sea. Zakharov, V G., et al. (1980. p.181-185. rus) 35-2828
Mechanism for the formation of large icebergs Holdsworth, G., et al. (1981. p.3210-3222. eng) 35-3371
Glacier threatens shipping lanes (1980. p.10-16. eng) 35-3854

Canada

Petroleum resources of Alaska and Canada Lachininskii, V A., et al. (1979. p.95-101. rus) 35-751
Environmental protection problems in Alaska and Canada Grave, N A., (1980. p.135-141. rus) 35-2195
Seminar on Effluent Irrigation under Prairie Conditions, 1979 (1979. var.p. eng) 35-2793
Effluent irrigation developments in Canada Oldham, W K., (1979. 6p. eng) 35-2795
Some differences between the Chinese Ching-hai Tibet Plateau aged frozen ground and the old frozen ground in northern Canada Cheng, K., (1979. p.39-42. chi) 35-2901
Canadian field activities in ice engineering. [illegible] Nakawo, M., (1981. p.107-114. jap) 35-4270

—Alberta

Glacier surveys in Alberta 1979 Reid, I A., et al. (1981. , eng) 35-4208

—Alberta—Peyto Glacier

Mass balance of Peyto Glacier, Alberta, Canada, 1965 to 1978. Young, G J., (1981. p.307-318. eng) 35-4263

—British Columbia

Snow-avalanche hazard zoning in British Columbia, Canada Freer, G.L., et al. (1980. p.345-354. eng) 35-2377

—Great Lakes

Evaluation of Ontario shoreline protection materials Carmichael, T J., et al. (1980. p.248-262. fre) 35-2962

—Labrador

Discontinuous permafrost distribution in Quebec and Labrador Brown, R J E., (1979. p.279-289. eng) 35-276
Proceedings of the workshop on research in the Labrador region, 1980 (1980. 410p. eng) 35-3090

—Labrador—Makkovik Bay

Marine benthos in the Makkovik Bay and Cartwright regions Barrie, J., et al. (1980. p.154-173. eng) 35-3094

—Labrador—Melville Lake

Lake Melville ice research Smith, P N., (1980. p.398-410. eng) 35-3102

—New Brunswick—Grand Manan Island

Glacial geology of Grand Manan Island, New Brunswick. Legget, R F., (1980. p.440-452. eng) 35-1263

—Northwest Territories

Vegetation features in the N.W.T., Canada Johnson, E A., (1981. p.200-215. eng) 35-2800
Spaceborne monitoring of Canadian Arctic winter sea ice dynamics Dey, B., (1981. p.3223-3235. eng) 35-3372

—Northwest Territories—Arctic Archipelago

Sea ice atlas of Arctic Canada 1969-1974 Lindsay, D G., (1977. 219p. eng) 35-2630
Seismic velocity measurement in the Arctic Archipelago Acheson, C H., (1981. p.707-716. eng) 35-3061

—Northwest Territories—Bylot Island

Aspects of the glacial history of Bylot Island, District of Franklin Klassen, R A., (1981. p.317-326. eng) 35-3088

—Northwest Territories—Chesterfield Inlet

Plankton ecology in the arctic estuary of Chesterfield Inlet, N W T. Kolf, J C., et al. (1980. p.185-197. eng) 35-3079

—Northwest Territories—Coppermine River

Deglaciation of the Coppermine River region, District of [illegible] eng) 35-3089

—Northwest Territories—Henrik Lake

Mudboil pattern disruption due to airstrip construction at North Henik Lake Egginton, P A., (1981. p.299-303. eng) 35-3087

—Northwest Territories—Keewatin

Glacial dispersion of uranium in the District of Keewatin Canada Klassen, R A., et al. (1977. p.80-88. eng) 35-2727

—Northwest Territories—Mackenzie River Delta

Carcinogenic pollution in sediments of arctic waters Stich, H F., et al. (1980. p.807-814. eng) 35-2174

—Northwest Territories—Richards Island

Lake drainage, Richards Island, N W T. Mackay, J R., (1981. p.63-68. eng) 35-3084

—Northwest Territories—Tsichu River

Ecological roles of river icings in the Tsichu River Valley, Northwest Territories, Canada Gill, D., et al. (1981. p.119-125. eng) 35-3025

—Quebec

Discontinuous permafrost distribution in Quebec and Labrador Brown, R J E., (1979. p.279-289. eng) 35-276
Snow survey network in Quebec Paulin, G., (1979. p.473-489. fre) 35-430
Proposed history of permafrost development in [illegible] 35-1041
Permafrost studies in northern Quebec Taylor, A., et al. (1979. p.245-251. eng) 35-1042

—Quebec—Chic-Chocs Mountains

Permafrost in the Chic-Chocs Mts., Quebec Gray, J T., et al. (1979. p.299-316. eng) 35-1046

—Quebec—Great Whale River

Permafrost distribution in the Great Whale River basin, Ungava Botteron, G., et al. (1979. p.291-298. fre) 35-1045

—Quebec—James Bay

Shore erosion by ice Dionne, J C., (1980. p.80-92. fre) 35-2958
Sea ice shaping of Arctic shores and sediments Martini, I P., (1980. p.93-102. fre) 35-2959

—Quebec—Labrador Peninsula

Environmental studies in the central Quebec Labrador peninsula Moore, T R., ed. (1981. 141p. eng) 35-3975

—Quebec—Leaf Bay

Permafrost and active layer in the forest tundra Gray, J T., et al. (1979. p.253-264. fre) 35-1043
Thermal and radar active layer measurement techniques Pilon, J A., et al. (1979. p.317-326. eng) 35-1047

—Quebec—Leaf River

Cryogenic mineral mounds of the Leaf River lowlands, Ungava Payette, S., et al. (1979. p.339-358. fre) 35-1049

—Quebec—Poste-de-la-Baleine

Geophysical study of a palsa field at Poste-de-la-Baleine, Ungava Seguin, M K., et al. (1979. p.327-337. fre) 35-1048

—Quebec—Schefferville

Spatial and temporal variations of permafrost near Schefferville, Canada Nicholson, F H., (1979. p.265-277. eng) 35-1044
Active layer hydrology in discontinuous permafrost Wright, R K., (1979. p.359-368. eng) 35-1050
Recovery of a stream from iron ore activities, Schefferville area Dubreuil, M A., (1981. p.39-55. eng) 35-3978

—Rocky Mountains

Streamflow formation in a glacierized watershed in the Rocky Mountains, Canada Young, G.J., (1980. p.55-62, 134-139. rus) 35-2817

—Yukon Territory

Yukon section of the Alaska highway gas pipeline (1979. 126p. eng) 35-1120
Impact of floods from glacier-dammed lakes, Yukon, Canada Young, G J., (1980. p.101-107, 170-175. rus) 35-2825
Vegetation along the gas pipeline route, Yukon Territory Stanek, W., (1980. 47p. eng) 35-3486

—Yukon Territory—Klutlan Glacier

Surge moraines of the Klutlan Glacier, Yukon Territory, Canada Wright, H E., Jr., (1980. p.2-18. eng) 35-3714

Canada
--**Yukon Territory—Klutlan Glacier** *(cont.)*
Moraine formation of the Klutlan Glacier, Canada Driscoll, F.G., Jr., (1980, p.19-30, eng) **35-3715**
Wastage of the Klutlan ice-cored moraines, Yukon Territory, Canada Driscoll, F.G., Jr., (1980, p.31-39, eng) **35-3716**
Landform development on moraines of the Klutlan Glacier, Canada Watson, R.A., (1980, p.50-59, eng) **35-3717**
Vegetation on moraines of the Klutlan Glacier, Canada Birks, H.J.B., (1980, p.60-86, eng) **35-3718**
Soil development on moraines of the Klutlan Glacier, Canada Jacobson, G.L., et al. (1980, p.87-100, eng) **35-3719**
Pollen and vegetation of moraines of the Klutlan Glacier area, Canada Birks, H.J.B., (1980, p.101-129, eng) **35-3720**
Limnology of the Klutlan moraines, Yukon Territory, Canada Whiteside, M.C., et al. (1980, p.130-148, eng) **35-3721**
Paleolimnology of the Klutlan Glacier area, Canada Bradbury, J.P., et al. (1980, p.149-168, eng) **35-3722**
--**Yukon Territory—Ruby Range**
Movement rate of solifluction lobes in the Yukon Territory Alexander, C.S., et al. (1980, p.365-379, eng) **35-1129**

Capillarity
Physical kinetics and transfer processes in phase transformations Pavlukevich, N.V., et al. (1980, 208p., rus) **35-806**
Dynamics of thermal processes Shvets, I.T., ed. (1980, 180p., rus) **35-2334**
Temperature field of freezing ground Tarabrin, V.A., et al. (1980, p.106-111, rus) **35-2336**
Introduction to the basic thermodynamics of cold capillary systems Colbeck, S.C., (1981, 9p., eng) **35-3712**

Capillary ice
Freezing of adsorbed water in materials of varied porosity Efimov, S.S., et al. (1979, p.91-96, rus) **35-237**

Carbon dioxide
Isotopes in CO2 in polar ice Deuser, W.G., (1979, p.78, eng) **35-658**
Mars south polar spring and summer temperatures: a residual CO2 frost Kieffer, H.H., (1979, p.8263-8288, eng) **35-1104**
Biochemical cycle of carbon dioxide in the Arctic Kelley, J.J., (1980, p.266-271, rus) **35-1270**
Carbon dioxide and methane fluxes from subarctic mire Svensson, B.H., (1980, p.235-250, eng) **35-1483**
Arctic sea ice decay simulated for a CO2-induced temperature rise Parkinson, C.L., et al. (1979, p.149-162, eng) **35-1657**
Carbon dioxide and climate: ice and ocean Thompson, S.L., et al. (1981, p.9-10, eng) **35-2071**
Atmospheric CO2 accumulation and the Antarctic ice sheet Bentley, C.R., (1980, p.24-29, eng) **35-2963**
Climatic role of snow covers Kukla, G., (1981, p.79-107, eng) **35-3023**

Cargo
Container transportation of chemicals to the North Egorov, V.F., et al. (1980, p.13, rus) **35-543**

Cellular concretes
Using lightweight concretes in cold regions Rogatin, R.A., et al. (1980, p.37-38, rus) **35-1653**
Frost weathering of cellular concrete Aleksandrovskii, S.V., et al. (1980, p.41-42, rus) **35-1654**
Concrete and reinforced concrete work Construction manual Topchii, V.D., ed. (1980, 201p., rus) **35-2880**

Cellular plastics
Polyurethane foam insulation for pipelines Bulatov, G.A., (1980, p.37-38, rus) **35-100**
Heat and mass transfer in cellular plastics Nikitina, I.M., et al. (1979, p.106-109, rus) **35-240**
Foam plastic thermal insulation for walls Timoshenko, V.T., (1979, p.114-119, rus) **35-242**
Plastic covers for preventing frost heave Vontov, S.A., (1979, p.75-84, rus) **35-1626**

Cement admixtures
Admixtures for plugging cements in cold regions Batalov, D.M., et al. (1978, p.41-46, rus) **35-60**
Heat release of cements hardening at subzero temperature. Batalov, D.M., et al. (1978, p.46-50, rus) **35-61**
Frost action on immature cement paste: microstructural features Kayyali, O.A., et al. (1980, p.264-268, eng) **35-523**
Concrete resistance to freezing and deicing compound. Manns, W., et al. (1979, p.167-173, ger) **35-528**
Cement plugging of wells in permafrost areas Zel'tser, P.IA., (1980, p.25-26, rus) **35-630**
Plugging cements for low temperature wells Zel'tser, P.IA., (1980, p.20-21, rus) **35-631**
Frost action on immature cement paste: effects on mechanical behavior Zaman, M.S., et al. (1980, p.386, eng) **35-825**
Local construction materials in the North Knigina, G.I., (1980, p.79-83, rus) **35-1087**
Surfactant admixtures for portland cement Tonka, A.R., et al. (1980, p.71-75, rus) **35-1364**
Oil and gas field development in permafrost areas Skorobogatov, V.A., (1980, p.70-71, rus) **35-1610**
Manual for earthquake-resistant brick buildings (1976, 32p., rus) **35-1716**
Cement setting at positive and subzero temperatures Pal'kin, A.P., et al. (1979, p.275-279, eng) **35-1779**
Effect of slag cement on frost resistance of concrete Fagerlund, G., (1980, 86p., eng) **35-2060**
Asphalt concrete for cold regions Dempsey, B.J., et al. (1980, 55p., eng) **35-2587**
Multi-story stone buildings in the North Kalinin, M.S., et al. (1980, 153p., rus) **35-2882**
Prolonging the service life of concrete in transport structures Sheikin, A.E., ed. (1980, 158p., rus) **35-3524**
Strength of mortars with antifreeze admixtures Kuntsevich, O.V., et al. (1980, p.26-34, rus) **35-3527**

Cements
Thermal expansion of frozen rocks Batalov, D.M., et al. (1978, p.51-55, rus) **35-62**
Transportation of asphalt-concrete mixtures at subzero temperatures Charka, A.T., (1980, p.107-110, rus) **35-309**
Cements for swamp soil stabilization Vasil'eva, M.P., et al. (1980, p.23-24, rus) **35-313**
Properties of asphalt cements at different temperatures Puzinauskas, V.P., (1979, p.646-710, eng) **35-334**
Relation between concrete composition and frost resistance. Sheikin, A.E., (1979, p.25-26, rus) **35-475**
Increasing frost resistance of cemented clayey soils Dudkin, A.S., et al. (1980, p.7-8, rus) **35-476**
Soil stabilization technique for freezing weather Asmatulaev, B.A., (1980, p.9-10, rus) **35-477**
Saline soil stabilization with waste cinders Ashurov, U., (1980, p.16-17, rus) **35-479**
Deformation of cemented clayey soils Petrukhin, V.P., et al. (1980, p.51-57, eng) **35-496**
Cement injection technique for thawed permafrost Shugalei, R.T., et al. (1980, p.63-64, rus) **35-597**
Building codes for winter construction (SNiP III-17-80) Kamenko, V.A., et al. (1980, p.16-18, rus) **35-613**
Cement plugging of wells in permafrost areas Zel'tser, P.IA., (1980, p.25-26, rus) **35-630**
Plugging cements for low temperature wells Zel'tser, P.IA., (1980, p.20-21, rus) **35-631**
Concretes used in the North Andreev, V.V., (1980, p.5-11, rus) **35-1032**
Electrically heated concrete mixtures Arben'ev, A.S., (1980, p.87-91, rus) **35-1088**
Concrete mixer for winter concreting Khapt, M.I., (1980, p.23-25, rus) **35-1141**
International geological congress, 26th, 1979 Hydrogeology, engineering geology and construction materials. Reports of soviet geologists. Kulikov, G.V., ed. (1980, 247p., rus) **35-1349**
Fly-ash cement for soil stabilization Voronkevich, S.D., et al. (1980, p.204-212, rus) **35-1354**
Surfactant admixtures for portland cement Tonka, A.R., et al. (1980, p.71-75, rus) **35-1364**
Oil and gas field development in permafrost areas Skorobogatov, V.A., (1980, p.70-71, rus) **35-1610**
Frost resistance of concretes of different strengths Mironov, S.A., et al. (1980, p.14-16, rus) **35-1648**
Bases and foundations. (1976, 96p., rus) **35-1715**
Wall-in-the ground method of building foundations and structures Smorodinov, M.I., et al. (1976, 129p., rus) **35-1718**
Resins and non-portland cements for construction in the cold Johnson, R., (1980, 19p., eng) **35-1725**
Rheological behavior of bituminous cement in a balance rheometer Mayer, H.G., (1980, p.134-139, ger) **35-2495**
Frost resistance of polymer concretes Granovskaia, I.V., et al. (1981, p.51, rus) **35-2847**
Concrete and reinforced concrete work. Construction manual. Topchii, V.D., ed. (1980, 201p., rus) **35-2880**
Chemical stabilization of soils. Sokolovich, V.E., (1980, 119p., rus) **35-2952**
Frost resistant road toppings Khabibullina, E.N., et al. (1980, p.14-15, rus) **35-3006**
Concrete with combined chemical admixtures Grushko, I.M., et al. (1980, p.23-24, rus) **35-3007**
Studying frost resistance of concrete Poliakov, B.I., et al. (1980, p.52-53, rus) **35-3014**
Cements for stabilizing loess and clay soils Zgadzai, L.K., et al. (1981, p.113-117, rus) **35-3461**
Portland cement work in cold weather in Europe and America Tu, F., (1980, 238p., chi) **35-4012**

Channels (waterways)
Environmental impact statement, Chena River Lakes Project. (1980, 82p. + appends., eng) **35-132**
Influence of channel cross-section on the regime of streams in winter Chee, S.P., et al. (1979, p.164-174, eng) **35-410**
Wintertime flow distribution in river channels Shen, H.T., et al. (1980, p.805-817, eng) **35-705**
Clearing ice-clogged shipping channels Vance, G.P., (1980, 13p., eng) **35-2000**
Flow in ice covered channels: some fundamentals Gerard, R., (1981, p.8-22, eng) **35-2540**
Investigation of the resistance coefficient for the underside of ice covers Chee, S.P., et al. (1981, p.23-33, eng) **35-2541**
Resistance of Beauharnois Canal in winter Tsang, G., (1981, p.57-78, eng) **35-2543**
Evaluating riverbed processes using aerial photographs Snishchenko, D.V., (1980, p.100-107, rus) **35-2980**
Lake drainage, Richards Island, N.W.T. Mackay, J.R., (1981, p.63-68, eng) **35-3084**
Water runoff redistribution in the European USSR Berezner, A.S., et al. (1980, p.12-16, rus) **35-3106**
Penetration of a freezing liquid into an annular channel Kuzay, T.M., et al. (1979, p.95-102, eng) **35-3352**
Interglacial water flow: a theory and mathematical models Spring, U., (1980, 197p., ger) **35-3711**
Hydraulic geometry of a supra-glacial stream Park, C.C., (1981, p.1-9, eng) **35-4022**
Basic features of the meltwater of Batura Glacier Li, J., et al. (1980, p.111-132, chi) **35-4033**
Migrating subglacial channel of Batura Glacier Zhang, X., et al. (1980, p.153-165, chi) **35-4036**
Supraglacial streams, Austre Okstindbreen, Norway Knighton, A.D., (1981, p.295-306, eng) **35-4262**

Charge transfer
Charge transfer during ice crystal collisions Gaskell, W., et al. (1980, p.841-854, eng) **35-2339**
Electrical processes in atmospheres (1977, 865p., eng) **35-3775**
Electrification by collisions of ice particles on ice or metal targets Buser, O., et al. (1977, p.294-301, eng) **35-3777**
Electrostatics and the Arctic environment (1) Davey, C.T., (1976b, p.1-8, eng) **35-3792**

Charts
Atlases of hydrometeorological phenomena especially dangerous for sea navigation Kornushin, O.G., et al. (1980, p.3-7, rus) **35-27**
Large scale mapping of cryogenic phenomena Severskii, E.V., (1979, p.105-112, rus) **35-192**
Accuracy of operational snow and ice charts Kukla, G., et al. (1981, p.974-987, eng) **35-3589**
Permafrost dynmaics in Transbaikal Lakhtina, O.V., et al. (1981, p.133-125, rus) **35-4076**

Chemical analysis
Nitrogenous chemical composition of antarctic snow and ice Parker, B.C., et al. (1979, p.80-82, eng) **35-660**
Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979 (1980, 595p., eng) **35-846**
Stratospheric sulfate in antarctic snow Delmas, R., et al. (1980, p.5645-5649, eng) **35-1119**
Solar tracks in the snow Olson, S., (1980, p.313, 316, eng) **35-1656**
Determination of heavy metals in snow without preconcentration Tandy, M.P., (1980, p.39-49, eng) **35-1710**
Carcinogenic pollution in sediments of arctic waters Stich, H.F., et al. (1980, p.807-814, eng) **35-2174**
Time-related changes in snow chemistry Ross Ice Shelf, Antarctica Warburton, J.A., et al. (1981, p.27-39, eng) **35-2416**
Research on environmental nuclides in Antarctica Frohlich, K., et al. (1980, p.122-144, ger) **35-2437**
German glaciological research in Antarctica Herbert, D., et al. (1980, p.187-194, ger) **35-2438**
Winter air pollution at Fairbanks, Alaska Coutts, H.J., et al. (1981, p.512-528, eng) **35-2522**
Trace elements in snow and ice of west Qongtailan Glacier, China Wang, P., et al. (1980, p.77-79, chi) **35-2677**
Chemical analysis of natural water in the analysis of ice and snow Sheng, W., (1980, p.90-91, chi) **35-2681**
Nitrogenous chemical composition of antarctic ice and snow Parker, B.C., et al. (1980, p.79-81, eng) **35-3185**
Subsea permafrost, probing, thermal regime and data analysis Osterkamp, T.E., et al. (1981, p.497-677, eng) **35-3267**

Chemical composition
NMR study of the freezing thawing mechanism of water in polyacrylamide gel Katayama, S., et al. (1980, p.2320-2325, eng) **35-443**
Microbiology of an ice associated antarctic diatom Whitaker, T.M., et al. (1980, p.250-257, eng) **35-1285**
Thorium effect on living organisms of taiga soils Krivolutskii, D.A., et al. (1980, p.120-124, rus) **35-1517**
Trace metals in antarctic snows since the 1880's Boutron, C., (1980, p.7426-7432, eng) **35-1911**
Mineral insulation: a critical study Winer, A.A., et al. (1980, 25p., eng) **35-2165**
Global circulation model of ocean, atmosphere and sea ice Washington, W.M., et al. (1980, p.1887-1908, eng) **35-2472**
Forage grass growth on overland flow systems Palazzo, A.J., et al. (1980, p.347-354, eng) **35-2573**
Spray application of waste-water effluent in a cold climate Cassell, E.A., et al. (1980, p.620-626, eng) **35-2574**

Chemical oceanography in the southern Beaufort Sea, 1974-1975 Wong, C.S., et al. (1980, 51p., eng) 35-2946
Miocene stable isotope record Woodruff, F., et al. (1981, p.665-668, eng) 35-3137
Chemical composition of arctic haze Ny-Alesund, Spitzbergen Heintzenberg, J., et al. (1981, p.162-171, eng) 35-3487
Some geochemical characteristics of Bering Sea sediments Burrell, D.C., et al. (1980, p.305-319, eng) 35-4146
Meteorological and seasonal effects of snow chemistry of Ross Ice Shelf, Antarctica Warburton, J.A., et al. (1981, p.17-37, eng) 35-4147

Chemical ice prevention

Chemical treatment helps prevent frozen coal Esterman, J.R. (1979, p.93-94, eng) 35-154
Sodium chloride solutions used to prevent highway icing Beretta, M. (1980, p.17-19, ita) 35-222
Concrete resistance to freezing and deicing compound Manns, W., et al. (1979, p.167-173, ger) 35-528
Concrete structure protection against humidity, frost and salt Weyer, P. (1980, p.173-177, ger) 35-567
Resistance of concrete to urea and freezing Blunk, G., et al. (1980, p.119-131, ger) 35-569
Environmental impact of highway deicing Backman, L. (1980, 62p. + tables, swe) 35-570
Instrument to measure the quantity of melting agents on the roads Della Faille, G. (1980, p.75-81, fre) 35-946
Deicing of airfields Laumann, M. (1980, 27p., eng) 35-992
Ice fog suppression in Arctic communities McFadden, T. (1980, p.54-65, eng) 35-1971
Carburetor ice flight testing: use of an anti-icing fuel additive Newman, R.L. (1981, p.5-6, eng) 35-2176
Water pollution and associated effects from street salting Field, R., et al. (1975, p.317-340, eng) 35-2569
Winter salt prospects improved, more barges will aid stockpiling (1980, p.18-22, eng) 35-2935
Deicing salts and growth of trees and shrubs along roads Buschena, C., et al. (1980, 31p., eng) 35-2942
Salt institute's sensible salting program provides winter guidelines (1980, p.12-14, eng) 35-3208
Chemicals and abrasives for snow and ice control Keyser, J.H. (1981, p.580-612, eng) 35-3759
Influence of deicing salts on soil and turf cover Brod, H.G., et al. (1980, p.461-468, eng) 35-3771
Alternatives to sodium chloride for highway deicing (Abridgment) Dunn, S.V., et al. (1980, p.12-15, eng) 35-3786
Roadside management Berger, R.L., et al. (1980, p.22-25, eng) 35-3788
Minimizing roadway salt problems in Maine (Abridgment) Jacobs, K.M., et al. (1980, p.25-27, eng) 35-3789
Moist salt for skid prevention on highways Hahn, S., et al. (1981, p.39-48, ger) 35-3984
Effects of winter salting on the natural environment Silvestre, P., et al. (1981, p.41-52, fre) 35-4006
Alleviation of detrimental frost heaving of soils by chemical treatment Yong, R.N., et al. (1979, 150p., eng) 35-4011
Runoff of deicing salt in Buffalo, New York Rumer, R.R., Jr., et al. (1974, p.407-411, eng) 35-4257
Corrosive effects of deicing salts on automobiles Palmer, J.D. (1971, p.38-43, eng) 35-4322

Chemical properties

Acidity of polar ice cores Hammer, C.U. (1980, p.359-372, eng) 35-1500

Chemical warfare

Chemical warfare in polar regions Kirsanov, V. (1979, p.80-82, rus) 35-337

Chemistry

Container transportation of chemicals to the North. Egorov, V.F., et al. (1980, p.13, rus) 35-543

Chernozem

Spectral reflectivity of cryogenic soils Sadovnikov, I.N. (1980, p.45-52, rus) 35-535
Genesis of gray forest soils Akhtyrtsev, B.P. (1979, p.521-531, eng) 35-962

China

Basic data on main glaciers of China Ren, B. (1980, p.60-61, chi) 35-92
New statistics on area of glaciers in China (1980, p.7-10, chi) 35-118
Snow cover and avalanches in China and in the Batura Glacier area, Pakistan Yafeng, S., et al. (1980, p.25-30, eng) 35-2344
Avalanches of December 1966 in western Tien-Shan, China Qui, J., et al. (1980, p.512-514, eng) 35-2393
Mass balance of continental glaciers in China Wang, Z. (1980, p.48-51, chi) 35-2666
Chinese research on glaciers and permafrost in the last 30 years Shih, Y., et al. (1979, p.1-6, chi) 35-2895
Research work on permafrost and engineering in the last 30 yrs., China Chen, S., et al. (1979, p.7-12, chi) 35-2896
Basis and division of the ice period in western China Tsui, T. (1979, p.13-21, chi) 35-2897
Some differences between the Chinese Ching-hai Tibet Plateau aged frozen ground and the old frozen ground in northern Canada Cheng, K. (1979, p.39-42, chi) 35-2901
Outline of the study of seasonal snow and ice in China Maohuan, H. (1980, p.1-11, eng) 35-3659
Some achievement on mountain glacier researches in China Yafeng, S. (1980, p.13-26, eng) 35-3660

—Batura Glacier

Observations and research on Batura Glacier, Karakoram Mts (1980, 271p. + figs., chi) 35-4025
Studies of Batura Glacier, Karakoram Mts Shi, Y., (1980, p.1-7, chi) 35-4026
General features of Batura Glacier Zhang, X., et al. (1980, p.8-27, chi) 35-4027
Measurements and analysis on the ice movement of Batura Glacier Wang, W. (1980, p.28-41, chi) 35-4028
Gravimetric determination of thickness and mass balance of Batura Glacier Su, Z., et al. (1980, p.42-56, chi) 35-4029
Some features of radiation and heat balance of Batura Glacier Bai, Z., et al. (1980, p.57-82, chi) 35-4030
Surface ablation and its variation of Batura Glacier Zhang, J., et al. (1980, p.83-98, chi) 35-4031
Climate of Batura Glacier and its adjacent areas Liu, G. (1980, p.99-110, chi) 35-4032
Basic features of the meltwater of Batura Glacier Li, J. et al. (1980, p.111-132, chi) 35-4033
Calculating the peak discharge of Batura Glacier Li, N., et al. (1980, p.133-145, chi) 35-4034
Mud-rock flows in the vicinity of Batura Glacier Cai, X., et al. (1980, p.146-152, chi) 35-4035
Migrating subglacial channel of Batura Glacier Zhang, X., et al. (1980, p.153-165, chi) 35-4036
On the buried ice near the highway bridge at the Batura Glacier terminus Shi, Y. (1980, p.166-172, chi) 35-4037
Changes of Batura Glacier in the Quaternary and recent times Zhang, X., et al. (1980, p.173-190, chi) 35-4038
Forecasting the change of Batura Glacier this and next centuries Shi, Y., et al. (1980, p.191-207, chi) 35-4039
Stereophotographic mapping of the Batura Glacier drainage area Chen, J., et al. (1980, p.208-220, chi) 35-4040
Cartographic methods of the map of Batura Glacier Wang, Y., et al. (1980, p.221-228, chi) 35-4041

—Qing-Zang Plateau

Recent advances of the study on existing glaciers in Qing-Zang Plateau Li, J. (1980, p.11-14, chi) 35-119

Chukchi Sea

Fast ice regimes of the Beaufort and Chukchi Sea coasts, Alaska Barry, R.G., et al. (1979, p.129-152, eng) 35-699
Environmental assessment of the Alaskan continental shelf. TDP, FY81 Weller, G., coord. (1980, 166p., eng) 35-2018
Bibliography of the engineering and environments of Arctic coasts and seas (1977, 11p., eng) 35-3360
Ocean circulation, fronts and ice melting in the Chukchi Sea Paquette, R.G., et al. (1981, p.4215-4230, eng) 35-3911
Supercooled sediments and permafrost in Arctic seas Zhigarev, L.A., (1981, p.181-191, rus) 35-4079
Problems of the Arctic and the Antarctic, collection of articles, Vol. 48, 1976 Treshnikov, A.F., ed. (1981, 173p., eng) 35-4129
Salinity and thermal state of Bering Sea waters as indices of development of the Chukchi flaw lead in June Arikainen, A.I. (1981, p.75-82, eng) 35-4134

Cinematography

Motion picture technique of studying mudflow kinematics Gavrishina, L.N., (1980, p.72-77, rus) 35-1810

Cirque glaciers

Glaciological studies in Tsurugisawa (ablation and climate) Moribayashi, S., et al. (1980, p.1-28, jap) 35-1064
Lichenometric dating of Holocene glaciers, Brooks Range, Alaska Calkin, P.E., et al. (1980, p.245-264, eng) 35-1665
Modern and Pleistocene snow lines in Montana and Wyoming mountains Zwick, T.T., (1980, p.347-352, eng) 35-1826
Glacier margin fluctuations in West Greenland Gordon, J.E., (1981, p.47-62, eng) 35-4083

Cirques

Modern and Pleistocene snow lines in Montana and Wyoming mountains Zwick, T.T., (1980, p.347-352, eng) 35-1826
Photogrammetric measurements of antarctic cirques in Victoria Valley Aniya, M., et al. (1981, p.41-53, eng) 35-4019

Classifications

Properties and classification of some cold desert soils Bockheim, J.G., (1980, p.45-69, eng) 35-219
Classification of Arctic vegetation Aleksandrova, V.D., (1979, p.1715-1730, rus) 35-341
Avalanche classification Kanaev, L.A., (1980, p.11-24, rus) 35-711
Classification of geocryological conditions Bobov, N.G., (1980, p.90-97, rus) 35-775
Classification of cryogenic processes Vtiurin, B.I., et al. (1980, p.13-22, rus) 35-950
Classification of tundra and forest tundra soils Ignatenko, I.V., (1980, p.26-46, rus) 35-1403
Classification methods for plant communities in tundra Sonesson, M., et al. (1980, p.113-125, eng) 35-1476
Vegetation and forest dynamics of the upper Dietrich River Valley, Alaska Densmore, D., (1980, p.18-sp, eng) 35-2408
New terms "dynamics" and "ecogenesis" of biogeocenoses Smagin, V.N., (1980, p.201-205, rus) 35-2484
Lichens of the Alaskan Arctic slope Thomson, J.W. (1979, 314p., eng) 35-3523
Alpine vegetation of the Indian Peaks area, Colorado Komarkova, V., (1979, 591p. + figs. + maps, eng) 35-3604
Limnology of the Klutlan moraines, Yukon Territory, Canada Whiteside, M.C., et al. (1980, p.136-148, eng) 35-3721
Alpine vegetation in the Indian Peaks area, Colorado Rocky Mts Komarkova, V., (1980, p.149-166, eng) 35-3767
Body size patterns in arctic and temperate zooplankton Dodson, S.I., (1979, p.930-949, eng) 35-3768
Genetic-morphologic classification of cracks in ice covers Borodachev, V.E., (1981, p.79-84, rus) 35-3950
Flora of Svalbard Rønning, O.I., (1979, 128p., nor) 35-4210

Clay minerals

Strength of freeze dried clay soils Vtachev, V.V., (1976, p.72-75, eng) 35-2406

Clay soils

Settlement of pile foundations in clayey water-saturated soils Troshkova, N.D., (1979, p.29-30, rus) 35-4
Pile foundations for weak ground Shapiro, V.D., et al. (1980, p.4-6, rus) 35-94
Freeze-dried and critical-point-dried clay: a comparison Murray, R.S., et al. (1980, p.232-234, eng) 35-224
Foundation performance of a steel tower silo at Richmond, Ontario Scott, J.D., et al. (1980, p.85-89, eng) 35-277
Increasing frost resistance of cemented clayey soils Dudkin, V.S., et al. (1980, p.7-8, rus) 35-476
Deformation of cemented clayey soils Petrukhin, V.P., et al. (1980, p.51-57, eng) 35-496
Spectral reflectivity of cryogenic soils Sadovnikov, I.N., (1980, p.45-52, rus) 35-535
Freezing of fine grained rocks Ananian, A.V., (1980, p.130-135, rus) 35-767
Podsol soils of Central and Eastern Europe: [illegible] (developed on loams) Rode, A.A., (1980, p.[illegible], rus) [illegible]977
Unfrozen water in freezing clay (1980, p.20-24, rus) [illegible]034
Stabilization of slopes cut in perc[illegible] Pal'kin, E.S., et al. (1980, p.5-9, ...) [illegible]139
Consolidation of weak clay soils [illegible] (1980, p.94-98, rus) [illegible]279
International geological congress, 25th, 1976 Hydrogeology, engineering geology and construction materials: Reports of soviet geologists Kudelkov, G.V., ed. (1980, 247p., rus) 35-1349
Physical properties of weak grounds Bochatova, I.N., et al. (1980, p.167-175, rus) 35-1351
Rheology of clay soils Kuf'minskii, I.I., (1980, p.175-188, rus) 35-1352
Bearing strength of frozen fines Vtachev, V.V., et al. (1980, p.73-80, rus) 35-1389
Methodology for foundations on expansive clays O'Neill, M.W., et al. (1980, p.1345-1367, eng) 35-1495
Effect of pH on Ca[illegible] sorption in soils Gai[illegible], I.V., (1980, p.58-64, rus) 35-1516
Clay slope stability under vibrodynamic loads Prokudin, I.V., (1980, p.37-39, rus) 35-1529
Heat treatment of unstable clay slopes Rudanov, V.P., (1980, p.39-40, rus) 35-1530
Clay soil strength and water saturation Ivanov, I.P., et al. (1980, p.31-39, rus) 35-1567
Mechanical properties of saline frozen grounds Markin, K.F., (1973, p.28-49, rus) 35-1600
Earth dam subgrades not susceptible to frost heave Edapin, V.A., (1980, p.28-29, rus) 35-1642
Microstructure of frozen clay rocks Shusherina, I.P., et al. (1975, p.84-86, eng) 35-2404
Solving freeze-thaw problems for clays Gur'ianov, I.E., (1981, p.36-45, rus) 35-3283
Possibility of artificial strengthening of clay soils Zhikhovich, V.V., (1981, p.7-11, rus) 35-3337
Cements for stabilizing loess and clay soils Zgadzai, L.K., et al. (1981, p.113-117, rus) 35-3461
Integral methods of determining the parameters of one-dimensional consolidation Bartholomei, V.A., et al. (1981, p.250-255, eng) 35-4151
Building earth dams in swamps Bessonov, V.V., (1981, p.37-38, rus) 35-4231

Clays

Soil formation on paleocryogenic fines Gorbunova, I.V., (1979, p.122-130, rus) 35-194
Landslide formation on clay slopes Demchishin, M.G., (1980, p.34-38, rus) 35-226
Foundation construction on clayey grounds Ikonin, S.V., et al. (1980, p.42-47, rus) 35-227
Freezing potentials in wet clays. 1. Early results Hanley, T.O., et al. (1980, p.163-168, eng) 35-731
Freezing potentials in wet clays. 2. Specific systems Rao, S.R., et al. (1980, p.169-175, eng) 35-732

Clays *(cont.)*

Studying clay shale deformation during thawing Dolukhanov, V.V., et al. (1976, p.12-22, rus) **35-1598**

Computer simulation of creep of clay Pusch, R., et al. (1981, p.95-104, eng) **35-1675**

Wall-in-the-ground method of building foundations and structures Strukhin, M.I., et al. (1976, 129p., rus) **35-1718**

Overconsolidated surficial deposits on the Beaufort Sea shelf Rearic, D.F., et al. (1980, 37p., eng) **35-1914**

Composition and properties of Upper Pleistocene deposits of the Yana-Indigir'a coastal lowland Trush, N.I., et al. (1978, p.59-69, eng) **35-2401**

Strength of freeze-thawed clay soils Vyalov, V.V., (1976, p.72-75, eng) **35-2406**

Thixotropic stabilization of clays Kolobaev, K.V., (1976, p.92-93, eng) **35-2407**

Relationship between frost heave and areas of bearing plates Ivey, G.O., et al. (1981, p.744-748, eng) **35-2535**

Ancient permafrost and its control of clay minerals Xing, Z., et al. (1980, p.89-, chi) **35-2664**

Overconsolidated surficial deposits on the Beaufort Sea shelf Reimnitz, E., et al. (1981, p.284-312, eng) **35-3263**

Late Weichselian ice in West Norway Sindre, E., (1980, 16p., eng) **35-3407**

Ridge-and-valley topography in permafrost areas Belopukhova, E.B., et al. (1980, p.95-101, rus) **35-3471**

Climate

Environmental studies (1974), James Bay territory and surrounding area (1975, 108p., + 14 figs., eng) **35-566**

Climatic peculiarities of the Baykal-Amur railroad zone Galazii, G.I., ed. (1979, 144p., rus) **35-813**

Problems of the North, a current bibliography (1980, 3 volumes, rus) **35-858**

Problems of the North, a current bibliography (1980, 198p., rus) **35-859**

Oases in Antarctica Solopov, V.V., (1969, 146p., eng) **35-898**

January and July performance of the OSU two-level atmospheric general circulation model Schlesinger, M.E., et al. (1980, p.1914-1943, eng) **35-1074**

World of ice: the natural history of the frozen regions John, B.S., (1979, 120p., eng) **35-1348**

Climatic problems of mountainous regions in the USSR Bagdasarian, V.B., (1980, p.29-36, rus) **35-1436**

Environment of the Alaskan Haul Road Brown, J., (1980, p.3-52, eng) **35-1769**

Boreal ecosystem Larsen, J.A., (1980, 500p., eng) **35-1913**

Coastal tundra at Barrow Brown, J., et al. (1980, p.1-29, eng) **35-1930**

Climate, snow cover, microclimate and hydrology at Barrow, Alaska Dingman, S.L., et al. (1980, p.30-65, eng) **35-1931**

Meteorological processes in the antarctic atmosphere Helbig, A., (1980, p.64-79, ger) **35-2433**

Energy balance climate models North, G.R., et al. (1981, p.91-121, eng) **35-2579**

Sea level, ice and climatic change: Proceedings of the Symposium, 7-8 Dec. during the 17th General Assembly of IUGG, Canberra Allison, I., ed. (1981, 471p., eng) **35-3017**

Relationships between snow distribution and climate in mountain areas Yamada, T., et al. (1981, p.109-118, eng) **35-3024**

Sand dunes of Victoria Valley, Antarctica Calkin, P.E., et al. (1974, p.189-216, eng) **35-3139**

Tundra climates Barry, R.G., et al. (1981, p.81-114, eng) **35-3378**

Bristol Bay environment: a background study of available knowledge (1974, 858p., eng) **35-3550**

Proceedings of the Symposium on High-Latitude Climate Systems (1980, p.1935-2091, eng) **35-3642**

Polar processes and world climate (a brief overview) Goody, R., (1980, p.1935-1942, eng) **35-3643**

Role of polar regions in global climate Lindzen, R.S., et al. (1980, p.2064-2079, eng) **35-3652**

Modeling of Pleistocene European ice sheets: some experiments with simple mass-balance parameterizations Oerlemans, J., (1981, p.77-85, eng) **35-3713**

Present glaciation and climate of the Caucasus Kotlyakov, V.M., et al. (1981, p.241-264, fre) **35-3740**

Climatic regime of glaciers and their oscillations Golubev, G.N., et al. (1981, p.319-328, fre) **35-3742**

Snow and climate Berry, M.O., (1981, p.32-59, eng) **35-3747**

Natural resources of the northeastern USSR Kozhkin, V.V., ed. (1976, 152p., rus) **35-3825**

Climatic conditions of the Magadan Region Mel'nikova, T.V., (1976, p.5-21, rus) **35-3826**

Snow cover of Wrangel Island Varich, A.A., (1976, p.42-45, rus) **35-3828**

Alpine tundras of the Bol'shoy Annachag Range (upper course of the Kolyma River) Berman, D.I., ed. (1980, 178p., rus) **35-4332**

Alpine tundras in the Kolyma-Indigirka area Alfimov, V.V., et al. (1980, p.7-31, rus) **35-4333**

Climate control

Oceanic mechanisms for amplification of the 23,000-year ice-volume cycle Ruddiman, W.F., et al. (1981, p.617-627, eng) **35-3136**

Sakami moraine, Quebec: a 500-km-long moraine without climate control Hillaire-Marcel, C., et al. (1981, p.210-214, eng) **35-3138**

Climatic changes

Evidence of climatic fluctuation in Quaternary deposit involution layers Tang, Y., (1980, p.41-43, chi) **35-87**

Relations between polar ice and climatic changes Zakharov, V.F., (1980, p.70-79, rus) **35-136**

Focus on polar research Washburn, A.L., (1980, p.643-652, eng) **35-250**

Consequences for Iceland and Europe of the Arctic cooling trend Schunke, E., (1979, p.282-291, eng) **35-357**

Tales the ice can tell (1978, p.15-21, eng) **35-401**

Isotopes in CO2 in polar ice Deuser, W.G., (1979, p.78, eng) **35-658**

Impending climatic change and the fate of glaciers Grosswald, M.S., et al. (1980, p.65-78, eng) **35-1006**

Past and future of antarctic glaciation Mugikov, S.M., (1980, p.79-86, eng) **35-1007**

Role of the Southern Hemisphere in global climate change Henderson-Sellers, A., (1980, p.373-374, eng) **35-1311**

Influence of water runoff redistribution on the natural conditions of Siberia Saks, V.N., ed. (1980, 184p., rus) **35-1331**

Changes in taiga due to river flow control Shirokov, V.M., (1980, p.22-30, rus) **35-1332**

Redistribution of river water resources in the USSR Sokolov, A.A., ed. (1980, 164p., rus) **35-1427**

Climatic changes due to diverting river courses Drozdov, O.A., et al. (1980, p.133-149, rus) **35-1432**

Climatic changes reflected in glacial hydrology and vegetation Adamenko, V.N., (1980, p.130-143, rus) **35-1453**

Future of the environment and global glaciological problems Kotlyakov, V.M., (1980, p.5-16, rus) **35-1531**

Origin and mechanism of large-scale climatic oscillations Sergin, V.IA., (1980, p.1477-1482, eng) **35-1535**

Climatic changes of Harding Lake, Alaska Nakao, K., ed. (1980, 77p., eng) **35-1557**

Climatic changes in the interior Alaska Nakao, K., et al. (1980, p.16-23, eng) **35-1560**

Satellite experiments on SHF earth radiation Basharinov, A.E., et al. (1979, p.263-267, eng) **35-1690**

Rapid ice-sheet growth and initiation of the last glaciation Johnson, R.G., et al. (1979, p.119-134, eng) **35-1776**

Investigation and analysis of frozen coal handling problems (1979, c125p., eng) **35-1957**

Age of ice in drill holes at Vostok and Vostok-1 Shumskii, P.A., et al. (1980, p.41-48, rus) **35-2030**

Carbon dioxide and climate: ice and ocean Thompson, S.I., et al. (1981, p.9-10, eng) **35-2071**

Effect of river flow control on taiga vegetation Poliushkin, I.V., et al. (1979, p.36-50, rus) **35-2322**

Atmospheric circulation effect on Siberian climate Sergeev, N.I., (1980, p.31-48, rus) **35-2487**

Climatic prospects with antarctic but no arctic ice Flohn, H., (1979, p.35-51, fre) **35-2576**

Ice core studies: dating the past to find the future Dansgaard, W., (1981, p.360-361, eng) **35-2893**

Impact of the Niagara River ice boom on Buffalo's climate Quinn, F.H., et al. (1980, 31p., eng) **35-2936**

Climatic changes in the Northern Hemisphere Gruza, G.V., et al. (1980, 72p., rus) **35-2950**

Derivation of past climate changes from observed changes of glaciers Smith, I.N., et al. (1981, p.31-52, eng) **35-3020**

Ice core studies from Mt. Kenya, Africa Thompson, L.G., (1981, p.55-62, eng) **35-3021**

Lewis Glacier (Mt. Kenya) and possible links tropical climate Vincent, C.E., et al. (1981, p.63-78, eng) **35-3022**

Climatic role of snow covers Kukla, G., (1981, p.79-107, eng) **35-3023**

Climate into ice: the isotopic record in polar ice sheets Robin, G. de Q., (1981, p.207-216, eng) **35-3031**

Climatic evidence from Dome C ice core Lorius, C., et al. (1981, p.217-225, eng) **35-3032**

Total gas content of ice and past changes of the northwest Greenland ice sheet Raynaud, D., et al. (1981, p.235-237, eng) **35-3034**

Temperature profiles at Mizuho Station Nishio, F., et al. (1981, p.239-246, eng) **35-3035**

Responses of ice sheets to environmental changes Young, N.W., (1981, p.331-360, eng) **35-3038**

Soviet studies on glacier changes Kotlyakov, V.M., et al. (1981, p.361-368, eng) **35-3039**

Growth and retreat of ice sheets Budd, W.F., et al. (1981, p.369-409, eng) **35-3040**

Climatic change, ice sheets and sea level Flohn, H., (1981, p.431-440, eng) **35-3041**

All-Union symposium on physical bases of recent climatic changes, Moscow, Apr. 23-25, 1979, Vol. 1 (1980, 108p., rus) **35-3049**

Recent climatic fluctuations in the Arctic Voskresenskii, A.I., et al. (1980, p.57-62, rus) **35-3050**

River diversion effect on local subarctic climatic conditions Zav'yalova, I.N., et al. (1980, p.97-100, rus) **35-3122**

Oceanic mechanisms for amplification of the 23,000-year ice-volume cycle Ruddiman, W.F., et al. (1981, p.617-627, eng) **35-3136**

Antarctic precipitation and global sea level Oerlemans, J., (1981, p.770-772, eng) **35-3364**

Review of papers presented at the first CLIMANZ conference Salinger, M.J., (1981, p.106-107, eng) **35-3365**

Ice core drilling on Dome C Lorius, C., et al. (1979, p.26-34, eng) **35-3369**

Climatic changes and the response of glaciers, W. Spitsbergen Baranowski, S., (1975, p.21-34, eng) **35-3609**

Ice-free Cretaceous? Results from climate model simulations Barron, E.J., et al. (1981, p.501-508, eng) **35-3687**

Microparticle concentration variations linked with climatic change: evidence from polar ice cores Thompson, L.G., et al. (1981, p.812-815, eng) **35-3773**

Glacier accumulation zone reaction to climate changes Whillans, I.M., (1981, p.4274-4282, eng) **35-3913**

Changes of Batura Glacier in the Quaternary and recent times Zhang, X., et al. (1980, p.173-190, chi) **35-4038**

Forecasting the change of Batura Glacier this and next centuries Shi, Y., et al. (1980, p.191-207, chi) **35-4039**

History of glaciers in Glacier National Park, Montana Carrara, P.E., et al. (1981, p.183-196, eng) **35-4091**

Mineral in antarctic ice cores Miklishanskii, A.Z., et al. (1980, p.152-158, eng) **35-4148**

Climatic factors

Summary on the studies of perennial snow patches in Japan Higuchi, K., et al. (1979, p.181-197, jap) **35-266**

Spatial and temporal variations of permafrost near Schefferville, Canada Nicholson, F.H., (1979, p.265-277, eng) **35-1044**

Permafrost in the Chic-Chocs Mts., Quebec Gray, J.T., et al. (1979, p.299-316, eng) **35-1046**

Observation on permafrost within the Bayan-Nuurin-khotnor basin (Mongolia) Babinski, Z., et al. (1976, p.1-17, pol) **35-1165**

Tundra and climatic factors Ryden, B.E., (1980, p.55-62, eng) **35-1473**

Photosynthesis of moss in a subarctic mire Johansson, L.-G., et al. (1980, p.181-190, eng) **35-1480**

Mudflows in relation to climate and topography, Canadian Rocky Mts. Owens, I.F., (1974, p.313-318, eng) **35-1949**

U.S.-Soviet seminar on building under cold climates and on permafrost (1980, 365p., eng) **35-1965**

Arctic animal ecology Remmert, H., (1980, 250p., eng) **35-2023**

Summit house: forces and forms cooperating in an extreme environment Goldstein, E.W., (1980, 103p., eng) **35-2236**

Symposium on snow in motion (1980, 527p., eng) **35-2342**

Avalanche activity in Iceland, climatic conditions, and terrain features Bjornsson, H., (1980, p.13-23, eng) **35-2343**

Frequency of major avalanche winters Fitzharris, B.B., et al. (1980, p.43-52, eng) **35-2346**

Snow cover and the weather in fracture zones of avalanches Gubler, H., (1980, p.65-74, eng) **35-2348**

Fundamental processes in conventional avalanche forecasting LaChapelle, E.R., (1980, p.75-84, eng) **35-2349**

Avalanches of December 1966 in western Tien-Shan, China Qui, J., et al. (1980, p.512-514, eng) **35-2393**

Vegetation and forest dynamics of the upper Dietrich River Valley, Alaska Densmore, D., (1980, p.183p., eng) **35-2408**

Dawson City water and sewerage program: an overview Shillington, E.L., et al. (1981, p.544-554, eng) **35-2523**

German periglacial research in arctic and subarctic regions Karte, J., (1979, p.97-115, ger) **35-2640**

Recent periglacial morphodynamics on Angmagssalik O., southeast Greenland Schunke, E., (1979, p.1-19, ger) **35-2642**

Tundra and analogous soils Everett, K.R., et al. (1981, p.139-179, eng) **35-2705**

Roofs in cold regions Tobiasson, W., (1980, 21p., eng) **35-2713**

Sea level, ice and climatic change: Proceedings of the Symposium, 7-8 Dec. during the 17th General Assembly of IUGG, Canberra Allison, I., ed. (1981, 471p., eng) **35-3017**

Climate and glaciers Kuhn, M., (1981, p.3-20, eng) **35-3018**

Variations of sea ice conditions in Lutzow-Holm Bay area, in Antarctica in the last 20 years Kusunoki, K., (1981, p.171-176, eng) **35-3028**

Introduction to abiotic components in tundra Brown, J., (1981, p.79, eng) **35-3377**

Hydrology of northern tundra Ryden, B.E., (1981, p.115-137, eng) **35-3379**

Brief summary of Arctic engineering and construction problems Arend, E., (1976, 20p., eng) **35-3404**

Permafrost engineering: an introduction to northern engineering. Linnardim, V.J., [1975, 444p., eng] 35-3658

Handbook of snow: principles, processes, management and use. Gray, D.M., ed. [1981, 776p., eng] 35-3745

Distribution of snowcover. McKay, G.A., et al. [1981, p.153-190, eng] 35-3750

Highway pavement cracks: an Alaskan overview. McHattie, R., [1980, p.17-21, eng] 35-3858

Climate and permafrost in areas of low winter snow-cover. Harris, S.A., [1981, p.64-70, eng] 35-4053

Breeding territories of Lapland Longspurs, arctic Alaska. Seastedt, T.R., et al. [1979, p.131-142, eng] 35-4237

Topoclimatic factors and development of rock glacier facies. Morris, S.E., [1981, p.329-338, eng] 35-4264

Climatology

Winter severity index for the Great Lakes. Assel, R.A., [1980, p.1440-1445, eng] 35-883

Leningrad Main Geophysical Observatory. Research projects. [1977, 914p., rus] 35-900

New data base for climate studies. Matson, M., et al. [1981, p.451-456, eng] 35-2074

Great Lakes ice data archive. Hoffman, C.S., [1980, p.5-20, eng] 35-2158

Antarctic climatic research. Dolgin, I.M., ed. [1980, 206p., rus] 35-2178

Climate and hydrology of permafrost areas. Bachurin, G.V., et al. [1980, p.3-41, rus] 35-3414

General circulation model for arctic and antarctic climatology. Herman, G.F., et al. [1980, p.1974-1991, eng] 35-3645

Microparticle concentration variations linked with climatic change: evidence from polar ice cores. Thompson, L.G., et al. [1981, p.812-815, eng] 35-3773

Cloud chambers

Cloud chamber for measuring ice nuclei concentration. Aksenov, M.IA., et al. [1980, p.118-122, rus] 35-23

SAIIA-1 cloud chamber for measuring ice nuclei concentration. Aksenov, M.IA., et al. [1980, p.123-127, rus] 35-24

Ice formation on silver iodide particles. Gorbunov, B.Z., et al. [1980, p.57-63, rus] 35-768

Ice forming properties of copper acetylacetonate. Chochishvili, K.M., et al. [1980, p.31-36, rus] 35-2871

Cloud cover

Spectral albedo of snow. Wiscombe, W.J., et al. [1980, p.68-71, eng] 35-2228

Studying winter frontal cloud boundaries from radar data. Zabolotskaia, T.N., et al. [1980, p.142-145, rus] 35-2996

Arctic stratus clouds and reflection effects on irradiance. Wendler, G., et al. [1981, p.2049-2057, eng] 35-3276

Wintertime observations of roll clouds over the Bering Sea. Walter, B.A., [1980, p.2024-2031, eng] 35-3648

Albedo of snow for partially cloudy skies. Choudhury, B.J., et al. [1981, p.371-389, eng] 35-3964

Cloud dissipation

Mathematical model of hail cloud dissipation. Zhekamukhov, M.K., et al. [1980, p.3-39, rus] 35-1199

Hail cloud dissipation. Volkova, N.A., et al. [1980, p.47-50, rus] 35-1201

Weather and flights of airplanes and helicopters. Astapenko, P.D., et al. [1980, 280p., rus] 35-1362

Cloud droplets

Icing characteristics of low altitude, supercooled layer clouds. Revison, Jeck, R.K., [1980, 68p., eng] 35-1579

Microwave absorption and scattering by water and ice particles. Abshaev, M.T., et al. [1975, p.40-71, rus] 35-1616

Crystallization of precipitation droplets. Kazankova, Z.P., [1975, p.72-76, rus] 35-1617

Studying hail nuclei in wind tunnels. Tlisov, M.I., et al. [1975, p.122-139, rus] 35-1620

Effect of crystalline phase on hailstone growth. Ekba, IA.A., et al. [1975, p.151-162, rus] 35-1622

Frozen drops observed at Fairbanks, Alaska. Sakurai, K., et al. [1981, p.73-76, eng] 35-4265

Cloud physics

Numerical simulation of ice-phase convective cloud seeding. Hsie, E.-Y., et al. [1980, p.950-977, eng] 35-885

Snow and cloud physics in Arctic Canada. Magono, C., et al. [1980, p.1656-1664, eng] 35-1414

Microwave absorption and scattering by water and ice particles. Abshaev, M.T., et al. [1975, p.40-71, rus] 35-1616

On the orientation of ice crystals in a cumulonimbus cloud. Cho, H.-R., et al. [1981, p.1111-1114, eng] 35-4043

Cloud seeding

Cloud chamber for measuring ice nuclei concentration. Aksenov, M.IA., et al. [1980, p.118-122, rus] 35-23

SAIIA-1 cloud chamber for measuring ice nuclei concentration. Aksenov, M.IA., et al. [1980, p.123-127, rus] 35-24

Measuring ice nuclear concentrations in clouds. Potapov, E.I., [1980, p.128-132, rus] 35-25

Ice nuclei concentrations measured from helicopters. Vychuzhanina, M.V., et al. [1980, p.133-137, rus] 35-26

Numerical simulation of ice-phase convective cloud seeding. Hsie, E.-Y., et al. [1980, p.950-977, eng] 35-885

Crystallization of precipitation droplets. Kazankova, Z.P., [1975, p.72-76, rus] 35-1617

Seeding of thunderclouds. Zimin, B.I., [1980, p.30-36, rus] 35-2694

Ice forming properties of 1,5-dioxynaphthalene and phloroglucinol. Aksenov, M.IA., et al. [1980, p.68-75, rus] 35-2695

Ice-forming ability of calcium iodide and ammonium fluoride. Plaude, N.O., [1980, p.76-81, rus] 35-2696

Ice forming properties of copper acetylacetonate. Aksenov, M.IA., et al. [1980, p.82-88, rus] 35-2697

Ice forming properties of AgI. Kim, N.S., [1980, p.89-98, rus] 35-2698

Influence of vapor supersaturation on heterogeneous nucleation. Kartsivadze, A.I., et al. [1980, p.18-30, rus] 35-2870

Ice forming properties of copper acetylacetonate. Chochishvili, K.M., et al. [1980, p.31-36, rus] 35-2871

Mathematical model of ice aerosol evolution. Bakhanov, V.P., et al. [1980, p.41-50, rus] 35-2990

Using silver iodide in cloud seeding. Bakhanova, R.A., et al. [1980, p.98-101, rus] 35-2992

Free silver separating on AgI particles under ultraviolet irradiation. Bakhanova, R.A., [1980, p.102-106, rus] 35-2993

Turbulence in stratiform clouds in an artificial crystallization zone. Kudriavtseva, S.K., [1980, p.124-137, rus] 35-2995

Studying winter frontal cloud boundaries from radar data. Zabolotskaia, T.N., et al. [1980, p.142-145, rus] 35-2996

Clouds (meteorology)

Combined method of cloud separation against snow background. Naidenova, K.A., [1980, p.163-169, rus] 35-2442

Incident flux and snow cover albedo for partially cloudy skies. Choudhury, B.J., et al. [1980, p.76-90, eng] 35-3149

Lidar measurements in Antarctica. Smiley, V.N., [1980, p.188-190, eng] 35-3194

Coagulation

Effect of hail nuclei concentration on their coagulation growth. Kartsivadze, A.I., et al. [1980, p.5-17, rus] 35-2869

Coal

Chemical treatment helps prevent frozen coal. Esterman, J.R., [1979, p.93-94, eng] 35-154

Coal loading pier in Svea, Svalbard. Instanes, B., [1979, p.217-232, eng] 35-172

Timbering, maintenance and preservation of mining excavations. Gritsko, G.I., ed. [1979, 114p., rus] 35-196

Mining in permafrost areas. Tiunin, V.P., [1979, p.62-64, rus] 35-197

Timbering used in mines of permafrost areas. Plesnivtsev, V.V., [1979, p.64-67, rus] 35-198

Mining excavations in permafrost areas. Avksent'ev, I.V., et al. [1979, p.105-106, rus] 35-199

Mining techniques in the North. Avksent'ev, I.V., et al. [1979, p.106-108, rus] 35-200

Surface coal mining control and reclamation act in Alaska, 1977. [1980, 328p., eng] 35-948

Burning coal in Alaska: a winter experience. Abegg, F., [1980, 9p., eng] 35-1187

Investigation and analysis of frozen coal handling problems. [1979, c125p., eng] 35-1957

Thickness of aeration zones in permafrost. Oberman, N.G., [1981, p.127-133, rus] 35-2453

Dry ash handling system in cold climate conditions. Rafay, T., et al. [1981, p.493-506, eng] 35-2520

How to solve frozen-coal problems. Baur, P.S., [1981, p.57-59, eng] 35-4015

Coastal topographic features

Spilled oil retention potential: Beaufort Sea coast of Alaska. Nummedal, D., et al. [1979, p.247-253, eng] 35-174

Geologic processes on the Beaufort Sea shelf (Oct.-Dec. 1979). Barnes, P., et al. [1980, p.193-249, eng] 35-1158

Port feasibility study, Nome, Alaska. Gadd, P.E., et al. [1981, p.235-248, eng] 35-2506

General methodological aspects of radar signal interpretation. Kotiukov, A.A., [1980, p.203-210, eng] 35-2627

Shore erosion by ice. Dionne, J.C., [1980, p.80-92, fre] 35-2958

Geology and geomorphology of the Beaufort Sea coastal plain. Carson, P.L., [1981, p.619-634, eng] 35-3251

Morphology, erosion and barrier islands of the Beaufort Sea coast, Alaska. Hopkins, D.M., et al. [1981, p.178-186, eng] 35-3259

Geologic processes of the Beaufort Sea shelf and coast. Barnes, P., et al. [1981, p.257-355, eng] 35-3261

Erosion and deposition on Arctic shelves. Pavlidis, IU.A., et al. [1981, p.33-96, rus] 35-3887

Coatings

Fluorescent boxes help spot hydrants in Alaskan snow. Mulvihill, C.E., [1981, p.110-111, eng] 35-3861

Thermal regime of current-conducting deicing coating. Avrutov, E.A., [1981, p.90-101, eng] 35-4135

Cohesion

Horizontal coherency of the motion of summer Arctic sea ice. Colony, R., et al. [1980, p.1281-1289, eng] 35-1052

Cohesion of snow at temperature gradients. Marbouty, D., et al. [1980, p.291-295, fre] 35-1371

Cold chambers

Mechanical properties of snow: experimental study by triaxial compression. Navarre, J.P., et al. [1979, 25p., fre] 35-1886

Study of gradient metamorphism by simulation in a cold chamber. Delsol, F., et al. [1978, 42p., fre] 35-1890

Ice thermal diffusion chamber for observing various nucleations. Tomlinson, E.M., [1980, 108p., eng] 35-3468

Cold storage

Soil freezing beneath cold-storage plants. Fedorovich, D.I., et al. [1970, p.81-83, eng] 35-498

Cold tolerance

Low temperature stress in crop plants: the role of the membrane. [1979, 565p., eng] 35-1849

Cold weather construction

Land reclamation in cold regions. Sevost'anov, M.I., et al. [1980, p.2-4, rus] 35-444

Construction of foundations in permafrost. Linell, K.A., et al. [1980, 310p., eng] 35-886

Seasonal fluctuations of road construction in the North. Mal'tsev, L.D., [1980, p.19, 22, rus] 35-1025

Cost of construction in permafrost areas. Kashlinskii, R.N., [1980, p.21-23, rus] 35-1029

Structural design and construction on permafrost. Ilurovskaia, A.P., et al. [1980, p.4-5, rus] 35-1031

Concretes used in the North. Andreev, V.V., [1980, p.5-11, rus] 35-1032

Hydropneumatic impact systems of working parts of mining and road construction machines. Saginov, A.S., et al. [1980, 199p., rus] 35-1149

Soviet construction under difficult climatic conditions. Assur, A., [1980, p.47-53, eng] 35-1397

Land reclamation work in freezing weather. Cherniak, M.B., [1980, p.59-61, rus] 35-1641

Manual for earthquake-resistant brick buildings. [1976, 32p., rus] 35-1716

Resins and non-portland cements for construction in the cold. Johnson, R., [1980, 19p., eng] 35-1725

Cement setting at positive and subzero temperatures. Pal'kin, A.P., et al. [1979, p.275-279, eng] 35-1779

U.S.-Soviet seminar on building under cold climates and on permafrost. [1980, 365p., eng] 35-1965

Urban planning in the Far North. Platonov, G.D., [1980, p.1-9, eng] 35-1966

System of construction in the Far North. Berezovskii, B.I., [1980, p.10-15, eng] 35-1967

Building construction technology in interior Alaska in winter. Bennett, F.L., [1980, p.16-31, eng] 35-1968

Prefabricated low-story construction in the Far North. Sudakov, V.V., [1980, p.32-39, eng] 35-1969

Solar air heating systems for buildings in cold climates. Ward, D.S., [1980, p.40-53, eng] 35-1970

Improvement of bearing capacity of pipe piles by corrugations. Thomas, H.P., et al. [1980, p.229-234, eng] 35-1979

Thermal behavior in a concrete structure in interior Alaska. Anderson, F.A., [1980, p.279-290, eng] 35-1982

Regulated set concrete for cold weather construction. Sayles, F.H., et al. [1980, p.291-314, eng] 35-1983

Thermoactive forms for concrete construction in cold regions. Topchii, V.D., [1980, p.315-321, eng] 35-1984

Excavation of frozen materials. Moore, H.E., et al. [1980, p.323-345, eng] 35-1985

Using explosives to excavate frozen ground. Tart, R.G., et al. [1980, p.246-265, eng] 35-1986

Permafrost engineering research on Spitsbergen. Gregersen, O., [1980, p.3-6, eng] 35-1988

Permafrost and construction work in Svalbard. Mellerud, O.T., [1980, p.39-43, nor] 35-1992

Time constraints on measuring building R-values. Flanders, S.N., [1980, 30p., eng] 35-1998

Thermography control of heat insulation and tightness of buildings. Axen, B., et al. [1980, 214p., eng] 35-2004

Lessons learned from constructing the Trans-Alaska oil pipeline. [1978, 56p., eng] 35-2013

Builder's guide to water and energy. Seifert, R.D., et al. [1980, 78p., eng] 35-2021

Utilities delivery in northern regions. [1980, 542p., eng] 35-2107

Programming design and construction of utilities in Greenland. Rosendahl, G.P., [1980, p.19-43, eng] 35-2109

Studies of utility construction in cold regions. Fielding, M.B., [1980, p.136-139, eng] 35-2114

Insulated shallow buried pipe systems in the N.W.T., Canada. James, F.W., [1980, p.150-186, eng] 35-2116

Pre-insulated high density polyethylene piping in cold regions. Whyman, A.D., [1980, p.187-220, eng] 35-2117

Cold weather construction *(cont.)*

Water distribution pipe networks for arctic settlements. James, W., et al. (1980, p.347-366, eng) **35-2128**

Waterworks systems, Yellowknife, Northwest Territories. Prentice, J.R., et al. (1980, p.409-425, eng) **35-2131**

Large scale development of remote housing in subarctic areas. Robertson, W.A., et al. (1980, p.426-438, eng) **35-2132**

Rural schools prototype analysis in cold regions. Livingston, J.W., et al. (1980, p.439-474, eng) **35-2133**

Water and sewer utilities for Barrow, Alaska. Leman, L.D. (1980, p.484-506, eng) **35-2135**

Drilling north of the Arctic Circle. (1980, p.56-57, eng) **35-2139**

Summit house: forces and forms cooperating in an extreme environment. Goldstein, F.W., (1980, 103p., eng) **35-2236**

Bituminous roofing membranes: practical considerations. Turenne, R.G., (1980, p.1-4, eng) **35-2319**

Alaska gas line project continues to advance. (1981, p.41, eng) **35-2466**

Northern community: a search for a quality environment. (1981, 786p., eng) **35-2496**

Community development in the circumpolar North. Rhoads, E.M., (1981, p.1-15, eng) **35-2497**

Urban design lessons for Alaska. Morehouse, R.K., et al. (1981, p.16-23, eng) **35-2498**

Community planning considerations in cold regions. Ryan, W.L., (1981, p.54-63, eng) **35-2499**

Building the northern urban environment. Fletcher, R.H., (1981, p.71-87, eng) **35-2500**

Design of the built environment in cold regions. Crittenden, E.B., (1981, p.103-114, eng) **35-2501**

Accommodation design for remote settlements. Bent, C., (1981, p.115-131, eng) **35-2502**

Space-time environment: man, architecture, climate and technology. Gerin-Lajoie, G., (1981, p.132-142, eng) **35-2503**

Log school: a case for appropriate design. Dubbs, P., et al. (1981, p.143-156, eng) **35-2504**

Environmental constraints on technology. Atkins, J.T., (1981, p.208-224, eng) **35-2505**

Port feasibility study, Nome, Alaska. Gadd, P.E., et al. (1981, p.235-248, eng) **35-2506**

Principle of railway line selection in alpine permafrost regions. Qui, G., et al. (1981, p.278-287, eng) **35-2509**

New U.S. station for Antarctica. Esser, A.C., (1981, p.288-299, eng) **35-2510**

Modular heliportable shelter system for small camps. Kovacs, J.M., (1981, p.313-332, eng) **35-2511**

Stackwall: small log buildings for remote areas. Sparling, A.B., et al. (1981, p.333-347, eng) **35-2512**

Construction in an arctic environment without adequate inspection. Hoar, C.L., (1981, p.348-361, eng) **35-2513**

Window performance in extreme cold. Flanders, S.N., et al. (1981, p.396-408, eng) **35-2514**

Single wire ground return transmission for rural Alaska. Bettine, F.J., et al. (1981, p.409-424, eng) **35-2515**

Advanced northern utility piping system. Fiala, T., et al. (1981, p.425-437, eng) **35-2516**

Dawson City water and sewerage program: an overview. Shillington, E.L., et al. (1981, p.544-554, eng) **35-2523**

Shallow foundations in continuous permafrost. Phukan, A., (1981, p.664-677, eng) **35-2529**

Present condition (1980) of the TAPS gravel workpad. Krzewinski, T.G., et al. (1981, p.678-692, eng) **35-2530**

Construction and performance of frozen gravel fills. Tart, R.G., et al. (1981, p.693-704, eng) **35-2531**

Protecting structures from frost damage. Chen, X., (1981, p.734-740, eng) **35-2534**

Snow pads for pipeline construction in Alaska. Johnson, P.R., et al. (1980, 28p., eng) **35-2584**

Winter road construction on shifting sands. Shumilov, L.D., (1980, p.22, rus) **35-2638**

Road construction machines and equipment manual. Bespalov, N.A., et al. (1980, 182p. (Pertinent p.13-17), rus) **35-2684**

Cold regions engineering. (1980, Var. p., eng) **35-2710**

Use of piling in frozen ground. Crory, F.E., (1980, 21 p., eng) **35-2711**

Roofs in cold regions. Tobiasson, W., (1980, 21p., eng) **35-2713**

Winter city. Clark, I.K., et al. (1980, 16p., eng) **35-2714**

Operating water intakes in freezing weather. Medvedev, T.A., (1981, p.4-5, rus) **35-2773**

Helicopter transportation of construction materials in the North. Nabutovskii, V.I., (1981, p.13-14, rus) **35-2774**

Polymer fabrics for soil stability in foundation construction. (1981, p.14, eng) **35-2839**

Washing construction materials in freezing water. Tantsman, M.A., et al. (1981, p.22-23, rus) **35-2845**

Construction of bulk plants and gasoline stations. Groznov, G.A., et al. (1980, 332p. (Pertinent p.56-147), rus) **35-2873**

Multi-story stone buildings in the North. Kalinin, M.S., et al. (1980, 153p., rus) **35-2882**

Human settlements in the Arctic. (1980, 125p., eng) **35-2927**

Passive solar heating in Alaska. Final report. Zarling, J.P., (1980, 17p., eng) **35-3077**

Design and construction of sea ice roads in the Alaskan Beaufort Sea. Potter, R.E., et al. (1981, p.135-140, eng) **35-3449**

Soviets share polar problem. Novikov, E., (1979, p.16-17, eng) **35-3518**

Permafrost engineering: an introduction to northern engineering. Lunardini, V.J., (1975, 444p., eng) **35-3658**

Road construction manual for engineers. Bochin, V.A., ed. (1980, 511p. (Pertinent p.367-498), rus) **35-3888**

Earthwork under urban construction conditions. Sadakov, IU.P., et al. (1981, 256p., rus) **35-3962**

Portland cement work in cold weather in Europe and America. Tu, F., (1980, 238p., chi) **35-4012**

Construction of underwater pipelines in West Siberia. Basharat'ian, P.P., et al. (1981, p.32-33, rus) **35-4241**

Alaska roadbuilding: just add water. (1981, p.44, eng) **35-4253**

General conditions in arctic areas. Karni, J., (1981, 56p. + 5 figs., fin) **35-4293**

Cold weather operation

Chemical treatment helps prevent frozen coal. Esterman, J.R., (1979, p.93-94, eng) **35-154**

Design and operation of airfields. Glushkov, G.I., et al. (1980, 441p., eng) **35-703**

Operation of the lubrication, hydraulic and pneumatic systems of construction machines under northern conditions. Garkavi, N.G., et al. (1979, 111p., rus) **35-814**

Railroad track switch operable in snow and ice. Pt.4. Coveney, D.B., (1980, p.11p. + 3 figs., eng) **35-832**

Engine cold-starting and warm-up tests. (1980, 12p., eng) **35-1580**

Rail transit winterization technology and systems operations study. LaMarca, J.J., et al. (1980, 157p., eng) **35-1848**

Arctic pipeline operation, a different world. Hale, D., ed. (1980, p.22-30, eng) **35-1874**

Winterize equipment for best performance. (1980, p.51-57, eng) **35-1876**

Rigs in VANguard to slope. (1980, p.12, 14, eng) **35-2007**

Drilling experiments with drilling fluids. Zagrivnyi, E.A., et al. (1980, p.119-123, rus) **35-2045**

Utilities delivery in northern regions. (1980, 542p., eng) **35-2107**

Water and sanitation policy in the N.W.T., Canada. Christensen, V., (1980, p.9-18, eng) **35-2108**

Water and energy conservation alternatives for the North. Cameron, J.J., et al. (1980, p.47-88, eng) **35-2110**

Wind power generation for sanitation services in the North. Crawford, M.A., et al. (1980, p.89-104, eng) **35-2111**

Technology for water supply and sanitation in northern communities. McGarry, M.G., et al. (1980, p.121-135, eng) **35-2113**

Township of Temagami: one alternative for servicing a northern community. Cooper, B.J., (1980, p.140-149, eng) **35-2115**

Fire protection in the North. Adrian, I., (1980, p.225-229, eng) **35-2118**

Fire protection considerations in remote, cold regions communities. Ryan, W.L., (1980, p.230-233, eng) **35-2119**

Fire protection in isolated northern communities. Whatmough, R.G., (1980, p.234-236, eng) **35-2120**

Sanitation facilities operation and maintenance in Alaskan villages. Rogness, D.R., (1980, p.239-247, eng) **35-2121**

Operation, maintenance and management of sanitation facilities in the North. Sargent, J.W., (1980, p.248-259, eng) **35-2122**

Water supply system for the world's most northerly permanent community. Chong, T.M.Y., et al. (1980, p.367-393, eng) **35-2129**

Modified low-pressure communal sewage disposal systems. McAmmond, K.W., (1980, p.477-483, eng) **35-2134**

Attack under winter conditions. Georgiev, E., (1980, 6p., eng) **35-2152**

Operating water intakes in freezing weather. Medvedev, T.A., (1981, p.4-5, rus) **35-2773**

Environmental aspects of winter navigation into Lake Melville. Gill, R.J., et al. (1980, p.287-306, eng) **35-3099**

Arctic lubrication. (1981, p.186, 189, eng) **35-3697**

Completion techniques and drilling rigs in Prudhoe Bay, Alaska. Moore, S.D., (1981, p.96-100, eng) **35-3814**

Water supply conveyance problems in winter at high altitudes. Garstka, W.U., et al. (1981, p.735-742, eng) **35-4165**

Operation of motor vehicles in cold climate. Krestovnikov, G.A., et al. (1981, 11p., eng) **35-4258**

Cold weather performance

Winter maintenance of construction equipment. Talts, V.G., (1980, p.11-14, rus) **35-446**

Winterizing railroad equipment and machines. Golovinov, G.G., et al. (1980, p.57-58, rus) **35-457**

Burning coal in Alaska: a winter experience. Abegg, F., (1980, 9p., eng) **35-1187**

Investigation and analysis of frozen coal handling problems. (1979, c.125p., eng) **35-1957**

Structural evaluation of porous pavement in cold climate. Eaton, R.A., et al. (1980, 43p., eng) **35-2006**

Calculating frost resistance of steel structures. Shafrai, S.D., (1980, p.26-31, rus) **35-2101**

Waste drilling fluid disposal on tundra. French, H.M., (1980, p.794-806, eng) **35-2173**

Dry ash handling system in cold climate conditions. Ratay, T., et al. (1981, p.493-506, eng) **35-2520**

Time to end hard wintertime starting. (1981, p.48, eng) **35-2562**

Spray application of waste-water effluent in a cold climate. Cassell, E.A., et al. (1980, p.620-626, eng) **35-2574**

Wastewater treatment for cold regions. Smith, D.W., (1980, 21p., eng) **35-2712**

Aquaculture systems for wastewater treatment in cold climates. Pershe, E.R., (1980, p.105-127, eng) **35-2861**

Several reasons for failure of field welded oil pipeline. (1980, p.8-9, eng) **35-3358**

Cold weather survival

Vegetation adaptations for Arctic survival. Davids, R., (1980, p.56-63, eng) **35-248**

Combatting cold. Amendt, R., et al. (1980, 10p., eng) **35-993**

Arctic pipeline operation, a different world. Hale, D., ed. (1980, p.22-30, eng) **35-1874**

Cold weather tests

Low temperature stress in crop plants, the role of the membrane. (1979, 565p., eng) **35-1849**

Air-to-air heat recovery devices for small buildings. Interim report. Zarling, J.P., (1981, 19p., eng) **35-2014**

Lime requirement methods for cold-region soils. Loynachan, T.E., (1981, p.75-80, eng) **35-2926**

Colored ice

Use of pseudo-colors in the research on glaciology and geocryology. Liu, J., (1980, p.63-67, chi) **35-2672**

Algae in lagoon ice. Takahashi, E., (1981, p.49-56 + 5 plates, eng) **35-3597**

Sea ice colored by algae. Hoshiai, T., et al. (1981, p.113-120, eng) **35-4149**

Colored snow

Ice algae near Showa Station. Hoshiai, T., (1981, p.1-1.., eng) **35-3596**

Compaction

Vacuum degassing in construction technology of the North. Polonskii, I.A., (1980, 175p., rus) **35-2048**

Composition

Activities and decomposition of tundra soil microflora. Flanagan, P.W., et al. (1980, p.291-334, eng) **35-1938**

Overconsolidated surficial deposits on the Beaufort Sea shelf. Reimnitz, E., et al. (1981, p.284-312, eng) **35-3263**

Compressive properties

Concrete properties in relation to extended freeze-thaw cycles. Pigeon, M., et al. (1980, p.407-420, fre) **35-834**

Measurements of sea-ice stresses near grounded obstacles. Sackinger, W.M., et al. (1981, p.144-147, eng) **35-1107**

Fracture strength of polycrystalline ice containing KCl. Ogawa, K., et al. (1978, p.1-9, jap) **35-1171**

Failure of sea ice by repeated compression. Nohguchi, Y., et al. (1978, p.63-68, jap) **35-1541**

Arctic sea ice research, 4: measurements of uniaxial compressive strength. Nohguchi, Y., et al. (1978, p.131-139, jap) **35-1549**

Friction between sea ice and other objects. Tushima, K., et al. (1978, p.141-161, jap) **35-1550**

Regulated set concrete for cold weather construction. Sayles, F.H., et al. (1980, p.291-314, eng) **35-1983**

Borehole compression in antarctic ice cover. Shumskii, P.A., et al. (1980, p.54-58, rus) **35-2032**

Relation between loading speed and the strength of frozen ground. Dernugin, A.G., (1981, p.53-70, rus) **35-3285**

Strength and freeze thaw tests of concrete mixed with furnace slag. Malhotra, V.M., (1979, 26p., eng) **35-3410**

Investigation of the snow adjacent to Dye-2, Greenland. Ueda, H.T., et al. (1981, 23p., eng) **35-3651**

Uniaxial compressive strength of segregated ice in soil. Ohrai, T., et al. (1981, p.83-96, eng) **35-4267**

Freeze thaw cycles and air void spacing factors for concretes. Pigeon, M., et al. (1981, p.282-291, eng) **35-4315**

Compressors

Compressor plant construction in cold regions. Lysiuk, V.F., et al. (1980, p.18-19, rus) **35-96**

Preventing the icing of stationary gas-turbine plants. Kuznetsov, A.L., et al. (1980, 120p., rus) **35-1655**

Building compressor stations in West Siberia. Pomatovskii, V.A., (1981, p.30, rus) **35-2785**

Modular construction in cold regions. Rubinshtein, A.B., (1981, p.24-25, rus) **35-2789**

Computer applications

Conference on Computer and Physical Modeling in Hydraulic Engineering, 1980. Ashton, G.D., ed. (1980, 492p., eng) **35-255**

Numerical reconstructions of valley glaciers and small ice caps. Schilling, D.H., et al. (1981, p.207-220, eng) **35-2066**

Use of a geothermal model in northern municipal projects. Kent, D., et al. (1980, p 317-331, eng) 35-2126
Using analog computers in preliminary processing of satellite data. Mikhailov, V.A., (1980, p 125-130, rus) 35-2983

Computer programs
Design of liquid-waste land application. Iskandar, I.K., (1979, p 65-88, 790) 35-2757
Numerical computation of avalanche motion. Cheng, T.T., et al. (1979, 12p., eng) 35-3552
Economics of ice navigation in the northern Gulf of Bothnia. Johansson, B.M., (1977, 8p. + appens., eng) 35-4177

Computerized simulation
Digital simulation of snowmelt runoff. Merritt, R.G., (1978, 107p., eng) 35-530
Snow-avalanche impact on structures. Lang, T.E., et al. (1980, p 445-455, eng) 35-1507
Computer simulation of airfoil icing without runback. Lozowski, E.P., et al. (1981, 8p., eng) 35-3562
Thermal removal of snow and ice on gudeways. Kramer, T.J., (1980, p 1-8, eng) 35-3784

Concrete admixtures
Frost resistance of concrete with surface active admixtures. Dibrov, G.D., et al. (1980, p 64-66, rus) 35-308
Frost resistance of steamed concretes containing surfactants. Koval'skaia, N.N., et al. (1980, p 13-15, rus) 35-470
Strength of concretes with antifreeze admixtures. Krylov, B.A., et al. (1979, p 27-28, rus) 35-474
Wintertime deicing: let the pavement do the work. (1980, p 37-40, eng) 35-524
Concrete resistance to freezing and deicing compound. Manns, W., et al. (1979, p 167-173, ger) 35-528
Rubber in asphalt may cut skidding; tests to gage road icing reduction. (1980, p 24, eng) 35-701
Admixture for increasing concrete frost resistance. Pavlov, V.P., et al. (1980, p 13-14, rus) 35-781
Concretes used in the North. Andreev, V.V., (1980, p 5-11, rus) 35-1032
Local construction materials in the North. Knigina, G.I., (1980, p 79-83, rus) 35-1087
Frost resistance of concretes of different strengths. Mironov, S.A., et al. (1980, p 14-16, rus) 35-1648
Influence of superplasticizers on concrete properties. Chumakov, B.M., et al. (1980, p 16-17, rus) 35-1649
Manual for earthquake-resistant brick buildings. (1976, 32p., rus) 35-1716
Winter concreting of road pavements. Modylevskii, A.B., et al. (1981, p 48-49, rus) 35-2100
Strength and freeze thaw tests of concrete mixed with furnace slag. Malhotra, V.M., (1979, 26p., eng) 35-2164
Admixture dosing devices for concretes. Korolev, K.M., (1980, p 13-14, rus) 35-2623
Concrete and reinforced concrete work. Construction manual. Topchii, V.D., ed. (1980, 201p., rus) 35-2880
Concrete with combined chemical admixtures. Grushko, I.M., et al. (1980, p 23-24, rus) 35-3007
Studying frost resistance of concrete. Poliakov, B.I., et al. (1980, p 52-53, rus) 35-3014
Prolonging the service life of concrete in transport structures. Sheikin, A.E., ed. (1980, 158p., rus) 35-3524
Dosing of antifreeze admixtures for winter concreting. Mamedov, A.A., et al. (1980, p 18-25, rus) 35-3526
Corrosion of concrete reinforcements from antifreeze admixtures. Sheikin, A.E., et al. (1980, p 35-44, rus) 35-3528
Induced polarization of concretes with antifreeze admixtures. Kurushin, A.D., et al. (1980, p 52-58, rus) 35-3529
Rubber in pavements for ice control. Esch, D., (1980, p.34-39, eng) 35-3860

Concrete aggregates
Transportation of asphalt-concrete mixtures at subzero temperatures. Chaika, A.T., (1980, p.107-110, rus) 35-309
Relation between concrete composition and frost resistance. Sheikin, A.E., (1979, p 25-26, rus) 35-475
Electrically heated concrete mixtures. Arben'ev, A.S., (1980, p 87-91, rus) 35-1088
Concrete mixer for winter concreting. Khapt, M.I., (1980, p.23-25, rus) 35-1141
Frost resistance of concretes of different strengths. Mironov, S.A., et al. (1980, p.14-16, rus) 35-1648
Use of slag in bituminous pavements. Koivuniemi, M., (1979, 71p. + figs., fin) 35-2058
Concrete and reinforced concrete work. Construction manual. Topchii, V.D., ed. (1980, 201p., rus) 35-2880
Heating aggregates for winter concreting. Zemzerov, S.N., et al. (1980, p.27, rus) 35-3001
Studying frost resistance of concrete. Poliakov, B.I., et al. (1980, p 52-53, rus) 35-3014
Strength and freeze thaw tests of concrete mixed with furnace slag. Malhotra, V.M., (1979, 26p., eng) 35-3410
Winter concreting. Sadovskii, S.I., et al. (1981, p.19-21, rus) 35-4283
Freeze thaw cycles and air void spacing factors for concretes. Pigeon, M., et al. (1981, p 282-291, eng) 35-4315

Concrete cooling
Prolonging the service life of concrete in transport structures. Sheikin, A.E., ed. (1980, 158p., rus) 35-3524
Properties of concretes placed in freezing weather. Abramenko, N.A., (1980, p 130-135, rus) 35-3530

Concrete curing
Thermal analysis of thick concrete sections. Thurston, S.J., et al. (1980, p 347-357, eng) 35-824

Concrete degassing
Vacuum degassing in construction technology of the North. Polonskii, I.A., (1980, 175p., rus) 35-2048

Concrete durability
Resistivity of bridge concrete pavement to freezing and salting. Harig, S., (1980, p 271-276, ger) 35-568
Resistance of concrete to urea and freezing. Blunk, G., et al. (1980, p.119-131, ger) 35-569
Strength and freeze thaw tests of concrete mixed with furnace slag. Malhotra, V.M., (1979, 26p., eng) 35-2164
Strength and freeze thaw tests of concrete mixed with furnace slag. Malhotra, V.M., (1979, 26p., eng) 35-3410

Concrete freezing
Strength of concrete at the contact with perennially frozen ground. Andreev, V.V., (1980, p 10-13, rus) 35-102
Concrete and cryogenics. Part 2. Turner, F.H., (1980, p.31, eng) 35-251
Transportation of asphalt-concrete mixtures at subzero temperatures. Chaika, A.T., (1980, p.107-110, rus) 35-309
Frost resistance of steamed concretes containing surfactants. Koval'skaia, N.N., et al. (1980, p.13-15, rus) 35-470
Allowing for low temperature effects in structural design. Milovanov, A.F., et al. (1980, p.25-26, rus) 35-471
Frost resistance of steamed concrete. Savitskii, A.N., (1980, p.25-26, rus) 35-473
Relation between concrete composition and frost resistance. Sheikin, A.E., (1979, p 25-26, rus) 35-475
Concrete resistance to freezing and deicing compound. Manns, W., et al. (1979, p.167-173, ger) 35-528
Concrete structure protection against humidity, frost and salt. Weyer, P., (1980, p.173-177, ger) 35-567
Resistivity of bridge concrete pavement to freezing and salting. Harig, S., (1980, p.271-276, ger) 35-568
Resistance of concrete to urea and freezing. Blunk, G., et al. (1980, p.119-131, ger) 35-569
Winter and summer control of concrete temperature. Gunter, IU.S., et al. (1980, p.19-22, rus) 35-602
Admixture for increasing concrete frost resistance. Pavlov, V.P., et al. (1980, p.13-14, rus) 35-781
Concrete properties in relation to extended freeze-thaw cycles. Pigeon, M., et al. (1980, p.407-420, fre) 35-834
Damage to bridge parapets by frost and salting. Studer, W., (1980, p.364-366, ger) 35-896
Temperature fields of concrete and earth dams. Zubkov, V.I., (1980, p.94-98, rus) 35-1035
Antifreeze admixtures for winter concreting. Dobshits, L.M., (1979, p.47-55, rus) 35-1278
Frost resistance of concretes of different strengths. Mironov, S.A., et al. (1980, p.14-16, rus) 35-1648
Deformation of loaded concrete beams at subzero temperature. Gorchakov, G.I., et al. (1980, p.7-9, rus) 35-1650
Quick method of determining frost resistance of concrete. Piralov, T.S., et al. (1980, p.16, rus) 35-1651
Effect of slag cement on frost resistance of concrete. Fagerlund, G., (1980, 86p., eng) 35-2060
Strength and freeze thaw tests of concrete mixed with furnace slag. Malhotra, V.M., (1979, 26p., eng) 35-2164
Cooling rate of fresh concrete in freezing weather. Zubkov, V.I., (1980, p.99-104, rus) 35-2771
Forecasting frost resistance of concretes. Sheikin, A.E., et al. (1981, p 19-20, rus) 35-3002
Strength and freeze thaw tests of concrete mixed with furnace slag. Malhotra, V.M., (1979, 26p., eng) 35-3410
Winter concreting in heated formwork. Petrukhno, E.P., (1980, p.833-837, eng) 35-3816
Concrete dam of the Ust'-Ilim hydroelectric power plant (Field observations and studies). Edel'man, S.IA., et al. (1981, 137p., rus) 35-3898
Acoustic measurement of the frost resistance of concretes. Filomidov, A.M., (1981, p 14-15, rus) 35-4228
Water proofing massive concrete in freezing weather. Alekseenko, L.N., et al. (1981, p.67-71, rus) 35-4291
Freeze thaw cycles and air void spacing factors for concretes. Pigeon, M., et al. (1981, p.282-291, eng) 35-4315

Concrete hardening
Winter and summer control of concrete temperature. Gunter, IU.S., et al. (1980, p.19-22, rus) 35-602
Admixture for increasing concrete frost resistance. Pavlov, V.P., et al. (1980, p.13-14, rus) 35-781
Thermoactive forms for concrete construction in cold regions. Topchii, V.D., (1980, p.315-321, eng) 35-1984
Vacuum degassing in construction technology of the North. Polonskii, I.A., (1980, 175p., rus) 35-2048
Winter concreting of road pavements. Modylevskii, A.B., et al. (1981, p.48-49, rus) 35-2100
Cooling rate of fresh concrete in freezing weather. Zubkov, V.I., (1980, p.99-104, rus) 35-2771
Properties of concretes placed in freezing weather. Abramenko, N.A., (1980, p.130-135, rus) 35-3530
Winter concreting in heated formwork. Petrukhno, E.P., (1980, p.833-837, eng) 35-3816

Concrete heating
New method and apparatus for testing air content of fresh concrete in situ. Nasser, K.W., et al. (1980, p.472-476, eng) 35-1493
Regulated set concrete for cold weather construction. Sayles, F.H., et al. (1980, p.291-314, eng) 35-1983
Thermoactive forms for concrete construction in cold regions. Topchii, V.D., (1980, p.315-321, eng) 35-1984
Winter concreting in heated formwork. Petrukhno, E.P., (1980, p.833-837, eng) 35-3816
Winter concreting. Sadovskii, S.I., et al. (1981, p.19-21, rus) 35-4283

Concrete pavements
Asphalt pavement technology, 1979. (1979, 273p., eng) 35-331
Frost protection layers in the design of road structures. Floss, R., (1979, p.158-161, ger) 35-527
Resistivity of bridge concrete pavement to freezing and salting. Harig, S., (1980, p.271-276, ger) 35-568

Concrete piles
Thermal interactions between ground and concrete piles. Andreev, V.V., et al. (1981, p.33-35, rus) 35-2786

Concrete placing
Winter and summer control of concrete temperature. Gunter, IU.S., et al. (1980, p.19-22, rus) 35-602
Temperature fields of concrete and earth dams. Zubkov, V.I., (1980, p.94-98, rus) 35-1035
Antifreeze admixtures for winter concreting. Dobshits, L.M., (1979, p.47-55, rus) 35-1278
Influence of superplasticizers on concrete properties. Chumakov, B.M., et al. (1980, p.16-17, rus) 35-1649
Concrete and reinforced concrete cast-in-place structures. (1977, 127p., rus) 35-1717
Instructions for using formwork for cast-in-place reinforced concrete structures. No.3. (1974, 142p., rus) 35-1719
Cooling rate of fresh concrete in freezing weather. Zubkov, V.I., (1980, p.99-104, rus) 35-2771
Prolonging the service life of concrete in transport structures. Sheikin, A.E., ed. (1980, 158p., rus) 35-3524
Properties of concretes placed in freezing weather. Abramenko, N.A., (1980, p.130-135, rus) 35-3530
Cranes used in arch dam construction in the North. Kuperman, V.L., et al. (1981, p.12-15, rus) 35-4281
Tall block technique of dam construction in the North. Kuperman, V.I., et al. (1981, p.15-18, rus) 35-4282
Winter concreting. Sadovskii, S.I., et al. (1981, p.19-21, rus) 35-4283

Concrete strength
Strength of concrete at the contact with perennially frozen ground. Andreev, V.V., (1980, p.10-13, rus) 35-102
Concrete and cryogenics. Part 2. Turner, F.H., (1980, p.31, eng) 35-251
Frost resistance of concrete with surface active admixtures. Dibrov, G.D., et al. (1980, p.64-66, rus) 35-308
Frost resistance of steamed concretes containing surfactants. Koval'skaia, N.N., et al. (1980, p.13-15, rus) 35-470
Allowing for low temperature effects in structural design. Milovanov, A.F., et al. (1980, p.25-26, rus) 35-471
Frost resistance of steamed concrete. Savitskii, A.N., (1980, p.25-26, rus) 35-473
Strength of concretes with antifreeze admixtures. Krylov, B.A., et al. (1979, p.27-28, rus) 35-474
Concrete resistance to freezing and deicing compound. Manns, W., et al. (1979, p.167-173, ger) 35-528
Winter and summer control of concrete temperature. Gunter, IU.S., et al. (1980, p.19-22, rus) 35-602
Frost resistant concretes for meliorative structures. Nevskii, V.A., et al. (1980, p.9-11, rus) 35-780
Damage to bridge parapets by frost and salting. Studer, W., (1980, p.364-366, ger) 35-896
Concretes used in the North. Andreev, V.V., (1980, p.5-11, rus) 35-1032
New method and apparatus for testing air content of fresh concrete in situ. Nasser, K.W., et al. (1980, p.472-476, eng) 35-1493
Frost resistance of concretes of different strengths. Mironov, S.A., et al. (1980, p.14-16, rus) 35-1648
Thermal behavior in a concrete structure in interior Alaska. Anderson, F.A., (1980, p.279-290, eng) 35-1982
Regulated set concrete for cold weather construction. Sayles, F.H., et al. (1980, p.291-314, eng) 35-1983
Thermoactive forms for concrete construction in cold regions. Topchii, V.D., (1980, p.315-321, eng) 35-1984

Concrete strength *(cont.)*

Structural evaluation of porous pavement in cold climate. Eaton, R.A., et al. [1980, 43p., eng] **35-2006**

Vacuum degassing in construction technology of the North. Polonskii, I.A. [1980, 175p., rus] **35-2048**

Strength and freeze thaw tests of concrete mixed with furnace slag. Malhotra, V.M. [1979, 26p., eng] **35-2164**

Frost resistance of polymer concretes. Granovskaia, I.V., et al. [1981, p.51, rus] **35-2847**

Strength and freeze thaw tests of concrete mixed with furnace slag. Malhotra, V.M. [1979, 26p., eng] **35-3410**

Resistance of concrete walls to high concentrated ice loads. Gerwick, B.C., et al. [1981, p.425-436, eng] **35-3450**

Prolonging the service life of concrete in transport structures. Sheikin, A.E., ed. [1980, 158p., rus] **35-3524**

Forecasting frost resistance of concretes. Sheikin, A.E., et al. [1980, p.3-17, rus] **35-3525**

Induced polarization of concretes with antifreeze admixtures. Kurushin, A.D., et al. [1980, p.52-58, rus] **35-3529**

Concrete dam of the Ust'-Ilim hydroelectric power plant (Field observations and studies). Eidel'man, S.IA., et al. [1981, 137p., rus] **35-3898**

Concrete structures

Pile foundations for weak ground. Shapiro, V.D., et al. [1980, p.4-6, rus] **35-94**

Strength of concrete at the contact with perennially frozen ground. Andreev, V.V., [1980, p.10-13, rus] **35-102**

Foundation performance of a steel tower silo at Richmond, Ontario. Scott, J.D., et al. [1980, p.85-89, eng] **35-277**

Pumping aggregate foundations for northern gas mains. Makar, R.M., et al. [1980, p.11-12, rus] **35-312**

Frost resistant concrete elements for pavements. Oganesiants, S.L., et al. [1980, p.8-10, rus] **35-472**

Sand-concrete panels for building partitions. Isaenko, A.G., et al. [1980, p.19-21, rus] **35-502**

Concrete structure protection against humidity, frost and salt. Weyer, P. [1980, p.173-177, ger] **35-567**

Exhibition: Foundation construction in the USSR. Smirnov, I.V., [1980, p.42-45, rus] **35-608**

Modern methods of road construction. Smirnov, I.V., [1980, p.45-47, rus] **35-609**

Hydro power plant construction in the USSR. Il'inov, D.M., ed. [1979, 597p., eng] **35-685**

Frost resistant concretes for meliorative structures. Nevskii, V.A., et al. [1980, p.9-11, rus] **35-780**

Precast reinforced concrete foundations on freezing soil. Kuracheva, N.V., [1980, p.17, rus] **35-784**

Testing methods for construction in cold regions. Kudashov, E.A., et al. [1980, 108p., eng] **35-987**

Temperature fields of concrete and earth dams. Zubkov, V.I., [1980, p.94-98, rus] **35-1035**

Science assists the builders of Siberia and the Far East. Chentemirov, M.G., [1980, 192p., rus] **35-1136**

Giant power plant in the Sayan Mountains. Mikhailov, L.P., et al. [1980, 104p., rus] **35-1271**

Construction of river harbors under severe climatic conditions. Rikhter, O.B., et al. [1980, p.18-20, rus] **35-1299**

Modular construction in cold regions except permafrost areas. Boev, A.A., et al. [1980, p.31-32, rus] **35-1308**

Reinforced concrete piles driven into weak soils. Timofeev, IU.I., et al. [1980, p.107-110, eng] **35-1385**

Improvement of road construction technology. Zbarzhevskii, V.V., et al. [1980, 152p., rus] **35-1434**

Reinforced concrete overflow-part of earth dams. Pravdivets, IU.P., [1980, p.39-41, rus] **35-1639**

Modern foundation design for buildings and underground structures. [1980, p.7-9, rus] **35-1647**

Influence of superplasticizers on concrete properties. Chumakov, IU.M., et al. [1980, p.16-17, rus] **35-1649**

Deformation of loaded concrete beams at subzero temperature. Gorchakov, G.I., et al. [1980, p.7-9, rus] **35-1650**

Instructions for using formwork for cast-in-place reinforced concrete structures, No.3. [1974, 142p., rus] **35-1719**

Thermal behavior in a concrete structure in interior Alaska. Anderson, F.A., [1980, p.279-290, eng] **35-1982**

Thermoactive forms for concrete construction in cold regions. Topchii, V.D., [1980, p.315-321, eng] **35-1984**

Precast lightweight concrete for cold regions. Vasil'ev, N.F., et al. [1981, p.20-23, rus] **35-2080**

Bridges across large rivers in the North. Rasskazov, I.D., et al. [1981, p.23-24, rus] **35-2081**

Thermal conductivity of frozen of thawed concretes. Sobol', S.V., [1980, p.109-111, rus] **35-2104**

Construction of bulk plants and gasoline stations. Groznov, G.A., et al. [1980, 332p. (Pertinent p.56-147), rus] **35-2873**

Resistance of concrete walls to high concentrated ice loads. Gerwick, B.C., et al. [1981, p.425-436, eng] **35-3450**

Prolonging the service life of concrete in transport structures. Sheikin, A.E., ed. [1980, 158p., rus] **35-3524**

Forecasting frost resistance of concretes. Sheikin, A.E., et al. [1980, p.3-17, rus] **35-3525**

Dosing of antifreeze admixtures for winter concreting. Mamedov, A.A., et al. [1980, p.18-25, rus] **35-3526**

Strength of mortars with antifreeze admixtures. Kuntsevich, O.V., et al. [1980, p.26-34, rus] **35-3527**

Properties of concretes placed in freezing weather. Abramenko, N.A., [1980, p.130-135, rus] **35-3530**

Design of avalanche protection structures. Bilialov, K.B., [1980, p.79-84, rus] **35-3577**

Concrete reinforcement for temperature action. Gol'tsman, V.Kh., [1980, p.815-521, eng] **35-3815**

Facings of dome-shaped structures built under severe climatic conditions. Lipnitskii, M.E., [1981, 136p., rus] **35-3864**

Concrete dam of the Ust'-Ilim hydroelectric power plant (Field observations and studies). Eidel'man, S.IA., et al. [1981, 137p., rus] **35-3898**

Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, F.V., ed. [1979, 133p., rus] **35-4055**

Controlling stresses in concrete dams. Epifanov, A.P., et al. [1981, p.5-8, rus] **35-4227**

Construction of steam power stations in the North. Takh, M.G., [1981, p.26-28, rus] **35-4229**

Construction of tall gravity dams in the North. Efimenko, A.I., et al. [1981, p.4-11, rus] **35-4280**

Cranes used in arch dam construction in the North. Kuperman, V.L., et al. [1981, p.12-15, rus] **35-4281**

Concretes

Steam permeability of concretes and bricks. Shamaeva, A.P., et al. [1979, p.110-113, rus] **35-241**

Frost resistant concrete elements for pavements. Oganesiants, S.L., et al. [1980, p.8-10, rus] **35-472**

Admixture for increasing concrete frost resistance. Pavlov, V.P., et al. [1980, p.13-14, rus] **35-781**

Concretes used in the North. Andreev, V.V., [1980, p.5-11, rus] **35-1032**

Experience in fabricating plates with porous glass-concrete thermal insulation. Roiak, G.S., et al. [1980, p.22-26, rus] **35-1142**

Surfactant admixtures for portland cement. Tonka, A.R., et al. [1980, p.71-75, rus] **35-1364**

Quick method of determining frost resistance of concrete. Piralov, T.S., et al. [1980, p.16, rus] **35-1651**

Frost resistant fiber reinforced concretes. Ekibaeva, A.A., et al. [1980, p.134-142, rus] **35-2426**

Concrete mixer SB-119. Ushakov, B.I., [1980, p.12, rus] **35-2622**

Frost resistance of polymer concretes. Granovskaia, I.V., et al. [1981, p.51, rus] **35-2847**

Concrete and reinforced concrete work. Construction manual. Topchii, V.D., ed. [1980, 201p., rus] **35-2880**

Concrete with combined chemical admixtures. Grushko, I.M., et al. [1980, p.23-24, rus] **35-3007**

Condensation

Chemical composition of atmospheric precipitation in Yakutia. Anisimova, N.P., et al. [1980, p.30-37, rus] **35-3992**

Water vapor condensation processes in permafrost areas. Shepelev, V.V., [1980, p.43-56, rus] **35-3994**

Vapor condensation in hydraulically filled tailings. Klimov, G.I., et al. [1980, p.57-62, rus] **35-3995**

Vapor condensation in aeration zones at subzero temperatures. Papernov, I.M., et al. [1980, p.62-82, rus] **35-3996**

Chemical composition of waters infiltrating seasonally thawing sands. Anisimova, N.P., [1980, p.82-90, rus] **35-3997**

Condensation nuclei

Airborne equipment for sampling ice forming aerosols. Berezinskii, N.A., et al. [1980, p.105-110, rus] **35-771**

Ice thermal diffusion chamber for observing various nucleations. Tomlinson, E.M., [1980, 108p., eng] **35-3468**

Conduction

Convection in the melting region around a heated cylinder. Yao, L.S., et al. [1980, p.667-672, eng] **35-1677**

Convection-controlled and conduction-controlled freezing. Sparrow, E.M., et al. [1981, p.7-12, eng] **35-2146**

Conduction and the transfer function of cold wires at VLF. Lecordier, J.C., et al. [1981, p.103-114, fre] **35-3626**

Soil hydraulic conductivity and moisture retention features. Ingersoll, J., [1981, 11p., eng] **35-3644**

Construction

Organizing construction in the Far North. Tsaliuk, I.G., [1980, p.13-14, rus] **35-3**

Frost protection layers in the design of road structures. Floss, R., [1979, p.158-161, ger] **35-527**

Problems of the North; a current bibliography. [1980, 3 volumes, rus] **35-858**

Problems of the North: a current bibliography. [1980, 198p., rus] **35-859**

Geotechnical conditions during the trans-Alaska pipeline construction. Luscher, U., et al. [1979, p.128-133, eng] **35-1112**

Environmental engineering, Yukon River-Prudhoe Bay Haul Road. Brown, J., ed. [1980, 187p., eng] **35-1768**

Environment of the Alaskan Haul Road. Brown, J., [1980, p.3-52, eng] **35-1769**

Haul Road performance and associated investigations in Alaska. Berg, R.L., [1980, p.53-100, eng] **35-1770**

Revegetation along roads and pipelines in Alaska. Johnson, L.A., [1980, p.129-150, eng] **35-1772**

Alaskan gas breakthrough nearing. Hale, D., ed. [1980, p.17-21, eng] **35-1873**

Permafrost and human activities in the Arctic and Subarctic. Pewe, T.L., [1979, p.333-344, eng] **35-1952**

Independent roof sections for long buildings to resist snow loads. Woeste, F.E., et al. [1980, p.968-972, eng] **35-2411**

Impact of floods from glacier-dammed lakes, Yukon, Canada. Young, G.J., [1980, p.101-107, 170-175, rus] **35-2825**

Problems in roadbed stability of the Ching-hai Tibet highway. [1979, p.43-51, chi] **35-2902**

Mudboil pattern disruption due to airstrip construction at North Henik Lake. Eggimton, P.A., [1981, p.299-303, eng] **35-3087**

Palsa bogs, sand dunes and salt marshes, environmentally sensitive habitats in the coastal region southeastern Labrador. Roberts, B.A., et al. [1980, p.245-263, eng] **35-3096**

Longitudinal stiffness analyses for the propulsion shafting systems of the polar class icebreakers. Vassilopoulos, L., et al. [1921, p.179-195, eng] **35-3561**

Construction of artificial drilling islands in the Beaufort Sea. Boone, D.J., [1980, p.187-195, eng] **35-3633**

Arctic bulk carriers from the GDR. [1981, p.182, 184-185, eng] **35-3696**

Construction equipment

Compressor plant construction in cold regions. Lysiuk, V.F., et al. [1980, p.18-19, rus] **35-96**

Maintaining ice-free areas around dredging shovels. Roshchupkin, D.V., et al. [1980, p.17-18, rus] **35-390**

Winter maintenance of construction equipment. Tatts, V.G., [1980, p.11-14, rus] **35-446**

Construction cost in permafrost areas. Purtov, P.G., et al. [1980, p.17-20, rus] **35-450**

Winter maintenance and repair base for the army. Vasil'ev, V., [1980, p.63-66, rus] **35-494**

Operation of the lubrication, hydraulic and pneumatic systems of construction machines under northern conditions. Garkavi, N.G., et al. [1979, 111p., rus] **35-814**

Construction cranes for the North. Nevzorov, L.A., et al. [1980, p.1-4, rus] **35-922**

Testing methods for construction in cold regions. Kudashov, E.A., et al. [1980, 108p., eng] **35-987**

Hydraulic excavators for frozen ground. Osadchii, G.K., [1980, p.13, rus] **35-1027**

Dredging in freezing weather. Popov, IU.A., [1980, p.98-104, rus] **35-1089**

Development of construction bases in permafrost areas. Belonogova, A.E., [1978, p.36-55, rus] **35-1277**

Construction equipment for weak soils. Penchuk, V.A., [1980, p.21-23, rus] **35-1302**

Improvement of road construction technology. Zbarzhevskii, V.V., et al. [1980, 152p., rus] **35-1434**

Winterize equipment for best performance. [1980, p.51-57, eng] **35-1876**

Excavation of frozen materials. Moore, H.E., et al. [1980, p.323-345, eng] **35-1985**

Bridges across large rivers in the North. Rasskazov, I.D., et al. [1981, p.23-24, rus] **35-2081**

Field maintenance shop for cold regions. Tatts, V.G., [1981, p.26-28, rus] **35-2085**

Road construction for cold regions. Gruzdev, V.V., [1981, p.33-35, rus] **35-2086**

Construction machines designed for the North. Shpiller, E.D., et al. [1981, p.54-55, rus] **35-2091**

New excavator types for permafrost areas. [1981, p.65, rus] **35-2092**

Construction equipment for snow removal. [1980, p.54, eng] **35-2138**

New principle of helicopter design for tundra. Cherskii, N., [1981, p.26-28, rus] **35-2765**

Pipeline construction cost in West Siberia. Kurbatov, N.I., [1981, p.14-16, rus] **35-2788**

Cranes and excavators for permafrost areas. [1981, p.12-14, rus] **35-2848**

Gantry crane for cold regions. Tatts, V.G., et al. [1981, p.21-22, rus] **35-2853**

Aggregate method of repairing road construction equipment. Khatkis, M.L., [1980, 64p., rus] **35-2967**

Transportation and residential houses for the North. [1980, p.26-27, rus] **35-3012**

Equipment for building seepage fills. Tkachevskii, I.D., et al. [1981, p.3-5, rus] **35-3532**

Timan-Pechora regional industrial complex. Podoplelov, V.P., ed. [1979, 144p., rus] **35-4104**

Performance of modern technical equipment in the North. Skrybykin, A.N., [1978, p.24-31, rus] **35-4111**

Building earth dams in swamps. Bessonov, A.V., [1981, p.37-38, rus] **35-4231**

Construction of residential buildings in West Siberia. Seredin, V.G., et al. [1981, p.31-32, rus] **35-4240**

Shelters for winter maintenance of equipment. Tatts, V.G., [1981, p.10-12, rus] **35-4279**

Cranes used in arch dam construction in the North. Kuperman, V.I., et al. [1981, p.12-15, rus] 35-4281

Construction materials

Remote sensing for earth dam site selection and construction materials. Merry, C.J., et al. [1980, p.158-170, eng] 35-153

Steam permeability of concretes and bricks. Shamaeva, A.P., et al. [1979, p.110-113, rus] 35-241

Frost resistance of ceramic wall materials. Kuz'min, I.D., et al. [1980, p.22-23, rus] 35-348

Construction cost in permafrost areas. Purtov, P.G., et al. [1980, p.17-20, rus] 35-450

Testing methods for construction in cold regions. Kudashov, E.A., et al. [1980, 108p., eng] 35-987

Local construction materials in the North. Knigma, G.I., [1980, p.79-83, rus] 35-1087

Tree bark in road pavement construction. Lukina, V.A., et al. [1980, p.124-127, rus] 35-1090

Development of construction bases in permafrost areas. Belonogova, V.E., [1978, p.36-55, rus] 35-1277

Modular buildings for cold regions. Sushin, V.M., et al. [1980, p.30-31, rus] 35-1307

Improvement of road construction technology. Zbarzhevskii, V.V., et al. [1980, 152p., rus] 35-1434

Strength of materials and structural elements under extreme conditions. Vol.I. Pisarenko, G.S., et al. [1980, 536p., rus] 35-1490

Resins and non-portland cements for construction in the cold. Johnson, R., [1980, 19p., eng] 35-1725

Cement setting at positive and subzero temperatures. Pal'kin, A.P., et al. [1979, p.275-279, eng] 35-1779

Prefabricated low-story construction in the Far North. Sudakov, V.V., [1980, p.32-39, eng] 35-1969

Time constraints on measuring building R-values. Flanders, S.N., [1980, 30p., eng] 35-1998

Thermography control of heat insulation and tightness of buildings. Axen, B., et al. [1980, 214p., eng] 35-2004

Construction machines designed for the North. Shpiller, E.D., et al. [1981, p.54-55, rus] 35-2091

Strength of materials and structural elements under extreme conditions. Vol.II. Pisarenko, G.S., et al. [1980, 771p., rus] 35-2396

Frost resistant fiber reinforced concretes. Ekibaeva, A.A., et al. [1980, p.134-142, rus] 35-2426

Frost heave of roads. Jones, R.H., [1980, p.77-86, eng] 35-2468

Space-time environment - man, architecture, climate and technology. Germ-Lajoie, G., [1981, p.132-142, eng] 35-2503

Log school: a case for appropriate design. Dubbs, P., et al. [1981, p.143-156, eng] 35-2504

Stackwall - small log buildings for remote areas. Sparling, A.B., et al. [1981, p.333-347, eng] 35-2512

Using textile interlayers in road construction. Tabakov, N.V., et al. [1980, p.4-7, rus] 35-2777

Washing construction materials in freezing water. Tantsman, M.A., et al. [1981, p.22-23, rus] 35-2845

Evaluation of Ontario shoreline protection materials. Carmichael, T.J., et al. [1980, p.248-262, fre] 35-2962

Slope protection for artificial exploration islands off Prudhoe Bay. Leidersdorf, C.B., et al. [1981, p.437-448, eng] 35-3451

Low temperature properties of polymers. Perepechko, I.I., [1980, 302p., eng] 35-3600

Sonde for measuring heat conductivity of thermal insulation. Vertel'nikova, O.A., [1979, p.111-117, rus] 35-4062

Production of construction materials in the North. Krivoshapkin, A.I., et al. [1978, p.68-71, rus] 35-4113

Construction of residential buildings in West Siberia. Seredin, V.G., et al. [1981, p.31-32, rus] 35-4240

Preparation of construction sites in cold regions. Pavlov, V.I., et al. [1981, p.23-25, rus] 35-4246

Continental drift

Earth beneath the poles. [1980, p.4-14, eng] 35-400

Continuous permafrost

Geocryologic altitudinal zonation of northern Tien Shan. Gorbunov, A.P., et al. [1979, p.67-83, rus] 35-189

Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979. Abstracts of the papers. [1979, 211p., rus] 35-245

Hydrology of a small lake in the Canadian high Arctic. Woo, M.-K., [1980, p.227-235, eng] 35-1664

Origin of pingos in regions of thick permafrost, western Canadian Arctic. Pissart, A., et al. [1977, p.149-160, eng] 35-1884

Topographic map of the Lake Saysar Basin in Yakutsk. Solov'ev, P.A., [1980, p.127-134, rus] 35-2194

Shallow foundations in continuous permafrost. Phukan, A., [1981, p.664-677, eng] 35-2529

Cryogenic relief features and vegetation in Arctic islands. Matveeva, N.V., [1980, p.1543-1559, rus] 35-3217

Ground ice development in East Yakutia. Gordeev, P.P., [1980, p.141-147, rus] 35-3329

Waters of the Lake Baykal area. Bachurin, G.V., [1980, p.190-200, rus] 35-3426

Natural resources of the northeastern USSR. Lozhkin, A.V., ed. [1976, 152p., rus] 35-3825

Climatic conditions of the Magadan Region. Mel'nikova, T.V., [1976, p.5-21, rus] 35-3826

Runoff characteristics in polar regions. Nasybulin, Sh.S., [1976, p.32-41, rus] 35-3827

Geocryological processes in the Far East. Shumilov, IU.V., [1976, p.46-54, rus] 35-3829

Phytoplankton of the Pyasina River (western Taymyr). Ermolaev, V.I., [1981, p.16-29, rus] 35-3891

Yamal Peninsula. Danilova, N.S., et al. [1981, p.84-91, rus] 35-4072

Convection

Free convection heat transfer characteristics in a melt water layer. Yen, Y.-C., [1980, p.550-556, eng] 35-103

Effect of bubbles released from a melting antarctic ice. Josberger, E.G., [1980, p.474-477, eng] 35-1053

Convection in the melting region around a heated cylinder. Yao, L.S., et al. [1980, p.667-672, eng] 35-1677

Prediction of growth parameters of frost deposits in forced convection. White, J.E., et al. [1981, p.3-6, eng] 35-2145

Convection-controlled and conduction-controlled freezing. Sparrow, E.M., et al. [1981, p.7-12, eng] 35-2146

Melting of a vertical ice wall by free convection into fresh water. Wilson, N.W., et al. [1981, p.13-17, eng] 35-2147

Iceberg melt-driven convection. Josberger, E.G., et al. [1980, p.113-117, eng] 35-2215

Heat budget of the Greenland ice sheet. Ambach, W., [1979, p.44-54, ger] 35-2643

Cooling of a horizontal cylinder of water through its maximum density. Gilpin, R.R., [1975, p.1307-1315, eng] 35-2943

Forced convection melting heat transfer in a tube. Lee, D.O., et al. [1979, p.55-68, eng] 35-3349

Heat transfer during solidification around a cooled horizontal cylinder. Bathelt, A.G., et al. [1979, p.103-111, eng] 35-3353

Boundary system with convection at the solid-liquid interface. Nansteel, M.W., et al. [1979, p.112-119, eng] 35-3354

Convection in a porous layer for a temperature dependent viscosity. Blythe, P.A., et al. [1981, p.497-506, eng] 35-3519

Model of rotating convective rolls in water over a freezing front. Azouni, M.A., [1981, p.450-454, eng] 35-3521

Heat transfer during melting on tubes with a convective boundary. Saxena, S., et al. [1981, p.155-165, eng] 35-3627

Conveyors

Low temperature performance of belt conveyors. Volotkovskii, V.S., [1980, p.14-17, rus] 35-541

Coolants

Using liquid oxygen in artificial freezing of ground. Trupak, N.G., [1980, p.19-20, rus] 35-354

Cooling

Consequences for Iceland and Europe of the Arctic cooling trend. Schunke, E., [1979, p.282-291, eng] 35-357

Cooling rate

Organic admixtures in frozen water-salt systems. Kovalev, O.I., et al. [1980, p.377-379, rus] 35-1388

Field cooling rates of asphalt concrete overlays at low temperatures. Eaton, R.A., et al. [1980, 11p., eng] 35-2002

Microstructure of frozen clay rocks. Shusherina, E.P., et al. [1975, p.84-86, eng] 35-2404

Cooling rate of fresh concrete in freezing weather. Zubkov, V.I., [1980, p.99-104, rus] 35-2771

Liquid spray cooling of a heated surface. Grissom, W.N., et al. [1981, p.261-271, eng] 35-3271

Study of the large scale cooling in the Bay of Bothnia. Sahlberg, J., et al. [1980, 32p., eng] 35-3699

Cooling systems

Subgrade cooling for stabilization of permafrost beneath structures. Barthelemy, J.L., [1980, p.235-261, eng] 35-1980

Waste heat utilization through soil heating. McFadden, T., et al. [1980, p.105-120, eng] 35-2112

Cooling towers

Criteria for ice prevention in counterflow natural draft cooling towers. Cooper, J.W., Jr., [1980, p.47-53, eng] 35-3862

Core samplers

Core sampler "Nedra" for permafrost. Ermakov, V.P., [1978, p.120-124, rus] 35-63

Offshore drilling of engineering-geological wells. Arkhangel'skii, I.V., [1980, 263p., rus] 35-202

Cores

Dry Valley Drilling Project: summary of core storage Florida State University and sample distribution. Cassidy, D.S., [1979, p.231-232, eng] 35-681

Analysis of Cl-36 in environmental water samples using an electrostatic accelerator. Elmore, D., et al. [1979, p.22-25, eng] 35-1593

Coring

Core sampler "Nedra" for permafrost. Ermakov, V.P., [1978, p.120-124, rus] 35-63

Corrosion

Corrosion of welds in ice-breaking ships - a review. Gilmour, J.B., [1980, 10p., eng] 35-2166

Parking deck deterioration from chlorides. Jacobson, N.G., et al. [1981, p.438-448, eng] 35-2517

Corrosion of concrete reinforcements from antifreeze admixtures. Sheikin, A.E., et al. [1980, p.35-44, rus] 35-3528

Corrosive effects of deicing salts on automobiles. Palmer, J.D., [1971, p.38-43, eng] 35-4322

Cosmic dust

Search for cometary dust in the antarctic ice. King, E.A., et al. [1980, p.78-79, eng] 35-3184

Cost analysis

Snow-disaster countermeasures and cost analysis. Nakatao, T., et al. [1979, p.205-210, jap] 35-268

Snow cleaning plan of Milan. Pezzitti, G., [1980, p.20-35, ita] 35-944

Cost of road construction in northern swamps. Vasiluk, V.A., [1980, p.2-3, rus] 35-1030

Power plant construction in the North. Fain, I.I., [1980, p.63-66, rus] 35-1298

Cost of land treatment systems. Reed, S.C., et al. [1979, 135p., eng] 35-2464

Cost of ice damage to shoreline structures during navigation. Carey, K.L., [1980, 33p., eng] 35-2599

Cost-effective use of municipal wastewater treatment ponds. Reed, S.C., et al. [1979, p.177-200, eng] 35-2751

Cost of road construction in permafrost areas. Podymalova, T.P., [1980, p.7-8, rus] 35-3008

Development of natural resources in the North. Vdovina, L.I., [1978, p.32-38, rus] 35-4112

Countermeasures

Introduction of a measure of anti-frost heave by drainage ditch in the tunnel. Nie, F., [1980, p.44-45, chi] 35-88

Design of mound breakwaters in Arctic waters. Bruun, P., et al. [1979, p.265-274, eng] 35-176

Random waves attack on a composite breakwater. Yamamoto, M., et al. [1979, p.275-288, eng] 35-177

Evolution of ice research for offshore pack ice operations. O'Rourke, J.C., [1979, p.441-495, eng] 35-179

Report to POAC 79 from the SRLCOR on offshore activities in Labrador. Denner, W.W., [1979, p.583-602, eng] 35-182

Snow depth in relationship with avalanche control structure design. Balzaretti, P., [1980, p.44-46, ita] 35-223

Avalanches and landslides along the Baykal Amur railroad. Perov, V.F., et al. [1980, 76p., rus] 35-261

Snow-disaster countermeasures and cost analysis. Nakatao, T., et al. [1979, p.205-210, jap] 35-268

Oilspill in pack ice. [1980, 231p., eng] 35-544

Cold oil salvage pumps. Jolliff, J.V., et al. [1980, p.239-251, eng] 35-827

Floating platforms and excavations to protect subsea equipment from icebergs. Duval, J., et al. [1980, p.81-86, eng] 35-831

Aids for improving vision in white-out. Schlichting, C.L., et al. [1980, 23p., eng] 35-1416

Fire protection in the North. Adrian, L., [1980, p.225-229, eng] 35-2118

Fire protection considerations in remote, cold regions communities. Ryan, W.L., [1980, p.230-233, eng] 35-2119

Fire protection in isolated northern communities. Whatmough, R.G., [1980, p.234-236, eng] 35-2120

Waterworks systems, Yellowknife, Northwest Territories. Prentice, J.R., et al. [1980, p.409-425, eng] 35-2131

Corrosion of welds in ice-breaking ships - a review. Gilmour, J.B., [1980, 10p., eng] 35-2166

Icing on fishing vessels; some solutions. [1974, p.5, eng] 35-2248

Research on prevention of snow drifts by blower fences. Zhonglong, W., et al. [1980, p.435-445, eng] 35-2384

Icebergs threaten offshore oil industry. Goblot, R., [1977, p.9-11, fre] 35-2422

Evaluation of alternative water bleeder controls. Yee, A., et al. [1981, p.555-569, eng] 35-2524

Protecting structures from frost damage. Chen, X., [1981, p.734-740, eng] 35-2534

Thermal insulations and moisture retarders in buildings. Teitsma, G.J., [1981, p.32, eng] 35-2791

Snowmobile noise regulations. Bumpass, D., [1980, 11p + appends., eng] 35-2856

Wyoming reduces drifting with new fence designs. [1979, p.12, eng] 35-2932

Ice force prediction using a limited driving force approach. Vivatrat, V., et al. [1981, p.471-485, eng] 35-3454

Longitudinal stiffness analyses for the propulsion shafting systems of the polar class icebreakers. Vassilopoulos, L., et al. [1921, p.179-195, eng] 35-3561

Snowdrift control. Verge, R.W., et al. [1981, p.630-647, eng] 35-3761

Wind-tunnel analysis of the effect of plantings on snowdrift control. Ring, S.L., [1980, p.8-12, eng] 35-3785

Oil, ice and gas. [1980, 169p., eng] 35-3867

Countermeasures equipment for ice-covered ice-infested waters. Meikle, K.M., [1980, p.7-11, eng] 35-3869

Problems presented by ice cover to oilspill clean-up in the Beaufort Sea. McGonigal, D., [1980, p.13-25, eng] 35-3870

Research in oil, gas and ice at the University of Toronto. Mackay, D., et al. [1980, p.27-31, eng] 35-3871

Avalanches and planning. Schwarz, W., [1981, p.425-442, ger] 35-4216

Countermeasures *(cont.)*
Snowdrifts and protective vegetation along the roads. Saito, S., (1981, 101-106, jap) **35-4269**
Avalanche research in Japan, 1970-1980. Nitta, R., (1981, p.123-127, jap) **35-4272**

Cracking (fracturing)
Viscosity and low temperature fracture strain in asphalt mixtures. Ruth, B.E., et al. (1979, p.221-237, eng) **35-332**
Method for predicting roughness, rutting and cracking of pavements. Ullidtz, P., (1979, p.557-586, eng) **35-333**
Pavement structure evaluation of Alaskan highways. McHattie, R., et al. (1980, 208p., eng) **35-893**
Tensile strain and fracture of snow. Watanabe, Y., (1980, p.255-262, eng) **35-2368**
Mechanical behaviour and structure of snow under uniaxial tensile stress. Narita, H., (1980, p.275-282, eng) **35-2370**
Development of polygonal wedge microrelief. Romanovskii, N.N., (1974, p.67-78, rus) **35-2397**
Asphalt concrete for cold regions. Dempsey, B.J., et al. (1980, 55p., eng) **35-2587**
Interaction of tundra vegetation and thermal cracking in hummocks. Barrett, P., (1979, p.70-79, ger) **35-2646**
Acoustic emission and deformation response of finite ice plates. Xirouchakis, P.C., et al. (1981, p.123-133, eng) **35-3448**
On the burned ice near the highway bridge at the Batura Glacier terminus. Shi, Y., (1980, p.166-172, chi) **35-4037**

Cracks
Highway pavement cracks, an Alaskan overview. McHattie, R., (1980, p.17-21, eng) **35-3858**

Cranes (hoists)
KS-3572 crane designed for cold regions. Chikunov, A.M., et al. (1980, p.9-10, rus) **35-388**
KB-403A cranes for cold regions. Korostelev, N.S., et al. (1980, p.10-11, rus) **35-389**
Tower cranes for cold regions. Korostelev, N.S., (1980, p.4-6, rus) **35-537**
KS-2572 crane for cold regions. Malanov, A.K., et al. (1980, p.6-7, rus) **35-538**
Crane KB-403.A for cold regions. Al'perovich, A.I., et al. (1980, p.17-19, rus) **35-870**
Construction cranes for the North. Nevzorov, L.A., et al. (1980, p.1-4, rus) **35-922**
BM-305 drill-crane for frozen ground. Satsukevich, K.P., (1980, p.9-10, rus) **35-923**
Crane KB-504 designed for cold weather. Al'perovich, A.I., et al. (1980, p.12-14, rus) **35-1357**
Construction machines designed for the North. Shpiller, E.D., et al. (1981, p.54-55, rus) **35-2091**
Cranes and excavators for permafrost areas. (1981, p.12-14, rus) **35-2848**
Drilling-crane assembly BKTS-1. Kir'ianchuk, V.G., et al. (1981, p.25-27, rus) **35-3534**
Cranes used in arch dam construction in the North. Kuperman, V.L., et al. (1981, p.12-15, rus) **35-4281**

Creep
Calculating the strength and creep of artificially frozen grounds. Vialov, S.S., et al. (1981, 199p., rus) **35-3932**

Crevasses
Dynamics of crevasse pattern at Lewis Glacier, Mount Kenya. Hastenrath, S., et al. (1979, p.201-207, eng) **35-3729**
Airborne radio echo sounding on Shirase Glacier. Wada, M., et al. (1981, p.16-25, eng) **35-4221**

Crude oil
Environmental impact statement, Prudhoe Bay oil field. (1980, 27p., eng) **35-1166**
Volatile content of crude oil treated under different weathering conditions. Riley, R.G., et al. (1981, p.109-119, eng) **35-2937**
Glaciation effect on migration and accumulation of hydrocarbons. Tsarev, V.P., (1980, 213p., rus) **35-2955**
Summary of AMOP oil-ice-gas interaction studies. Thornton, D.E., (1980, p.3-5, eng) **35-3868**

Cryobiology
Mite from a Signy Island glacier. Block, W., (1980, p.173-176, eng) **35-1073**
Biology of the Central Arctic Basin. Vinogradov, M.E., ed. (1980, 260p., rus) **35-1312**
Pelagic zone ecosystems of the Arctic Basin. Vinogradov, M.E., et al. (1980, p.5-14, rus) **35-1313**
Bibliography on cryobiology of the Arctic Ocean. Mel'nikov, I.A., (1980, p.56-61, rus) **35-1316**
Ecosystem of Arctic drift ice. Mel'nikov, I.A., (1980, p.61-97, rus) **35-1317**
Cryopelagic fauna of the Central Arctic Basin. Mel'nikov, I.A., et al. (1980, p.97-111, rus) **35-1318**
Cryopelagic biocenoses of the Central Arctic Basin. Kulikov, A.S., (1980, p.111-118, rus) **35-1319**
Microflora in sea ice. Tsurikov, V.L., (1980, p.118-132, rus) **35-1320**
Phytoplankton in the area of the drift station "Severnyy polius-22". Belyaeva, T.V., (1980, p.133-142, rus) **35-1321**
Plankton of the Central Arctic Basin. Pavshtiks, E.A., (1980, p.142-154, rus) **35-1322**
Distribution of pelagic organisms in the Arctic. Kosobokova, K.N., et al. (1980, p.183-195, rus) **35-1323**
Insects on snowfields of Mt. Rainier, Washington. Mann, D.H., et al. (1980, p.359-368, eng) **35-1671**
Sea ice microalgae in the Canadian Arctic. Hsiao, S.I.C., (1980, p.768-793, eng) **35-2172**
Ice algae near Showa Station. Hoshiai, T., (1981, p.1-12, eng) **35-3596**
Algae in lagoon ice. Takahashi, E., (1981, p.49-56 + 5 plates, eng) **35-3597**
Sea ice colored by algae. Hoshiai, T., et al. (1981, p.113-120, eng) **35-4149**

Cryogenic soils
Problems of the relations between climatic zones and exogenic relief formation. Asseev, A.A., et al. (1978, p.9-21, rus) **35-12**
Structure and plant communities in East European forest tundra. Norin, B.N., (1979, 200p., rus) **35-150**
Cryogenic phenomena in Kazakhstan and Central Asia. Gorbunov, A.P., ed. (1979, 145p., rus) **35-185**
Soil formation on paleocryogenic fines. Gorbunova, I.A., (1979, p.122-130, rus) **35-194**
Properties and classification of some cold desert soils. Bockheim, J.G., (1980, p.45-69, eng) **35-219**
Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia. Popov, A.I., ed. (1980, 256p., rus) **35-279**
Vegetation and soils of subarctic tundra. Andreev, V.N., ed. (1980, 209p., rus) **35-282**
Vegetation of the lower Kolyma tundra. Andreev, V.N., et al. (1980, p.5-43, rus) **35-283**
Spore-pollen analysis of recent tundra deposits. Savvinova, G.M., (1980, p.85-91, rus) **35-287**
Types of tundra soils. Elovskaia, L.G., et al. (1980, p.158-194, rus) **35-292**
Forecasting tundra soil temperature. Savvinov, D.D., (1980, p.195-200, rus) **35-293**
Grazing effect on tundra lichens. Andreev, V.N., (1980, p.201-205, rus) **35-294**
Origin and geography of forest soils. Korsunov, V.M., ed. (1980, 131p., rus) **35-295**
Formation of Siberian loesses. Koltago, S.A., (1980, p.5-20, rus) **35-296**
Loose surface deposits of the Angara River area. Gorbachev, V.N., (1980, p.21-39, rus) **35-297**
Forest fire effects on soil formation in permafrost areas. Popova, E.P., (1980, p.40-52, rus) **35-298**
Bedrock and topography effects on taiga soils. Molokov, V.A., (1980, p.53-57, rus) **35-299**
Soil formation in mountain taiga. Ogorodnikov, A.V., (1980, p.58-72, rus) **35-300**
Chemistry of cryogenic mountain forest soils. Zueva, K.G., (1980, p.73-84, rus) **35-301**
Profiles of taiga soils. Korsunova, T.M., et al. (1980, p.85-103, rus) **35-302**
Podsol soils of taiga. Korsunov, V.M., et al. (1980, p.104-128, rus) **35-303**
Classification of Arctic vegetation. Aleksandrova, V.D., (1979, p.1715-1730, rus) **35-341**
Forecasting landscape development in cold regions. Kozhevnikov, Iu.P., (1980, p.243-248, rus) **35-343**
Phytocenotic structure of larch forest tundras. Norin, B.N., (1979, p.1553-1566, rus) **35-346**
Taiga vegetation and environmental protection. Krauklis, A.A., et al. (1979, p.1674-1681, rus) **35-347**
Vegetation in northern swamps. Boch, M.S., et al. (1980, p.27-38, rus) **35-392**
Moss and lichen vegetation in northern forest steppes. Afonina, O.M., et al. (1980, p.66-82, rus) **35-393**
Taiga vegetation in the European USSR. Gusev, Iu.D., (1980, p.249-255, rus) **35-394**
Algae in tundra soils. Perminova, G.N., (1980, p.859-863, rus) **35-395**
Forest line vegetation of tundra. Dem'ianov, V.A., (1980, p.926-937, rus) **35-396**
Climatic maps for road construction. Efimenko, V.N., et al. (1980, p.19-21, rus) **35-481**
Yamal tundra vegetation. Konstantinova, N.A., et al. (1980, p.76-82, rus) **35-499**
Podsolization in northern taiga. Vasil'evskaia, V.D., et al. (1980, p.94-101, rus) **35-501**
Soils of the lower Ob' forest tundra near the Urengoy deposit. Ivanov, V.V., et al. (1980, p.12-19, rus) **35-533**
Pale yellow soils of northern taiga. Sokolov, I.A., et al. (1980, p.30-37, rus) **35-534**
Spectral reflectivity of cryogenic soils. Sadovnikov, Iu.N., (1980, p.45-52, rus) **35-535**
Materials on the soils of Komi ASSR. Zaboeva, I.V., ed. (1974, 96p., rus) **35-686**
Alpine tundra soils of the northern Urals. Zaboeva, I.V., et al. (1974, p.3-9, rus) **35-687**
Soils of northern peat bogs. Popov, V.A., (1974, p.10-16, rus) **35-688**
Gley-podsol soils of northern taiga. Tsypanova, A.N., (1974, p.25-30, rus) **35-689**
Microbiology of tundra and taiga soils. Stenina, T.A., (1974, p.35-42, rus) **35-690**
Humus profile of taiga podsols. Archegova, I.B., (1974, p.43-49, rus) **35-691**
Analyzing humus substances in taiga soils. Sloboda, A.V., (1974, p.50-57, rus) **35-692**
Nitrogen and ash elements in taiga soils. Zabolotskaia, T.G., (1974, p.64-69, rus) **35-693**
Geochemical processes in taiga geosystems. Nechaeva, E.G., (1971, p.3-31, rus) **35-755**
Large scale map of taiga vegetation. Medvedev, Iu.O., (1971, p.47-57, rus) **35-758**
Microclimatology of taiga. Mart'ianova, G.N., et al. (1972, p.32-39, rus) **35-760**
Heat balance in taiga forests. Trofimova, I.E., et al. (1973, p.37-47, rus) **35-762**
Moisture dynamics of taiga soils. Sazonov, A.G., (1973, p.55-62, rus) **35-763**
Geographic structures of Angara River taiga. Krauklis, A.A., (1973, p.3-16, rus) **35-764**
Water transfer of chemical elements in taiga landscapes. Kuz'min, V.A., (1973, p.23-32, rus) **35-765**
Landscape-climatic charts of Buryatiya. Ivanov, G.M., et al. (1976, p.18-36, rus) **35-801**
Erosion of cryogenic soils. Kerzhentsev, A.S., (1976, p.66-77, rus) **35-803**
Nitrogen in cryogenic meadow soils. Korobtsev, I.I., et al. (1976, p.136-144, rus) **35-804**
Matter and energy exchange in pine forests of the European North. Kazimirov, N.I., et al. (1977, 304p., rus) **35-807**
Oats in the permafrost zone. Denisov, G.V., (1979, 184p., rus) **35-812**
Climatic peculiarities of the Baykal-Amur railroad zone. Galazii, G.I., ed. (1979, 144p., rus) **35-813**
Soils of Siberia and the Far East; a current bibliography. (1978, 2 volumes, rus) **35-852**
Soils of Siberia and the Far East; a current bibliography. (1978, 4 volumes, rus) **35-853**
Soils of Siberia and the Far East; a current bibliography. (1980, 58p., rus) **35-854**
Botanical geography of Altai. Ogureeva, G.N., (1980, 192p., rus) **35-876**
Podsol soils of Central and Eastern European USSR (developed on loams). Rode, A.A., ed. (1980, 304p., rus) **35-877**
Soil studies in Siberia and Kazakhstan. Orlovskii, N.V., (1979, 326p., rus) **35-878**
Slope processes in Alpine taiga. Rashba, I.N., (1978, p.86-122, rus) **35-880**
Forestry in northern taiga. Mikhailov, Iu.P., et al. (1980, p.5-50, rus) **35-881**
Taiga soils with second humus layer. Nechaeva, E.G., (1980, p.169-206, rus) **35-882**
Soils of spotty tundra. Vasil'evskaia, V.D., (1979, p.390-401, eng) **35-933**
Mountain forests of the Baykal-Amur railroad zone. Panarin, I.I., et al. (1980, 224p., rus) **35-936**
Young larch forests in Yakutia. Pozdniakov, L.K., (1980, p.46-55, rus) **35-956**
Drainage effect on paluded north taiga soils. Varfolomeev, L.A., et al. (1980, p.44-51, rus) **35-957**
Environmental protection in tundra. Liverovskii, Iu.A., et al. (1979, p.512-520, eng) **35-961**
Grazing effect on tundra vegetation. Polezhaev, A.N., (1980, p.5-13, rus) **35-1036**
Microclimatology of northern forests. Ipatov, V.S., et al. (1980, p.14-20, rus) **35-1037**
Seasonal development of vegetation in Siberian mountains. Lobanov, A.I., (1980, p.91-93, rus) **35-1040**
Cryogenic mineral mounds of the Leaf River lowlands, Ungava. Payette, S., et al. (1979, p.339-358, fre) **35-1049**
Development of tree roots in cryogenic saline soils. Lamin, L.A., (1978, p.23-33, rus) **35-1094**
Weeds growing in protective forest strips. Prokudina, N.A., et al. (1978, p.68-75, rus) **35-1098**
Fodder plants in the permafrost zone. Denisov, G.V., (1980, 182p., rus) **35-1121**
Mechanics of viscous solifluction. Rtishchun, V.K., (1976, p.43-62, rus) **35-1146**
Dynamics of microbiological processes in soils and the factors influencing it, Pts. 1 and 2. Ryss, O., ed. (1974, 2 vols., rus) **35-1202**
Microbiology of cryogenic soils. Aristovskaia, T.V., et al. (1974, p.23-29, rus) **35-1204**
Psychrophilic bacteria in cryogenic soils. Skvortsova, I.N., (1974, p.68-70, rus) **35-1207**
Microorganisms in the rhizosphere of Arctic grasses. Evdokimova, G.A. (1974, p.98-103, rus) **35-1209**
Bacterial activities in tundra soils. Parinkina, O.M., (1974, p.104-108, rus) **35-1210**
Microorganisms of West Siberian soils. Klevenskaia, I.I., (1974, p.146-149, rus) **35-1213**
Seasonal variations in microbiology of Alpine soils. Naplekova, N.N., (1974, p.153-156, rus) **35-1214**
Microbiology of forest tundra soils. Ishchenko, N.F., (1974, p.118-121, rus) **35-1215**
Microbiology of taiga soils. Firsova, V.P., et al. (1974, p.147-150, rus) **35-1216**
Protection of vegetational cover in permafrost areas. Tyrtikov, A.P., (1980, p.14-18, rus) **35-1286**
Soil maps of tundra and forest tundra. Liverovskaia, I.T., (1980, p.18-22, rus) **35-1287**

Gullies in permafrost areas — Shishkina, I. P., (1980, p.22-24, rus) **35-1288**

Physical weathering in Taylor Valley — Miotke, F.-D., (1979, p.117-142, ger) **35-1310**

Swamp-forest systems of Karelia and their dynamics — Pl'avchenko, N.I., ed., (1980, 184p., rus) **35-1324**

Productivity of North Karelia forests — Orlov, E.D., (1980, p.100-113, rus) **35-1327**

Influence of water runoff redistribution on the natural conditions of Siberia — Saks, V.N., ed., (1980, 184p., rus) **35-1331**

Changes in taiga due to river flow control — Shirokov, V.M., (1980, p.22-30, rus) **35-1332**

Migration of water soluble substances in cryogenic soils — Panin, P.S., et al., (1980, p.84-88, rus) **35-1336**

Diversion of a part of the Irtysh River waters — Petrov, I.B., (1980, p.110-114, rus) **35-1339**

Influence of high water stage on shores of deep reservoirs of Siberia (the Krasnoyarsk reservoir taken as an example) — Kuskovskii, V.S., (1980, p.140-143, rus) **35-1341**

Peculiarities and conditions of formation of light podsol soils — Kul'shin, V.A., (1980, p.176-178, rus) **35-1342**

Lake effect on North Baikal shore forests — Vykhristiuk, M.M., (1980, 215p., rus) **35-1372**

Conference of young scientists, 3rd, Krasnoyarsk, 1971. Studies of the nature of Siberian forests, (1972, 325p., rus) **35-1373**

Biomass dynamics in green-moss fir forests of different age — Kuzikov, I.E., (1972, p.16-21, rus) **35-1374**

Biologic cycle in bilberry-peat moss pine forests — Prokhorova, A.I.V., (1972, p.30-36, rus) **35-1375**

Microflora biomass in pine biocenoses — Arunts, K.M., (1972, p.177-180, rus) **35-1376**

Microbiology of Siberian swamp soils — Krapivina, L.A., (1972, p.186-189, rus) **35-1377**

Soils of pine forests of different age — Sorokina, O.A., (1972, p.190-195, rus) **35-1378**

Microclimatology of mountain taiga — Molokov, V.A., (1972, p.268-275, rus) **35-1382**

Studies of forest soils and vegetation in the northeastern USSR — Shcherbakov, I.P., ed., (1971, 176p., rus) **35-1390**

Revegetation of felled areas in taiga — Mikhaleva, V.M., (1971, p.34-51, rus) **35-1392**

Revegetation of felled and burned areas in taiga — Chugunova, R.V., (1971, p.76-82, rus) **35-1393**

Amount of litter produced by different taiga trees — Karpel', B.A., (1971, p.94-102, rus) **35-1395**

Thermal and water regimes of Yakutian soils — Savvinov, D.D., (1971, p.118-175, rus) **35-1396**

Biogeocenoses of the Taymyr Tundra — Tomilin, B.A., ed., (1989, 256p., rus) **35-1401**

Research projects of the *Tareia* station in Taymyr tundra — Tomilin, B.A., (1980, p.3-25, rus) **35-1402**

Classification of tundra and forest tundra soils — Ignatenko, I.V., (1980, p.26-46, rus) **35-1403**

Seasonal development of tundra plants — Deeva, N.M., (1980, p.59-96, rus) **35-1405**

Relation between plant growth and thermal regime in tundra — Vital', V.D., (1980, p.97-104, rus) **35-1406**

Pollination of tundra plants (West Taymyr) — Khodachek, E.A., (1980, p.105-117, rus) **35-1407**

Fungi of Taymyr tundra — Stepanova, I.V., et al., (1980, p.165-192, rus) **35-1411**

Organic matter decomposition in moss tundras — Tarnocai, C.M., (1980, p.243-246, rus) **35-1412**

Recent soil processes and fertility of Karelian soils — Pl'avchenko, N.I., ed., (1979, 174p., rus) **35-1417**

Cryogenic soils of Karelia — Perevozchikova, E.M., et al., (1979, p.149-168, rus) **35-1419**

Prospects of rational utilization of natural resources — Vodovozov, S.A., ed., (1980, 113p., rus) **35-1423**

Preservation of northern land resources — Mikhailov, I.S., et al., (1980, p.35-41, rus) **35-1424**

Environmental protection in the Far North — Freidin, I.I., (1980, p.65-72, rus) **35-1425**

Larch in taiga and forest tundra of Siberia — Il'ina, I.S., (1980, p.28-44, rus) **35-1426**

Complex geographic studies and the development of mountainous regions — Gvozdetskii, N.A., ed., (1980, 150p., rus) **35-1435**

Altitudinal zonation of mountain vegetation in the USSR — Stanukovich, K.V., (1980, p.74-81, rus) **35-1440**

Swamps of the West Siberian plain — Liss, O.L., et al., (1980, p.95-112, rus) **35-1444**

Thermal regime of soils in the USSR — Dimo, V.N., (1980, p.47-59, rus) **35-1449**

Revegetation of cryogenic soils damaged by industrial activities — Moskalenko, N.G., et al., (1980, p.144-164, rus) **35-1454**

Vegetation of the European part of the USSR — Gribova, S.A., ed., (1980, 429p., rus) **35-1491**

Migration and biological activity of natural radionuclides in northern biogeocenoses — Popova, O.N., ed., (1980, 179p., rus) **35-1514**

Radioactive elements in cryogenic soils — Gil', T.V., (1980, p.52-57, rus) **35-1515**

Effect of pH on Ra absorption in soils — Gil', T.V., (1980, p.58-64, rus) **35-1516**

Thorium effect on living organisms of taiga soils — Krivolutskii, D.A., et al., (1980, p.120-124, rus) **35-1517**

Tundra and taiga soils of Stanovoy Range — Ershov, B.I., (1979, p.112-131, rus) **35-1523**

Permafrost in Altai Mountains — Maloletko, A.M., (1970, p.204-212, rus) **35-1572**

Soils of Taymyr Peninsula — Vasil'evskaia, V.D., (1980, p.8-16, rus) **35-1612**

Geographic distribution of vascular plants in tundra — Il'ichev, B.A., et al., (1970, p.111-122, rus) **35-1613**

Vascular plant distribution in tundra — Il'ichev, B.A., et al., (1979, p.74-83, rus) **35-1614**

Mesophyte relict flora in northeastern tundras — Khokhriakov, A.P., (1979, p.84-96, rus) **35-1615**

Studying soil geography and landscape geochemistry in the Baykal-Amur railroad zone — Snytko, V.A., ed., (1980, 184p., rus) **35-1627**

Regionalization of the Baykal-Amur railroad zone — Nechaeva, E.G., et al., (1980, p.3-11, rus) **35-1628**

Landscape types of the Baykal-Amur railroad area — Kuz'min, V.A., (1980, p.11-98, rus) **35-1629**

Soil formation in mountain taiga of the northern Amur region — Khismatullin, Sh.D., (1980, p.98-124, rus) **35-1630**

Landscape types in the Muya River Basin — Neted'eva, L.G., (1980, p.125-139, rus) **35-1631**

Biochemistry of cryogenic taiga soils — Nechaeva, E.G., et al., (1980, p.152-162, rus) **35-1632**

Exogenic geologic processes and phenomena (Southern Yakutia) — Ospennikov, E.N., et al., (1980, 227p., rus) **35-1701**

Temperatures of north taiga soils — Kraukhs, A.A., et al., (1980, p.61-70, rus) **35-1705**

Studies in ecology and environmental protection in East Siberia — Kozhova, O.M., (1980, p.96-104, rus) **35-1706**

Mapping vegetational resources of permafrost areas — Geleta, I.F., et al., (1980, p.114-124, rus) **35-1707**

Subalpine cryosolic soils in Banff and Jasper National Parks — Achuff, P.L., et al., (1980, p.579-581, eng) **35-1708**

Taiga landscapes affected by industrial activities — Gal'perin, M.I., (1975, p.11-14, rus) **35-1787**

Non-podsolized forest soils of Tannu-Ola (East Sayan Mountains) — Dedkov, V.S., (1979, p.100-118, rus) **35-1790**

Designing drainage systems for northern swamps — Popov, I.A., et al., (1980, p.27-28, rus) **35-1863**

Afforestation processes and their control in the European North — L'vov, P.N., et al., (1980, 113p., rus) **35-1897**

Age and restoration dynamics of forests in the Ural Mountains and east of the Urals — Kolesnikov, B.P., ed., (1976, 168p., rus) **35-1916**

Genetic classification of mountain forests — Makhonin, A.S., et al., (1976, p.3-91, rus) **35-1917**

Taiga vegetation in areas east of the Ural Mountains — Sannikov, S.N., (1976, p.124-165, rus) **35-1921**

Biological studies in the northeastern European USSR — Gietsen, M.V., ed., (1974, 235p., rus) **35-1924**

Biological cycle of chemical elements in taiga — Zaboeva, I.V., et al., (1974, p.9-14, rus) **35-1925**

Soil composition of central taiga — Rychkova, V.A., (1974, p.15-20, rus) **35-1926**

Physiologic activity of pines in northern forests — Bobkova, K.S., (1974, p.116-122, rus) **35-1927**

Vertical distribution of plants in the Putorana Mountains — Kuvaev, V.B., (1980, 261p., rus) **35-2051**

Surface stability in the presence of industrial activities in permafrost areas — Grave, N.A., ed., (1980, 142p., rus) **35-2184**

Environmental protection in permafrost areas — Grave, N.A., (1980, p.6-12, rus) **35-2185**

Thermal balance and environmental protection of northern landscapes — Pavlov, A.V., (1980, p.13-31, rus) **35-2186**

Vegetation disturbance on solifluction slopes — Sukhodrovskii, V.L., (1980, p.36-42, rus) **35-2188**

Environmental protection in mining areas — El'chaninov, E.A., (1980, p.43-49, rus) **35-2189**

All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct. 29-31, 1980. — Abstracts, (1980, 203p., rus) **35-2251**

Soil preservation in permafrost and deep seasonal freezing areas — Kovda, V.A., et al., (1980, p.5-8, rus) **35-2252**

Concepts, terminology and classification of freezing soils — Sokolov, I.A., et al., (1980, p.9-10, rus) **35-2253**

Origin, geography, classification and terminology of northern soils — Sokolov, I.A., et al., (1980, p.11-13, rus) **35-2254**

Changes in cryogenic soils due to human activities — Makeev, O.V., (1980, p.13-15, rus) **35-2255**

Controlling the climate of cryogenic soils — Savvinov, D.D., (1980, p.15-16, rus) **35-2256**

Economic development of tundra soils — Konorovskii, A.K., (1980, p.17-18, rus) **35-2257**

Cryogenic soils of Lake Baykal area — Parshikov, V.P., (1980, p.18-20, rus) **35-2258**

Drainage of cryogenic soils in Karelia — Nesterenko, I.M., (1980, p.20-21, rus) **35-2259**

Classification of taiga soils — Naumov, E.M., (1980, p.24-27, rus) **35-2260**

Elementary processes in cryogenic tundra soils — Vasil'evskaia, V.D., (1980, p.28-29, rus) **35-2261**

Soil formation in alpine tundra and taiga — Makeev, A.O., et al., (1980, p.30-31, rus) **35-2262**

Cryogenic processes and soil formation in taiga — Gorbachev, V.N., (1980, p.32-33, rus) **35-2263**

Indications of cryogenic soils — Gugalinskaia, L.A., (1980, p.33-35, rus) **35-2264**

Origin of loams in Vorkuta tundra — Archegova, I.B., (1980, p.37-39, rus) **35-2265**

Soil formation in sporadic permafrost areas — Sazonov, A.G., (1980, p.39-41, rus) **35-2266**

Cryogenic soils of the Selemdzha River Basin — Ivanov, G.I., et al., (1980, p.44-46, rus) **35-2267**

Cryogenic processes in mountain and lowland soils — Khavkina, N.V., et al., (1980, p.51-53, rus) **35-2268**

Thermal resources of soils with deep seasonal freezing — Chigir, V.G., (1980, p.55-58, rus) **35-2269**

Seasonal thawing depth in tundras — Tumel', N.V., (1980, p.59-60, rus) **35-2270**

Induced changes in Subarctic soil temperatures — Pereverzev, V.N., et al., (1980, p.61-62, rus) **35-2271**

Thermal regime of deeply freezing forest soils — Gorbachev, V.N., (1980, p.69-70, rus) **35-2274**

Soil formation in different Alpine landscapes — Kuz'min, V.V., et al., (1980, p.71-73, rus) **35-2275**

Land reclamation in areas of discontinuous permafrost — Zamana, I.V., (1980, p.73-75, rus) **35-2276**

Hydrothermal regimes of cryogenic soils — Kulikov, A.I., et al., (1980, p.76-78, rus) **35-2277**

Cryogenic and steppe soils — Snytko, V.A., (1980, p.78-79, rus) **35-2278**

Soil water reserves in permafrost areas — Oznobikhin, V.I., et al., (1980, p.80-81, rus) **35-2279**

Soils of taiga and forested bald-peak areas — Ogorodnikov, A.V., (1980, p.81-83, rus) **35-2280**

Cryogenic Alpine soils of Mongolia — Maksimovich, S.V., (1980, p.83-85, rus) **35-2281**

Litter formation in seasonally freezing forest soils — Krupskaia, L.T., (1980, p.85-86, rus) **35-2282**

Winter soil temperature maps of the Northeastern USSR — Mikhailov, V.M., (1980, p.90-93, rus) **35-2283**

Relations between zero-isotherm depths and frozen layer thicknesses — Vecherskii, S.S., (1980, p.96-98, rus) **35-2284**

Biologic activity of taiga soils — Popova, E.P., (1980, p.98-100, rus) **35-2285**

Biological processes in Transbaikal soils — Kerzhentsev, A.S., (1980, p.100-102, rus) **35-2286**

Physical properties and moisture regime of meadow soils — Khudiakov, O.I., et al., (1980, p.102-104, rus) **35-2287**

Migration and crystallization of substances in tundra soils — Zvereva, T.S., et al., (1980, p.107-109, rus) **35-2289**

Thermal regime and chemical processes in tundra soils — Antonov, N.A., et al., (1980, p.117-118, rus) **35-2293**

Controlling hydrothermal regime of cryogenic soils — Konstantinov, V.D., et al., (1980, p.122-124, rus) **35-2294**

Thermal properties of drained cryogenic soils — Efremov, S.P., et al., (1980, p.124-126, rus) **35-2295**

Thermal regime of cryogenic soils in Transbaikal — Russkikh, A.M., (1980, p.131-132, rus) **35-2297**

Changes in cryogenic soil temperature due to cultivation — Khudiakov, O.I., et al., (1980, p.134-136, rus) **35-2298**

Cryogenic soil temperatures in tellage areas — Krasnoshchekov, I.N., (1980, p.136-137, rus) **35-2299**

Moss cover effect on soil temperature — Buzykin, V.I., (1980, p.141-143, rus) **35-2300**

Taiga soil temperature in tellage areas — Sorokin, N.D., (1980, p.143-144, rus) **35-2301**

Development of grey forest soils — Altanov, V.M., (1980, p.154-156, rus) **35-2304**

Origin and evolution of Bol'shezemel'skaya Tundra soils — Fomnykh, I.A., et al., (1980, p.159-161, rus) **35-2305**

Cryogenic mountain-forest soils — Molokov, V.A., et al., (1980, p.167-169, rus) **35-2306**

Influence of Pleistocene geocryology on recent soil formation — Vorob'eva, G.A., et al., (1980, p.169-171, rus) **35-2307**

Buried soils in the Edoma formation of Yakutia — Gubin, S.V., (1980, p.171-173, rus) **35-2308**

Cryogenic soils of tundra lake landscapes — Evseev, A.V., (1980, p.173-174, rus) **35-2309**

Geocryology of the Khangay Mountains (Mongolia) — Chigir, V.G., (1980, p.175-177, rus) **35-2310**

Hydrothermal regimes of mountain taiga soils — Khudiakov, O.I., (1980, p.177-178, rus) **35-2311**

Biologic productivity and nutrient cycles of cryogenic soils — Gershevich, E.G., (1980, p.183-186, rus) **35-2312**

Soil preservation in northern territories — Chigir, V.G., (1980, p.188-190, rus) **35-2313**

Soil disturbance in pipeline construction areas — Sopina, E.P., (1980, p.190-191, rus) **35-2314**

Soil macroflora and artificial lakes — Nikitina, Z.I., et al., (1979, p.63-75, rus) **35-2324**

Soils of mountain *Pinus sibirica* forests in Central Siberia — Zueva, K.G., (1980, 172p., rus) **35-2330**

Theories and methods of plant introduction and landscaping. Proceedings of a republican conference, Kiev, 1978 — Grodzinskii, A.M., ed., (1980, 220p., rus) **35-2444**

Introduced trees in recreation areas of Novosibirsk — Tatarin, I.V., (1980, p.174-176, rus) **35-2446**

Dynamics of forest biogeocenoses in Siberia — Smagin, V.N., ed., (1980, 208p., rus) **35-2474**

Cryogenic soils *(cont.)*

Taiga vegetation development in Holocene. Savina, I. N., (1980, p. 28-53, rus) **35-2476**

Revegetation in mountain taiga. Nazimova, D. I., et al, (1980, p. 54-87, rus) **35-2477**

Phenology of Krasnoyarsk forest-steppe forests. Elagin, I. N., (1980, p. 159-175, rus) **35-2480**

Chemistry of pine forest soils. Kolagina, M. V., (1980, p. 98-112, rus) **35-2481**

Microbiology of cryogenic forest soils. Sorokin, N. D., (1980, p. 113-130, rus) **35-2482**

New terms "dynamics" and "ecogenesis" of biogeocenoses. Smagin, V. N., (1980, p. 201-205, rus) **35-2484**

Climate and microclimate of taiga. Trofimova, I. E., (1980, p. 144-182, rus) **35-2490**

Proceedings of a scientific conference of the Institute of Biology. Zaboeva, I. V., ed. (1971, 124p., rus) **35-2604**

Biomass of green-moss-type taiga. Nadutkin, V. D., et al, (1971, p. 50-51, rus) **35-2608**

Hydrothermal and physical properties of northern taiga soils. Verkholantseva, I. V., (1971, p. 51-53, rus) **35-2609**

Biochemical processes in Far North taiga soils. Zaboeva, I. V., et al, (1971, p. 58-59, rus) **35-2610**

Nitrogen regimes of taiga soils. Il'dimseva, I. I., (1971, p. 61-62, rus) **35-2611**

Annual chemical element cycle of central taiga. Rusanova, G. V., et al, (1971, p. 62-63, rus) **35-2612**

Scientific conference of Karelian biologists. Komulainen, V. V., ed. (1970, 167p., rus) **35-2613**

Peat deposits in northern bogs. Belova, A. A., (1970, p. 49-50, rus) **35-2615**

Revegetation of felled areas in northern forests. Ronkonen, N. I., (1970, p. 79-81, rus) **35-2616**

Freeze-thaw of peat soils. Piatetskii, G. F., (1970, p. 91-93, rus) **35-2617**

Nitrogen and ash-elements in northern forest soils. Morozova, R. M., et al, (1970, p. 93-94, rus) **35-2618**

Maple trees introduced in the North. Lantratova, A. S., (1977, p. 3-13, rus) **35-2691**

Larch introduced in Karelian forests. Valiaev, V. N., (1977, p. 75-84, rus) **35-2692**

Application of humus analysis to geotechnical prospecting; some case histories. Nuuttilainen, J., et al, (1977, p. 1-5, eng) **35-2720**

Soil and bedrock as reflected in Arctic vegetation. Paarma, H., et al, (1977, p. 25-29, eng) **35-2721**

Problems of geochemical contrasts in Finnish soils. Kauranne, L. K., et al, (1977, p. 34-44, eng) **35-2723**

Soil mantle in the permafrost-taiga region. Sokolov, I. A., (1980, p. 17-28, eng) **35-2761**

Soil processes in tundra. Sloboda, A. V., (1980, p. 29-40, rus) **35-2762**

Thixotropic nongleyed cryogenic soils. Sokolov, I. A., (1980, p. 41-55, eng) **35-2763**

Time for the formation of organic matter in the second humic zone of soddy-podsolic soils. Tolchel'nikov, R. S., et al, (1980, p. 1475-1478, rus) **35-2766**

Vegetation effect on hydrothermal regime of tundra soils. Skrabin, S. Z., et al, (1981, p. 82-86, rus) **35-2769**

Environmental protection in the North. Denisov, G. V., (1981, p. 29, rus) **35-2784**

Biocenotic role of animals in the Yamal forest tundra. Damilov, N. N., ed. (1977, 146p., rus) **35-2866**

Role of animals in Subarctic biogeocenoses. Damilov, N. N., (1977, p. 3-30, rus) **35-2867**

Influence of rodents on forest tundra grasses. Peshkova, N. V., (1977, p. 134-145, rus) **35-2868**

Calculation and control of cryogenic regime of soil. Pavlov, A. V., (1980, 240p., rus) **35-2947**

Problems of utilization and preservation of natural resources in Siberia. Saks, V. N., ed. (1980, 136p., rus) **35-3042**

Evolution of taiga soils. Gadzhiev, I. M., (1980, p. 128-131, rus) **35-3044**

Introduction of useful plants in Yakutia (collection of papers). Andreev, V. N., ed. (1980, 100p., rus) **35-3048**

Facies of soil cryogenesis and peculiarities of soil profile arrangement in them. Makeev, O. V., (1981, 87p., rus) **35-3053**

Mycorhiza fungi and mycorhizae of forest-forming species in the North. Shubin, V. I., ed. (1980, 185p., rus) **35-3054**

Land reclamation in Siberia and the Far East. Shumakov, B. B., (1980, p. 89-96, rus) **35-3056**

Land reclamation methods in cold regions. Zakharina, E. S., (1980, p. 233-235, rus) **35-3058**

Drainage methods in permafrost areas. Stepanov, A. N., (1980, p. 247-250, rus) **35-3059**

Reclamation of heavy paluded soils. Chernoukhov, A. M., (1980, p. 250-253, rus) **35-3060**

Biologic-floristic studies related to environmental protection in polar regions. Shilakov, R. N., ed. (1980, 149p., rus) **35-3062**

Seed germination in some polar plants. Skitkina, A. A., (1980, p. 3-9, rus) **35-3063**

Physiology of some Arctic plants. Filippova, L. N., (1980, p. 9-26, rus) **35-3064**

Growth of Lapland poppy under Arctic conditions. Andreeva, V. N., (1980, p. 26-39, rus) **35-3065**

Vegetation of Alpine tundra. Andreeva, V. N., (1980, p. 40-49, rus) **35-3066**

Protection of Alpine tundra vegetation. Kostina, V. A., (1980, p. 67-71, rus) **35-3068**

Tundra vegetation on the White Sea islands. Breslina, I. P., (1980, p. 72-83, rus) **35-3069**

New data on the Chuna Tundra vegetation. Syroid, N. A., (1980, p. 83-86, rus) **35-3070**

Cryolithologic analysis. Gasanov, Sh. Sh., (1981, 195p., rus) **35-3211**

Development of tundra science in the USSR. Aleksandrova, V. D., (1980, p. 1513-1522, rus) **35-3214**

Types of vegetational cover in the Far North. Nortin, B. N., (1980, p. 1531-1542, rus) **35-3216**

Vegetation distribution in Chukotskiy Peninsula tundras. Balandin, S. A., et al, (1980, p. 1719-1733, rus) **35-3219**

Organic matter in soils of Kola Peninsula. Pereverzev, V. N., et al, (1980, 227p., rus) **35-3279**

Formation of gullies in tundra. Konstantinov, I. P., (1981, p. 80-95, rus) **35-3287**

Problems of Pleistocene paleogeography in glacial and periglacial regions. Velichko, A. A., ed. (1981, 251p., rus) **35-3293**

Relic cryogenic microrelief near Vyaz'ma. Berdnikov, V. V., (1981, p. 200-211, rus) **35-3294**

Permafrost investigations in economically developing areas of the USSR. Pavlov, A. V., ed. (1980, 183p., rus) **35-3305**

Landscape indications technique of forecasting permafrost conditions. Moskalenko, N. G., (1980, p. 8-18, rus) **35-3307**

Hydrothermal regime of cultivated saline soils. Mandarov, A. A., et al, (1980, p. 47-53, rus) **35-3314**

Irrigation of cryogenic meadow soils. Ugarov, I. S., et al, (1980, p. 53-59, rus) **35-3315**

Frost heave intensities and thaw depth in northern cities. Solov'ev, P. A., (1980, p. 60-63, rus) **35-3316**

Climate and hydrology of permafrost areas. Bachurin, G. V., et al, (1980, p. 3-41, rus) **35-3414**

Seasonal variations of heat balance in taiga. Zhurina, I. L., (1980, p. 132-140, rus) **35-3421**

Mathematical models of water balance in permafrost areas. Nikitin, S. P., (1980, p. 213-218, rus) **35-3428**

Frost shattering of ground in Transbaikal steppes. Bazhenova, O. I., (1980, p. 107-115, rus) **35-3473**

Plant communities of spruce taiga. Dyrenkov, S. A., et al, (1981, p. 26-33, rus) **35-3508**

Physiological processes in plants of Central Yakutia. Kononov, K. E., (1981, p. 39-45, rus) **35-3509**

Increment and defoliation of tundra shrubs. Andreashkina, N. I., et al, (1981, p. 80-83, rus) **35-3510**

Thermal balance of meadow vegetation and the climate of cryogenic flood-plain soils. Savvinov, D. D., et al, (1981, 176p., rus) **35-3567**

Saline soils of West Siberia. Kurachev, V. M., et al, (1981, 152p., rus) **35-3568**

Land reclamation in mining areas of the North. Sulin, G. A., et al, (1977, p. 111-125, rus) **35-3808**

Regularities governing the formation of elementary geosystems (the central taiga structures of Sos'vinskoe Priob'e as an example). Mikheev, V. S., ed. (1978, 124p., rus) **35-3819**

Relations between different components of taiga geosystems. Kuz'menko, E. I., (1978, p. 9-21, rus) **35-3820**

Density of taiga stand and the young growth. Kuz'menko, E. I., (1978, p. 22-42, rus) **35-3821**

Soils of the Konda-Sos'va Priob'e. Sazonov, A. G., (1978, p. 70-96, rus) **35-3823**

Interrelations between the components of forest and swamp ecosystems in the central taiga of the Ural area. Vasilevich, V. I., ed. (1980, 256p., rus) **35-3863**

Phytoplankton of the Pyasina River (western Taymyr). Ermolaev, V. I., (1981, p. 16-29, rus) **35-3891**

Musci of the Altai-Sayan highlands. Gudoshnikov, S. V., (1981, p. 52-60, rus) **35-3893**

Flora of pine forests in central Tuva. Shaulo, D. N., (1981, p. 197-210, rus) **35-3896**

Productivity of high altitude grass communities in the central Caucasus. Nakhutsrishvili, G. Sh., et al, (1980, 159p., rus) **35-3899**

Water regime of cereal grasses in Yakutia. Grigor'eva, D. V., et al, (1981, 145p., rus) **35-4097**

Decorative plants for landscaping residential areas in Yakutia. Krotova, Z. E., ed. (1980, 106p., rus) **35-4098**

Testing decorative plants introduced in Yakutia. Krotova, Z. E., (1980, p. 4-14, rus) **35-4099**

Shrubs introduced in the Yakut Botanical Garden. Nazarova, E. I., (1980, p. 15-24, rus) **35-4100**

Root systems of trees and shrubs introduced in Yakutia. Dokhunaev, V. N., (1980, p. 25-32, rus) **35-4101**

Using the Daurskaya larch in landscaping. Timofeev, P. A., (1980, p. 59-63, rus) **35-4102**

Trees and shrubs in Yakutsk. Kornienko, V. A., (1980, p. 64-69, rus) **35-4103**

Genesis of burozems and of brown forest and taiga soils similar to them. Ehwald, E., (1980, p. 131-143, eng) **35-4154**

Biologic investigations in the Far East. Zhirmunskii, A. V., ed. (1979, 183p., rus) **35-4307**

Economic development of mountain taiga. Samollov, T. P., et al, (1979, p. 25-35, rus) **35-4308**

Landscape evolutions in the Far East. Ivanov, G. I., (1979, p. 48-59, rus) **35-4309**

Physiological aspects of plant adaptation in polar regions. Konovalov, I. N., (1980, p. 3-12, rus) **35-4312**

Biological cycle in forest tundras of the southern Magadan area. Ignatenko, I. V., ed. (1979, 164p., rus) **35-4323**

Structure and biomass of larch taiga. Moskalluk, T. A., (1979, p. 16-27, rus) **35-4325**

Tundra plants in the Okhotsk Sea area. Mazurenko, M. T., (1979, p. 37-91, rus) **35-4327**

Algae in cryogenic soils. Pivovarova, Zh. F., et al, (1979, p. 125-133, rus) **35-4329**

Peat accumulation in drained northern soils. Berman, D. I., et al, (1979, p. 134-145, rus) **35-4330**

Humification processes in soils of the Okhotsk Sea area. Andreev, D. P., (1979, p. 146-149, rus) **35-4331**

Soil cover structure in Alpine tundras. Ignatenko, I. V., et al, (1980, p. 54-67, rus) **35-4335**

Microbiology of Alpine tundra soils. Kulichevskaia, I. S., (1980, p. 68-77, rus) **35-4336**

Cryogenic structures

Periglacial phenomena in the Chaglinka River valley. Meshchikhin, D. A., (1979, p. 131-140, rus) **35-195**

Permafrost conditions in West Siberia. Shamanova, I. I., et al, (1980, p. 94, rus) **35-772**

Cryolithology of the Mamontovaya Mountain formations. Kuznetsov, I. V., (1976, p. 12-21, rus) **35-1145**

Wedge-shaped deformations in alassy complexes. Velikotskii, M. A., (1979, p. 172-182, rus) **35-1838**

Periglacial formation of the Yenisey Ridge. Vorob'ev, I. V., et al, (1975, p. 42-48, eng) **35-2400**

Soil moisture migration in freezing soils. Ershov, E. D., et al, (1976, p. 89-91, eng) **35-2405**

Thermodelapsing formations; deposits of young thermokarst basins. Ivanov, M. S., (1980, p. 132-140, rus) **35-3328**

Cryogenic structure of the Amur River basin alluvium. Kostaev, A. G., et al, (1981, p. 126-153, rus) **35-4077**

Cryogenic textures

Cryolithology of the Mamontovaya Mountain formations. Kuznetsov, I. V., (1976, p. 12-21, rus) **35-1145**

Cryogenics

Concrete and cryogenics, Part 2. Turner, F. H., (1980, p. 31, eng) **35-251**

Culverts

Measuring peak runoff at culverts on the interior plains. Doyle, P. F., (1979, p. 390-402, eng) **35-425**

Drainage systems for embankments on permafrost. Solov'ev, G. P., et al, (1981, p. 9-11, rus) **35-2077**

Preventing naled formation near hydraulic structures. Merkulov, D. M., (1981, p. 38-39, rus) **35-2082**

Filter dam-culvert combinations for permafrost areas. Rabukhin, I. G., (1981, p. 47-48, rus) **35-2089**

Damage

Resistance of concrete to urea and freezing. Blunk, G., et al, (1980, p. 119-131, ger) **35-569**

Environmental impact of highway deicing. Backman, L., (1980, 62p. + tables, swe) **35-570**

Floating platforms and excavations to protect subsea equipment from icebergs. Duval, J., et al, (1980, p. 81-86, eng) **35-831**

Environmental impact of tracked vehicles in tundra. Sparrow, S. D., et al, (1978, p. 20-27, eng) **35-1162**

Rational seasonal load restrictions and overload permits. Connor, B., (1980, 52p., eng) **35-1681**

Low temperature stress in crop plants; the role of the membrane. (1979, 565p., eng) **35-1849**

Crude oil spills on subarctic permafrost in interior Alaska. Johnson, L. A., et al, (1980, 67p., eng) **35-2001**

Parking deck deterioration from chlorides. Jacobson, N. G., et al, (1981, p. 438-448, eng) **35-2517**

Protecting structures from frost damage. Chen, X., (1981, p. 734-740, eng) **35-2534**

Accidents and damage due to avalanches. Schild, M., et al, (1980, p. 93-151, ger) **35-2566**

1977 tundra fire at Kokolik River, Alaska. Hall, D. K., et al, (1978, 11p., eng) **35-2591**

Cost of ice damage to shoreline structures during navigation. Carey, K. L., (1980, 33p., eng) **35-2599**

Effects of a tundra fire on soil and vegetation. Racine, C., (1980, 21p., eng) **35-2602**

Pothole primer; a public administrator's guide to understanding and managing the pothole problem. Eaton, R., coord. (1981, 24p., eng) **35-2758**

Spring ice breakup at pipeline river crossing. Grey, B. J., (1978, 22p., eng) **35-3795**

Farmers loop sinkhole. Sweet, L., et al, (1980, p. 6-10, eng) **35-3856**

Highway pavement cracks; an Alaskan overview. McHattie, R., (1980, p. 17-21, eng) **35-3858**

Ice engineering design of boat harbors and ports. Wortley, C. A., (1981, p. 1104-1113, eng) **35-4170**

Damage caused by snow in pine stands. Matyas, C., (1981, p. 270-272, hun) **35-4252**

Dams

Environmental impact statement, Chena River Lakes Project. (1980, 82p. + appends., eng) **35-132**

Working group on ice forces on structures. Carstens, T., ed. (1980, 146p., eng) **35-507**

Hydro power plant construction in the USSR. Il'inov, D. M., ed. (1979, 597p., eng) **35-685**

Building underground structures in permafrost. Gevirts, G.I.V., et al. (1980, p.131-140, eng) 35-963
Temperature fields of concrete and earth dams. Zubkov, V.I. (1980, p.94-98, rus) 35-1035
Giant power plant in the Sayan Mountains. Mikhailov, I.P., et al. (1980, 104p., rus) 35-1271
Power plant construction in the North. Fain, I.I. (1980, p.63-66, rus) 35-1298
Models for studying flooding of earth dams. Ivanov, D.I. (1979, p.55-59, rus) 35-1624
Construction of hydroelectric developments in the North. Belikov, A.V., et al. (1980, p.68-72, rus) 35-1636
James Bay hydroelectric project, environmental concerns. (1981, 45p., eng) 35-1882
Dynamics of temperature field of the dam of the Vilyuy hydroelectric power plant. Olovin, B.A., et al. (1980, 48p., rus) 35-2049
Filter dam-culvert combinations for permafrost areas. Rabukhin, I.G. (1981, p.47-48, rus) 35-2089
Hydroelectric power plants in the Baykal-Amur railroad area. Sheinman, I.B. (1980, 89p., rus) 35-2688
Concrete dam of the Ust'-Ilim hydroelectric power plant (Field observations and studies). Eidel'man, S.IA., et al. (1981, 137p., rus) 35-3898
Vapor condensation in hydraulically filled tailings. Klimov, G.I., et al. (1980, p.57-62, rus) 35-3995
Timan-Pechora regional industrial complex. Podoplelov, V.P., ed. (1979, 144p., rus) 35-4104
Controlling stresses in concrete dams. Epifanov, A.P., et al. (1981, p.5-8, rus) 35-4227
Inflatable structures in power engineering. Kul'nev, A.N., (1981, p.32-36, rus) 35-4230
Building earth dams in swamps. Bessonov, A.V., (1981, p.37-38, rus) 35-4231
Construction of tall gravity dams in the North. Efimenko, A.I., et al. (1981, p.4-11, rus) 35-4280
Cranes used in arch dam construction in the North. Kuperman, V.I., et al. (1981, p.12-15, rus) 35-4281
Tall block technique of dam construction in the North. Kuperman, V.I., et al. (1981, p.15-18, rus) 35-4282
Winter concreting. Sadovskii, S.I., et al. (1981, p.19-21, rus) 35-4283

Danube River

Forecasting ice appearance on the Danube River. Shanochkin, S.V., (1978, p.34-40, rus) 35-2703

Data buoys

FGGE Arctic data buoy program. Thorndike, A.S., (1980, p.2097-2099, eng) 35-3655

Data processing

Oceanography of the d'Iberville Fiord, N.W.T., Mar.-Apr. 1974. (1975, 139p., eng) 35-1058
Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979. (1980, 534p., eng) 35-1150
Automated system for collecting snow hydrological data. Rallison, R.E., (1981, p.83-89, eng) 35-2315
NOAA Polar Orbiter data (TIROS-N and NOAA-6) users guide. Kidwell, K.B., comp. (1921, c115p., eng) 35-2577
Climatic changes in the Northern Hemisphere. Gruza, G.V., et al. (1980, 72p., rus) 35-2950
Concepts for data collection in the Arctic. Hatchwell, J.A., (1972, 72p., eng) 35-3466

Data transmission

Data transfer and measurement in radio telemetry station on glaciers. Wang, L., et al. (1980, p.3-7, chi) 35-2649

Decomposition

Bacteria and fungi in tundra ponds. Hobbie, J.E., et al. (1980, p.340-387, eng) 35-1755
Microbial ecology and decomposition in Arctic tundra and Subarctic taiga ecosystems. Flanagan, P.W., (1978, p.161-168, eng) 35-2177
Decomposition and accumulation of organic matter in tundra. Head, G.W., et al. (1981, p.587-633, eng) 35-3393
Ecosystem synthesis: a "fairytale". Bunnell, F.L., (1981, p.637-646, eng) 35-3394
Carbon flux in tundra by using simulation models. Bunnell, F.L., et al. (1981, p.685-715, eng) 35-3396

Defects

Construction in an arctic environment without adequate inspection. Hoar, C.L., (1981, p.348-361, eng) 35-2513
Detection of thermal insulation defects in buildings by infrared thermography. Venuti, G., (1980, p.1025-1032, eng) 35-3987

Deflection

Deflection of a floating ice sheet subjected to a moving load. Pt.2. Takizawa, T., (1978, p.69-78, jap) 35-1542

Deformation

Deformation of loess beneath foundations. Tugaenko, IU.F., et al. (1980, p.85-97, rus) 35-231
Calculating loads of frozen rocks on timber in mines. Sleptsov, A.E., et al. (1980, p.101-103, rus) 35-634
Strength of frozen saline loams. Aksenov, V.I., (1973, p.50-54, rus) 35-1601
Deformation of loaded concrete beams at subzero temperature. Gorchakov, G.I., et al. (1980, p.7-9, rus) 35-1650

Defrosting

Wintertime deicing: let the pavement do the work. (1980, p.37-40, eng) 35-524
Cargo freezing prevention and defrosting techniques. (Alokha-Kokh, Kh., (1980, p.23-26, rus) 35-542

Degradation

Permafrost of the Sibirskiye Uvaly swamps. Shamanova, I.I., (1981, p.97-101, rus) 35-4074

Degree days

Winter severity index for the Great Lakes. Assel, R.A., (1980, p.1440-1445, eng) 35-883

Deltas

Conference on climate, relief and human activities. (1978, 155p., rus) 35-11
Badland topography in the Arctic. Korzhuev, S.S., (1978, p.95-96, rus) 35-15
Changing the course of rivers in the Arctic. Ivanov, V.V., (1980, p.106-123, rus) 35-1431
All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers. Treshnikov, A.F., ed. (1980, 147p., rus) 35-3103
Forecasting cryogenic processes in the Ob' River delta. Gogolev, E.S., et al. (1980, p.110-112, rus) 35-3126
River diversion effect on permafrost conditions of Arctic shores. Popov, B.A., et al. (1980, p.113-117, rus) 35-3127
Applying system analysis to modeling geomorphologic consequences of river diversion. Mikhankov, IU.M., et al. (1980, p.120-123, rus) 35-3129

Dendritic ice

Effects of dendritic ice formation in water pipes. Gilpin, R.R., (1977, p.693-699, eng) 35-2944

Density (mass volume)

Sea ice: its characteristics, distribution and role in human affairs. Ferguson, N.B., (1980, p.169-176, eng) 35-49
Gamma-ray densimeters for mudflows. Stepanova, T.S., (1980, p.136-140, rus) 35-217
Oceanographic data report from Cambridge Bay, N.W.T., Sep.1971-Apr.1972. (1973, 267p., eng) 35-889
Oceanography of the d'Iberville Fiord, N.W.T., Mar.-Apr. 1974. (1975, 139p., eng) 35-1058
Firn densification: an empirical model. Herron, M.M., et al. (1980, p.375-385, eng) 35-1501
Soil infiltration on land treatment sites. Abele, G., et al. (1980, 41p., eng) 35-1726
Tritium in ice near Molodezhnaya Station. Herbert, D., et al. (1980, p.91-94, rus) 35-2039
Arctic Ocean temperature, salinity and density, March-May 1979. McPhee, M.G., (1981, 20p., eng) 35-3706
Laboratory and field use of soil tensiometers above and below 0 deg C. Ingersoll, J., (1981, 17p., eng) 35-3796

Depth hoar

Experimental study of temperature-gradient metamorphism. Marbouty, D., (1980, p.303-312, eng) 35-2373

Desalting

Exchange crystallization freeze desalination process. Johnson, D.W., et al. (1976, p.231-240, eng) 35-4295

Desert soils

Properties and classification of some cold desert soils. Bockheim, J.G., (1980, p.45-69, eng) 35-219
Soil development on moraines of Taylor Glacier, lower Taylor Valley, Antarctica. Pastor, J., et al. (1980, p.341-348, eng) 35-225

Deserts

Arctic and Antarctic: their division into geobotanical areas. Aleksandrova, V.D., (1980, 247p., eng) 35-130
Changes in taiga due to river flow control. Shirokov, V.M., (1980, p.22-30, rus) 35-1332
Vegetation of the European part of the USSR. Gribova, S.A., ed. (1980, 429p., rus) 35-1491
Development of agriculture in Siberia and the Far East. Kashtanov, A.N., ed. (1980, 352p., rus) 35-3055
Biologic-floristic studies related to environmental protection in polar regions. Shliakov, R.N., ed. (1980, 149p., rus) 35-3062
Sand dunes of Victoria Valley, Antarctica. Calkin, P.E., et al. (1974, p.189-216, eng) 35-3139
Cryolithologic analysis. Gasanov, Sh.Sh., (1981, 195p., rus) 35-3211
North American and Scandinavian tundras and polar deserts. Bliss, L.C., (1981, p.8-24, eng) 35-3374

Design

Snow depth in relationship with avalanche control structure design. Balzaretti, P., (1980, p.44-46, ita) 35-223
Seagoing passenger hovercraft "Chaika". Zoroastrov, V.K., et al. (1980, p.5-7, rus) 35-317
Design of the built environment in cold regions. Crittenden, E.B., (1981, p.103-114, eng) 35-2501
Accommodation design for remote settlements. Bent, C., (1981, p.115-131, eng) 35-2502
Log school: a case for appropriate design. Dubbs, P., et al. (1981, p.143-156, eng) 35-2504
Port feasibility study, Nome, Alaska. Gadd, P.E., et al. (1981, p.235-248, eng) 35-2506
Some aspects of Soviet trenching machines. Mellor, M., (1980, 13p., eng) 35-2597
Dosing of antifreeze admixtures for winter concreting. Mamedov, A.A., et al. (1980, p.18-25, rus) 35-3526
Thermal and hydraulic design of pipelines for oil and petroleum products. Agapkin, V.M., et al. (1981, 256p., rus) 35-3931
Calculating artificial thawing of frozen ground. Khromets, D.IU., (1979, p.29-33, rus) 35-4056

Design criteria

Prefabricated low-story construction in the Far North. Sudakov, V.V., (1980, p.32-39, eng) 35-1969

Detection

Seismic detection of avalanches. Bonnet, G., (1980, p.30-41, fre) 35-3982
Detection of thermal insulation defects in buildings by infrared thermography. Venuti, G., (1980, p.1025-1032, eng) 35-3987
Simple snowfall detector employing infrared rays reflection. Tsubata, I., et al. (1981, p.77-82, jap) 35-4266

Dew point

Carburetor ice flight testing: use of an anti-icing fuel additive. Newman, R.L., (1981, p.5-6, eng) 35-2176

Dielectric properties

Dipolar correlation factor and permittivity of ice IV and V. Johari, G.P., (1980, p.241-255, eng) 35-249
Unfrozen water content in frozen soils. Patterson, D.E., et al. (1980, p.205-210, eng) 35-736
Liquid distribution and the dielectric constant of wet snow. Colbeck, S.C., (1980, p.21-39, eng) 35-1735
Dielectric behavior of snow: a study versus liquid water content. Ambach, W., et al. (1980, p.69-92, eng) 35-1737
Snow electromagnetic measurements. Linlor, W.I., et al. (1980, p.93-117, eng) 35-1738
Investigation of frozen soils using Time Domain Reflectometry. Smith, M.W., et al. (1980, 59p., eng) 35-1878
Dielectric coefficient of ice and its use in glaciological research. Li, W., (1980, p.51-53, chi) 35-2667
Dielectric properties and passive remote sensing of low-salinity sea ice. Hallikainen, M., (1980, 78p., eng) 35-3559
Electron solvation in crystalline ice on a subnanosecond timescale. Warman, J.M., et al. (1981, p.43-46, eng) 35-4013

Diesel engines

Military diesel power plants in the Arctic. Kuchuk, IU., (1980, p.58-60, rus) 35-972
Mechanized water preparation at Vostok. Zagrivnyi, E.A., et al. (1980, p.124-127, rus) 35-2046
Cold weather performance of diesel excavators. Khorosh, A.I., et al. (1981, p.23-24, rus) 35-2097

Discontinuous permafrost

Discontinuous permafrost distribution in Quebec and Labrador. Brown, R.J.E., (1979, p.279-289, eng) 35-276
Estimation of small basin flood flows in the discontinuous permafrost zone. Vincent, D.G., et al. (1979, p.229-238, eng) 35-416
Water budget and lake-level stability of Harding Lake. Nakao, K., et al. (1980, p.9-15, eng) 35-1559
Industrial activities effect on natural conditions of the Far East. Nikol'skaia, V.V., (1976, p.89-95, rus) 35-1855
Design of foundations for buildings in discontinuous permafrost. Phukan, A.H., (1980, p.185-203, eng) 35-1976
"Viviers" in the Hautes Fagnes and pingos. Pissart, A., (1974, p.359-381, fre) 35-1996
Slope processes in cold environment of northern Finland. Soderman, G., (1980, p.83-152, eng) 35-2105
Waterworks systems, Yellowknife, Northwest Territories. Prentice, J.R., et al. (1980, p.409-425, eng) 35-2131
Land reclamation in areas of discontinuous permafrost. Zamana, L.V., (1980, p.73-75, rus) 35-2276
Palsa bogs, sand dunes and salt marshes, environmentally sensitive habitats in the coastal region southeastern Labrador. Roberts, B.A., et al. (1980, p.245-263, eng) 35-3096

Dislocations (materials)

Kink velocities on dislocations in ice. Frost, H.J., et al. (1976, p.951-961, eng) 35-151
Limiting mechanisms of dislocation motion in ice. Lee, S., (1979, 118p., eng) 35-1186

Dispersions

Heat and mass transfer in dispersed systems. Grossman, A.G., (1978, p.131-134, rus) 35-871
Glacial dispersion of uranium in the District of Keewatin, Canada. Klassen, R.A., et al. (1977, p.80-88, eng) 35-2727

Distribution

Glaciers in China. Chi, J., ed. (1980, c200p., eng) 35-1564
Preparation of glacier distribution maps. Yin, S., (1980, p.67-70, chi) 35-2673
Vegetation features in the N.W.T., Canada. Johnson, E.A., (1981, p.200-215, eng) 35-2800
Geobotanical division of the Soviet Arctic. Andreev, V.N., et al. (1981, p.25-34, eng) 35-3375
Phytomass and primary production of tundra communities, USSR. Tikhomirov, B.A., et al. (1981, p.227-238, eng) 35-3381
Breeding of Say's Phoebe in Arctic Alaska. Cade, T.J., et al. (1973, p.360-361, eng) 35-4008

Distribution *(cont.)*

Transport and deposition of leaves and seeds on tundra Glaser, P.H., [1981, p.173-182, eng] **35-4090**

Diurnal variations

Nocturnal arthropods in the alpine tundra of Colorado Schmoller, R., [1971, p.345-352, eng] **35-1906**

Docks

Dock protection from drift ice Vinogradov, E.S., [1979, p.42-45, rus] **35-320**

Safety rules for docking ships under severe climatic conditions Ivanov, I.V., et al, [1980, 152p., rus] **35-3897**

Doped ice

Mechanical properties of saline-doped and carbamide (urea)-doped model ice Timco, G.W., [1980, p.45-56, eng] **35-818**

Formation of concentric dislocation loops in ice crystals Oguro, M., et al, [1981, p.71-80, eng] **35-1069**

Development of a new type of model ice for refrigerated towing basins Timco, G.W., et al, [1980, 31p., eng] **35-1588**

Flexural strength of ice grown from chemically impure melts Timco, G.W., [1981, p.81-92, eng] **35-3665**

Drainage

Snowmelt-runoff forecasting Tangborn, W.V., [1980, p.778-786, eng] **35-439**

Snowpack and mine drainage in a western surface mine Farmer, E.E., et al, [1980, p.79-100, eng] **35-582**

Reclamation of acid-producing spoils on a western surface mine Richardson, B.Z., [1980, p.101-112, eng] **35-583**

Reclamation process as affected by the surface mining regulations Brown, J.A., [1980, p.148-152, eng] **35-586**

Drainage induced changes in thermal regime of peat Khimin, N.M., et al, [1980, p.92-100, rus] **35-769**

Frost resistant concretes for meliorative structures Nevskii, V.A., et al, [1980, p.9-11, rus] **35-780**

Forest-strip method of reclaiming eroded soils Budaev, Kh.R., ed, [1976, 159p., rus] **35-799**

Land reclamation in Transbaikal Budaev, Kh.R., [1976, p.10-17, rus] **35-800**

Drainage effect on paluded north taiga soils Varfolomeev, L.A., et al, [1980, p.44-51, rus] **35-957**

Land reclamation in non-chernozem areas Aleksankin, A.V., et al, [1980, 288p., rus] **35-996**

Calculating water drainage from artificially thawed rocks Rapoport, I.O., [1978, p.119-135, rus] **35-1084**

Soils of drained forest swamps Melent'eva, N.V., [1980, 127p., rus] **35-1134**

Hydrologic studies and land reclamation in Siberia Morozov, G.V., ed, [1977, 86p., rus] **35-1289**

Water balance of northern swamps Ershova, I.M., [1977, p.39-47, rus] **35-1293**

Drainage effect on northern swampy forests Plavchenko, N.I., et al, [1980, p.52-77, rus] **35-1325**

Productivity of North Karelia forests Orlov, E.D., [1980, p.100-113, rus] **35-1327**

Influence of water runoff redistribution on the natural conditions of Siberia Saks, V.N., ed, [1980, 184p., rus] **35-1331**

Changes in taiga due to river flow control Shirokov, V.M., [1980, p.22-30, rus] **35-1332**

Study and preservation of water resources (1971-1973) Shablevskaia, V.A., ed, [1976, 128p., rus] **35-1366**

Redistribution of river water resources in the USSR Sokolov, A.A., ed, [1980, 164p., rus] **35-1427**

Glacial hydrology of an ice-dammed lake, Ellesmere Island, N.W.T. Blachut, S.P., [1976, 202p., eng] **35-1466**

Hydrology of northern swamps Babikov, B.V., [1980, p.14-26, rus] **35-1861**

Drainage systems for northern swamps [illegible]znarin, M.N., et al, [1980, p.26-27, rus] **35-1862**

Designing drainage systems for northern swamps Popov, I.A., et al, [1980, p.27-28, rus] **35-1863**

Drainage systems for embankments on permafrost Solov'ev, G.P., et al, [1981, p.9-11, rus] **35-2077**

Soil preservation in permafrost and deep seasonal freezing areas Kovda, V.A., et al, [1980, p.5-8, rus] **35-2252**

Drainage of cryogenic soils in Karelia Nesterenko, I.M., [1980, p.20-21, rus] **35-2259**

Temperature and freezing of forest soils during drainage Chesnokov, V.A., [1980, p.115-117, rus] **35-2292**

Thermal properties of drained cryogenic soils Efremov, S.P., et al, [1980, p.124-126, rus] **35-2295**

Regionalization of the Non-chernozem zone Panov, E.P., et al, [1980, 231p., rus] **35-2439**

Scientific conference of Karelian biologists Komulainen, A.A., ed, [1970, 167p., rus] **35-2613**

Using satellite information in solving hydrological problems Kupriianov, V.V., et al, [1980, p.3-9, rus] **35-2968**

Foundation construction on peat soils Konovalov, P.A., [1980, 161p., rus] **35-2997**

Lake drainage, Richards Island, N.W.T. Mackay, J.R., [1981, p.63-68, eng] **35-3084**

Vegetation and ice-wedge polygons through the thaw-lake cycle in N. Alaska Billings, W.D., et al, [1980, p.413-432, eng] **35-3197**

Surface runoff in river basins of permafrost areas Berkin, N.S., et al, [1980, p.97-102, rus] **35-3462**

Drainage construction in freezing weather Gontarenko, M.F., et al, [1980, p.43-45, rus] **35-3538**

Runoff from a surface study plot Bengtsson, L., et al, [1979, 12p., eng] **35-3629**

Roadside vegetation control and drainage Creech, M.F., [1980, p.15-22, eng] **35-3787**

Drainage in the faulted Aldan Plateau zone Lygin, A.M., [1980, p.22-30, rus] **35-3991**

Vapor condensation in hydraulically filled tailings Klimov, G.I., et al, [1980, p.57-62, rus] **35-3995**

Chart of ground water movement in East Siberia Piguzova, V.M., [1980, p.135-138, rus] **35-4003**

Stereophotographic mapping of the Batura Glacier drainage area Chen, J., et al, [1980, p.208-220, chi] **35-4040**

Behavior of a polar ice-dammed lake, Ellesmere Island, Canada Blachut, S.P., et al, [1981, p.63-74, eng] **35-4084**

Peat accumulation in drained northern soils Berma, D.I., et al, [1979, p.134-145, rus] **35-4330**

Drains

ETTs-163M drain-laying equipment Korshikov, A.A., et al, [1980, p.46-47, rus] **35-1640**

Drainage systems for northern swamps Panarin, M.N., et al, [1980, p.26-27, rus] **35-1862**

Dredging

Maintaining ice-free areas around dredging shovels Roshchupkin, D.V., et al, [1980, p.17-18, rus] **35-390**

Dredging in icebound rivers Zernov, A., [1980, p.8-9, rus] **35-915**

Dredging in freezing weather Popov, I.A., [1980, p.98-104, rus] **35-1089**

Natural revegetation of dredge tailings at Fox, Alaska Holmes, K.W., [1981, p.26-29, eng] **35-1693**

Proceedings [1980, 460p., eng] **35-2957**

Construction of artificial island in the Beaufort Sea Boone, D.J., [1980, p.231-247, fre] **35-2961**

Heat conductivity of washed up sandy ground Mandarov, A.A., et al, [1980, p.63-68, rus] **35-3317**

Enrichment of perennially frozen ore and placer deposits Emel'ianov, V.I., ed, [1977, p.175, rus] **35-3805**

Water supply systems for dredging in permafrost areas Ageenkov, A.V., et al, [1977, p.87-100, rus] **35-3807**

Drift

Ice distribution in the Danish Strait Kogan, B.A., et al, [1980, p.54-60, rus] **35-31**

Surface and geostrophic winds over pack ice Feldman, U., et al, [1979, p.421-429, eng] **35-157**

POAC '79, Trondheim, Norway, Aug. 1979, Vol.3 [1979, 608p., eng] **35-161**

Sea ice and icebergs Peters, G.R., [1979, p.41-59, eng] **35-162**

Ice flow through straits Pritchard, R.S., et al, [1979, p.61-74, eng] **35-163**

On the drift ice conditions in the Atlantic sector of the Antarctic Vinje, T.E., [1979, p.75-82, eng] **35-164**

Eastern Arctic marine environmental study program Loken, O.H., [1979, p.139-152, eng] **35-168**

Activities of the Norwegian Meteorological Institute in polar regions Haland, L., [1979, p.153-178, eng] **35-169**

Coal loading pier in Svea, Svalbard Instanes, B., [1979, p.217-232, eng] **35-172**

Ice and iceberg studies using state-of-the-art remote sensing Lowry, R.T., et al, [1979, p.551-569, eng] **35-180**

Combined microwave-infrared radiometers for sea ice Bogorodskii, V.V., et al, [1980, p.23-26, rus] **35-364**

Seasonal variations in sea ice elasticity Gavrilo, V.P., et al, [1980, p.37-42, rus] **35-367**

Acoustic methods of studying ice cover dynamics Sosedova, A.L., et al, [1980, p.112-118, rus] **35-380**

Sea Ice-75. Dynamical report Udin, I., et al, [1976, 64p., eng] **35-531**

Drifting buoy measurements on Weddell Sea pack ice Ackley, S.F., [1979, p.106-108, eng] **35-676**

Weddell Sea ice moving into mid-latitude westerlies Schwerdtfeger, W., [1979, p.108-109, eng] **35-677**

Sea ice reporting from satellite data Nikitin, P.A., et al, [1980, p.65-68, rus] **35-786**

Deflection of icebergs by anchors Mellor, D.C., [1980, p.87-88, eng] **35-821**

Transport measurements in the Arctic ice-pack Gebhart, B., et al, [1980, p.293-302, eng] **35-833**

Robeson Channel ice drift and oceanographic measurements, 1970-1975 Dunbar, M., et al, [1980, 24p. + 125 figs., eng] **35-887**

Bibliography on northern sea ice and related subjects Bradford, J.D., comp, [1980, 194p., eng] **35-890**

Numerical modeling of ice drift Taran, B.M., [1980, p.81-85, rus] **35-931**

Cyclone effect on ice covered sea Denisov, V.V., et al, [1979, p.49-59, rus] **35-934**

Dynamic models of sea ice Ovstienko, S.N., [1978, p.64-69, rus] **35-997**

Oceanic boundary-layer features and oscillation at drift stations McPhee, M.G., [1980, p.870-884, eng] **35-1059**

Sea ice loads on hydraulic structures Drabkin, V.V., [1978, p.137-144, rus] **35-1297**

Ecosystem of Arctic drift ice Mel'nikov, I.A., [1980, p.61-97, rus] **35-1317**

Cryopelagic biocenoses of the Central Arctic Basin Kulikov, A.S., [1980, p.111-118, rus] **35-1319**

New data on circulation of sea water and ice in the Southern Ocean Bunitskii, V.Kh., et al, [1980, p.3-18, rus] **35-1344**

Characteristics of iceberg drift Eskin, I.I., [1980, p.68-76, rus] **35-1455**

Iceberg drift in the Antarctic Circumpolar Current Eskin, I.I., [1980, p.77-81, rus] **35-1456**

Oceanographic conditions in the Okhotsk Sea coast of Hokkaido, winter Aota, M., et al, [1978, p.93-105, jap] **35-1545**

Inertial period motions of drifting sea ice Ono, N., [1978, p.107-113, jap] **35-1546**

Sea ice conditions and frequency of radar echoes Aota, M., et al, [1978, p.115-123, jap] **35-1547**

Air deployed oceanographic mooring (ADOM) [1980, 77p., eng] **35-1589**

Mathematical model for dynamics of pack ice Pai, S.I., et al, [1977, 23p., eng] **35-1592**

Calculation of the basic components of the ice balance in the Denmark Strait Antropova, I.V., et al, [1980, 16p., eng] **35-1727**

On the drift and deformation of sea ice fields in the Bothnian Bay Lepparanta, M., [1980, 79p., eng] **35-1758**

Ice transport in Great Lakes Rumer, R.R., Jr., et al, [1979, 275p., eng] **35-1773**

Free drift of sea ice: a comparison of models Gaskill, H.S., et al, [1980, 132p., eng] **35-1845**

Tangential stresses on the lower surface of ice with wind drift Kheisin, D.E., et al, [1980, 7p., eng] **35-1909**

Ice drift forecasting in the Bay and Sea of Bothnia Udin, I., et al, [1976, 40p., eng] **35-2056**

Symposium on Sea Ice Processes and Models, Seattle, Wa., 1977 Pritchard, R.S., ed, [1980, 474p., eng] **35-2167**

Nonsteady ice drift in the Strait of Belle Isle Sodhi, D.S., et al, [1980, p.177-186, eng] **35-2168**

Continuum sea ice model for a global climate model Ling, C.H., et al, [1980, p.187-196, eng] **35-2169**

Divergence and rotation of an ice field off Okhotsk Sea coast of Hokkaido Tabata, T., et al, [1980, p.273-282, eng] **35-2170**

Prediction of an iceberg drift trajectory during a storm Sodhi, D.S., et al, [1980, p.77-82, eng] **35-2210**

Some satellite-tracked iceberg drifts in the Antarctic Vinje, T.E., [1980, p.83-87, eng] **35-2211**

Investigations on the currents influencing iceberg motion Dhallum, M., [1980, p.89-93, eng] **35-2212**

Antarctic iceberg melt rate Budd, W.F., et al, [1980, p.103-112, eng] **35-2214**

Icebergs threaten offshore oil industry Goblot, R., [1977, p.9-11, fre] **35-2422**

Variations of sea ice conditions in Lutzow-Holm Bay area, in Antarctica in the last 20 years Kusunoki, K., [1981, p.171-176, eng] **35-3028**

Sea-ice atmosphere interactions in the Weddell Sea using drifting buoys Ackley, S.F., [1981, p.177-191, eng] **35-3029**

Observation of the east wind drift current using tracked icebergs Tcherna, P., [1980, p.83, eng] **35-3187**

Sea ice studies in the Weddell Sea aboard USCGC Polar Sea Ackley, S.F., et al, [1980, p.84-96, eng] **35-3188**

Deposition and erosion on the inner shelf, N.E. Bering Sea Hunter, R.E., et al, [1981, p.332-267, eng] **35-3245**

Seismotectonic studies of western Alaska and sea ice studies in Beaufort Sea Biswas, N.N., et al, [1981, p.575-618, eng] **35-3250**

Modeling the geostrophic drag coefficient for AIDJEX Brown, R.A., [1981, p.1989-1994, eng] **35-3273**

Satellite observation of Great Lakes ice winter 1978-79 Wartha-Clark, J., [1980, 36p., eng] **35-3409**

NORSEX project to study ice-ocean dynamics Farrally, B.A., et al, [1981, p.86-88, eng] **35-3436**

Ice cover redistribution in the Kara Sea Appel', I.L., et al, [1980, p.4-28, rus] **35-3490**

Ice conditions in the Arctic Ocean Arikainen, A.I., et al, [1980, p.83-88, rus] **35-3497**

Age composition of ice in the Arctic Ocean Zakharov, V.F., [1980, p.118-121, rus] **35-3502**

Modeling a variable thickness sea ice cover Hibler, W.D., III, [1980, p.1943-1973, eng] **35-3514**

Periglacial forms produced by shore ice at Hornsund (Spitsbergen) Jahn, A., [1977, p.19-29, eng] **35-3619**

Microwave observation of the Weddell polynya Carsey, F.D., [1980, p.2032-2044, eng] **35-3649**

EGGE Arctic data buoy program Thorndike, A.S., [1980, p.2097-2099, eng] **35-3655**

Research in sea ice mechanics [1981, 80p., eng] **35-3657**

Outline of the study of seasonal snow and ice in China Maohuan, H., [1980, p.1-11, eng] **35-3659**

Sensitivity analysis of steady, free floating ice Omstedt, A., [1980, 31p., eng] **35-3700**

Relationship of stress and strain in sea ice Denner, W.W., [1980, p.5-32, eng] **35-3836**

Monitoring sea ice ridgebuilding and stresses Biswas, N.N., et al, [1980, p.209-236, eng] **35-3844**

Airborne radar for ice surveys Balandin, V.N., et al, [1981, p.19-21, rus] **35-3936**

Time dependence and optimal discreteness of ice packing observations Bulavkin, V.M., (1981, p.72-75, rus) 35-3948
Correlation between geometric parameters of ice floes Losev, S.M., (1981, p.92-96, rus) 35-3953
Relationship between ice drift and atmospheric pressure Gorbunov, R.A., (1981, p.97-103, rus) 35-3954
Ice cover mobility in the Long Strait Gorbunov, R.A., (1981, p.110-113, rus) 35-3956
Peculiarities of spatial variations in ice packing Losev, S.M., (1981, p.120-128, rus) 35-3959
Morphometric characteristics of drifting ice in Long Strait Gorbunov, R.A., et al, (1981, p.129-136, rus) 35-3960
Icebergs on the Grand Banks: oil and gas considerations Lewis, J., et al, (1981, p.109-114, eng) 35-4014
Eastern Bering Sea ice dynamics and thermodynamics Pease, C.H., (1980, p.213-222, eng) 35-4141
Ice regime of Norton Sound, Bering Sea Ray, V.M., et al, (1980, p.263-278, eng) 35-4144
Polex-North-76 (scientific results) Part 2 Treshnikov, A.F., ed, (1979, 194p, rus) 35-4182
Ice conditions in Laptev Sea Gudkovich, Z.M., et al, (1979, p.16-19, rus) 35-4184
Calculating heat spent for sea ice melting Gudkovich, Z.M., (1979, p.21-27, rus) 35-4186
Hydrologic observations in Laptev Sea Gudkovich, Z.M., et al, (1979, p.38-44, rus) 35-4187
Ice drift in the Laptev Sea Gorbunov, R.A., et al, (1979, p.45-65, rus) 35-4188
Ice transfer through the New Siberian straits Gorbunov, R.A., (1979, p.66-72, rus) 35-4189
Changes in pack ice density due to dynamic processes Gudkovich, Z.M., (1979, p.73-81, rus) 35-4190
Ice disintegration due to thermodynamic processes Losev, S.M., (1979, p.82-91, rus) 35-4191
Grounded ice hummocks in Arctic seas Gorbunov, R.A., (1979, p.107-110, rus) 35-4193
Modelling ice dissipation in eastern Lake Erie Rumer, R.R., Jr., et al, (1978, p.194-200, eng) 35-4321

Drift stations

Temperature fields and sound transmission variations in the Arctic Ocean Bogorodskii, V.V., et al, (1980, p.967-970, rus) 35-306
Measuring acoustic and electromagnetic wave propagation in sea ice Bogorodskii, V.V., et al, (1980, p.80-86, rus) 35-375
Acoustic instruments used on drift stations Bogorodskii, P.V., et al, (1980, p.94-100, rus) 35-377
Temperature fluctuations in the Central Arctic Basin Bogorodskii, P.V., et al, (1980, p.101-104, rus) 35-378
Snow cover effect on electrical properties of ice. Khokhlov, G.P., (1980, p.149-152, rus) 35-382
Biology of the Central Arctic Basin Vinogradov, M.E., ed, (1980, 260p, rus) 35-1312
Pelagic zone ecosystems of the Arctic Basin Vinogradov, M.E., et al, (1980, p.5-14, rus) 35-1313
Phytoplankton in the area of the drift station "Severnyy polius-22" Belaeva, T.V., (1980, p.133-142, rus) 35-1321
Plankton of the Central Arctic Basin Pavshtiks, E.A., (1980, p.142-154, rus) 35-1322
Oceanographic investigations in polar regions of the World Ocean Blinov, N.I., et al, (1980, 239p, rus) 35-2888
Arctic Ocean temperature, salinity and density, March-May 1979 McPhee, M.G., (1981, 20p, eng) 35-3706
Dimensions of ice fields Romanov, I.P., (1979, p.111-115, rus) 35-4194

Drill core analysis

Surface accumulation on Ross Ice Shelf Clausen, H.B., et al, (1979, p.68-72, eng) 35-654
Microparticle deposition at South Pole Mosley-Thompson, E., et al, (1979, p.91-93, eng) 35-665
Temperatures in a dome C drill hole Gillet, F., et al, (1979, p.101, eng) 35-672
Permafrost distribution in the Great Whale River basin, Ungava Botteron, G., et al, (1979, p.291-298, fre) 35-1045
Giant solar flares in antarctic ice Strothers, R., (1980, p.365, eng) 35-1076
Features of permafrost beneath the Beaufort Sea Sellmann, P.V., et al, (1980, p.103-110, eng) 35-1153
Studying ice cores from glacier boreholes Kotlyakov, V.M., et al, (1980, p.22-26, rus) 35-1222
Heat and mass transfer at the lower surface of the Ross Ice Shelf Zotikov, I.A., et al, (1980, p.27-36, rus) 35-1223
Climatic changes in the interior Alaska Nakao, K., et al, (1980, p.16-23, eng) 35-1560
Age of ice in drill holes at Vostok and Vostok-1. Shumskii, P.A., et al, (1980, p.41-48, rus) 35-2030
Variation in ice sheet thickness at Vostok and Vostok-1 Shumskii, P.A., et al, (1980, p.49-53, rus) 35-2031
Marine sediment core descriptions IWSOE 68, 69, 70: Deep Freeze 79 Anderson, J.B., et al, (1981, 60p, eng) 35-2148
Sedimentation in proglacial Sunwapta Lake, Alberta Gilbert, R., et al, (1981, p.81-93, eng) 35-2707
Lake sediment coring along Smith Sound, Ellesmere Island and Greenland Blake, W., Jr., (1981, p.191-200, eng) 35-3086
Microparticle concentration in the 905-meter Dome C core Mosley-Thompson, E., et al, (1980, p.71-75, eng) 35-3180
Characteristics of permafrost beneath the Beaufort Sea Sellmann, P.V., et al, (1981, p.125-157, eng) 35-3256
Subsea permafrost probing: thermal regime and data analysis Osterkamp, T.E., et al, (1981, p.497-677, eng) 35-3267
Ice core drilling on Dome C Lorius, C., et al, (1979, p.26-34, eng) 35-3369
911 years of microparticle deposition at the South Pole Mosley-Thompson, E., (1980, 134p, eng) 35-3809

Drilling

Admixtures for plugging cements in cold regions Batalov, D.M., et al, (1978, p.41-46, rus) 35-60
Heat release of cements hardening at subzero temperature Batalov, D.M., et al, (1978, p.46-50, rus) 35-61
Thermal expansion of frozen rocks Batalov, D.M., et al, (1978, p.51-55, rus) 35-62
Core sampler "Nedra" for permafrost Ermakov, V.P., (1978, p.120-124, rus) 35-63
Drilling and sampling in frozen ground Reimers, S., (1980, p.13-17, eng) 35-256
Soviets seeking to improve design of Arctic area rigs (1980, p.32, eng) 35-525
Exhibit of road construction equipment Zelentsova, I.I., (1980, p.40-44, rus) 35-611
Core drilling through Ross Ice Shelf Zotikov, I.A., et al, (1979, p.63-64, eng) 35-651
Contractor support Murphy, R.L., (1979, p.238-239, eng) 35-684
Mining of frozen iron ore in northern Quebec and Labrador Gatz, O.P., (1979, p.369-376, eng) 35-1051
Drilling through shelf ice near Novolazarevskaya Station Korotkevich, E.S., et al, (1979, 11p, eng) 35-1057
Studying ice cores from glacier boreholes Kotlyakov, V.M., et al, (1980, p.22-26, rus) 35-1222
Heat and mass transfer at the lower surface of the Ross Ice Shelf Zotikov, I.A., et al, (1980, p.27-36, rus) 35-1223
Boring core of ice taken from beneath the soil of a landslide Huzioka, T., et al, (1978, p.179-180, jap) 35-1555
Turbodrill penetration rate in permafrost Khomik, M.V., et al, (1980, p.27-29, rus) 35-1609
Oil and gas field development in permafrost areas Skorobogatov, V.A., (1980, p.70-71, rus) 35-1610
Mechanics of cutting and boring in permafrost Mellor, M., (1980, 82p, eng) 35-1892
Builder's guide to water and energy Seifert, R.D., et al, (1980, 78p, eng) 35-2021
Borehole compression in antarctic ice cover Shumskii, P.A., et al, (1980, p.54-58, rus) 35-2032
Horizontal cracks in deep ice cores from Vostok Station Portnov, V.G., (1980, p.75-79, rus) 35-2036
Drilling experiments with drilling fluids Zagrivnyi, E.A., et al, (1980, p.119-123, rus) 35-2045
Road construction for cold regions Gruzdev, V.V., (1981, p.33-35, rus) 35-2086
Drilling north of the Arctic Circle (1980, p.56-57, eng) 35-2139
Danish deep drill: progress report February-March 1979 Rand, J., (1980, 37p, eng) 35-2594
Thermometer used during permafrost drilling Zhu, G., et al, (1980, p.18-20, chi) 35-2654
Till-sampling methods used for sheelite in Kaustinen, Finland Lindmark, B., (1977, p.44-48, eng) 35-2724
Geophysical methods in thick overburden, Kolari, Finland Hattula, A., (1977, p.120-127, eng) 35-2731
Sampling of the till-bedrock interface in geochemical exploration Wennevirta, H., (1973, p.67-71, eng) 35-2744
Glaciation effect on migration and accumulation of hydrocarbons Tsarev, V.P., (1980, 213p., rus) 35-2955
Mechanical device for measuring the lake ice thickness Adams, W.P., et al, (1980, p.189-192, eng) 35-3160
Polar Ice Coring Office (PICO) drilling activities, 1979-80 Kuivinen, K.C., et al, (1980, p.76-77, eng) 35-3183
Beaufort seacoast permafrost studies Rogers, J.C., et al, (1981, p.1-44, eng) 35-3235
Heat transfer between permafrost and a well during drilling Rusakov, V.G., et al, (1981, p.134-140, rus) 35-3291
Rig foundations for deep drilling in the North. Bekotserkovskaia, G.V., (1981, p.12-13, rus) 35-3341

Drilling fluids

Ice melting in solutions of potassium salts Bykov, I.U., et al, (1980, p.11-13, rus) 35-632
Hot water drilling and coring on Ross Ice Shelf. Browning, J.A., et al, (1979, p.60-61, eng) 35-649
Turbodrill penetration rate in permafrost. Khomik, M.V., et al, (1980, p.27-29, rus) 35-1609
Drilling fluids in the Prudhoe Bay oil fields. (1980, p.31, eng) 35-2009
Drilling experiments with drilling fluids Zagrivnyi, E.A., et al, (1980, p.119-123, rus) 35-2045
Waste drilling fluid disposal on tundra French, H.M., (1980, p.794-806, eng) 35-2173
Heat transfer between permafrost and a well during drilling Rusakov, V.G., et al, (1981, p.134-140, rus) 35-3291
Conquering Alaska's Arctic drilling problems Pt 2 Drilling procedures Moore, S.D., (1981, p.90, 94, 96, 100, eng) 35-3639

Drills

UEBR-1000 drills designed for permafrost Tokar', M.G., et al, (1980, p.26-27, rus) 35-107
Offshore drilling of engineering-geological wells Arkhangel'skii, I.V., (1980, 263p, rus) 35-202
Portable drills for ice and frozen ground Belokonev, A., et al, (1979, p.78-79, rus) 35-336
Drilling equipment for frozen ground Bendler, A.I., (1980, p.3-5, rus) 35-387
Hot water drilling and coring on Ross Ice Shelf Browning, J.A., et al, (1979, p.60-61, eng) 35-649
BM-305 drill-crane for frozen ground Satsukevich, K.P., (1980, p.9-10, rus) 35-923
Loosening frozen ground by blasting Beloglazov, N.I., (1980, p.12, rus) 35-1026
Rigs in VANguard to slope (1980, p.12, 14, eng) 35-2007
Drilling-crane assembly BKTS-1 Kuianchuk, V.G., et al, (1981, p.25-27, rus) 35-3534

Drops (liquids)

On the rebound of supercooled droplets colliding with ice plate (2) Kajikawa, M., et al, (1979, p.93-102, eng) 35-516
Heat and mass transfer from freely falling drops at low temperatures Zaring, J.P., (1980, 14p, eng) 35-594
Rapid ice building examined in Alaska (1980, p.10, eng) 35-2857

Dry ice (trademark)

Mathematical model of ice aerosol evolution Bakhanov, V.P., et al, (1980, p.41-50, rus) 35-2990

Dry Valley Drilling Project

Dry Valley Drilling Project: summary of core storage Florida State University and sample distribution Cassidy, D.S., (1979, p.231-232, eng) 35-681

Drying

Equipment for pipeline construction in freezing weather Romanov, L.S., (1980, p.29-30, rus) 35-617
Preparation of gas from northern fields for distant transportation Gukhman, L.M., (1980, 161p, rus) 35-2949

Ducts

Mathematical modeling and experimental study of heat and mass transfer processes Bondarev, E.A., ed, (1979, 136p, rus) 35-233
Heat transfer between utility lines and frozen ground Bondarev, E.A., et al, (1979, p.62-70, rus) 35-235

Dust

Road dust along the Haul Road, Alaska Everett, K.R., (1980, p.101-128, eng) 35-1771
Short-term fluctuations in heavy metal concentrations in antarctic snow Landy, M.P., et al, (1981, p.144-146, eng) 35-3368
Growth conditions and vitality of *Sphagnum* in a tundra community along the Alaska pipeline haul road Spatt, P.D., et al, (1981, p.48-54, eng) 35-4050
Effects of surface dust on snowmelt rates. Drake, J.J., (1981, p.219-223, eng) 35-4094
Mineral in antarctic ice cores Miklishanskii, A.Z., et al, (1980, p.152-158, eng) 35-4148

Dust control

Artificial snow for dust control on roads Bitkolov, N.Z., et al, (1980, p.58-60, rus) 35-867
Dust control in northern mines Voronov, E.T., (1980, p.54-57, rus) 35-954
Sublimation and its control in the CRREL permafrost tunnel Johansen, N.I., (1981, 12p, eng) 35-3736

Dusting

Determining early dates for dusting snow cover Romanov, P.G., (1979, p.122-124, rus) 35-243
Dusting effect on ice and snow melting Denisov, I.U.M., (1980, p.67-72, 143-147, rus) 35-2819

Dynamic loads

Dynamic structural response of a massive pier Lipsett, A.W., et al, (1979, 47p, eng) 35-116
Railroad construction in seismic permafrost areas Pavlov, O.V., et al, (1980, p.164-173, rus) 35-140
Seismic stability of transport-related structures Napetvaridze, Sh.G., ed, (1980, 132p, rus) 35-144
Design of railroad bridges for earthquakes in permafrost areas Uzdin, A.M., et al, (1980, p.27-40, rus) 35-145
Modeling seismic stability of bridge piers Murusidze, R.Kh., et al, (1980, p.50-55, rus) 35-146
Ice flow through straits Pritchard, R.S., et al, (1979, p.61-74, eng) 35-163
Impact strength of frozen soils Vovk, A.A., et al, (1980, p.64-69, eng) 35-497
Clay slope stability under vibrodynamic loads Prokudin, I.V., (1980, p.37-39, rus) 35-1529
Deflection of a floating ice sheet subjected to a moving load. Pt 2 Takizawa, T., (1978, p.69-78, jap) 35-1542
Rational seasonal load restrictions and overload permits Connor, B., (1980, 52p., eng) 35-1681
Road bearing capacity in Norway Refsdal, G., (1980, 13p, eng) 35-1728

Dynamic loads *(cont.)*

Report on an ice crossing at Riverhurst during the winter of 1974-75 Eyre, D., et al. (1976. 109p + numerous figs., eng) **35-1842**

Guide for operating cars and light trucks on a floating ice sheet Johnson, P. (1980. 29p., eng) **35-2012**

Model for snow-slab failure under conditions of dynamic loading Johnson, J.B. (1980. p.245-254, eng) **35-2367**

Cyclic loading and fatigue in ice Mellor, M., et al. (1981. p.41-53, eng) **35-2417**

Dynamics of snow-skis Pizlali, R.I. (1970. 393p., eng) **35-4172**

Response of floating ice sheets to moving loads Beltaos, S. (1981. p.1-8, eng) **35-4217**

Calculating foundations on saturated bases for dynamic loads Krasnikov, N.D., et al. (1981. p.7-21, rus) **35-4288**

Dynamic properties

Wire regelation at low temperatures Gilpin, R.R. (1980. p.435-448, eng) **35-2153**

Identification of lower extremity dynamics during snow skiing Lee, C.W., et al. (1980. p.123-130, eng) **35-2154**

Symposium on Sea Ice Processes and Models, Seattle, Wa., 1977 Pritchard, R.S., ed. (1980. 474p., eng) **35-2167**

Stochastic dynamic analysis of polar sea ice variability Lemke, P., et al. (1980. p.2100-2120, eng) **35-2473**

Recent periglacial morphodynamics on Angmagssalik O., southeast Greenland Schunke, E. (1979. p.1-19, ger) **35-2642**

Application of airphoto in the study of periglacial geomorphic dynamics Liang, F., et al. (1980. p.72-73, chi) **35-2675**

Sakami moraine, Quebec: a 500-km-long moraine without climate control Hillaire-Marcel, C., et al. (1981. p.210-214, eng) **35-3138**

Mobile water phase on ice surfaces Kvlividze, V.I., et al. (1974. p.60-68, eng) **35-3628**

Dynamic of snow-skis Pizlali, R.I. (1970. 393p., eng) **35-4172**

Earth crust

Crustal movements and gravity variations related to ice load Dietrich, R. (1980. p.47-51, ger) **35-2433**

Earth dams

Frozen core earth dams Kronik, IA.A., et al. (1980. p.52-55, rus) **35-8**

Hydrothermal processes in freezing earth dams Khaglaev, E.P., et al. (1980. p.55-58, rus) **35-9**

Earth dam construction in permafrost areas Kuperman, V.I., et al. (1980. p.58-61, rus) **35-10**

Remote sensing for earth dam site selection and construction materials Merry, C.J., et al. (1980. p.158-170, eng) **35-153**

Dynamic sounding method of determining earth dam densities Tishin, V.G., et al. (1980. p.25, rus) **35-505**

Roadbeds on moist fines Knizhnik, G.B., et al. (1980. p.4-5, rus) **35-599**

Temperature fields of concrete and earth dams Zubkov, V.I. (1980. p.94-98, rus) **35-1035**

Dredging in freezing weather Popov, IU.A. (1980. p.98-104, rus) **35-1089**

Modeling water seepage in earth dams IAkovleva, T.G. (1979. p.43-54, rus) **35-1623**

Water seepage in flooded dams Ivanov, D.I. (1979. p.60-65, rus) **35-1625**

Reinforced concrete overflow-part of earth dams Pravdivets, IU.P. (1980. p.39-41, rus) **35-1639**

Earth dam subgrades not susceptible to frost heave Edapin, V.A. (1980. p.28-29, rus) **35-1642**

Embankment dams on permafrost in the USSR Johnson, T.C., et al. (1980. 59p., eng) **35-2005**

Passing ice over stone linings of spillways Pravdivets, IU.P. (1981. p.43-46, rus) **35-2099**

Washing-up soil in freezing weather Popov, IU.A., et al. (1980. p.103-108, rus) **35-2103**

Seismic stability of hydraulic earth structures. Krasnikov, N.D. (1981. 240p., rus) **35-2689**

Hydraulic models for studying temperature fields beneath embankments. Vasserman, S.N., et al. (1980. p.12-15, rus) **35-2779**

Moisture migration in earth dams. Chzhan, R.V., (1981. p.117-121, rus) **35-3289**

Possibility of artificial strengthening of clay soils Zhikhovich, V.V., (1981. p.7-11, rus) **35-3337**

Permafrost bases of earth dams. Myznikov, IU.N., et al. (1981. p.47-53, rus) **35-3339**

Synthetic fabrics for stabilizing slopes of earth structures Marchenko, A.S., (1981. p.5-6, rus) **35-3533**

Earth fills

Modeling water seepage in earth dams. IAkovleva, T.G., (1979. p.43-54, rus) **35-1623**

Wall-in-the ground method of building foundations and structures Smorodinov, M.I., et al. (1976. 129p., rus) **35-1718**

Construction and performance of frozen gravel fills. Tart, R.G., et al. (1981. p.693-704, eng) **35-2531**

Earth pressure on retaining wall built on frozen ground Novikov, F.IA., (1981. p.146-152, eng) **35-2841**

Foundation construction on peat soils. Konovalov, P.A., (1980. 161p., rus) **35-2997**

Roadbeds built of frost heave soils Dobrov, E.M., et al. (1980. p.3-4, rus) **35-3003**

Engineering studies of frozen ground Soil properties and the dynamics of cryogenic processes Gurianov, I.E., ed. (1981. 159p., rus) **35-3280**

Forecasting temperature regime of earth fill embankments Konstantinov, I.P., et al. (1981. p.121-134, rus) **35-3290**

Heat conductivity of washed up sandy ground Mandarov, A.A., et al. (1980. p.63-68, rus) **35-3317**

Equipment for building seepage fills Tkachevskii, I.D., et al. (1981. p.3-5, rus) **35-3532**

Synthetic fabrics for stabilizing slopes of earth structures Marchenko, A.S., (1981. p.5-6, rus) **35-3533**

Vapor condensation in hydraulically filled tailings Klimov, G.I., et al. (1980. p.57-62, rus) **35-3995**

Thermal interaction between buildings on base fills and frozen soil Tishin, V.G., (1981. p.240-244, eng) **35-4150**

Earth dams and embankment construction in permafrost areas Bezrukov, V.F., et al. (1981. p.18-19, rus) **35-4245**

Preparation of construction sites in cold regions Pavlov, V.I., et al. (1981. p.23-25, rus) **35-4246**

Earth orbits

Ice age theory and variation of the Earth orbit Xu, Q., (1980. p.53-57, chi) **35-127**

Earthquakes

Seismotectonics and seismicity of the Baykal-Amur railroad construction area Odintsov, M.M., ed. (1980. 204p., rus) **35-137**

Construction of the Baykal-Amur railroad Kalinichev, V.P., (1980. p.5-7, rus) **35-138**

Railroad construction in seismic permafrost areas Pavlov, O.V., et al. (1980. p.164-173, rus) **35-139**

Seismic stability of frozen fines Zarubin, N.E., et al. (1980. p.173-178, rus) **35-141**

Changes in seismic and permafrost conditions of developed areas Sharapov, V.G., (1980. p.179-190, rus) **35-142**

Mining problems in seismic permafrost areas Nikolaev, V.V., et al. (1980. p.191-197, rus) **35-143**

Seismic stability of transport-related structures Napetvaridze, Sh.G., ed. (1980. 132p., rus) **35-144**

Design of railroad bridges for earthquakes in permafrost areas Uzdin, A.M., et al. (1980. p.27-40, rus) **35-145**

Modeling seismic stability of bridge piers Murusidze, R.Kh., et al. (1980. p.50-55, rus) **35-146**

Modeling hard rock slope resistance to earthquakes Tselikov, F.I., et al. (1980. p.121-125, rus) **35-147**

International geological congress, 26th, 1979 Hydrogeology, engineering geology and construction materials. Reports of soviet geologists Kulikov, G.V., ed. (1980. 247p., rus) **35-1349**

Experimental Seismic forecasts in permafrost areas Solonenko, V.P., (1980. p.129-143, rus) **35-1350**

Manual for earthquake-resistant brick buildings (1976. 32p., rus) **35-1716**

Seismic stability of hydraulic earth structures. Krasnikov, N.D., (1981. 240p., rus) **35-2689**

Construction of seismically stable structures on permafrost. Kharitonov, V.A., (1980. 79p., rus) **35-2872**

Earthwork

Disc-cutter excavators for frozen ground Bobylev, V.A., (1980. p.30-31, rus) **35-98**

Construction of underwater pipelines from ice cover Vil'danov, R.T., (1980. p.34-35, rus) **35-315**

Frozen ground excavators. Revuka, V., et al. (1980. p.9, rus) **35-350**

Studying artificial freezing parameters for driving horizontal workings Nasonov, I.D., et al. (1980. 248p., rus) **35-384**

Maintaining ice-free areas around dredging shovels. Roshchupkin, D.V., et al. (1980, p.17-18, rus) **35-390**

Land reclamation in cold regions. Sevost'ianov, M.I., et al. (1980. p.2-4, rus) **35-444**

Bulldozers with additional blades for frozen ground. Kudaibergenov, R.K., et al. (1980, p.14, rus) **35-478**

Impact strength of frozen soils. Vovk, A.A., et al. (1980. p.64-69, eng) **35-497**

Dynamic sounding method of determining earth dam densities. Tishin, V.G., et al. (1980, p.25, rus) **35-505**

Improved equipment for frozen ground excavation. Bass, B.A., (1980. p.24-27, rus) **35-601**

Exhibit of road construction equipment Zelentsova, L.I., (1980. p.40-44, rus) **35-611**

Excavators and bulldozers for frozen ground. Lavrov, G.E., et al. (1980. p.25-27, rus) **35-626**

Hydro power plant construction in the USSR. IUrinov, D.M., ed. (1979. 597p., eng) **35-685**

Scraper for frozen ground Bezruchko, N.P., et al. (1980. p.33-34, rus) **35-779**

Blasting frozen ground. Frash, G.B., et al. (1980. p.20-22, rus) **35-782**

Construction of pile foundations on permafrost. Fedorovich, D., et al. (1980. p.42-45, rus) **35-929**

Blasting perennially frozen marls. Bertsov, V.G., et al. (1980. p.252-255, eng) **35-964**

Road construction in freezing weather. Tolpinskii, B.A., (1980. p.16-17, rus) **35-1024**

Hydropneumatic impact systems of working parts of mining and road construction machines. Saginov, A.S., et al. (1980. 199p., rus) **35-1149**

EO-3322B hammer for frozen ground Kotov, G.A., (1980. p.7-10, rus) **35-1356**

Tension resistant inclusions in soils Andrawes, K.Z., et al. (1980. p.1313-1326, eng) **35-1494**

Methodology for foundations on expansive clays O'Neill, M.W., et al. (1980. p.1345-1367, eng) **35-1495**

Railroad embankments on unstable slopes Basistov, M.A., (1980. p.5-7, rus) **35-1525**

Land reclamation work in freezing weather Cherniak, M.B., (1980. p.59-61, rus) **35-1641**

Instructions for designing walls and water resistant screens (1976. 33p., rus) **35-1714**

Wall-in-the ground method of building foundations and structures Smorodinov, M.I., et al. (1976. 129p., rus) **35-1718**

Excavation of frozen materials Moore, H.E., et al. (1980. p.323-345, eng) **35-1985**

Permafrost and construction work in Svalbard Mellerud, O.T., (1980. p.39-43, nor) **35-1992**

Artificial ground freezing equipment used in tunnel construction Gubenkov, E.K., et al. (1981. p.52-54, rus) **35-2084**

Road construction for cold regions Gruzdev, V.V., (1981. p.33-35, rus) **35-2086**

Construction machines designed for the North Shpiller, E.D., et al. (1981. p.54-55, rus) **35-2091**

New excavator types for permafrost areas (1981. p.65, rus) **35-2092**

Construction equipment for northern pipelines Osipov, V.N., (1981. p.15-16, rus) **35-2093**

Technology of pipeline construction in Siberia (1981. p.33-34, rus) **35-2095**

Scraper with adjustable cutting angle Vetrov, IU.A., et al. (1981. p.20-21, rus) **35-2096**

Cold weather performance of diesel excavators Khorosh, A.I., et al. (1981. p.23-24, rus) **35-2097**

Washing-up soil in freezing weather Popov, IU.A., et al. (1980. p.103-108, rus) **35-2103**

Some aspects of Soviet trenching machines Mellor, M. (1980. 13p., eng) **35-2597**

Road construction machines and equipment manual Bespalov, N.A., et al. (1980. 182p. (Pertinent p.13-17), rus) **35-2684**

Railroad construction in mountainous permafrost areas Podkaltuk, V.P., et al. (1981. p.3-4, rus) **35-2842**

Percussion-teeth shovel for frozen ground Solomonov, S.A., (1981. p.24-26, rus) **35-2846**

Cranes and excavators for permafrost areas (1981. p.12-14, rus) **35-2848**

Equipment for laying underground cables in permafrost Medorezov, I.A., et al. (1981. p.17-18, rus) **35-2852**

Construction of bulk plants and gasoline stations Groznov, G.A., et al. (1980. 332p. (Pertinent p.56-147), rus) **35-2873**

Research work on permafrost and engineering in the last 30 yrs., China Chen, S., et al. (1979. p.7-12, chi) **35-2896**

Engineering classification of aged frozen ground Wu, T., (1979. p.52-60, chi) **35-2903**

Research on a model of thermal treatment of frozen ground Chu, L., (1979. p.67-71, chi) **35-2905**

Roadbeds built of frost heave soils Dobrov, E.M., et al. (1980. p.3-4, rus) **35-3003**

Equipment for building seepage fills Tkachevskii, I.D., et al. (1981. p.3-5, rus) **35-3532**

Drainage construction in freezing weather Gontarenko, M.F., et al. (1980. p.43-45, rus) **35-3538**

Permafrost: Engineering design and construction Johnston, G.H., ed. (1981. 540p., eng) **35-3703**

Road construction manual for engineers Bochin, V.A., ed. (1980. 511p. (Pertinent p.367-498), rus) **35-3888**

Earthwork under urban construction conditions Sadakov, IU.P., et al. (1981. 256p., rus) **35-3962**

Hydraulic method of breaking up frozen soil Gol'din, IU.A., et al. (1981. p.35-38, eng) **35-4153**

Construction of underwater pipelines in West Siberia Basharat'ian, P.P., et al. (1981. p.32-33, rus) **35-4241**

Recommendations for pipeline construction in permafrost areas. (1981. p.36-38, rus) **35-4243**

Earth dams and embankment construction in permafrost areas. Bezrukov, V.F., et al. (1981. p.18-19, rus) **35-4245**

Optimization of earthwork planning Ratskevich, G.I., (1981. p.84-88, rus) **35-4289**

Echo sounding

Sea ice electrical properties measured with borehole radar and reflectometer Davis, J.L., (1980. p.155-187, eng) **35-551**

Technology of an airborne impulse radar Butt, K.A., et al. (1980. p.385-412, eng) **35-562**

Ecology

Snow in the biotic environment Moffatt, D., (1980. p.163-168, eng) **35-48**

Sewage disposal and environmental impact in winter Slaughter, R., et al. (1979. p.547-558, eng) **35-433**

Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979 (1980. 595p., eng) **35-846**

In vitro and nylon-bag digestibilities of reindeer and caribou forages Person, S.J., et al. (1980. p.613-622, eng) **35-848**

Climatic problems of mountainous regions in the USSR. Bagdasarian, A.B., (1980, p.29-36, rus) 35-1436

Vegetation of the European part of the USSR. Gribova, S.A., ed., (1980, 429p., rus) 35-1491

Migration and biological activity of natural radionuclides in northern biogeocenoses. Popova, O.N., ed., (1980, 179p., rus) 35-1514

Thermal effect on living organisms of taiga soils. Krivolutskii, D.A., et al., (1980, p.120-124, rus) 35-1517

Demographic features of a Lapland longspur population near Barrow, Alaska. Custer, T.W., et al., (1977, p.505-525, eng) 35-1682

Use of space by Lapland longspurs breeding in Arctic Alaska. Tryon, P.R., et al., (1980, p.509-520, eng) 35-1683

Studies in ecology and environmental protection in East Siberia. Kuchkova, O.M., (1980, p.96-104, rus) 35-1706

Arctic macrobenthos in tundra ponds. Butler, M., et al., (1980, p.297-309, eng) 35-1754

SUNDAY, a simulation model of an arctic Daphnia population. Stross, R.G., et al., (1979, p.349-362, eng) 35-1785

Mineral nutrition of brown lemmings. Barkley, S.A., et al., (1980, p.105-114, eng) 35-1786

Environmental impact of WW II debris cleanup in southern Alaska, (1979, 272p. + 1 Vol. of appends., eng) 35-1816

Environments of the Alaskan Continental Shelf, (1980, 313p., eng) 35-1827

James Bay hydro-electric project: environmental concerns, (1981, 45p., eng) 35-1882

Remarks on the stability of timberline. Ives, J.D., (1978, p.313-317, eng) 35-1904

Boreal ecosystem. Larsen, J.A., (1980, 500p., eng) 35-1913

Environmental assessment of the Alaskan continental shelf, IDP-EY81. Weller, G., coord., (1980, 166p., eng) 35-2018

Environmental assessment of the Alaskan continental shelf, IDP, EY81. Calder, J.A., coord., (1980, 209p., eng) 35-2019

Arctic animal ecology. Reimers, H., (1980, 250p., eng) 35-2023

Microbial ecology and decomposition in Arctic tundra and Subarctic taiga ecosystems. Flanagan, P.W., (1978, p.161-168, eng) 35-2177

Concepts of biogeocenoses, ecogenesis and other terms. Smagin, V.N., (1980, p.6-28, rus) 35-2475

Microbiology of cryogenic forest soils. Sorokin, N.D., (1980, p.113-130, rus) 35-2482

Ecological roles of river icings in the Tsichu River Valley, Northwest Territories, Canada. Gill, D., et al., (1981, p.119-125, eng) 35-3025

Plankton ecology in the arctic estuary of Chesterfield Inlet, N.W.T. Roff, J.C., et al., (1980, p.185-197, eng) 35-3079

Calculating allowable partial flow diversion from northern rivers. Pashchevskii, B.V., (1980, p.21-24, rus) 35-3108

Changes in river ice conditions due to powerplant construction. Bakhtin, N.P., (1980, p.45-46, rus) 35-3114

Nutritional ecology of microtine rodents in tundra, Alaska. Batzli, G.O., et al., (1980, p.483-499, eng) 35-3201

Ecology of ground squirrels near Atkasook, Alaska. Batzli, G.O., et al., (1980, p.501-510, eng) 35-3202

Environmental assessment of the Alaskan continental shelf, Vol. 7. Biological studies, (1981, 678p., eng) 35-3253

Multivariate comparisons of IBP Tundra Biome site characteristics. French, D.D., (1981, p.47-75, eng) 35-3376

Vegetation along the gas pipeline route, Yukon Territory. Stanek, W., (1980, 47p., eng) 35-3486

Proposed ecological natural landmarks in the Brooks Range, Alaska. Bliss, L.C., et al., (1981, 175p., eng) 35-3554

Bioengineering for land reclamation and conservation. Schiechtl, H., (1980, 404p., eng) 35-3595

Effects of the Trans-Alaska pipeline on caribou movements. Cameron, R.D., et al., (1980, 16p., eng) 35-3923

Breeding of Say's Phoebe in Arctic Alaska. Cade, T.J., et al., (1973, p.360-361, eng) 35-4008

Ecological research report, Volume 1: establishing a system for Alaska. Underwood, L.S., et al., (1979, 36p. + map, eng) 35-4163

Economic analysis

Cost of construction on permafrost areas. Kashtalap, R.N., (1980, p.21-23, rus) 35-1029

Economic development

Workers outposts in the North. Portianko, N.G., et al., (1980, p.11-12, rus) 35-1414

Problems of the North: a current bibliography, (1980, 3 volumes, rus) 35-858

Problems of the North, a current bibliography, (1980, 198p., rus) 35-859

Regional geographic forecast, Vol. 2: present state and basic trends in changes of natural environments. West Siberia. Makunina, A.A., ed., (1980, 206p., rus) 35-1269

Economic development of the Far North. Krasnopol'skii, B.Kh., (1980, 145p., rus) 35-1280

Role of glaciological investigations in the studies and development of mountainous regions. Kotlyakov, V.M., et al., (1980, p.37-40, rus) 35-1437

Altitudinal zonation of mountain vegetation in the USSR. Stanukovich, K.V., (1980, p.74-81, rus) 35-1440

Weather-forming factors and their role in bioclimatology. Pogosian, Kh.P., ed., (1980, 108p., rus) 35-1448

River water pollution in permafrost areas. Il'ev, D.N., et al., (1979, p.64-76, rus) 35-1521

Regionalization of the Baykal-Amur railroad zone. Nechaeva, I.G., et al., (1980, p.3-11, rus) 35-1628

Exogenic geologic processes and phenomena (Southern Yakutia). Ospennikov, E.N., et al., (1980, 227p., rus) 35-1701

Environmental protection in the Far North. Pavlov, A.V., (1980, p.23-28, rus) 35-1703

Developments in Alaska in 1979. Jones, B.C., (1980, p.1345-1355, eng) 35-1775

Industrial activities effect on natural conditions of the Far East. Nikol'skaia, V.V., (1976, p.89-95, rus) 35-1855

Permafrost stability and human activities. Kuznetsova, I.I., (1980, p.75-107, rus) 35-2192

Maps of engineering-geocryologic regionalization of the central Yamal Peninsula. Parmuzin, S.IU., et al., (1980, p.108-127, rus) 35-2193

Annual report, 1980, (1980, 32p., eng) 35-2241

Economic development of tundra soils. Konotovskii, A.K., (1980, p.17-18, rus) 35-2257

Community development in the circumpolar North. Rhoads, E.M., (1981, p.1-15, eng) 35-2497

Building the northern urban environment. Fletcher, R.H., (1981, p.71-87, eng) 35-2500

Economic development of Labrador due to oil recovery. House, J.D., (1980, p.353-397, eng) 35-3101

Environmental protection of the lower Ob' river area. Greshnova, E.V., (1980, p.136-137, rus) 35-3134

Permafrost investigations in economically developing areas of the USSR. Pavlov, A.V., ed., (1980, 183p., rus) 35-3305

Protection of northern environments. Mel'nikov, P.I., et al., (1980, p.3-8, rus) 35-3306

Landscape indications technique of forecasting permafrost conditions. Moskalenko, N.G., (1980, p.8-18, rus) 35-3307

Current extractive industrial development, North America. Bliss, L.C., et al., (1981, p.751-771, eng) 35-3399

Bristol Bay environment, a background study of available knowledge, (1974, 858p., eng) 35-3550

Water resources development, (1981, 52p., eng) 35-4010

Maritime services to support polar resource development, (1981, 78p., eng) 35-4042

Technical progress and production rate in the North. Egorov, E.G., ed., (1978, 162p., rus) 35-4108

Economic problems of regional technical policy in the North. Egorov, E.G., (1978, p.3-14, rus) 35-4109

Scientific-technical progress in the North. Vlasov, V.I., (1978, p.15-23, rus) 35-4110

Development of natural resources in the North. Vdovina, L.I., (1978, p.32-38, rus) 35-4112

Ecological research report, Volume 1: establishing a system for Alaska. Underwood, L.S., et al., (1979, 36p. + map, eng) 35-4163

Economic development of the North. Gromov, N.N., et al., (1981, p.25-30, rus) 35-4287

Ecosystems

Structure and plant communities in East European forest tundra. Norin, B.N., (1979, 200p., rus) 35-150

Vegetation and soils of subarctic tundra. Andreev, V.N., ed., (1980, 209p., rus) 35-282

Vegetation of the lower Kolyma tundra. Andreev, V.N., et al., (1980, p.5-43, rus) 35-283

Tussock-forming sedge in tundra swamps. Egorova, A.A., (1980, p.44-65, rus) 35-284

Spore-pollen analysis of recent tundra deposits. Savvinova, G.M., (1980, p.85-91, rus) 35-287

Algae in thermokarst lakes. Vasil'eva, I.I., et al., (1980, p.92-104, rus) 35-288

Micromycete fungi of northeastern Yakutia, Pt.1. Shkarupa, A.G., (1980, p.105-123, rus) 35-289

Bushy lichens of tundra. Rykova, IU.V., (1980, p.124-139, rus) 35-290

Mosses of tundra swamps. Stepanova, N.A., (1980, p.140-157, rus) 35-291

Phytocenotic structure of larch forest tundras. Norin, B.N., (1979, p.1553-1566, rus) 35-346

Moss and lichen vegetation in northern forest steppes. Afonina, O.M., et al., (1980, p.66-82, rus) 35-393

Taiga vegetation in the European USSR. Gusev, IU.D., (1980, p.249-255, rus) 35-394

Alpine soil factors in disturbance and revegetation. Burns, S.F., (1980, p.210-227, eng) 35-592

Impact of elk on alpine tundra in Rocky Mountain National Park. Stevens, D.R., (1980, p.228-241, eng) 35-593

Bibliography of the publications on the Alaskan continental shelf, (1980, 177p., eng) 35-847

Botanical geography of Altai. Ogureeva, G.N., (1980, 192p., rus) 35-876

Control of recoverable natural resources of the Far North, USSR. Gel'berg, M.G., et al., (1980, 45p., eng) 35-979

Nutritional ecology of microtine rodents: digestibility of forage. Batzli, G.O., et al., (1979, p.740-750, eng) 35-989

Grazing effect on tundra vegetation. Polezhaev, A.N., (1980, p.5-13, rus) 35-1036

Biology of the Central Arctic Basin. Vinogradov, M.E., ed., (1980, 260p., rus) 35-1312

Pelagic zone ecosystems of the Arctic Basin. Vinogradov, M.E., et al., (1980, p.5-14, rus) 35-1313

Ecosystem of Arctic drift ice. Mel'nikov, I.A., (1980, p.61-97, rus) 35-1317

Diversion of a part of the Irtysh River waters. Petrov, I.B., (1980, p.110-114, rus) 35-1339

World of ice: the natural history of the frozen regions. John, B.S., (1979, 120p., eng) 35-1348

Biogeocenoses of the Taymyr Tundra. Tomilin, B.A., ed., (1989, 256p., rus) 35-1401

Research projects of the *Tareia* station in Taymyr tundra. Tomilin, B.A., (1980, p.3-25, rus) 35-1402

Fructification of tundra plants. Khodachek, E.A., (1980, p.118-130, rus) 35-1408

Types of cotton grass in Taymyr tundra. Polozova, I.G., (1980, p.131-144, rus) 35-1409

Larch in taiga and forest tundra of Siberia. Il'ina, I.S., (1980, p.28-44, rus) 35-1426

Swamps of the West Siberian plain. Liss, O.L., et al., (1980, p.95-112, rus) 35-1444

Spaceborne photography data for land reclamation. Vostokova, E.A., et al., (1980, p.159-167, rus) 35-1447

IBP PT Tundra Biome Project: Objectives, planning, site. Sonesson, M., et al., (1980, p.7-25, eng) 35-1471

Mapping vegetational resources of permafrost areas. Geleta, I.F., et al., (1980, p.114-124, rus) 35-1707

Limnology of tundra ponds. Hobbie, J.E., ed., (1980, 514p., eng) 35-1747

Major findings of the IBP study about arctic ponds. Hobbie, J.E., (1980, p.1-18, eng) 35-1748

Description of tundra ponds. Hobbie, J.E., (1980, p.19-50, eng) 35-1749

Boreal ecosystem. Larsen, J.A., (1980, 500p., eng) 35-1913

Arctic ecosystem: the coastal tundra at Barrow, Alaska. Brown, J., ed., (1980, 571p., eng) 35-1929

Coastal tundra at Barrow. Brown, J., et al., (1980, p.1-29, eng) 35-1930

Climate, snow cover, microclimate and hydrology at Barrow, Alaska. Dingman, S.L., et al., (1980, p.30-65, eng) 35-1931

Biophysical processes and primary production. Miller, P.C., et al., (1980, p.66-101, eng) 35-1932

Tundra soil microflora. Bunnell, F.L., et al., (1980, p.255-290, eng) 35-1937

Herbivore-based trophic system in coastal tundra. Batzli, G.O., et al., (1980, p.335-410, eng) 35-1939

Carbon and nutrient budgets and their control in coastal tundra. Chapin, F.S., III, et al., (1980, p.458-482, eng) 35-1941

Geobotanical atlas of the Prudhoe Bay region, Alaska. Walker, D.A., et al., (1980, 69p., eng) 35-2150

Microbial ecology and decomposition in Arctic tundra and Subarctic taiga ecosystems. Flanagan, P.W., (1978, p.161-168, eng) 35-2177

Production, assimilation and accumulation of organic matter in ecosystems. Batzli, G.O., (1974, p.205-217, eng) 35-2242

Implications of alternative national energy policies for tundra ecosystems. Schofield, E.A., (1980, p.274-296, eng) 35-2316

Floodplain biomass of northern rivers. Druzhinina, N.P., (1979, p.76-89, rus) 35-2325

Dynamics of forest biogeocenoses in Siberia. Smagin, V.N., ed., (1980, 208p., rus) 35-2474

Concepts of biogeocenoses, ecogenesis and other terms. Smagin, V.N., (1980, p.6-28, rus) 35-2475

Taiga vegetation development in Holocene. Savina, L.N., (1980, p.28-53, rus) 35-2476

Revegetation in mountain taiga. Nazimova, D.I., et al., (1980, p.54-87, rus) 35-2477

Larch phytocenoses in mountain taiga. Korotkov, I.A., et al., (1980, p.87-97, rus) 35-2478

Microbiology of cryogenic forest soils. Sorokin, N.D., (1980, p.113-130, rus) 35-2482

Meadows of the forest tundra river Yun'-Yakhi. Bratenkova, E.S., et al., (1971, p.5-7, rus) 35-2605

Tundra and analogous soils. Everett, K.R., et al., (1981, p.139-179, eng) 35-2705

Ecosystem models of an arctic pond. Hobbie, J.E., et al., (1978, p.105-109, eng) 35-2950

Ecological roles of river icings in the Tsichu River Valley, Northwest Territories, Canada. Gill, D., et al., (1981, p.119-125, eng) 35-3025

Distribution of biological soils of arctic lake coast. Adams, W.P., (1980, p.1-18, eng) 35-3143

Two low Arctic vegetation maps near Atkasook, Alaska. Komarková, V., et al., (1980, p.447-472, eng) 35-3199

Forage consumption by reindeer and caribou near Atkasook, Alaska. White, R.G., et al., (1980, p.511-529, eng) 35-3203

Biological studies on the Alaskan continental shelf, 1980, (1981, 359p., eng) 35-3252

Tundra ecosystems: a comparative analysis. Bliss, L.C., ed., (1981, 813p., eng) 35-3373

Ecosystems *(cont.)*

North American and Scandinavian tundras and polar deserts. Bliss, L.C., [1981. p.8-24, eng] **35-3374**

Geobotanical division of the Soviet Arctic. Andreev, V.N., et al., [1981. p.25-34, eng] **35-3375**

Introduction to abiotic components in tundra. Brown, J., [1981. p.79, eng] **35-3377**

Hydrology of northern tundra. Ryden, B.E., [1981. p.115-137, eng] **35-3379**

Simulation approach to primary production. Jones, H.E., et al., [1981. p.239-256, eng] **35-3382**

Herbivory: a strategy of tundra consumers. Batzli, G.O., et al., [1981. p.559-575, eng] **35-3385**

Populations and energetics of small mammals in the tundra ecosystem. Batzli, G.O., [1981. p.477-496, eng] **35-3386**

Ungulates on arctic ranges. White, R.G., et al., [1981. p.397-483, eng] **35-3387**

Predatory birds and mammals. Fitzgerald, B.M., [1981. p.485-508, eng] **35-3388**

Invertebrate faunas at IBP tundra sites. Ryan, J.K., [1981. p.517-539, eng] **35-3390**

Invertebrate herbivory at tundra sites. Haukioja, E., [1981. p.547-555, eng] **35-3391**

Microflora of tundra. Holding, A.J., [1981. p.561-585, eng] **35-3392**

Ecosystem synthesis: a "fairytale." Bunnell, F.L., [1981. p.637-646, eng] **35-3394**

Nutrients in tundra ecosystems. Dowding, P., et al., [1981. p.647-683, eng] **35-3395**

Carbon flux in tundra by using simulation models. Bunnell, F.L., et al., [1981. p.685-715, eng] **35-3396**

Conservation of the tundra. Sage, B., [1981. p.731-746, eng] **35-3397**

Influence of man on tundra vegetation. Andreev, V.N., [1981. p.747-750, eng] **35-3398**

Point Barrow, Alaska, USA. Brown, J., [1981. p.775-776, eng] **35-3400**

Prudhoe Bay, Alaska, USA. Walker, D.A., [1981. p.776-777, eng] **35-3401**

Eagle Summit, Alaska, USA. Anderson, J.H., et al., [1981. p.779-780, eng] **35-3402**

Niwot Ridge, Colorado, USA. Webber, P.J., [1981. p.780-782, eng] **35-3403**

Energy exchange at the surface of the alpine tundra. Skartveit, A., [1976. 147p., eng] **35-3522**

Alaska coastal bibliography and index statewide. [1980. 407p., eng] **35-3553**

Regularities governing the formation of elementary geosystems (the central taiga structures of Sov'yuinskoe Pinoble as an example). Mikheev, V.S., ed. [1978. 124p., rus] **35-3819**

Relations between different components of taiga geosystems. Kuz'menko, E.I., [1978. p.9-21, rus] **35-3820**

Density of taiga stand and the young growth. Kuz'menko, E.I., [1978. p.22-42, rus] **35-3821**

Interrelations between the components of forest and swamp ecosystems in the central taiga of the Ural area. Vasilevich, V.I., ed. [1980. 256p., rus] **35-3863**

New data on the phytogeography of Siberia. Krasnoborov, I.M., et al., [1981. 232p., rus] **35-3889**

Ecologic and geographic distribution of taiga plants. Beghanova, M.I., et al., [1981. p.37-52, rus] **35-3892**

Mosci of the Altai-Sayan highlands. Gudoshnikov, S.V., [1981. p.52-60, rus] **35-3893**

Tundra and taiga vegetation in the Tuva ASSR. Krasnoborov, I.M., [1981. p.112-119, rus] **35-3894**

High altitude vegetation of Sayan Mountains. Danilov, M.P., [1981. p.119-133, rus] **35-3895**

Flora of pine forests in central Tuva. Shaulo, D.N., [1981. p.197-210, rus] **35-3896**

Productivity of high altitude grass communities in the central Caucasus. Nakhutsrishvili, G.Sh., et al. [1980. 159p., rus] **35-3899**

Organization of spruce ecosystems in southern taiga. Isakov, Yu.A., ed. [1979. 220p., rus] **35-4117**

Vegetation of the Valday taiga. Glazov, M.V., [1979. p.10-29, rus] **35-4118**

Reforestation of the Valday taiga. Tishkov, A.A., [1979. p.30-69, rus] **35-4119**

Transition zone between taiga and swamps. Armand, A.D., [1979. p.194-213, rus] **35-4125**

Mathematical models on ecological systems. Tiwari, J.L., [1979. p.167-193, eng] **35-4234**

Alpine bird communities of western North America. Braun, C.E., [1980. p.280-291, eng] **35-4235**

Semipalmated Sandpiper in Alaska: reproductive strategies and tactics. Safriel, U.N., [1980. p.425, eng] **35-4236**

Breeding territories of Lapland Longspurs, arctic Alaska. [illegible] **35-4237**

Education

Avalanche education for skiers. Valla, F., [1980. p.105-107, eng] **35-2353**

Avalanche warning system and public education program for Alaska. Hackett, S.W., et al. [1980. p.497-500, eng] **35-2390**

Elastic properties

Deformation of loess beneath foundations. Tugaenko, Yu.F., et al. [1980. p.85-97, rus] **35-231**

Concrete properties in relation to extended freeze-thaw cycles. Pigeon, M., et al. [1980. p.407-420, fre] **35-834**

Electric charge

Collecting aerosols on ice crystals using electric charges. Martin, J.J., et al. [1980. p.44-56, eng] **35-1676**

Field-controlled ionic charging of ice crystals. Richards, W.G., et al. [1981. p.3199-3202, eng] **35-3370**

Electrical processes in atmospheres. [1977. 865p., eng] **35-3775**

Electric charge current due to drifting snow. Itagaki, K., [1977. p.211-216, eng] **35-3776**

Electrification by collisions of ice particles on ice or metal targets. Buser, O., et al. [1977. p.294-301, eng] **35-3777**

Melting electrification of single ice particles in simulated free fall. Martin, P.F., et al. [1977. p.302-308, eng] **35-3778**

Interactions of freely-falling ice crystals. Saunders, C.P.R., [1977. p.309-313, eng] **35-3779**

Charging mechanism of snowflakes and soft hail. Kikuchi, K., [1977. p.315-321, eng] **35-3780**

Lightning from ice crystals and colliding raindrops. Crabb, J.A., et al. [1977. p.618-622, eng] **35-3781**

Electrostatics and the Arctic environment [1]. Davey, C.T., [1976. p.1-8, eng] **35-3792**

Electric equipment

Drilling experiments with drilling fluids. Zagrivnyi, E.A., et al. [1980. p.119-123, rus] **35-2045**

Mechanized water preparation at Vostok. Zagrivnyi, E.A., et al. [1980. p.124-127, rus] **35-2046**

Reliability of electrical equipment under northern conditions. Men'shov, B.G., et al. [1980. p.25, rus] **35-3011**

Construction and operation of electrical installations in permafrost regions. Korzh, N.A., [1981. p.74-76, rus] **35-3484**

Electrical grounding in the Far North. Al'tshuler, E.B., [1981. p.55-59, rus] **35-3485**

Electrical methods of measuring low temperatures. Vepřek, J., [1980. 184p., cze] **35-3506**

Electrical grounding in permafrost. Al'tshuler, E.B., [1980. p.34-35, rus] **35-3535**

Electric fields

Electro-thermo-mechanical excavators. Rikenglaz, L.E., et al. [1980. p.47-51, rus] **35-636**

Influence of electro-freezing on power line icing. Phan, C.L., et al. [1981. p.15-25, eng] **35-2415**

Electrical processes in atmospheres. [1977. 865p., eng] **35-3775**

Electric charge current due to drifting snow. Itagaki, K., [1977. p.211-216, eng] **35-3776**

Interactions of freely-falling ice crystals. Saunders, C.P.R., [1977. p.309-313, eng] **35-3779**

Charging mechanism of snowflakes and soft hail. Kikuchi, K., [1977. p.315-321, eng] **35-3780**

Lightning from ice crystals and colliding raindrops. Crabb, J.A., et al. [1977. p.618-622, eng] **35-3781**

Electrostatics and the Arctic environment [1]. Davey, C.T., [1976. p.1-8, eng] **35-3792**

Effect of electric currents on ice crystal nucleation. Shichiri, T., et al. [1981. p.207-210, eng] **35-3850**

Electric heating

Electrically heated concrete mixtures. Arben'ev, A.S., [1980. p.87-91, rus] **35-1088**

Heat treatment of unstable clay slopes. Il'Urdanov, A.P., [1980. p.39-40, rus] **35-1530**

Method for snow and ice removal. Manzano, B.B., [1974. 61p., eng] **35-1563**

Mechanized water preparation at Vostok. Zagrivnyi, E.A., et al. [1980. p.124-127, rus] **35-2046**

Construction machines designed for the North. Shpiller, E.D., et al. [1981. p.54-55, rus] **35-2091**

Electric heating for freeze protection of water systems. Tracey, R.W., [1980. p.263-287, eng] **35-2123**

Electric heat tracing and energy conservation for northern installations. Johnson, B.C., et al. [1980. p.288-309, eng] **35-2124**

Electric power

Frozen core earth dams. Kronik, Ia.A., et al. [1980. p.52-55, rus] **35-8**

Hydrothermal processes in freezing earth dams. Khagleev, E.P., et al. [1980. p.55-58, rus] **35-9**

Winter maintenance of power stations. Starostin, L., [1980. p.18, rus] **35-349**

Public works, Deep Freeze 79. Evans, R.L., [1979. p.235-237, eng] **35-683**

Hydro power plant construction in the USSR. Il'inov, D.M., ed. [1979. 597p., eng] **35-685**

Water balance of the Bratsk reservoir. Geta, R.I., [1978. 134p., rus] **35-811**

Military diesel power plants in the Arctic. Kochin, B. [illegible] **35-972**

Burning coal in Alaska—a winter experience. Abegg, F., [1980. 9p., eng] **35-1187**

Giant power plant in the Sayan Mountains. Mikhailov, L.P., et al. [1980. 104p., rus] **35-1271**

Power plant construction in the North. Fain, I.I., [1980. p.63-66, rus] **35-1298**

Classification of taiga soils for construction and agriculture. Grishin, I.A., et al. [1979. p.95-111, rus] **35-1522**

Construction of hydroelectric developments in the North. Belnakov, A.A., et al. [1980. p.68-72, rus] **35-1636**

James Bay hydro-electric project, environmental concerns. [1981. 45p., eng] **35-1882**

Dynamics of temperature field of the dam of the Vilyuy hydroelectric power plant. Olovin, B.A., et al. [1980. 48p., rus] **35-2049**

Steel for air temperature below -40C. Belov, L.F., et al. [1981. p.6-7, rus] **35-2076**

Construction machines designed for the North. Shpiller, E.D., et al. [1981. p.54-55, rus] **35-2091**

South African iceberg power and water project. DeMarle, D.J., [1980. p.129-133, eng] **35-2218**

Turbines for Siberia and the Far East. Shchegolev, G.S., et al. [1980. 135p., rus] **35-2447**

Electrical installations of the "Kapitan M. Izmailov" type icebreakers. Bykov, A.S., et al. [1980. p.31-33, rus] **35-2635**

Electrification of oil and gas industry in West Siberia. Novoselov, Iu.B., et al. [1980. 182p., rus] **35-2687**

Hydroelectric power plants in the Baykal-Amur railroad area. Sherman, I.B., [1980. 89p., rus] **35-2688**

Glacier runoff related to Columbia River hydroelectric power generation. Tangborn, W.V., [1980. p.62-67, 140-143, rus] **35-2818**

Changes in river ice conditions due to powerplant construction. Bakhtin, N.P., [1980. p.45-46, rus] **35-3114**

Water resources and hydroelectric projects, Alaska river basins. [1981. 32p. + map, eng] **35-3140**

Construction of the Trans-Siberian Railroad System. Paul', V.P., [1980. 67p., rus] **35-3548**

Concrete dam of the Ust'-Ilim hydroelectric power plant (Field observations and studies). Eidel'man, S.Ia., et al. [1981. 137p., rus] **35-3898**

Timan-Pechora regional industrial complex. Podoplelov, V.P., ed. [1979. 144p., rus] **35-4104**

Cost of power plant construction in the North. Kalinina, A.A., [1979. p.68-75, rus] **35-4105**

Power supply to the Baykal-Amur railroad. Petrov, N.K., [1981. p.2-5, rus] **35-4226**

Construction of steam power stations in the North. Takh, M.G., [1981. p.26-28, rus] **35-4229**

Inflatable structures in power engineering. Kul'nev, A.N., [1981. p.32-36, rus] **35-4230**

Building earth dams in swamps. Bessonov, A.V., [1981. p.37-38, rus] **35-4231**

Transmission line supports for swamps. IAkunin, I.I., et al. [1981. p.44-47, rus] **35-4232**

Construction of tall gravity dams in the North. Efimenko, A.I., et al. [1981. p.4-11, rus] **35-4280**

Cranes used in arch dam construction in the North. Kuperman, V.L., et al. [1981. p.12-15, rus] **35-4281**

Winter concreting. Sadovskii, S.I., et al. [1981. p.19-21, rus] **35-4283**

Electrical grounding

Electrical grounding in permafrost areas. Selivanov, A.G., et al. [1980. p.64-66, rus] **35-598**

Lightning protection in permafrost areas. Erofeev, A.A., et al. [1980. p.77, rus] **35-606**

Power line deicing. Vavilova, I.V., et al. [1979. p.40-44, rus] **35-607**

Electrical grounding in gas field installations. Men'shov, B.G., et al. [1980. p.33-36, rus] **35-628**

Design of electrical grounding for permafrost areas. Men'shov, B.G., et al. [1980. p.35-37, rus] **35-629**

Problems in meteorology and hydrology of Siberia. [1976. 218p., rus] **35-1189**

Studying thunderstorms along buried communication cables in permafrost areas with lightning flash counters. Par'ev, N.S., et al. [1976. p.26-31, rus] **35-1190**

Single wire ground return transmission for rural Alaska. Bettine, F.J., et al. [1981. p.409-424, eng] **35-2515**

Electrification of oil and gas industry in West Siberia. Novoselov, Iu.B., et al. [1980. 182p., rus] **35-2687**

Construction and operation of electrical installations in permafrost regions. Korzh, N.A., [1981. p.74-76, rus] **35-3484**

Electrical grounding in the Far North. Al'tshuler, E.B., [1981. p.55-59, rus] **35-3485**

Electrical grounding in permafrost. Al'tshuler, E.B., [1980. p.34-35, rus] **35-3535**

Electrical properties

Freezing potentials in wet clays. 1. Early results. Hanley, T.O., et al. [1980. p.163-168, eng] **35-731**

Freezing potentials in wet clays. 2. Specific systems. Rao, S.R., et al. [1980. p.169-175, eng] **35-732**

Electrical grounding in permafrost. Al'tshuler, E.B., [1980. p.34-35, rus] **35-3535**

Electrical prospecting

Methods and data of frequency electrosounding data. Il'ina, E.P., [1974. p.86-88, eng] **35-2398**

Electrical resistivity

Dipolar correlation factor and permittivity of ice IV and V. Johari, G.P., [1980. p.241-255, eng] **35-249**

Electrical resistivity measurements in permafrost. Osterkamp, T.E., et al. [1980. p.277-286, eng] **35-745**

Electrical conductivity of ice from a pond near Showa Station. Nishimura, J., et al. [1978. p.67-76, jap] **35-1176**

Proton mobility in ice — Kunst, M., et al., [1980, p.465-467, eng] **35-1370**

Electromagnetic properties

Dependence of sea ice refraction on specific attenuation — Khokhlov, G.P., [1980, p.15-17, rus] **35-362**

Proceedings, [1980, 505p., eng] **35-545**

Electromagnetic properties of sea ice — Bogorodskii, V.V., [1980, p.23-51, eng] **35-547**

Physical properties of sea ice and under-ice current orientation — Kovacs, A., et al., [1980, p.109-153, eng] **35-550**

Modeling of anisotropic electromagnetic reflection from sea ice — Golden, K.M., et al., [1980, p.247-294, eng] **35-554**

Microwave measurements of salt thickness — Unterberger, R.R., [1980, p.331-347, eng] **35-558**

Active methods for sea ice thickness measurements — Bogorodskii, V.V., [1980, p.361-372, eng] **35-560**

Review of techniques for measuring soil moisture *in situ* — McKim, H.L., et al., [1980, 17p., eng] **35-976**

Modeling of anisotropic electromagnetic reflection from sea ice — Golden, K.M., et al., [1980, 15p., eng] **35-1722**

Sea ice anisotropy, electromagnetic properties and strength — Kovacs, A., et al., [1980, 18p., eng] **35-1891**

Snow stratigraphy and snow water equivalence — Ellerbruch, D.A., et al., [1980, p.225-233, eng] **35-2365**

Arctic stratus clouds and reflection effects on irradiance — Wendler, G., et al., [1981, p.2049-2057, eng] **35-3276**

Electromagnetic prospecting

Cryogenic phenomena in Kazakhstan and Central Asia — Gorbunov, V.P., ed., [1979, 145p., rus] **35-185**

Vertical electric sounding of permafrost — Nemov, A.I., [1979, p.112-122, rus] **35-193**

Electrical properties of Arctic sea ice — Bogorodskii, V.V., et al., [1980, p.6-14, rus] **35-361**

Geophysical methods of studying permafrost in the USSR — Akimov, A.I., et al., [1980, 51p., rus] **35-1928**

Microwave remote sensing of snow and soil moisture — Tsang, L., et al., [1980, p.3465-3485, eng] **35-2410**

Case history of a Swedish uranium deposit — Gustafsson, B., et al., [1977, p.72-79, eng] **35-2726**

Conductive ground effects on electromagnetic survey methods — Peltoniemi, M., [1977, p.89-103, eng] **35-2728**

Geophysical methods in thick overburden, Kolari, Finland — Hattula, A., [1977, p.120-127, eng] **35-2731**

Electron microscopy

Electron microscopy study of snowflakes — Sattin, A., et al., [1980, p.39-43, eng] **35-817**

Electronic equipment

Snow water content measured by airplane, [1980, p.497-498, eng] **35-895**

Electronic device for permafrost studies — Liu, G., [1980, p.29-30, chi] **35-2659**

Mixing oil with ice — Manning, A.P., Jr., [1981, p.185-189, eng] **35-3737**

Embankments

Eliminating frost heave on railroads — Lukanin, A.M., [1980, p.25, rus] **35-7**

Pipeline construction in permafrost areas — Rudnik, V.F., [1980, p.32, rus] **35-99**

Protection of embankment slopes in permafrost areas — Vorotnikov, V.S., et al., [1980, p.3-5, rus] **35-104**

Concrete plates for protecting slopes in cold regions — Rudin, I.N., [1980, p.17-19, rus] **35-105**

Stability of tailing embankments — Ogloblin, V.F., et al., [1980, p.68-71, rus] **35-230**

Modeling the strength and stability of roadbeds — Akovleva, I.G., et al., [1980, 255p., rus] **35-281**

Cements for swamp soil stabilization — Vasil'eva, M.P., et al., [1980, p.23-24, rus] **35-313**

Screening effect of tailings under permafrost conditions — Pechenin, R.I., et al., [1979, p.6-7, rus] **35-352**

Dynamic sounding method of determining earth dam densities — Tishin, V.G., et al., [1980, p.25, rus] **35-505**

Roadbeds on moist fines — Kuz'hnik, G.B., et al., [1980, p.4-5, rus] **35-599**

Modern methods of road construction — Smirnov, I.V., [1980, p.45-47, rus] **35-609**

Construction of the Baykal Amur railroad — Smirnov, I.V., [1980, p.44-47, rus] **35-610**

Railroad embankments on unstable slopes — Basistov, M.A., [1980, p.5-7, rus] **35-1525**

Clay slope stability under vibrodynamic loads — Prokudin, I.V., [1980, p.37-39, rus] **35-1529**

Modeling water seepage in earth dams — Akovleva, I.G., [1979, p.43-54, rus] **35-1623**

Models for studying flooding of earth dams — Ivanov, D.I., [1979, p.55-59, rus] **35-1624**

Embankment dams on permafrost in the USSR — Johnson, T.C., et al., [1980, 59p., eng] **35-2005**

Preventing thermokarst processes in road construction areas — Merenkov, N.D., [1981, p.3-4, rus] **35-2075**

Drainage systems for embankments on permafrost — Solov'ev, G.P., et al., [1981, p.9-11, rus] **35-2077**

Road construction in naled areas — Sevskii, S.D., [1981, p.41-42, rus] **35-2087**

Filter dam-culvert combinations for permafrost areas — Rabukhin, I.G., [1981, p.47-48, rus] **35-2089**

Roadbed design for permafrost areas — Mikhailov, G.D., [1981, p.12-15, rus] **35-2098**

Seismic stability of hydraulic earth structures — Krasnikov, N.D., [1981, 240p., rus] **35-2689**

Hydraulic models for studying temperature fields beneath embankments — Vasserman, S.N., et al., [1980, p.12-15, rus] **35-2779**

Railroad construction in mountainous permafrost areas — Podkalnik, V.P., et al., [1981, p.3-4, rus] **35-2842**

Engineering studies of frozen ground — Soil properties and the dynamics of cryogenic processes — Gutarov, I.F., ed., [1981, 159p., rus] **35-3280**

Forecasting temperature regime of earth till embankments — Konstantinov, I.P., et al., [1981, p.121-134, rus] **35-3290**

Permafrost changes beneath pipelines — Turbina, M.I., [1980, p.31-36, rus] **35-3310**

Heat conductivity of washed up sandy ground — Mandarov, V.V., et al., [1980, p.63-68, rus] **35-3317**

Construction of the Trans-Siberian Railroad System — Paul', V.P., [1980, 167p., rus] **35-3548**

Building earth dams in swamps — Bessonov, V.V., [1981, p.37-38, rus] **35-4231**

Earth dams and embankment construction in permafrost areas — Bezrukov, V.F., et al., [1981, p.18-19, rus] **35-4245**

Engine starters

Time to end hard wintertime starting, [1981, p.48, eng] **35-2562**

Engineering

Discussion about "Permafrost classification for engineering" — Zhang, C., [1980, p.58-60, chi] **35-128**

Conference on Computer and Physical Modeling in Hydraulic Engineering, 1980 — Ashton, G.D., ed., [1980, 492p., eng] **35-255**

River ice in hydrotechnical engineering — a review of selected topics — Gerard, R., [1979, p.1-29, eng] **35-404**

Theory and application of ground freezing in civil engineering — Jessberger, H.L., [1980, p.3-27, eng] **35-815**

Projects for transportation technology in Canada, 1979, [1980, 85p., eng] **35-840**

Geotechnical conditions during the trans-Alaska pipeline construction — Tuschel, I., et al., [1979, p.128-133, eng] **35-1112**

Slope processes control in mountains — Tushinskii, G.K., et al., [1980, p.66-73, rus] **35-1439**

Haul Road performance and associated investigations in Alaska — Berg, R.L., [1980, p.53-100, eng] **35-1770**

Offshore engineering information sources — Whittick, J.V., [1980, 34p., eng] **35-1879**

Permafrost and human activities in the Arctic and Subarctic — Pewe, T.L., [1979, p.333-344, eng] **35-1952**

Permafrost engineering research on Spitsbergen — Gregersen, O., [1980, p.3-6, eng] **35-1988**

Northern community - a search for a quality environment, [1981, 78&p., eng] **35-2496**

Urban design lessons for Alaska — Morehouse, R.K., et al., [1981, p.16-23, eng] **35-2498**

Environmental constraints on technology — Atkins, J.L., [1981, p.208-224, eng] **35-2505**

Protecting structures from frost damage — Chen, X., [1981, p.734-740, eng] **35-2534**

Cold regions engineering, [1980, Var. p., eng] **35-2710**

Winter city — Clark, I.K., et al., [1980, 16p., eng] **35-2714**

Engineering classification of aged frozen ground — Wu, T., [1979, p.52-60, chi] **35-2903**

Research on a model of thermal treatment of frozen ground — Chu, L., [1979, p.67-71, chi] **35-2905**

Characteristics of permafrost beneath the Beaufort Sea — Sellmann, P.V., et al., [1981, p.125-157, eng] **35-3256**

Bibliography of the engineering and environments of Arctic coasts and seas, [1977, 11p., eng] **35-3360**

Brief summary of Arctic engineering and construction problems — Arend, E., [1976, 20p., eng] **35-3404**

Soviets share polar problem — Novikov, E., [1979, p.16-17, eng] **35-3518**

Permafrost engineering: an introduction to northern engineering — Lunardini, V.J., [1975, 444p., eng] **35-3658**

Fundamentals of cold regions engineering (Pt 9) — Higashi, A., [1980, p.33-48, jap] **35-3662**

Handbook of snow: principles, processes, management and use — Gray, D.M., ed., [1981, 776p., eng] **35-3745**

Ice engineering design of boat harbors and ports — Wortley, C.A., [1981, p.1104-1113, eng] **35-4170**

Fundamentals of cold regions engineering (Pt 9) — Higashi, A., [1981, p.29-40, jap] **35-4205**

Canadian field activities in ice engineering, Pt. 1 — Nakawo, M., [1981, p.107-114, jap] **35-4270**

Engineering geology

Large scale mapping of cryogenic phenomena — Severskii, E.V., [1979, p.105-112, rus] **35-192**

Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia — Popov, A.I., ed., [1980, 256p., rus] **35-279**

Methods of engineering-geological investigations of high slopes susceptible to cave-ins and landslides — Zolotarev, G.S., ed., [1980, 184p. + append., rus] **35-344**

Stability of slopes in permafrost — McRoberts, E.C., [1973, 370p., eng] **35-708**

Permafrost conditions in West Siberia — Shamanova, I.I., et al., [1980, p.94, rus] **35-772**

Modeling moisture-ice fields in freezing fines — Kruntsel', V.V., et al., [1980, p.80-84, rus] **35-968**

Climatic regionalization of the Baykal Amur railroad area — Gol'tsberg, I.A., et al., [1980, p.3-15, rus] **35-1194**

International geological congress, 26th, 1979 — Hydrogeology, engineering geology and construction materials — Reports of soviet geologists — Kulikov, G.V., ed., [1980, 247p., rus] **35-1349**

Experimental seismic forecasts in permafrost areas — Solomenko, V.P., [1980, p.129-143, rus] **35-1350**

Exogenic geologic processes and phenomena (Southern Yakutia) — Ospennikov, E.N., et al., [1980, 227p., rus] **35-1701**

Engineering geology of East Siberia — Leshchikov, F.N., et al., [1980, p.45-53, rus] **35-1704**

Legends for detailed engineering-geological maps of permafrost areas — Dostovalov, V.B., [1981, p.42-43, rus] **35-2088**

Cold Regions Science and Technology Bibliography — Cummings, N.H., [1981, p.73-75, eng] **35-2420**

Principle of railway line selection in alpine permafrost regions — Qui, G., et al., [1981, p.278-287, eng] **35-2509**

Research work on permafrost and engineering in the last 30 yrs., China — Chen, S., et al., [1979, p.7-12, chi] **35-2896**

Permafrost — Engineering design and construction — Johnston, G.H., ed., [1981, 540p., eng] **35-3703**

Manual of engineering geology — Churinov, M.V., ed., [1981, 325p., rus] **35-4305**

Engines

Winter maintenance of railroad tracks and locomotives — Bel'den, V.V., [1979, p.10-15, rus] **35-456**

Winterizing railroad equipment and machines — Golovinov, G.G., et al., [1980, p.57-58, rus] **35-457**

Operation of the lubrication, hydraulic and pneumatic systems of construction machines under northern conditions — Garkavi, N.G., et al., [1979, 111p., rus] **35-814**

Engine cold-starting and warm-up tests, [1980, 12p., eng] **35-1580**

Low temperature study of airplanes — Alley, B.J., Jr., [1980, p.77-90, eng] **35-1585**

Carburetor ice flight testing - use of an anti-icing fuel additive — Newman, R.L., [1981, p.5-6, eng] **35-2176**

Coupling protects snow thrower's motor and power train — Hogan, B.J., [1981, p.82-83, eng] **35-3853**

Timan-Pechora regional industrial complex — Podoplelov, V.P., ed., [1979, 144p., rus] **35-4104**

Cost of power plant construction in the North — Kalinina, A.A., [1979, p.68-75, rus] **35-4105**

Enthalpy

Introduction to the basic thermodynamics of cold capillary systems — Colbeck, S.C., [1981, 9p., eng] **35-3712**

Environmental impact

Prudhoe Bay Project, Final environmental impact statement, [1980, 416p., eng] **35-34**

Environmental impact statement, Chena River Lakes Project, [1980, 82p. + appends., eng] **35-132**

Oilspill risk analysis for the Kodiak Island (proposed sale 46) — Samuels, W.B., et al., [1980, 40p. + 22 appends., eng] **35-155**

POAC '79, Trondheim, Norway, Aug. 1979, Vol. 3, [1979, 608p., eng] **35-161**

Spilled oil retention potential — Beaufort Sea coast of Alaska — Nummedal, D., et al., [1979, p.247-253, eng] **35-174**

Environmental impact of reservoirs in the North — Kudoarov, I.I., [1980, p.36-38, rus] **35-310**

Sewage disposal and environmental impact in winter — Slaughter, R., et al., [1979, p.547-558, eng] **35-433**

Environmental studies (1974), James Bay territory and surrounding area, [1975, 108p. + 14 figs., eng] **35-566**

Environmental impact of highway deicing — Backman, I., [1980, 62p. + tables, swe] **35-570**

Proceedings of the 4th High Altitude Revegetation Workshop, [1980, 258p., eng] **35-576**

Revegetation of disturbed sites along the Yukon River — Johnson, A.W., et al., [1980, p.16-29, eng] **35-578**

Edaphic factors and their influence in patterns of tundra revegetation — Everett, K.R., [1980, p.30-37, eng] **35-579**

Vegetation of old oil wells on the Alaskan North Slope — Komarkova, V., et al., [1980, p.38-64, eng] **35-580**

Reclamation of acid-producing spoils on a western surface mine — Richardson, B.Z., [1980, p.101-112, eng] **35-583**

Gravel removal guidelines manual for Arctic and Subarctic floodplains, [1980, 169p., eng] **35-797**

Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979, [1980, 595p., eng] **35-846**

Water pollution from snow removal operations — Pierstorff, B.W., et al., [1980, p.377-388, eng] **35-851**

Petroleum industry impact on Alaska's south shore — Jackson, J.B., et al., [1980, 78p., eng] **35-861**

Impact of oil on the Kachemak Bay environment — Trasky, L.L., et al., [1977, 123p., eng] **35-888**

Effects of alpine reservoirs on the environment, [1980, 12 papers, ger] **35-897**

Surface coal mining control and reclamation act in Alaska, 1977, [1980, 328p., eng] **35-948**

Environmental impact *(cont.)*

Oil and ice in the Beaufort Sea. Wadhams, P., (1980, p.23-35, eng) **35-1114**

Yukon section of the Alaska highway gas pipeline, (1979, 126p., eng) **35-1120**

Environmental impact of tracked vehicles in tundra. Sparrow, S.D., et al, (1978, p.20-27, eng) **35-1162**

Environmental impact statement, Prudhoe Bay oil field, (1980, 27p., eng) **35-1166**

Swamp-forest systems of Karelia and their dynamics. Pryachenko, N.I., ed, (1980, 184p., rus) **35-1324**

Drainage effect on northern swampy forests. Pryachenko, N.I., et al, (1980, p.52-77, rus) **35-1325**

Paludal spruce forests of Karelia. Medvedeva, V.M., et al, (1980, p.78-99, rus) **35-1326**

Abstracts of papers from the 31st Alaska Science Conference, 1980, (1980, 148p., eng) **35-1469**

Biological components of landscapes in the eastern Baykal Amur railroad area. Babushkin, M.N., ed, (1979, 183p., rus) **35-1518**

River water pollution in permafrost areas. Il'ichev, D.N., et al, (1979, p.64-76, rus) **35-1521**

Classification of taiga soils for construction and agriculture. Grishin, I.V., et al, (1979, p.95-111, rus) **35-1522**

Natural revegetation of dredge tailings at Fox, Alaska. Holmes, K.W., (1981, p.26-29, eng) **35-1693**

Responses of Arctic tundra to intensive muskox grazing. McKendrick, J.D., (1981, p.49-55, eng) **35-1694**

Oil spill effects on tundra ponds. Barsdate, R.J., et al, (1980, p.388-406, eng) **35-1756**

Road dust along the Haul Road, Alaska. Everett, K.R., (1980, p.101-128, eng) **35-1771**

Environmental impact of W.W.II debris cleanup in southern Alaska, (1979, 272p. + 1 Vol. of append., eng) **35-1816**

Environments of the Alaskan Continental Shelf, (1980, 313p., eng) **35-1827**

Fairbanks atmospheric carbon monoxide transport model. Carlson, R.F., et al, (1980, 49p., eng) **35-1841**

Tundra vegetation pattern and succession. Webber, P.J., et al, (1980, p.187-218, eng) **35-1935**

Investigation and analysis of frozen coal handling problems, (1979, c125p., eng) **35-1957**

Gravel removal studies in Arctic and Subarctic floodplains in Alaska, (1980, 403p., eng) **35-1997**

Township of Temagami: one alternative for servicing a northern community. Cooper, B.J., (1980, p.140-149, eng) **35-2115**

Waste drilling fluid disposal on tundra. French, H.M., (1980, p.794-806, eng) **35-2173**

Carcinogenic pollution in sediments of arctic waters. Stich, H.F., et al, (1980, p.807-814, eng) **35-2174**

Some environmental questions: an after-dinner address. Holdgate, M.W., (1980, p.135-136, eng) **35-2219**

Implications of alternative national energy policies for tundra ecosystems. Schofield, E.A., (1980, p.274-296, eng) **35-2316**

Remote sensing of revegetation of burned tundra, Kokolik River, Alaska. Hall, D.K., et al, (1980, p.263-272, eng) **35-2462**

Alaska gas line project continues to advance, (1981, p.41, eng) **35-2466**

Winter air pollution at Fairbanks, Alaska. Coutts, H.J., et al, (1981, p.512-528, eng) **35-2522**

Present condition (1980) of the TAPS gravel workpad. Krzewinski, T.G., et al, (1981, p.678-692, eng) **35-2530**

Water pollution and associated effects from street salting. Field, R., et al, (1975, p.317-340, eng) **35-2569**

Winter salt prospects improved; more barges will aid stockpiling, (1980, p.18-22, eng) **35-2935**

Impact of the Niagara River ice boom on Buffalo's climate. Quinn, F.H., et al, (1980, 31p., eng) **35-2936**

Volatile content of crude oil treated under different weathering conditions. Riley, R.G., et al, (1981, p.109-119, eng) **35-2937**

Mudboil pattern disruption due to airstrip construction at North Henik Lake. Eggington, P.A., (1981, p.299-303, eng) **35-3087**

Proceedings of the workshop on research in the Labrador region, 1980, (1980, 410p., eng) **35-3090**

Oil spill contingency plans; present status and future potential. Hunt, P., (1980, p.53-65, eng) **35-3093**

Effects of long term crude oil exposure on marine fish. Kiceniuk, J.W., (1980, p.212-222, eng) **35-3095**

Palsa bogs, sand dunes and salt marshes, environmentally sensitive habitats in the coastal region southeastern Labrador. Roberts, B.A., et al, (1980, p.245-263, eng) **35-3096**

Growth and physiological responses of tundra plants to defoliation. Archer, S., et al, (1980, p.531-552, eng) **35-3204**

Biological studies on the Alaskan continental shelf, (1981, 359p., eng) **35-3252**

Cook Inlet environment, a background study of available knowledge. Evans, C.D., et al, (1972, 136p., eng) **35-3359**

Tundra ecosystems, a comparative analysis. Bliss, L.C., ed, (1981, 813p., eng) **35-3373**

Conservation of the tundra. Sage, B., (1981, p.731-746, eng) **35-3397**

Influence of man on tundra vegetation. Andreev, V.N., (1981, p.747-750, eng) **35-3398**

Current extractive industrial development, North America. Bliss, L.C., et al, (1981, p.751-771, eng) **35-3299**

Vegetation along the gas pipeline route, Yukon Territory. Stanek, W., (1980, 47p., eng) **35-3486**

Bristol Bay environment, a background study of available knowledge, (1974, 858p., eng) **35-3550**

Alaska coastal bibliography and index statewide, (1980, 407p., eng) **35-3553**

Influence of deicing salts on soil and turf cover. Brod, H.G., et al, (1980, p.461-468, eng) **35-3771**

Oil, ice and gas, (1980, 169p., eng) **35-3867**

Field manual for cold-climate oil spills. Deslauriers, P.C., (1980, p.95-101, eng) **35-3878**

Effects of the Trans-Alaska pipeline on caribou movements. Cameron, R.D., et al, (1980, 16p., eng) **35-3923**

Effects of winter salting on the natural environment. Silvestre, P., et al, (1981, p.41-52, fre) **35-4006**

Growth conditions and vitality of *Sphagnum* in a tundra community along the Alaska pipeline haul road. Spatt, P.D., et al, (1981, p.48-54, eng) **35-4050**

Tundra fire effects on soils and plants in the Seward Peninsula. Racine, C.H., (1981, p.71-84, eng) **35-4054**

Environmental protection

Eastern Arctic marine environmental study program. Loken, O.H., (1979, p.139-152, eng) **35-168**

Shore crossing techniques for offshore pipelines in Arctic regions. Marcellus, R.W., et al, (1979, p.201-215, eng) **35-171**

Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979. Abstracts of the papers, (1979, 211p., rus) **35-245**

Taiga vegetation and environmental protection. Krauklis, A.A., et al, (1979, p.1674-1681, rus) **35-347**

Forecasting the effect of railroad construction on permafrost. Alekseev, V.R., et al, (1975, p.13-18, rus) **35-792**

Final environmental impact statement, Prudhoe Bay Oil Field Waterflood Project, (1980, 3 Vols., eng) **35-798**

Resistance of taiga soils to erosion. Babintseva, R.M., et al, (1976, p.49-54, rus) **35-802**

Virgin spruce forests of southern taiga. Orlov, A.IA., et al, (1980, p.38-45, rus) **35-955**

Environmental protection in tundra. Liverovskii, IU.A., et al, (1979, p.512-520, eng) **35-961**

Control of recoverable natural resources of the Far North, USSR. Gel'berg, M.G., et al, (1980, 45p., eng) **35-979**

Port Valdez environmental studies: 1976-1978. Colonell, J.M., (1980, p.907-917, eng) **35-985**

Problems in meteorology and hydrology of Siberia, (1976, 218p., rus) **35-1189**

Regional geographic forecast, Vol.2: present state and basic trends in changes of natural environments, West Siberia. Makunina, A.A., ed, (1980, 206p., rus) **35-1269**

Protection of vegetational cover in permafrost areas. Tyrtikov, A.P., (1980, p.14-18, rus) **35-1286**

Environmental protection in pipeline construction areas. Borodavkin, P.P., et al, (1980, p.14-15, rus) **35-1304**

Influence of water runoff redistribution on the natural conditions of Siberia. Saks, V.N., ed, (1980, 184p., rus) **35-1331**

Diversion of a part of the Irtysh River waters. Petrov, I.B., (1980, p.110-114, rus) **35-1339**

Prospects of rational utilization of natural resources. Vodovozov, S.A., ed, (1980, 113p., rus) **35-1423**

Preservation of northern land resources. Mikhailov, I.S., et al, (1980, p.35-41, rus) **35-1424**

Environmental protection in the Far North. Freidin, I.L., (1980, p.65-72, rus) **35-1425**

Climatic problems of mountainous regions in the USSR. Bagdasarian, A.B., (1980, p.29-36, rus) **35-1436**

Spaceborne photography data for land reclamation. Vostokova, E.A., et al, (1980, p.159-167, rus) **35-1447**

Biological components of landscapes in the eastern Baykal Amur railroad area. Babushkin, M.N., ed, (1979, 183p., rus) **35-1518**

Environmental protection in the Baykal Amur railroad area. Shlotgauer, S.D., (1979, p.3-10, rus) **35-1519**

Regionalization of the Baykal Amur railroad zone. Nechaeva, E.G., et al, (1980, p.3-11, rus) **35-1628**

Slope stabilization techniques for permafrost areas. Pal'kin, IU.S., et al, (1980, p.30-32, rus) **35-1637**

Environmental protection of permafrost areas. Ermikov, V.D., et al, (1980, p.3-9, rus) **35-1702**

Environmental protection in the Far North. Pavlov, A.V., (1980, p.23-28, rus) **35-1703**

Studies in ecology and environmental protection in East Siberia. Kozhova, O.M., (1980, p.96-104, rus) **35-1706**

James Bay hydro-electric project: environmental concerns, (1981, 45p., eng) **35-1882**

Permafrost and human activities in the Arctic and Subarctic. Péwé, T.L., (1979, p.333-344, eng) **35-1952**

North Slope Borough comprehensive policy plan, Haul Road area, (1980, 34p., eng) **35-2015**

Student science training program, Juneau icefield, Alaska, 1979. Miller, M.M., et al, (1979, 15p., eng) **35-2016**

Environmental assessment of the Alaskan continental shelf, TDP, FY81. Weller, G., coord, (1980, 166p., eng) **35-2018**

Environmental assessment of the Alaskan continental shelf, TDP, FY81. Calder, J.A., coord, (1980, 209p., eng) **35-2019**

Environmental assessment of the Alaskan continental shelf, TDP, FY81. Hameedi, J., coord, (1980, 130p., eng) **35-2020**

Surface stability in the presence of industrial activities in permafrost areas. Grave, N.A., ed, (1980, 142p., rus) **35-2184**

Environmental protection in permafrost areas. Grave, N.A., (1980, p.6-12, rus) **35-2185**

Thermal balance and environmental protection of northern landscapes. Pavlov, A.V., (1980, p.13-31, rus) **35-2186**

Vegetation disturbance on solifluction slopes. Sukhodrovskii, V.L., (1980, p.36-42, rus) **35-2188**

Environmental protection in mining areas. El'chaninov, E.A., (1980, p.43-49, rus) **35-2189**

Permafrost stability and human activities. Kuznetsova, I.L., (1980, p.75-107, rus) **35-2192**

Environmental protection problems in Alaska and Canada. Grave, N.A., (1980, p.135-141, rus) **35-2195**

All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct 29-31, 1980. Abstracts, (1980, 203p., rus) **35-2251**

Soil preservation in northern territories. Chigir, V.G., (1980, p.188-190, rus) **35-2313**

Geographic aspects of redirection of river courses in West Siberia. Bachurin, G.V., ed, (1979, 135p., rus) **35-2320**

Research center for the study of river course redirection. Mikheev, V.S., et al, (1979, p.3-16, rus) **35-2321**

Geochemistry of taiga soils. Nechaeva, E.G., et al, (1979, p.51-62, rus) **35-2323**

Forecasting landscape changes from river flow control. Popov, B.A., (1979, p.89-94, rus) **35-2326**

Land erosion maps of the Central Region for environmental protection. Kosov, B.F., et al, (1979, p.95-101, rus) **35-2327**

Partial redirection of Siberian rivers. Neishtadt, M.I., et al, (1979, p.114-120, rus) **35-2328**

River flow redirection and environmental protection. Mikhailov, N.I., et al, (1979, p.121-127, rus) **35-2329**

Regionalization of the Non-chernozem zone. Panov, E.P., et al, (1980, 231p., rus) **35-2439**

Land disposal: state of the art. Reed, S.C., (1973, p.229-261, eng) **35-2469**

Protection of the environment in northern Siberia. Gerasimov, I.P., (1980, p.191-202, eng) **35-2626**

Municipal sludge management: environmental factors. Reed, S.C., ed, (1977, Var. p., eng) **35-2715**

Vegetation effect on hydrothermal regime of tundra soils. Skriabin, S.Z., et al, (1981, p.82-86, rus) **35-2769**

Environmental protection in the North. Denisov, G.V., (1981, p.29, rus) **35-2784**

Wastewater treatment ponds, (1975, 21p. + appends., eng) **35-2862**

Problems of utilization and preservation of natural resources in Siberia. Saks, V.N., ed, (1980, 136p., rus) **35-3042**

Biologic-floristic studies related to environmental protection in polar regions. Shliakov, R.N., ed, (1980, 149p., rus) **35-3062**

Growth of Lapland poppy under Arctic conditions. Andreeva, V.N., (1980, p.26-39, rus) **35-3065**

Protection of Arctic tundra vegetation. Tsareva, V.T., (1980, p.49-50, rus) **35-3067**

Proceedings of the 9th Environmental Workshop on Offshore Hydrocarbon Development, 1980, (1980, 440p., eng) **35-3081**

All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers. Treshnikov, A.F., ed, (1980, 147p., rus) **35-3103**

Changes in Arctic natural conditions due to human activities. Treshnikov, A.F., (1980, p.4-7, rus) **35-3104**

Calculating allowable partial flow diversion from northern rivers. Fashchevskii, B.V., (1980, p.21-24, rus) **35-3108**

Environmental protection of the lower Ob' river area. Greshnova, E.V., (1980, p.136-137, rus) **35-3134**

Conquering Alaska's Arctic drilling problems. Part 1: Operations. Moore, S.D., (1981, p.79, 82, 84, 88, eng) **35-3210**

Permafrost investigations in economically developing areas of the USSR. Pavlov, A.V., ed, (1980, 183p., rus) **35-3305**

Protection of northern environments. Mel'nikov, P.I., et al, (1980, p.3-8, rus) **35-3306**

Conservation of the tundra. Sage, B., (1981, p.731-746, eng) **35-3397**

Self-cleaning of polluted soils in cold regions. Shchetinkov, A.I., (1981, p.84-89, rus) **35-3477**

Proposed ecological natural landmarks in the Brooks Range, Alaska. Bliss, L.C., et al, (1981, 175p., eng) **35-3554**

Environmental protection in areas of main pipeline construction and operation. Borodavkin, P.P., et al, (1981, 160p., rus) **35-3566**

Bioengineering for land reclamation and conservation. Schiechtl, H., (1980, 404p., eng) **35-3595**

United States Arctic science policy. Hickok, D.M., et al, (1981, 62p., eng) **35-3738**

Timan-Pechora regional industrial complex Podoplelov, V.P., ed. (1979, 144p., rus) 35-4104
Environmental protection in subpolar regions Gladkov, V.P., (1979, p.133-140, rus) 35-4107
Regionalization by environmental protection demands Chepurko, N.T., et al. (1981, p.44-50, rus) 35-4277
Soil pollution by hydrocarbons Solntseva, N.P., (1981, p.50-58, rus) 35-4278

Environmental tests

Future of the environment and global glaciological problems Kotlıakov, V.M., (1980, p.5-16, rus) 35-1531
Iceberg dynamical modelling Mauvicl, F., (1980, p.123-127, eng) 35-2217

Environments

Focus on polar research Washburn, A.L., (1980, p.643-652, eng) 35-250
Studies in the Lateglacial of north-west Europe Lowe, J.J., ed. (1980, 205p., eng) 35-796
Bibliography of the publications on the Alaskan continental shelf (1980, 177p., eng) 35-847
U.S. research options in polar regions Nagler, R.G., et al. (1979, 94 leaves, eng) 35-1309
Plant distribution and environment of a subarctic mire Kvillner, E., et al. (1980, p.97-111, eng) 35-1475
Future of the environment and global problems in glaciology Kotlıakov, V.M., (1980, p.153-165, eng) 35-1762
Environment of the Alaskan Haul Road Brown, J., (1980, p.3-52, eng) 35-1769
Research annual report 1979-80, University of Alaska (1981, 129p., eng) 35-1774
Canopy structure and environmental interactions Miller, P.C., et al. (1979, p.428-458, eng) 35-1784
Geoecology of the Colorado Front Range Ives, J.D., ed. (1980, 484p., eng) 35-1900
Boreal ecosystem Larsen, J.A., (1980, 500p., eng) 35-1913
Bibliography of the engineering and environments of Arctic coasts and seas (1977, 11p., eng) 35-3360
Alpine vegetation of the Indian Peaks area, Colorado Komarkova, V., (1979, 591p. + figs. + maps, eng) 35-3604
Environmental studies in the central Quebec Labrador peninsula Moore, T.R., ed. (1981, 141p., eng) 35-3975

Equipment

Disc-cutter excavators for frozen ground Bobylev, V.A., (1980, p.30-31, rus) 35-98
Handbook for winter road service Ahlbrecht, H., et al. (1978, 319p., ger) 35-152
Low temperature RKL-114M X-ray equipment Prokhvatilov, A.I., (1979, p.916-917, rus) 35-340
T-74 excavators for frozen ground Pervit, A.S., et al. (1979, p.24-25, rus) 35-353
Excavator designed for operation in cold at high altitudes Bulanov, A.A., (1980, p.20-21, rus) 35-391
Winter maintenance of railroad tracks and locomotives. Bel'dei, V.V., (1979, p.10-15, rus) 35-456
Winterizing railroad equipment and machines Golovinov, G.G., et al. (1980, p.57-58, rus) 35-457
Excavators and bulldozers for frozen ground. Lavrov, G.E., et al. (1980, p.25-27, rus) 35-626
1980-81 ANARE report (1980, 62p., eng) 35-1400
Mechanics of cutting and boring in permafrost Mellor, M., (1980, 82p., eng) 35-1892
Tungsten carbide pads for snowplow blades (1980, p.53, eng) 35-1954
New rig for ice platform drilling. Gaudı, E., et al. (1981, p.41-44, eng) 35-1960
Air-to-air heat recovery devices for small buildings Interim report Zarling, J.P., (1981, 19p., eng) 35-2014
Mechanized water preparation at Vostok Zagrivnyi, E.A., et al. (1980, p.124-127, rus) 35-2046
Winterize equipment to conserve fuel, improve operation (1980, p.53, eng) 35-2137
Drilling north of the Arctic Circle (1980, p.56-57, eng) 35-2139
Some aids for solving winter weather problems. (1980, p.15-25, eng) 35-2560
Some aspects of Soviet trenching machines Mellor, M., (1980, 14p., eng) 35-2597
ETR-254 excavator for frozen ground. Alshits, M.Z., et al. (1980, p.4-6, rus) 35-2621
Electrification of oil and gas industry in West Siberia Novoselov, R.B., et al. (1980, 182p., rus) 35-2687
Sampling of the till-bedrock interface in geochemical exploration Wennervirta, H., (1973, p.67-71, eng) 35-2744
Equipment for laying underground cables in permafrost. Medorezov, I.A., et al. (1981, p.17-18, rus) 35-2852
Winter Olympics will open with assist by two midwest machine manufacturers (1980, p.32-34, eng) 35-2933
101 modern machines keep Olympics moving (1980, p.28, eng) 35-2934
Improving excavators working in permafrost. Grinberg, N.A., et al. (1980, p.52-54, rus) 35-3016
Snow accumulation on and around solar collectors Harris, J.R., (1980, p.54-65, eng) 35-3147
Dome's "kick tolerance" formula for safe Beaufort Sea drilling Wilkie, D.I., et al. (1981, p.33-36, eng) 35-3277
Snow removal equipment. Minsk, L.D., (1981, p.648-670, eng) 35-3762
Snow and ice control on railroads, highways and airports Minsk, L.D., et al. (1981, p.671-706, eng) 35-3763
Completion techniques and drilling rigs in Prudhoe Bay, Alaska. Moore, S.D., (1981, p.96-100, eng) 35-3814
Artificial taliks in permafrost areas Gol'dtman, V.G., et al. (1976, p.77-84, rus) 35-3833
Coupling protects snow thrower's motor and power train Hogan, B.J., (1981, p.82-83, eng) 35-3853
Countermeasures equipment for ice-covered ice-infested waters Meikle, K.M., (1980, p.7-11, eng) 35-3869
Problems presented by ice cover to oilspill clean-up in the Beaufort Sea McGonigal, D., (1980, p.13-25, eng) 35-3870
Earthwork under urban construction conditions Sadakov, I.P., et al. (1981, 256p., rus) 35-3962

Erosion

James Bay hydro-electric project; environmental concerns (1981, 45p., eng) 35-1882
Gravel removal studies in Arctic and Subarctic floodplains in Alaska. (1980, 403p., eng) 35-1997
Limitations to numerical modelling of ice in rivers. Petryk, S., et al. (1981, p.243-262, eng) 35-2556
Deposition and erosion on the inner shelf, N.E. Bering Sea Hunter, R.E., et al. (1981, p.332-267, eng) 35-3245
Graded storm sand layers offshore from the Yukon Delta, Alaska. Nelson, C.H., (1981, p.368-388, eng) 35-3246
Geologic processes of the Beaufort Sea shelf and coast Barnes, P., et al. (1981, p.257-355, eng) 35-3261
Super sea-ice kettles in the arctic nearshore zone Reimdeer Island. Reimnitz, E., et al. (1981, p.344-355, eng) 35-3266
Erosion prediction for exploration and production structures in the Arctic Kobayashi, N., et al. (1981, p.459-470, eng) 35-3453
Bank stabilization, Bethel, Alaska (1981, 63p. + appends., eng) 35-3812

ERTS imagery

Impact of oil on the Kachemak Bay environment Trasky, L.L., et al. (1977, 123p., eng) 35-888

Estuaries

Moraine-like deposits in northern plains Danilov, I.D., (1979, p.97-135, rus) 35-67
Changing the course of rivers in the Arctic Ivanov, V.V., (1980, p.106-123, rus) 35-1431
Reservoir effect on heat regime of rivers. Odrova, T.V., (1980, p.90-93, rus) 35-1611
Estuarine perspectives. Kennedy, V.S., ed. (1980, 533p., eng) 35-3078
Plankton ecology in the arctic estuary of Chesterfield Inlet, N.W.T. Roff, J.C., et al. (1980, p.185-197, eng) 35-3079
Zooplankton in a Canadian arctic estuary Evans, M.S., et al. (1980, p.199-210, eng) 35-3080
All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers Treshnikov, A.F., ed. (1980, 147p., rus) 35-3103
Ice conditions in Arctic river estuaries. Ivanov, V.V., (1980, p.8-11, rus) 35-3105
Evaluating hydrologic consequences of river diversion Kashinov, N.S., (1980, p.34-36, rus) 35-3111
Hydrology of northern river estuaries after flow diversion Ivanova, A.A., et al. (1980, p.67-70, rus) 35-3115
Flood wave propagation in Arctic river estuaries Lysenko, T.A., (1980, p.74-77, rus) 35-3116
Thermal regime of Arctic river estuaries after flow diversion Kurzhunov, A.N., et al. (1980, p.78-81, rus) 35-3117
Thermal regime of Arctic river estuaries after flow diversion. Kurzhunov, A.N., et al. (1980, p.78-81, rus) 35-3117
River diversion effect on ice conditions in estuaries Nalimov, Iu.V., et al. (1980, p.87-89, rus) 35-3119
River diversion effect on hydrochemistry of estuarine areas. Rusanov, V.P., (1980, p.90-93, rus) 35-3120
River diversion effect on subarctic sea water ecosystems Amstislavskii, A.Z., (1980, p.94-96, rus) 35-3121
River diversion effect on local subarctic climatic conditions. Za'ialova, I.N., et al. (1980, p.97-100, rus) 35-3122
Forecasting cryogenic processes in the Ob' River delta Gogolev, E.S., et al. (1980, p.110-112, rus) 35-3126
Environmental protection of the lower Ob' river area. Greshnova, E.V., (1980, p.136-137, rus) 35-3134
Ice surveys of the Caspian Sea. Valler, F.I., et al. (1981, p.14-18, rus) 35-3935
Forecasting ice cover thickness on rivers Chernov, I.M., (1981, p.21-28, rus) 35-4301

Evaporation

Water balance of northern swamps Ershova, I.M., (1977, p.39-47, rus) 35-1293
Hydrology Grushevskii, M.S., ed. (1980, 177p., rus) 35-1865
Calculating evaporation from northern swamps Moskvin, Iu.P., et al. (1980, p.67-75, rus) 35-1871
Liquid spray cooling of a heated surface Grissom, W.N., et al. (1981, p.261-271, eng) 35-3271
Measuring evaporation from thermokarst lakes Skachkov, Iu.B., et al. (1980, p.36-38, rus) 35-3311
Irrigation of cryogenic meadow soils Ugarov, I.S., et al. (1980, p.53-59, rus) 35-3315
Radiation balance of taiga geosystems Mart'ianova, G.N., (1980, p.190-193, rus) 35-3481
Vapor condensation in aeration zones at subzero temperatures Papernov, I.M., et al. (1980, p.62-82, rus) 35-3996

Excavation

Mine shaft excavation in permafrost areas Shchukin, V.P., et al. (1980, p.143-145, rus) 35-304
Hydraulic excavators for frozen ground Nedorezov, I.A., et al. (1980, p.7-10, rus) 35-321
Excavators DP-31XL for frozen ground Zakharov, V.A., et al. (1980, p.12-13, rus) 35-322
Bulldozer-scraper for frozen ground Lebedev, V.M., et al. (1980, p.6-7, rus) 35-323
Excavation equipment for frozen ground Stepanov, O.E., et al. (1980, p.8-9, rus) 35-324
Artificial rock freezing used in mining excavations Kachur, V.D., et al. (1980, p.24-26, rus) 35-325
Artificial ground freezing in mining Shparber, P.A., (1980, p.26-27, rus) 35-326
Portable drills for ice and frozen ground Belokonev, A., et al. (1979, p.78-79, rus) 35-336
Frozen ground excavators Revuka, V., et al. (1980, p.9, rus) 35-350
T-74 excavators for frozen ground Pervit, A.S., et al. (1979, p.24-25, rus) 35-353
Mine shaft excavation in permafrost Volkodav, D.N., (1980, p.6, rus) 35-356
Studying artificial freezing parameters for driving horizontal workings Nasonov, I.D., et al. (1980, 248p., rus) 35-384
Excavator designed for operation in cold at high altitudes Bulanov, A.A., (1980, p.20-21, rus) 35-391
Land reclamation in cold regions Sevost'ianov, M.I., et al. (1980, p.2-4, rus) 35-444
Bulldozers with additional blades for frozen ground Kudarbergenov, R.K., et al. (1980, p.14, rus) 35-478
Disc-cutter excavators for frozen ground Rumiantsev, V.A., et al. (1980, p.24-26, rus) 35-540
Improved equipment for frozen ground excavation Bass, B.A., (1980, p.24-27, rus) 35-601
Exhibit of road construction equipment Zelentsova, I.I., (1980, p.40-44, rus) 35-611
Excavators and bulldozers for frozen ground Lavrov, G.E., et al. (1980, p.25-27, rus) 35-626
Electro-thermo-mechanical excavators Rikenglaz, I.F., et al. (1980, p.47-51, rus) 35-636
Scraper for frozen ground Bezruchko, N.P., et al. (1980, p.33-34, rus) 35-779
Gravel removal guidelines manual for Arctic and Subarctic floodplains (1980, 169p., eng) 35-797
Digging wheel excavators for the North Kozin, G.II., et al. (1979, p.60-67, rus) 35-808
Open pit mining in arctic regions Elin, S.N., et al. (1979, p.10-14, rus) 35-865
Mining perennially frozen placers Mel'nikov, V.B., et al. (1980, p.52-54, rus) 35-866
Water seepage control in mining excavations Shparber, P.A., (1980, p.41-44, rus) 35-868
Stability of quarry walls in permafrost areas Fisenko, G.L., et al. (1980, p.18-20, rus) 35-869
Dust control in northern mines Voronov, E.T., (1980, p.54-57, rus) 35-954
Loosening frozen ground by blasting Beloglazov, N.I., (1980, p.12, rus) 35-1026
Hydraulic excavators for frozen ground Osadchii, G.K., (1980, p.13, rus) 35-1027
Hydraulic jet mining in permafrost areas Grinevich, V.V., et al. (1978, p.34-37, rus) 35-1080
Artificial ice pillars in placer mining Emel'ianov, V.I., et al. (1978, p.49-73, rus) 35-1082
Stabilization of slopes cut in perennially frozen fines Pal'kin, Il.S., et al. (1980, p.5-6, rus) 35-1139
Hydropneumatic impact systems of working parts of mining and road construction machines Sagimov, A.N., et al. (1980, 199p., rus) 35-1149
Open-pit mining in winter Krasnosel'skii, E.B., (1980, p.264-268, rus) 35-1256
EO-3322B hammer for frozen ground Kotov, G.A., (1980, p.7-10, rus) 35-1356
Mechanics of cutting and boring in permafrost Mellor, M., (1980, 82p., eng) 35-1892
Excavation of frozen materials Moore, H.E., et al. (1980, p.323-345, eng) 35-1985
Using explosives to excavate frozen ground Tart, R.G., et al. (1980, p.246-265, eng) 35-1986
Gravel removal studies in Arctic and Subarctic floodplains in Alaska (1980, 403p., eng) 35-1997
Construction machines designed for the North Shpiller, E.D., et al. (1981, p.54-55, rus) 35-2091
New excavator types for permafrost areas (1981, p.65, rus) 35-2092
Technology of pipeline construction in Siberia (1981, p.33-34, rus) 35-2095

Excavation *(cont.)*

Environmental protection in mining areas. El'chaninov, E.A., [1980, p.43-49, rus] **35-2189**

Stresses on propelling mechanisms of universal excavators in frozen ground. Khorosh, A.I., et al, [1979, p.13-14, rus] **35-2619**

ETR-254 excavator for frozen ground. Al'shits, M.Z., et al, [1980, p.4-6, rus] **35-2621**

Road construction machines and equipment manual. Bespalov, N.A., et al, [1980, 182p. (Pertinent p.13-17), rus] **35-2684**

Percussion-teeth shovel for frozen ground. Solomonov, S.A., [1981, p.24-26, rus] **35-2846**

Excavators for frozen ground. [1981, p.26-27, rus] **35-2850**

Methods of frozen ground excavation. Chechenkov, M.S., [1980, 127p., rus] **35-2881**

Improving excavators working in permafrost. Grinberg, N.A., et al, [1980, p.52-54, rus] **35-3016**

Calculating sublimation weathering of perennially frozen fines. Kuz'min, G.P., [1981, p.70-80, rus] **35-3286**

Utilization of explosive energy in construction. Damlenko, I.I., [1981, 167p., rus] **35-3531**

Calculating the strength and creep of artificially frozen grounds. Vialov, S.S., et al, [1981, 199p., rus] **35-3932**

Earthwork under urban construction conditions. Sadakov, R.P., et al, [1981, 256p., rus] **35-3962**

Hydraulic method of breaking up frozen soil. Gulik, I.U.A., et al, [1981, p.35-38, eng] **35-4153**

Recommendations for pipeline construction in permafrost areas. [1981, p.36-38, rus] **35-4243**

Expeditions

1980-81 ANARE report. [1980, 62p., eng] **35-1400**

British polar exploration 10 years before and after World War II: a comparison. Stephenson, A., [1981, p.317-328, eng] **35-2073**

Little America: town at the end of the world. Carter, P.A., [1979, 301p., eng] **35-2863**

Polish Scientific Spitsbergen Expeditions, 1970-1974. Vol.1. [1975, 196p., eng] **35-3608**

Polish Scientific Spitsbergen Expeditions, 1970-1974. Vol.2. [1977, 138p., eng] **35-3618**

History and critique of Operation Highjump. Rose, L.A., [1980, 292p., eng] **35-3630**

Experimentation

Experimental site "Chemolgan-78" for mudflow studies. Kirenskaia, T.L., et al, [1980, p.64-71, rus] **35-1809**

Relation between loading speed and the strength of frozen ground. Dertugin, A.G., [1981, p.53-70, rus] **35-3285**

Exploration

Sohio plans busy winter in Beaufort. [1980, p.30-31, eng] **35-1133**

Developments in Alaska in 1979. Jones, B.C., [1980, p.1345-1353, eng] **35-1775**

British polar exploration 10 years before and after World War II: a comparison. Stephenson, A., [1981, p.317-328, eng] **35-2073**

Prospecting in areas of glaciated terrain 1977. [1977, 140p., eng] **35-2719**

Application of humus analysis to geotechnical prospecting: some case histories. Nuutilainen, J., et al, [1977, p.1-5, eng] **35-2720**

Geochemical evaluation of ore potential. Björklund, A., [1977, p.56-62, eng] **35-2725**

Application of humus to exploration. Kokkola, M., [1977, p.104-110, eng] **35-2729**

Exploration for uranium through glacial drift in northern Sweden. Lundberg, B., [1973, p.31-43, eng] **35-2743**

Reconnaissance prospecting by photogeology in northern Finland. Talvitie, J., et al, [1973, p.73-81, eng] **35-2745**

Prospecting for nickel in north Sweden. Nilsson, G., [1973, p.97-109, eng] **35-2748**

Exploration for disseminated lead in southern Norway. Bjorlykke, A., et al, [1973, p.111-126, eng] **35-2749**

Little America: town at the end of the world. Carter, P.A., [1979, 301p., eng] **35-2863**

History and critique of Operation Highjump. Rose, L.A., [1980, 292p., eng] **35-3630**

Potential schemes for offshore Labrador year round production. Wetzel, V.F., et al, [1980, p.293-305, eng] **35-3631**

United States Arctic science policy. Hickok, D.M., et al, [1981, 62p., eng] **35-3738**

Explosion effects

Proceedings, Vol.1. [1980, 516p., eng] **35-1583**

Impact fuse performance in snow (Initial evaluation of a new test technique). Aitken, G.W., et al, [1980, p.31-45, eng] **35-1584**

Analysis of non-steady plastic shock waves in snow. Brown, R.L., [1980, p.279-287, eng] **35-1822**

Block motion from detonations of buried near-surface explosive arrays. Blouin, S., [1980, 62p., eng] **35-1999**

Explosion effects on snow cover. Morgunov, IU.L., [1980, p.41-46, rus] **35-3573**

Artificial release of avalanches and its influence on the soil cover. Christa, R., [1979, p.175-181, ger] **35-3726**

Explosives

Explosives for blasting permafrost. Egupov, A.A., et al, [1978, p.84-97, rus] **35-1083**

Using explosives to excavate frozen ground. Tart, R.G., et al, [1980, p.246-265, eng] **35-1986**

Block motion from detonations of buried near-surface explosive arrays. Blouin, S., [1980, 62p., eng] **35-1999**

Extraterrestrial ice

Depth and distribution of permafrost on Mars. Kuz'min, R.O., [1980, p.1445-1448, rus] **35-76**

Martian outflow channels related to ice streams. Lucchitta, B.K., et al, [1981, p.759-763, eng] **35-3363**

H2O frost point detection on Mars. Ryan, J.A., et al, [1981, p.503-511, eng] **35-3602**

Scheiner's halo: evidence for ice Ic in the atmosphere. Whalley, E., [1981, p.389-390, eng] **35-4249**

Falling bodies

On the statistical investigation of fall velocity of snowflakes. Sasyo, Y., et al, [1980, p.61-79, eng] **35-2155**

Melting electrification of single ice particles in simulated free fall. Martin, P.F., et al, [1977, p.302-308, eng] **35-3778**

Interactions of freely-falling ice crystals. Saunders, C.P.R., [1977, p.309-313, eng] **35-3779**

Lightning from ice crystals and colliding raindrops. Crabb, J.A., et al, [1977, p.618-622, eng] **35-3781**

Doppler radar spectrum of ice particle fallspeeds. Passarelli, R.E., Jr., et al, [1980, p.1318-1322, eng] **35-3866**

Measuring snowflake size and fall velocity. Sasyo, M., et al, [1981, p.1-8, jap] **35-4201**

Fallout

Surface accumulation on Ross Ice Shelf. Clausen, H.B., et al, [1979, p.68-72, eng] **35-654**

Stratospheric sulfate in antarctic snow. Delmas, R., et al, [1980, p.5645-5649, eng] **35-1119**

Trace metals in remote Arctic snows: natural or anthropogenic. Landy, M.P., et al, [1980, p.574-576, eng] **35-1218**

Fast ice

Snow cover effect on electrical properties of ice. Khokhlov, G.P., [1980, p.149-152, rus] **35-382**

Frazil ice and anchor ice and their resistance effect in rivers. Tsang, G., [1979, p.127-138, eng] **35-408**

Polarization studies in sea ice. Arcone, S.A., et al, [1980, p.225-245, eng] **35-553**

Fast ice regimes of the Beaufort and Chukchi Sea coasts, Alaska. Barry, R.G., et al, [1979, p.129-152, eng] **35-699**

Reinforcing fast ice for unloading military equipment. Zemlin, S., [1980, p.70-71, rus] **35-969**

Geologic processes on the Beaufort Sea shelf (July-Sep 1979). Barnes, P., et al, [1980, p.189-192, eng] **35-1157**

Melting of antarctic fast ice. Nazintsev, IU.L., [1980, p.97-101, rus] **35-1460**

Maximum thickness and subsequent decay of lake, river and fast sea ice in Canada and Alaska. Bilello, M.A., [1980, 160p., eng] **35-2588**

Equations for calculating breakup dates of fast ice. Arikainen, A.I., [1980, p.68-76, rus] **35-3495**

Detailed ice surveys in the Arctic. Gushchenkov, E.M., [1981, p.49-50, rus] **35-3943**

Morphometric characteristics of drifting ice in Long Strait. Gorbunov, IU.A., et al, [1981, p.129-136, rus] **35-3960**

Temporal and spatial variability of ice-foot morphology. Wiseman, W.J., et al, [1981, p.69-80, eng] **35-4021**

Fresh water anchor ice along an Arctic beach. Sadler, H.E., et al, [1981, p.62-63, eng] **35-4052**

Nearshore ice characteristics in the eastern Bering Sea. Stringer, W.J., [1980, p.167-187, eng] **35-4139**

Fatigue (materials)

Viscosity and low temperature fracture strain in asphalt mixtures. Ruth, B.E., et al, [1979, p.221-237, eng] **35-332**

Method for predicting roughness, rutting and cracking of pavements. Ullidtz, P., [1979, p.557-586, eng] **35-333**

Pavement structure evaluation of Alaskan highways. McHattie, R., et al, [1980, 208p., eng] **35-893**

Low temperature study of airplanes. Alley, B.J., Jr., [1980, p.77-90, eng] **35-1585**

Cyclic loading and fatigue in ice. Mellor, M., et al, [1981, p.41-53, eng] **35-2417**

Faulting (geology)

Drainage in the faulted Aldan Plateau zone. Lygin, A.M., [1980, p.22-30, rus] **35-3991**

Fiber composites

Frost resistant fiber reinforced concretes. Ekibaeva, A.A., et al, [1980, p.134-142, rus] **35-2426**

Fines

Roadbeds on moist fines. Knizhnik, G.B., et al, [1980, p.4-5, rus] **35-599**

Heat and mass transfer in dispersed systems. Grossman, A.G., [1978, p.131-134, rus] **35-871**

Composition of morainal silt of Spitsbergen Archipelago glaciers. Konishchev, V.N., et al, [1979, p.102-109, rus] **35-1832**

Seismic stability of hydraulic earth structures. Krasnikov, N.D., [1981, 240p., rus] **35-2689**

Integral methods of determining the parameters of one-dimensional consolidation. Bartolomei, A.A., et al, [1981, p.250-255, eng] **35-4151**

Screw pile foundations for drilling rigs. Kolomeitsev, V.T., et al, [1921, p.14-15, rus] **35-4286**

Calculating foundations on saturated bases for dynamic loads. Krasnikov, N.D., et al, [1981, p.7-21, rus] **35-4288**

Finland

Ice lobes during the deglaciation in Finland. Punkari, M., [1980, p.307-310, eng] **35-2143**

Application of humus analysis to geotechnical prospecting: some case histories. Nuutilainen, J., et al, [1977, p.1-5, eng] **35-2720**

Conductive ground effects on electromagnetic survey methods. Peltoniemi, M., [1977, p.89-103, eng] **35-2728**

Application of humus to exploration. Kokkola, M., [1977, p.104-110, eng] **35-2729**

Geophysical methods in thick overburden, Kolari, Finland. Hattula, A., [1977, p.120-127, eng] **35-2731**

Geochemical prospecting in stratified till in Finland. Kokkola, M., [1975, p.149-154, eng] **35-2740**

Reconnaissance prospecting by photogeology in northern Finland. Talvitie, J., et al, [1973, p.73-81, eng] **35-2745**

Snow scooter and cross country vehicle as farmers' wood transport vehicles. Halttunen, J., et al, [1981, p.28-30, fin] **35-2798**

—Lapland

Deglaciation and glacial lakes in Finnish Lapland. Seppala, M., [1980, p.311-319, eng] **35-2144**

Finland, Gulf

Ice formation in the Gulf of Finland. Prokhorova, T.M., [1978, p.139-143, rus] **35-1003**

Airborne radar for ice surveys. Balandin, V.N., et al, [1981, p.19-21, rus] **35-3936**

Fires

Revegetation of burned-out areas in tundra. Galaktionova, T.F., et al, [1980, p.66-72, rus] **35-285**

Calculating ice regimes of water tanks. Mostovoi, G.A., [1980, p.5-6, rus] **35-463**

Fire protection in the North. Adrian, L., [1980, p.225-229, eng] **35-2118**

Fire protection considerations in remote, cold regions communities. Ryan, W.L., [1980, p.230-233, eng] **35-2119**

Fire protection in isolated northern communities. Whatmough, R.G., [1980, p.234-236, eng] **35-2120**

Remote sensing of revegetation of burned tundra, Kokolik River, Alaska. Hall, D.K., et al, [1980, p.263-272, eng] **35-2462**

1977 tundra fire at Kokolik River, Alaska. Hall, D.K., et al, [1978, 11p., eng] **35-2591**

Effects of a tundra fire on soil and vegetation. Racine, C., [1980, 21p., eng] **35-2602**

Fluorescent boxes help spot hydrants in Alaskan snow. Mulvihill, C.E., [1981, p.110-111, eng] **35-3861**

Tundra fire effects on soils and plants in the Seward Peninsula. Racine, C.H., [1981, p.71-84, eng] **35-4054**

Firn

Heavy metal enrichment in antarctic snow and firn. Warburton, J.A., et al, [1979, p.76-78, eng] **35-657**

Firn densification: an empirical model. Herron, M.M., et al, [1980, p.375-385, eng] **35-1501**

Solar radiation absorption by snow, firn and ice. Belova, N.I., et al, [1970, p.53-64, rus] **35-1571**

Several properties of the radio emission of land surfaces. Gurvich, A.S., [1973, 29p., eng] **35-1895**

Tritium in ice near Molodezhnaya Station. Herbert, D., et al, [1980, p.91-94, rus] **35-2039**

Glaciological work on the Shackleton Ice Shelf (Jan.-Apr. 1978). Savatiugin, L.M., [1980, p.114-118, rus] **35-2044**

Shallow-depth temperature models for Dome C. Ewing, R.E., [1980, p.75-76, eng] **35-3181**

Nitrogenous chemical composition of antarctic ice and snow. Parker, B.C., et al, [1980, p.79-81, eng] **35-3185**

Dust clouds associated with snow avalanche movement. Kiriliuk, I.V., et al, [1980, p.113-120, rus] **35-3582**

Snow and firn patches between Hornsund and Wetenskiold Glacier. Glowicki, B., [1975, p.139-146, eng] **35-3615**

Folds in firn. Waag, C.J., [1981, p.268-273, eng] **35-3688**

Meltwater movement through the firn in an alpine glacier. Behrens, H., et al, [1979, p.219-228, ger] **35-3731**

Meltwater flow in the water table of a temperate glacier. Ambach, W., et al, [1979, p.229-234, ger] **35-3732**

Firn stratification

Microparticle deposition at South Pole. Mosley-Thompson, E., et al, [1979, p.91-93, eng] **35-665**

Transitional forms of glaciation. Ivanov, N.I., [1970, p.245-263, rus] **35-1573**

Glaciological work on the Shackleton Ice Shelf (Jan.-Apr. 1978). Savatiugin, L.M., [1980, p.114-118, rus] **35-2044**

Flexural strength

Ice characteristics in Whitefish Bay and St. Marys River in winter. Vance, G.P., [1980, 27p., eng] **35-488**

Review of impulse radar sounding of sea ice. Rossiter, J.R., [1980, p.77-107, eng] **35-549**

Axi-symmetric element formulation of non-homogeneous floating ice sheets. Murat, J.R., [1976, 45p., eng] 35-575

Mechanical properties of saline-doped and carbamide (urea)-doped model ice. Timco, G.W., [1980, p.45-56, eng] 35-818

Ice platform design related to strain measurements. Gold, L.W., [1980, p.564-565, fre] 35-837

Measurement of flexural waves on a breaking test of sea ice. Ishida, I., [1978, p.79-83, jap] 35-1543

Strength and freeze thaw tests of concrete mixed with furnace slag. Malhotra, V.M., [1979, 26p., eng] 35-2164

Flexural response of a tabular ice island to ocean swell. Goodman, D.J., et al, [1980, p.23-27, eng] 35-2200

Measurements of oscillations and flexure of icebergs. Foldvik, A., et al, [1980, p.29-30, eng] 35-2201

Transverse flexure of ice. Pantilov, D.V., [1979, p.1168-1170, eng] 35-2448

Strength and freeze thaw tests of concrete mixed with furnace slag. Malhotra, V.M., [1979, 26p., eng] 35-3410

Offshore deck on a multiple leg ice resistant substructure. Kliewer, R.M., et al, [1980, p.315-324, eng] 35-3636

Fundamentals of cold regions engineering (Pt.9). Higashi, A., [1980, p.33-48, jap] 35-3662

Flexural strength of ice grown from chemically impure melts. Timco, G.W., [1981, p.81-92, eng] 35-3665

Flexural behavior of ice cover. Svec, O.J., et al, [1981, p.93-101, eng] 35-3666

Small scale surface strain measurement on sea ice. Murat, J.R., [1980, p.55-74, eng] 35-3838

Tidal flexure of Jakobshavns Glacier, West Greenland. Lingle, C.S., et al, [1981, p.3960-3968, eng] 35-3909

Floating ice

Axi-symmetric element formulation of non-homogeneous floating ice sheets. Murat, J.R., [1976, 45p., eng] 35-575

Ice platform design related to strain measurements. Gold, L.W., [1980, p.564-565, fre] 35-837

Transport and depositional mechanisms in glacial marine sediments. Domack, E.W., et al, [1980, p.813-820, eng] 35-884

Breaking ice with gravity waves. Bates, H.F., et al, [1980, p.148-153, eng] 35-1108

Deflection of a floating ice sheet subjected to a moving load, Pt.2. Takizawa, T., [1978, p.69-78, jap] 35-1542

Evaluation of ice-covered water crossings. Dean, A.M., Jr., [1980, p.443-453, eng] 35-1587

Guide for operating cars and light trucks on a floating ice sheet. Johnson, P., [1980, 29p., eng] 35-2012

Viscoelastic analysis of calving glaciers. Reddy, D.V., et al, [1980, p.37-41, eng] 35-2203

Characteristics of flow below a rough floating cover. Gogus, M., et al, [1981, p.122-142, eng] 35-2547

Design and construction of sea ice roads in the Alaskan Beaufort Sea. Potter, R.E., et al, [1981, p.135-140, eng] 35-3449

Periglacial forms produced by shore ice at Hornsund (Spitsbergen). Jahn, A., [1977, p.19-29, eng] 35-3619

Fundamentals of cold regions engineering (Pt.9). Higashi, A., [1980, p.33-48, jap] 35-3662

Flexural behavior of ice cover. Svec, O.J., et al, [1981, p.93-101, eng] 35-3666

Sensitivity analysis of steady, free floating ice. Omstedt, A., [1980, 31p., eng] 35-3700

Strain measurements in floating ice platforms. Anderson, K.G., et al, [1980, p.33-53, eng] 35-3837

Plane waves in a viscoelastic floating ice sheet. Bates, H.F., et al, [1981, p.4269-4273, eng] 35-3912

Response of floating ice sheets to moving loads. Beltaos, S., [1981, p.1-8, eng] 35-4217

Floating structures

Floating platforms and excavations to protect subsea equipment from icebergs. Duval, J., et al, [1980, p.81-86, eng] 35-831

Flood control

Environmental impact statement, Chena River Lakes Project, [1980, 82p. + appends., eng] 35-132

Solution to spring ice-jam flooding. Loffredo, J.C., [1980, p.82-83, eng] 35-828

River transport in the North. Zhivotkevich, N., [1980, p.7-9, rus] 35-905

Forecasting flooding of rivers. Klimova, L.A., et al, [1977, p.35-39, rus] 35-1292

Study and preservation of water resources (1971-1973). Shablevskaia, V.A., ed, [1976, 128p., rus] 35-1366

Calculating flooding during ice jams. Orlova, T.B., [1976, p.87-89, rus] 35-1368

Flood forecasting

Airborne snow survey using natural gamma radiation. Carroll, T.R., et al, [1980, p.1-10, eng] 35-1161

Forecasting flooding of glacial rivers. Rist, S., [1980, p.110-111, 178-179, rus] 35-2827

Space survey data in flood forecasts. Vostriakova, N.V., [1980, p.20-26, rus] 35-3546

Flood plains

Floodplain biomass of northern rivers. Druzhinina, N.P., [1979, p.76-89, rus] 35-2325

Methods and equipment for the development of cryogenic saline soils. Kulebakin, P.G., [1980, p.145-148, rus] 35-3057

Flooding

Meteorological consequences of natural or deliberate changes in the surface environment. Vowinckel, E., et al, [1980, p.87-110, eng] 35-1008

Landscape types of the Ob' River floodplain. Kolomiets, G.E., [1980, p.101-110, rus] 35-1338

Winter performance of hydraulic piston pumps. Kazak, A.S., [1980, p.44-45, rus] 35-1607

Water seepage in flooded dams. Ivanov, D.I., [1979, p.60-65, rus] 35-1625

Removal of organics by overland flow. Martel, C.J., et al, [1980, 9p., eng] 35-2052

Proceedings, National Conference on Environmental Engineering, [1980, 707p., eng] 35-2570

Rational design of overland flow systems. Martel, C.J., et al, [1980, p.114-121, eng] 35-2571

Energy and costs for agricultural reuse of wastewater. Sletten, R.S., et al, [1980, p.339-346, eng] 35-2572

Forage grass growth on overland flow systems. Palazzo, A.J., et al, [1980, p.347-354, eng] 35-2573

Overland flow, removal of toxic volatile organics. Jenkins, T.F., et al, [1981, 16p., eng] 35-2581

Land treatment systems and the environment. McKim, H.L., et al, [1979, p.201-225, eng] 35-2752

Floods

Modelling basin snow storage in a high Arctic environment. Woo, M., et al, [1979, p.206-216, eng] 35-414

Estimation of small basin flood flows in the discontinuous permafrost zone. Vincent, D.G., et al, [1979, p.229-238, eng] 35-416

Probable maximum flood for the Peace River at site C. Fawkes, P.E., [1979, p.239-250, eng] 35-417

Final environmental impact statement, Prudhoe Bay Oil Field Waterflood Project, [1980, 3 Vols., eng] 35-798

Problems in meteorology and hydrology of Siberia, [1976, 218p., rus] 35-1189

Classification of floods and their effects on natural environments and economic development of the Ob' and Chul'm river floodplains. Krasheninnikov, M.V., [1976, p.128-136, rus] 35-1191

Calculating maximum spring flood runoff. Goroshkova, N.I., [1980, p.33-43, rus] 35-1793

Hydrology. Grushevskii, M.S., ed, [1980, 177p., rus] 35-1865

Calculating ultimate intensity of spring flooding in permafrost areas. Goroshkova, N.I., [1980, p.10-17, rus] 35-1866

Gravel removal studies in Arctic and Subarctic floodplains in Alaska, [1980, 403p., eng] 35-1997

Passing ice over stone linings of spillways. Pravdivets, Iu.P., [1981, p.43-46, rus] 35-2099

Hydraulic and ice conditions in relation to winter and spring floods. Tremblay, P.R., et al, [1981, p.209-226, eng] 35-2553

Calculating spring flood hydrographs. Polishchuk, O.N., [1978, p.16-28, rus] 35-2701

Calculating maximum river discharge during spring floods. Koriagin, S.V., [1978, p.64-69, rus] 35-2704

Impact of floods from glacier-dammed lakes, Yukon, Canada. Young, G.J., [1980, p.101-107, 170-175, rus] 35-2825

Forecasting flooding of glacial rivers. Rist, S., [1980, p.110-111, 178-179, rus] 35-2827

Temporary bridges in permafrost areas. Rasskazov, I.D., et al, [1981, p.6-8, rus] 35-2843

Using satellite information in solving hydrological problems. Kupriianov, V.V., et al, [1980, p.3-9, rus] 35-2968

Evaluating riverbed processes using aerial photographs. Snishchenko, D.V., [1980, p.100-107, rus] 35-2980

Flood wave propagation in Arctic river estuaries. Lysenko, T.A., [1980, p.74-77, rus] 35-3116

Calculating the peak discharge of Batura Glacier. Li, N., et al, [1980, p.133-145, chi] 35-4034

Floors

Calculating thermal regime of basements containing technical equipment (discussion). Shapovalov, I.S., et al, [1980, p.19-21, rus] 35-2625

Economic effectiveness of optimizing the amount of thermal insulation of buildings. Boguslavskii, L.D., [1981, 102p., rus] 35-3965

Flow control

Glacial runoff control. Krenke, A.N., [1980, p.5-19, rus] 35-466

Ice condition changes induced by river regulation. Rossinskii, K.I., et al, [1980, p.5-19, rus] 35-468

Consequences of Arctic river flow control. Krenke, A.N., [1980, p.287-292, rus] 35-1261

Influence of water runoff redistribution on the natural conditions of Siberia. Saks, V.N., ed, [1980, 184p., rus] 35-1331

Changes in taiga due to river flow control. Shirokov, V.M., [1980, p.22-30, rus] 35-1332

Geographic studies related to the river-channel diversion project. Malik, L.K., [1980, p.47-51, rus] 35-1333

Changes induced by stream flow diversion in Siberia. Bacharin, G.V., [1980, p.52-56, rus] 35-1334

Diversion of a part of the Irtysh River waters. Petrov, I.B., [1980, p.110-114, rus] 35-1339

Redistribution of river water resources in the USSR. Sokolov, A.A., ed, [1980, 164p., rus] 35-1427

Changing the course of Siberian rivers. Saks, V.N., et al, [1980, p.76-81, rus] 35-1428

Forecasting induced changes in different landscapes. Voronov, A.G., et al, [1980, p.82-89, rus] 35-1429

Changes in northern swamps due to river flow control. Ivanov, K.E., et al, [1980, p.90-105, rus] 35-1430

Changing the course of rivers in the Arctic. Ivanov, V.V., [1980, p.106-123, rus] 35-1431

Climatic changes due to diverting river courses. Drozdov, O.A., et al, [1980, p.133-149, rus] 35-1432

Geographic aspects of redirection of river courses in West Siberia. Bacharin, G.V., ed, [1979, 135p., rus] 35-2320

Research center for the study of river course redirection. Mikheev, V.S., et al, [1979, p.3-16, rus] 35-2321

Effect of river flow control on taiga vegetation. Poliushkin, R.V., et al, [1979, p.36-50, rus] 35-2322

Floodplain biomass of northern rivers. Druzhinina, N.P., [1979, p.76-89, rus] 35-2325

Forecasting landscape changes from river flow control. Popov, B.A., [1979, p.89-94, rus] 35-2326

Land erosion maps of the Central Region for environmental protection. Kosov, B.F., et al, [1979, p.95-101, rus] 35-2327

Partial redirection of Siberian rivers. Neishtadt, M.I., et al, [1979, p.114-120, rus] 35-2328

River flow redirection and environmental protection. Mikhailov, N.I., et al, [1979, p.121-127, rus] 35-2329

Hydroelectric power plants in the Baykal-Amur railroad area. Sheinman, L.B., [1980, 89p., rus] 35-2688

Ice conditions in Arctic river estuaries. Ivanov, V.V., [1980, p.8-11, rus] 35-3105

Water runoff redistribution in the European USSR. Berezner, A.S., et al, [1980, p.12-16, rus] 35-3106

Numerical modeling of river diversion problems. Kotrekhov, E.P., [1980, p.17-20, rus] 35-3107

River diversion effect on estuarine hydrologic conditions. Minin, V.M., [1980, p.25-27, rus] 35-3109

Analytical method of calculating runoff storage. Kiktenko, V.A., et al, [1980, 200p., rus] 35-3641

Flow measurement

Uniqueness of steady state flows of glaciers and ice sheets. Fowler, A.C., et al, [1980, p.333-345, eng] 35-2243

Modeling of snow flow. Dent, J.D., et al, [1980, p.131-140, eng] 35-2356

Seismic and impact-pressure monitoring of flowing avalanches. Schaerer, P.A., et al, [1980, p.179-187, eng] 35-2360

Flow rate

Mechanism of mudflow formation. Stepanov, B.S., [1980, p.20-23, rus] 35-205

Methods of engineering-geological investigations of high slopes susceptible to cave-ins and landslides. Zolotarev, G.S., ed, [1980, 184p. + append., rus] 35-344

Study and preservation of water resources (1971-1973). Shablevskaia, V.A., ed, [1976, 128p., rus] 35-1366

Calculating flooding during ice jams. Orlova, T.B., [1976, p.87-89, rus] 35-1368

Vegetation disturbance on solifluction slopes. Sukhodrovskii, V.L., [1980, p.36-42, rus] 35-2188

Conveyance capacity with ice cover for the Nashwaak River, N.B. Burrell, B., et al, [1981, p.34-56, eng] 35-2542

Resistance of Beauharnois Canal in winter. Tsang, G., [1981, p.57-78, eng] 35-2543

Hydraulic resistance of the ice cover in the St. Lawrence River. Witherspoon, D.F., [1981, p.79-93, eng] 35-2544

Analysis of velocity profiles under ice in shallow streams. Calkins, D.J., et al, [1981, p.94-111, eng] 35-2545

Discharge-water level relationship for ice cover stability. Carson, R.K., et al, [1981, p.112-120, eng] 35-2546

Hydraulic resistance generated by frazil ice formation. Gosink, J.P., et al, [1981, p.192-194, eng] 35-2551

Harnessing frazil ice. Perham, R.E., [1981, p.227-237, eng] 35-2554

Limitations to numerical modelling of ice in rivers. Petryk, S., et al, [1981, p.243-262, eng] 35-2556

New data on the dynamics of ice shelves in the Weddell Sea. Zakharov, V.G., et al, [1980, p.181-185, rus] 35-2828

Hydrology of northern river estuaries after flow diversion. Ivanova, A.A., et al, [1980, p.67-70, rus] 35-3115

Reconstruction of past velocities of Mer de Glace using Forbes Bands. Reynaud, L., [1979, p.149-163, eng] 35-3724

Fluid flow

Air flow within snow during fluid flow in surface transition layer. Yoshida, Z., [1978, p.41-54, jap] 35-1174

Process in geomorphology. Embleton, C., ed, [1979, 436p., eng] 35-1684

Flow of air, water and ice. Embleton, C., et al, [1979, p.39-72, eng] 35-1685

Heat Transfer - San Diego, 1979, [1979, 315p., eng] 35-3347

Stefan-like problems in finite geometry. Lazaridis, A., et al, [1979, p.69-80, eng] 35-3350

Fluid flow *(cont.)*

Transport of matter, impulse and heat in porous media. Diersch, H-J., (1980, p.351-407, ger) **35-3563**

Transient freezing of liquids in tube flow. Cheung, F.B., et al. (1976, p.1-9, eng) **35-3922**

Fluid mechanics

Convection in a porous layer for a temperature dependent viscosity. Blythe, P.A., et al. (1981, p.497-506, eng) **35-3519**

Fog dispersal

Weather and flights of airplanes and helicopters. Astapenko, P.D., et al. (1980, 280p., rus) **35-1362**

Ice fog suppression in Arctic communities. McFadden, T., (1980, p.54-65, eng) **35-1971**

Propane dispersal in supercooled fog. Dinevich, V.A., et al. (1980, p.3-11, rus) **35-2693**

Forecasting

Snowmelt-runoff forecasting. Langborn, W.V., (1980, p.778-786, eng) **35-439**

Forecasting of subsea permafrost conditions in Chukchi and Beaufort Seas. Hopkins, D.M., et al. (1980, p.123-129, eng) **35-1155**

Shoreline history and Beaufort Seas. Hopkins, D.M., et al. (1980, p.371-379, eng) **35-1159**

Helicopter icing review. Peterson, A.A., et al. (1980, 233p., eng) **35-1731**

Equation predicts buried pipeline temperatures. King, G.G., (1981, p.65-66, 71-72, eng) **35-2467**

Dome's "kick tolerance" formula for safe Beaufort Sea drilling. Wilkie, D.I., et al. (1981, p.33-36, eng) **35-3277**

Ice force prediction using a limited driving force approach. Vivatrat, V., et al. (1981, p.471-485, eng) **35-3454**

Evaluating fire danger in taiga from microwave radiation. Valendik, E.N., et al. (1980, p.14-19, rus) **35-3545**

Outline of the study of seasonal snow and ice in China. Maohuan, H., (1980, p.1-11, eng) **35-3659**

Southcentral region of Alaska deep-draft navigation study. (1981, c140p + 10 appends., eng) **35-3674**

Glacier threatens shipping lanes. (1980, p.10-16, eng) **35-3854**

Forecasting the change of Batura Glacier this and next centuries. Shi, Y., et al. (1980, p.191-207, chi) **35-4039**

Use of Markov chain in the study of snow occurrences. Bolduc, S., (1970, 139p., eng) **35-4171**

Mathematical synthesis of hourly snowfall. Sage, J.D., (1974, 188p., eng) **35-4173**

Forest canopy

Heat balance in taiga forests. Trofimova, I.E., et al. (1973, p.37-47, rus) **35-762**

Lake effect on North Baykal shore forests. Vykhristiuk, M.M., (1980, 215p., rus) **35-1372**

Revegetation of felled and burned areas in taiga. Chugunova, R.V., (1971, p.76-82, rus) **35-1393**

Canopy structure and environmental interactions. Miller, P.C., et al. (1979, p.428-458, eng) **35-1784**

Afforestation processes and their control in the European North. L'vov, P.N., et al. (1980, 113p., rus) **35-1897**

Snow evaporation under a forest canopy during a chinook. Swanson, R.H., (1980, p.26-30, eng) **35-2223**

Radiant energy exchange in forest snow cover. Marks, B., et al. (1980, p.43-49, eng) **35-2225**

Microbiology of sedge-pine forest soils. Vishniakova, Z.V., (1980, p.130-144, rus) **35-2479**

Climatic conditions and microclimate of taiga geosystems in Siberia. Bufal, V.V., ed. (1980, 232p., rus) **35-2485**

Radiation balance of Siberian taiga. Bufal, V.V., et al. (1980, p.5-30, rus) **35-2486**

Calculating evaporation of snow retained by a forest canopy. Grudinin, G.V., (1980, p.148-160, rus) **35-3423**

Radiation balance of taiga geosystems. Mart'ianova, G.N., (1980, p.190-193, rus) **35-3481**

Effect of forest canopy on subarctic woodland solar radiation. Petzold, D.E., (1981, p.27-38, eng) **35-3977**

Organization of spruce ecosystems in southern taiga. Isakov, Iu.A., ed. (1979, 220p., rus) **35-4117**

Vegetation of the Valday taiga. Glazov, M.V., (1979, p.10-29, rus) **35-4118**

Damage caused by snow in pine stands. Matyas, C., (1981, p.270-272, hun) **35-4252**

Forest ecosystems

Forest-floor nitrogen dynamics in a birch ecosystem, Alaska. Van Cleve, K., et al. (1980, p.359-381, eng) **35-988**

Forest fires

Origin and geography of forest soils. Korsunov, V.M., ed. (1980, 131p., rus) **35-295**

Forest fire effects on soil formation in permafrost areas. Popova, E.P., (1980, p.40-52, rus) **35-298**

Effects of fire in Alaska and adjacent Canada - a literature review. Viereck, L.A., et al. (1980, 124p., eng) **35-891**

Young larch forests in Yakutia. Pozdniakov, L.K., (1980, p.46-55, rus) **35-956**

Conference of young scientists, 3rd, Krasnoyarsk, 1971. Studies of the nature of Siberian forests. (1972, 325p., rus) **35-1373**

Thermal effect of radiation on forest litter. Konev, V.A., (1972, p.230-235, rus) **35-1379**

Rate of flame propagation in pine litter. Sukhinin, A.I., (1972, p.236-242, rus) **35-1380**

Modeling pine needle burning in air flow. Kisiliakhov, E.K., (1972, p.242-248, rus) **35-1381**

Studies of forest soils and vegetation in the northeastern USSR. Shcherbakov, I.P., ed. (1971, 176p., rus) **35-1390**

Fire danger in different Far North landscapes. Snytkin, G.V., (1971, p.83-93, rus) **35-1394**

Forest fire season in Transbaikal. Lovanov, A.I., et al. (1980, p.49-50, rus) **35-1767**

Age structure of stands in northern taiga. Listov, A.A., (1980, p.25-29, rus) **35-1858**

Revegetation of burned areas in North Ural taiga. Kirsanov, V.A., (1976, p.104-113, rus) **35-1919**

Evaluating fire danger in taiga from microwave radiation. Valendik, E.N., et al. (1980, p.14-19, rus) **35-3545**

Forest regeneration and microfungi in soils, Schefferville, Canada. Lucarotti, C.J., (1981, p.7-26, eng) **35-3976**

Fire and climax spruce forests in central Yukon. Strang, R.M., et al. (1981, p.60-61, eng) **35-4051**

Reforestation of the Valday taiga. Tishkov, A.A., (1979, p.30-69, rus) **35-4119**

Forest land

Methodology of forecasting natural phenomena in Siberia. Druzhinin, I.P., ed. (1980, 144p., rus) **35-148**

Computer enhanced snow cover analysis of satellite data. Hogg, W.D., et al. (1979, p.414-423, eng) **35-427**

Forest-strip method of reclaiming eroded soils. Budaev, Kh.R., ed. (1976, 159p., rus) **35-799**

Resistance of taiga soils to erosion. Babintseva, R.M., et al. (1976, p.49-54, rus) **35-802**

Matter and energy exchange in pine forests of the European North. Kazimirov, N.I., et al. (1977, 304p., rus) **35-807**

Reinforced concrete plates for road pavements. Kholopov, A.I., (1980, p.12-13, rus) **35-919**

Mountain forests of the Baykal Amur railroad zone. Panarin, I.I., et al. (1980, 224p., rus) **35-936**

Young larch forests in Yakutia. Pozdniakov, L.K., (1980, p.46-55, rus) **35-956**

Meteorological consequences of natural or deliberate changes in the surface environment. Vowinckel, E., et al. (1980, p.87-110, eng) **35-1008**

Soils of drained forest swamps. Melent'eva, N.V., (1980, 127p., rus) **35-1134**

Hydrothermal melioration of northern swamps. Starkov, V.M., (1977, p.68-80, rus) **35-1294**

Swamp-forest systems of Karelia and their dynamics. P'iavchenko, N.I., ed. (1980, 184p., rus) **35-1324**

Drainage effect on northern swampy forests. P'iavchenko, N.I., et al. (1980, p.52-77, rus) **35-1325**

Paluded spruce forests of Karelia. Medvedeva, V.M., et al. (1980, p.78-99, rus) **35-1326**

Migration of water soluble substances in cryogenic soils. Panin, P.S., et al. (1980, p.84-88, rus) **35-1336**

Classification of taiga forests. Shcherbakov, I.P., (1971, p.3-33, rus) **35-1391**

Prospects of rational utilization of natural resources. Vodovozov, S.A., ed. (1980, 113p., rus) **35-1423**

Preservation of northern land resources. Mikhailov, I.S., et al. (1980, p.35-41, rus) **35-1424**

Hydrology of northern swamps. Babikov, B.V., (1980, p.14-26, rus) **35-1861**

Drainage systems for northern swamps. Panarin, M.N., et al. (1980, p.26-27, rus) **35-1862**

Physiologic activity of pines in northern forests. Bobkova, K.S., (1974, p.116-122, rus) **35-1927**

Temperature and freezing of forest soils during drainage. Chesnokov, V.A., (1980, p.115-117, rus) **35-2292**

Scientific conference of Karelian biologists. Komulainen, A.A., ed. (1970, 167p., rus) **35-2613**

Patch clearcuts to manage snow in lodgepole pine. Gary, H.L., (1980, p.335-346, eng) **35-2931**

Geographic aspects of Siberian taiga. Sochava, V.B., (1980, 256p., rus) **35-2951**

Snow sampling bias in the boreal forest. Granberg, H.B., (1980, p.66-75, eng) **35-3148**

Measurements of avalanches in forests. Fiebiger, G., (1979, p.183-194, ger) **35-3727**

High altitude vegetation of Sayan Mountains. Danilov, M.P., (1981, p.119-133, rus) **35-3895**

Effect of forest canopy on subarctic woodland solar radiation. Petzold, D.E., (1981, p.27-38, eng) **35-3977**

Radiation balance of melting snow in open boreal forest. Petzold, D.E., (1981, p.287-293, eng) **35-4261**

Biomass of Alaskan black spruce forests. Van Cleve, K., (1979, p.28-36, rus) **35-4326**

Forest lines

Forest line vegetation of tundra. Dem'ianov, V.A., (1980, p.926-937, rus) **35-396**

Geoecology of the Colorado Front Range. Ives, J.D., ed. (1980, 484p., eng) **35-1900**

Spruce at its upper limits on the Front Range, Colorado. Wardle, P., (1968, p.483-495, eng) **35-1903**

Remarks on the stability of timberline. Ives, J.D., (1978, p.313-317, eng) **35-1904**

Growth forms of spruce and subalpine fir at tree line. Grant, M.C., et al. (1977, p.259-263, eng) **35-1905**

Vegetation and forest dynamics of the upper Dietrich River Valley, Alaska. Densmore, D., (1980, p.183p., eng) **35-2408**

Relationships between snow distribution and climate in mountain areas. Yamada, T., et al. (1981, p.109-118, eng) **35-3024**

Alpine bird communities of western North America. Braun, C.E., (1980, p.280-291, eng) **35-4235**

Forest soils

Origin and geography of forest soils. Korsunov, V.M., ed. (1980, 131p., rus) **35-295**

Forest fire effects on soil formation in permafrost areas. Popova, E.P., (1980, p.40-52, rus) **35-298**

Bedrock and topography effects on taiga soils. Molokov, V.A., (1980, p.53-57, rus) **35-299**

Soil formation in mountain taiga. Ogorodnikov, A.V., (1980, p.58-72, rus) **35-300**

Chemistry of cryogenic mountain forest soils. Zueva, K.G., (1980, p.73-84, rus) **35-301**

Moss and lichen vegetation in northern forest steppes. Afonina, O.M., et al. (1980, p.66-82, rus) **35-393**

Geochemical regimes of mountain soils. Snytko, V.A., et al. (1975, p.44-54, rus) **35-794**

Forest-strip method of reclaiming eroded soils. Budaev, Kh.R., ed. (1976, 159p., rus) **35-799**

Virgin spruce forests of southern taiga. Orlov, A.IA., et al. (1980, p.38-45, rus) **35-955**

Low soil temperature effect on soil metabolism. Meniailo, L.N., et al. (1980, p.70-74, rus) **35-958**

Genesis of gray forest soils. Akhtyrtsev, B.P., (1979, p.521-531, eng) **35-962**

Forest-floor nitrogen dynamics in a birch ecosystem, Alaska. Van Cleve, K., et al. (1980, p.359-381, eng) **35-988**

Microclimatology of northern forests. Ipatov, V.S., et al. (1980, p.14-20, rus) **35-1037**

Forest strip effect on snow distribution. Savin, E.N., ed. (1978, 96p., rus) **35-1091**

Microbiology of taiga soils. Firsova, V.P., et al. (1974, p.147-150, rus) **35-1216**

Productivity of North Karelia forests. Orlov, E.D., (1980, p.100-113, rus) **35-1327**

Studies of forest soils and vegetation in the northeastern USSR. Shcherbakov, I.P., ed. (1971, 176p., rus) **35-1390**

Thermal and water regimes of Yakutian soils. Savvinov, D.D., (1971, p.118-175, rus) **35-1396**

Recent soil processes and fertility of Karelian soils. P'iavchenko, N.I., ed. (1979, 174p., rus) **35-1417**

Cryogenic soils of Kareha. Perevozchikova, E.M., et al. (1979, p.149-168, rus) **35-1419**

Altitudinal zonation of mountain vegetation in the USSR. Staniukovich, K.V., (1980, p.74-81, rus) **35-1440**

Subalpine cryosolic soils in Banff and Jasper National Parks. Achuff, P.L., et al. (1980, p.579-581, eng) **35-1708**

Revegetation of burned areas in North Ural taiga. Kirsanov, V.A., (1976, p.104-113, rus) **35-1919**

Physical properties of mountain taiga soils. Zubareva, R.S., et al. (1976, p.114-123, rus) **35-1920**

Drainage of cryogenic soils in Karelia. Nesterenko, I.M., (1980, p.20-21, rus) **35-2259**

Chemical element transfer in freezing soils. Zolotareva, B.N., et al. (1980, p.65-66, rus) **35-2272**

Hydrothermal regime of deeply freezing saline soils. Voronina, L.V., et al. (1980, p.67-68, rus) **35-2273**

Thermal regime of deeply freezing forest soils. Gorbachev, V.N., (1980, p.69-70, rus) **35-2274**

Soils of taiga and forested bald-peak areas. Ogorodnikov, A.V., (1980, p.81-83, rus) **35-2280**

Litter formation in seasonally freezing forest soils. Krupskaia, L.T., (1980, p.85-86, rus) **35-2282**

Biologic activity of taiga soils. Popova, E.P., (1980, p.98-100, rus) **35-2285**

Thermal properties of drained cryogenic soils. Efremov, S.P., et al. (1980, p.124-126, rus) **35-2295**

Thermal regime of forest soils. Shugalei, I.S., et al. (1980, p.129-131, rus) **35-2296**

Cryogenic soil temperatures in fellage areas. Krasnoshchekov, Iu.N., (1980, p.136-137, rus) **35-2299**

Moss cover effect on soil temperature. Buzykin, A.I., (1980, p.141-143, rus) **35-2300**

Development of grey forest soils. Alifanov, V.M., (1980, p.154-156, rus) **35-2304**

Effect of river flow control on taiga vegetation. Poliushkin, Iu.V., et al. (1979, p.36-50, rus) **35-2322**

Soils of mountain *Pinus sibirica* forests in Central Siberia. Zueva, K.G., (1980, 172p., rus) **35-2330**

Field manual for soil science (according to natural zones). Khantuleva, A.A., ed. (1980, 148p. (pertinent p.15-38), rus) **35-2443**

Theories and methods of plant introduction and landscaping. Proceedings of a republican conference. Kiev, 1978. Grodzinskii, A.M., ed. (1980, 220p., rus) **35-2444**

Concepts of biogeocenoses, ecogenesis and other terms. Smagin, V.N., (1980, p.6-28, rus) **35-2475**

Chemistry of pine forest soils. Kulagina, M.A., (1980, p.98-112, rus) **35-2481**

Microbiology of cryogenic forest soils. Sorokin, N.D., (1980, p.113-130, rus) **35-2482**

Nitrogen and ash-elements in northern forest soils. Morozova, R.M., et al. (1970, p.93-94, rus) 35-2618
Soil mantle in the permafrost-taiga region. Sokolov, I.V., (1980, p.17-28, eng) 35-2761
Seasonal variations of heat balance in taiga. Zhurina, I.I., (1980, p.132-140, rus) 35-3421
Water resources of small river basins. Antipov, A.N., (1980, p.175-184, rus) 35-3424
Mathematical models of water balance in permafrost areas. Nikitin, S.P., (1980, p.213-218, rus) 35-3428
Classification of mountain taiga soils. Molokov, V.A., et al. (1980, p.163-170, rus) 35-3480
Radiation balance of taiga geosystems. Mart'janova, G.N., (1980, p.190-193, rus) 35-3481
Using the Dauriskaya larch in landscaping. Timofeev, P.A., (1980, p.59-63, rus) 35-4102
Organization of spruce ecosystems in southern taiga. Isakov, Ju.V., ed. (1979, 220p., rus) 35-4117
Vegetation of the Valday taiga. Glazov, M.V., (1979, p.10-29, rus) 35-4118
Reforestation of the Valday taiga. Tishkov, A.V., (1979, p.30-69, rus) 35-4119
Microclimate and transpiration of taiga soils. Grishina, I.A., et al. (1979, p.70-85, rus) 35-4120
Seasonal variations of soil water composition in taiga. Grishina, I.A., et al. (1979, p.86-104, rus) 35-4121
Sandy semipodsolic taiga soils. Grigor'ev, A.Ju., (1979, p.176-184, rus) 35-4123
Heat and water balance variations in taiga due to lumbering. Fedorov, S.F., et al. (1979, p.185-193, rus) 35-4124
Genesis of burozems and of brown forest and taiga soils similar to them. Ehwald, E., (1980, p.131-143, eng) 35-4154
Soil pollution by hydrocarbons. Solntseva, N.P., (1981, p.50-58, rus) 35-4278

Forest strips

Forest-strip method of reclaiming eroded soils. Budaev, Kh.R., ed. (1976, 159p., rus) 35-799
Land reclamation in Transbaikal. Budaev, Kh.R., (1976, p.10-17, rus) 35-800
Forest strip effect on snow distribution. Savin, E.N., ed. (1978, 96p., rus) 35-1091
Snow retention in steppes. Tarasenko, A.N., et al. (1978, p.4-11, rus) 35-1092
Snow retention vegetation in steppes. Romanenko, V.R., et al. (1978, p.11-23, rus) 35-1093
Growth and biomass of Siberian larch in forest strips. Popov, V.P., (1978, p.33-44, rus) 35-1095
Forest strip composition and patterns in Siberian steppes. Popova, O.S., (1978, p.44-47, rus) 35-1096
Biomass of narrow forest strips in steppes. Dolgilevich, M.I., et al. (1978, p.57-68, rus) 35-1097
Weeds growing in protective forest strips. Prokudina, N.A., et al. (1978, p.68-75, rus) 35-1098
Forest strip effect on snow cover distribution. Polezhaeva, Z.N., et al. (1978, p.76-83, rus) 35-1099
Snow load damage to forest strips. Tarasenko, A.N., et al. (1978, p.83-90, rus) 35-1100
Biological components of landscapes in the eastern Baykal Amur railroad area. Babushkin, M.N., ed. (1979, 183p., rus) 35-1518
Sustaining ecologic equilibrium in the Baykal Amur railroad zone. Sapozhnikov, A.P., et al. (1979, p.11-26, rus) 35-1520
Snow distribution control by forest strips. Ivanov, A.F., (1980, p.36-39, rus) 35-1859
Forestry problems in permafrost areas. Nikolaiuk, V.A., (1981, p.6-11, rus) 35-4276

Forest tundra

Structure and plant communities in East European forest tundra. Norin, B.N., (1979, 200p., rus) 35-150
Modern pollen spectra from forest tundra, Newfoundland, Canada. Davis, A.M., (1980, p.89-100, eng) 35-221
Phytocenotic structure of larch forest tundras. Norin, B.N., (1979, p.1553-1566, rus) 35-346
Forest line vegetation of tundra. Dem'janov, V.A., (1980, p.926-937, rus) 35-396
Peat deposits in forest tundra swamps. Turkina, O.S., (1980, p.67-71, rus) 35-500
Soils of the lower Ob' forest tundra near the Urengoy deposit. Ivanov, V.V., et al. (1980, p.12-19, rus) 35-533
Pale yellow soils of northern taiga. Sokolov, I.A., et al. (1980, p.30-37, rus) 35-534
Soils of northern peat bogs. Popov, V.A., (1974, p.10-16, rus) 35-688
Geobotanical photointerpretation of northern landscapes. Viktorov, S.V., et al. (1971, p.23-28, rus) 35-756
Geographical problems of Soviet Subarctic. Sochava, V.B., et al. (1972, p.3-20, rus) 35-759
Meteorological consequences of natural or deliberate changes in the surface environment. Vowinckel, E., et al. (1980, p.87-110, eng) 35-1008
Microbiology of forest tundra soils. Ishchenko, N.F., (1974, p.118-121, rus) 35-1215
Soil maps of tundra and forest tundra. Liverovskaia, I.T., (1980, p.18-22, rus) 35-1287
Forest tundra swamps. Neishtadt, M.I., (1980, p.121-124, rus) 35-1340
Studies of forest soils and vegetation in the northeastern USSR. Shcherbakov, I.P., ed. (1971, 176p., rus) 35-1390
Classification of tundra and forest tundra soils. Ignatenko, I.V., (1980, p.26-46, rus) 35-1403
Biomass of tundra swamps. Boch, M.S., (1980, p.47-58, rus) 35-1404
Prospects of rational utilization of natural resources. Vodovozov, S.A., ed. (1980, 113p., rus) 35-1423
Preservation of northern land resources. Mikhailov, I.S., et al. (1980, p.35-41, rus) 35-1424
Larch in taiga and forest tundra of Siberia. Il'ina, I.S., (1980, p.28-44, rus) 35-1426
Vegetation of the European part of the USSR. Gribova, S.A., ed. (1980, 429p., rus) 35-1491
Slope orientation factor in landscape development. Shcherbakov, I.A., (1975, p.24-34, rus) 35-1788
Ice formation in migrating frost mounds of West Siberia according to ice structure analyses. Evseev, V.P., et al. (1979, p.183-193, rus) 35-1839
Geoecology of the Colorado Front Range. Ives, J.D., ed. (1980, 484p., eng) 35-1900
Spruce at its upper limits on the Front Range, Colorado. Wardle, P., (1968, p.483-495, eng) 35-1903
All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct 29-31, 1980. Abstracts. (1980, 203p., rus) 35-2251
Origin, geography, classification and terminology of northern soils. Sokolov, I.A., et al. (1980, p.11-13, rus) 35-2254
Taiga vegetation development in Holocene. Savina, L.N., (1980, p.28-53, rus) 35-2476
Proceedings of a scientific conference of the Institute of Biology. Zaboeva, I.V., ed. (1971, 124p., rus) 35-2604
Meadows of the forest tundra river Yun'-Yakhi. Bratenkova, E.S., et al. (1971, p.5-7, rus) 35-2605
Utilization of forest tundra meadows. Kotelina, N.S., (1971, p.14-16, rus) 35-2606
Biocenotic role of animals in the Yamal forest tundra. Danilov, N.N., ed. (1977, 146p., rus) 35-2866
Influence of rodents on forest tundra grasses. Peshkova, N.V., (1977, p.134-145, rus) 35-2868
Development of tundra science in the USSR. Aleksandrova, V.D., (1980, p.1513-1522, rus) 35-3214
Types of vegetational cover in the Far North. Norin, B.N., (1980, p.1531-1542, rus) 35-3216
Flora of subarctic landscapes of Yakutia. Andreev, V.N., et al. (1980, p.1560-1568, rus) 35-3218
Creeping plants of the White Sea islands. Zabotina, L.N., et al. (1980, p.1779-1784, rus) 35-3220
Landscape indications technique of forecasting permafrost conditions. Moskalenko, N.G., (1980, p.8-18, rus) 35-3307
Increment and defoliation of tundra shrubs. Andreiashkina, N.I., et al. (1981, p.80-83, rus) 35-3510
Proposed ecological natural landmarks in the Brooks Range, Alaska. Bliss, L.C., et al. (1981, 175p., eng) 35-3554
Tundra and taiga vegetation in the Tuva ASSR. Krasnoborov, I.M., (1981, p.112-119, rus) 35-3894
Environmental protection in subpolar regions. Gladkov, V.P., (1979, p.133-140, rus) 35-4107
Biological cycle in forest tundras of the southern Magadan area. Ignatenko, I.V., ed. (1979, 164p., rus) 35-4323
Tundra plants in the Okhotsk Sea area. Mazurenko, M.T., (1979, p.37-91, rus) 35-4327
Biomass and biological cycle in tundras. Ignatenko, I.V., et al. (1979, p.92-124, rus) 35-4328
Algae in cryogenic soils. Pivovarova, Zh.F., et al. (1979, p.125-133, rus) 35-4329
Peat accumulation in drained northern soils. Berman, D.I., et al. (1979, p.134-145, rus) 35-4330
Alpine tundras of the Bol'shoy Annachag Range (upper course of the Kolyma River). Berman, D.I., ed. (1980, 178p., rus) 35-4332
Landscape structure of the Sibit-Tyellakh River basin. Egorova, G.N., (1980, p.32-53, rus) 35-4334

Forestry

Avalanche control in forested mountains. Chagelishvili, R.G., (1976, p.71-75, rus) 35-72
Forestry in northern taiga. Mikhailov, I.P., et al. (1980, p.5-50, rus) 35-881
Forestry resources in the Baykal-Amur Railroad region. Il'ina, L.N., (1980, 12p., eng) 35-978
Development of tree roots in cryogenic saline soils. Lamin, L.A., (1978, p.23-33, rus) 35-1094
Afforestation processes and their control in the European North. L'vov, P.N., et al. (1980, 113p., rus) 35-1897
Thermal regime of forest soils. Shugalei, L.S., et al. (1980, p.129-131, rus) 35-2296
Cryogenic soil temperatures in fellage areas. Krasnoshchekov, Ju.N., (1980, p.136-137, rus) 35-2299
Taiga soil temperature in fellage areas. Sorokin, N.D., (1980, p.143-144, rus) 35-2301
Biomass of green-moss-type taiga. Nadutkin, V.D., et al. (1971, p.50-51, rus) 35-2608
Revegetation of felled areas in northern forests. Ronkonen, N.I., (1970, p.79-81, rus) 35-2616
Introduced plant adaptation in the North. Shtan'ko, A.V., ed. (1977, 176p., rus) 35-2690
Larch introduced in Karelian forests. Valiaev, V.N., (1977, p.75-84, rus) 35-2692
Natural revegetation in Valday spruce forests. Kazanskaia, N.S., et al. (1979, p.158-175, rus) 35-4122
Heat and water balance variations in taiga due to lumbering. Fedorov, S.F., et al. (1979, p.185-193, rus) 35-4124

Forests

Forest cutting and avalanches on heavy snow slopes. Saeki, M., et al. (1981, p.15-20, jap) 35-4203

Formwork (construction)

Instructions for using formwork for cast-in-place reinforced concrete structures. No.3. (1974, 142p., rus) 35-1719
Concrete and reinforced concrete work. Construction manual. Topchii, V.D., ed. (1980, 201p., rus) 35-2880
Winter concreting in heated formwork. Petrukhno, E.P., (1980, p.833-837, eng) 35-3816
Tall block technique of dam construction in the North. Kuperman, V.L., et al. (1981, p.15-18, rus) 35-4282

Fossils

Dating of the fossil tundra in the forefield of Werenskioldbreen. Baranowski, S., (1977, p.31-36, eng) 35-3620
Deep-sea traces from the central Arctic: an analysis of diversity. Kitchell, J.A., (1979, p.1185-1198, eng) 35-4224

Foundations

Settlement of pile foundations in clayey water-saturated soils. Troshkova, N.D., (1979, p.29-30, rus) 35-4
Eliminating frost heave on railroads. Lukanin, A.M., (1980, p.25, rus) 35-7
Construction of bases and foundations on frozen ground in China. Zhuo, C., (1980, p.1-5, chi) 35-79
Pile foundations for weak ground. Shapiro, V.D., et al. (1980, p.4-6, rus) 35-94
Cost of foundation construction in the Arctic. Andriushkin, E.E., (1980, p.8-9, rus) 35-95
Compressor plant construction in cold regions. Lysiuk, V.F., et al. (1980, p.18-19, rus) 35-96
Pile foundation construction in northern swamps. Barskii, B.L., (1980, p.19-20, rus) 35-97
Heat transfer in freezing soils. Bronfenbrener, L.E., et al. (1980, p.6-8, rus) 35-101
Changes in seismic and permafrost conditions of developed areas. Sharapov, V.G., (1980, p.179-190, rus) 35-142
Foundation construction on clayey grounds. Ikonin, S.V., et al. (1980, p.42-47, rus) 35-227
Designing pile foundations for sagging grounds. Klepikov, S.N., et al. (1980, p.53-58, rus) 35-229
Deformation of loess beneath foundations. Tugaenko, I.F., et al. (1980, p.85-97, rus) 35-231
Designing inflatable structures for cold regions. Kozhevnikov, S.N., (1979, p.125-127, rus) 35-244
Foundation performance of a steel tower silo at Richmond, Ontario. Scott, J.D., et al. (1980, p.85-89, eng) 35-277
Modeling the strength and stability of roadbeds. IAkovleva, T.G., et al. (1980, 255p., rus) 35-281
Pumping aggregate foundations for northern gas mains. Makar, R.M., et al. (1980, p.11-12, rus) 35-312
Cements for swamp soil stabilization. Vasil'ev, M.P., et al. (1980, p.23-24, rus) 35-313
Drilling in permafrost with compressed air circulation. Tokar', M.G., (1980, p.28-29, rus) 35-355
Deformation of buildings and foundations in permafrost areas. Barabanshchikov, S.G., et al. (1980, p.7-9, rus) 35-449
Soil freezing beneath cold-storage plants. Fedorovich, D.I., et al. (1970, p.81-83, eng) 35-498
Artificial cooling of permafrost bases. Makarov, V.I., (1980, p.37-41, rus) 35-596
Cement injection technique for thawed permafrost. Shugalei, R.T., et al. (1980, p.63-64, rus) 35-597
Exhibition: Foundation construction in the USSR. Smirnov, L.V., (1980, p.42-45, rus) 35-608
Construction of the Baykal-Amur railroad. Smirnov, I.V., (1980, p.44-47, rus) 35-610
Design standards SNiP II-47-80 "Airports". Demin, I.D., (1980, p.17-18, rus) 35-612
Deformation of peat bearing grounds. Kukushkin, V.A., et al. (1980, p.10-12, rus) 35-623
Artificial freezing of the ground in underground construction. Trupak, N.G., (1979, 452p., eng) 35-704
Precast reinforced concrete foundations on freezing soil. Kuracheva, N.V., (1980, p.17, rus) 35-784
Construction of foundations in permafrost. Linell, K.A., et al. (1980, 310p., eng) 35-886
Construction of pile foundations on permafrost. Fedorovich, D., et al. (1980, p.42-45, rus) 35-929
Cost of road construction in northern swamps. Vasiliuk, V.A., (1980, p.2-3, rus) 35-1030
Structural design and construction on permafrost. Il'ovskaia, A.P., et al. (1980, p.4-5, rus) 35-1031
Road construction on peat. Golovkov, A.T., et al. (1980, p.19-20, rus) 35-1033
Science assists the builders of Siberia and the Far East. Chentemirov, M.G., (1980, 192p., rus) 35-1136
Construction of river harbors under severe climatic conditions. Rikhter, O.B., et al. (1980, p.18-20, rus) 35-1299
Modular construction in cold regions except permafrost areas. Boev, A.A., et al. (1980, p.31-32, rus) 35-1308

Foundations *(cont.)*
Experimental investigation of the distribution of stresses in large bored situ-cast piles. Grigorian, A.A., et al, (1980, p.102-106, eng) 35-1384
Reinforced concrete piles driven into weak soils. Timofeev, B.I., et al, (1980, p.107-110, eng) 35-1385
Methodology for foundations on expansive clays. O'Neill, M.W., et al, (1980, p.1345-1367, eng) 35-1495
Bored situ-cast piles in bridge construction on permafrost. Rasskazov, I.D., et al, (1980, p.7-9, rus) 35-1526
Design of residential and public buildings for the first climatic zone. Belova, G.M., ed, (1973, 75p., rus) 35-1596
Foundations on deeply freezing sands. Dokuchaev, V.V., et al, (1973, p.3-11, rus) 35-1597
Studying clay shale deformation during thawing. Dokuchaev, V.V., et al, (1973, p.12-22, rus) 35-1598
Strength of pile foundations in permafrost. Gerasimov, A.S., (1973, p.23-27, rus) 35-1599
Mechanical properties of saline frozen grounds. Markin, K.F., (1973, p.28-49, rus) 35-1600
Strength of frozen saline loams. Aksenov, V.I., (1973, p.50-54, rus) 35-1601
Strength of frozen sandy loam. Artemov, Z.P., (1973, p.55-61, rus) 35-1602
Deformation of ground ice. Dokuchaev, V.V., et al, (1973, p.62-67, rus) 35-1603
Earth dam subgrades not susceptible to frost heave. Edapin, V.A., (1980, p.28-29, rus) 35-1642
Modern foundation design for buildings and underground structures. (1980, p.7-9, rus) 35-1647
Swelling of frozen soils and its effect on structure foundations. Orlov, V.O., et al, (1980, 286p., eng) 35-1697
Foundation design manual for buildings and structures. (1977, 276p., rus) 35-1711
Chemical prevention of frost heave. (1974, 17p., rus) 35-1712
Instructions for designing caissons lowered in thixotropic sleeves. (1976, 39p., rus) 35-1713
Bases and foundations. (1976, 96p., rus) 35-1715
Prefabricated low-story construction in the Far North. Sudakov, V.V., (1980, p.32-39, eng) 35-1969
Analysis of foundations in permafrost. Vialov, S.S., et al, (1980, p.97-117, eng) 35-1974
Design of foundations in areas of significant frost penetration. Linell, K.A., et al, (1980, p.118-184, eng) 35-1975
Design of foundations for buildings in discontinuous permafrost. Phukan, A.H., (1980, p.185-203, eng) 35-1976
Foundations on complex permafrost soils. Velli, Y.J., (1980, p.204-217, eng) 35-1977
Construction of piling foundations in permafrost. Sadovskii, A.V., et al, (1980, p.218-228, eng) 35-1978
Subgrade cooling for stabilization of permafrost beneath structures. Barthelemy, J.L., (1980, p.235-261, eng) 35-1980
Cryo-anchor-proven performance for Arctic foundation stabilization. Cady, E.C., (1980, p.262-278, eng) 35-1981
Permafrost engineering research on Spitsbergen. Gregersen, O., (1980, p.3-6, eng) 35-1988
Permafrost and construction work in Svalbard. Mellerud, O.T., (1980, p.39-43, nor) 35-1992
Stackwall small log buildings for remote areas. Sparling, A.B., et al, (1981, p.333-347, eng) 35-2512
Shallow foundations in continuous permafrost. Phukan, A., (1981, p.664-677, eng) 35-2529
Construction and performance of frozen gravel fills. Tart, R.G., et al, (1981, p.693-704, eng) 35-2531
Construction of Severobaykal'sk. Savel'ev, R.V., (1980, p.16-18, rus) 35-2631
Architectural projects for the North. Gaidukova, N.I., et al, (1980, p.9-12, rus) 35-2632
Use of piling in frozen ground. Crory, F.E., (1980, 21 p., eng) 35-2711
Piles in permafrost for bridge foundations. Crory, F.E., et al, (1967, 41p., eng) 35-2753
Using textile interlayers in road construction. Tabakov, N.V., et al, (1980, p.4-7, rus) 35-2777
Hydraulic models for studying temperature fields beneath embankments. Vasserman, S.N., et al, (1980, p.12-15, rus) 35-2779
Soil temperature decrease beneath thermopile foundations. Gorelik, I.A.B., et al, (1980, p.19-20, rus) 35-2781
Pipeline foundations for Siberian swamps. Sokolov, S.M., et al, (1980, p.21-23, rus) 35-2782
Power line support foundations in South Yakutia. Tkachenko, A.A., et al, (1981, p.46-49, rus) 35-2783
Polymer fabrics for soil stability in foundation construction. (1981, p.14, eng) 35-2839
Pile foundation types used in permafrost areas. Chizhevskii, M.V., (1981, p.125-127, eng) 35-2840
Driving piles into plastic permafrost. Novozhilov, G.F., (1981, p.16-18, rus) 35-2851
Construction of seismically stable structures on permafrost. Kharitonov, V.A., (1980, 79p., rus) 35-2872
Construction of bulk plants and gasoline stations. Groznov, G.A., et al, (1980, 332p. (Pertinent p.56-147), rus) 35-2873
Foundation construction on peat soils. Konovalov, P.A., (1980, 161p., rus) 35-2997
Deep sea piers in the Arctic. Tsaliuk, I.G., et al, (1981, p.17-18, rus) 35-3013
Engineering studies of frozen ground. Soil properties and the dynamics of cryogenic processes. Gur'ianov, I.E., ed, (1981, 159p., rus) 35-3280
Mechanical interaction between piles and permafrost. Gaidaenko, E.I., (1981, p.140-154, rus) 35-3292
Rig foundations for deep drilling in the North. Belotserkovskaia, G.V., (1981, p.12-13, rus) 35-3341
Pile foundations for northern oil-pumping stations. Chizhevskii, M.V., (1981, p.14-15, rus) 35-3343
Permafrost. Engineering design and construction. Johnston, G.H., ed, (1981, 540p., eng) 35-3703
Road construction manual for engineers. Bochin, V.A., ed, (1980, 511p. (Pertinent p.367-498), rus) 35-3888
Peculiarities of foundation design in petroleum provinces of West Siberia. Konovalov, A.A., et al, (1981, 167p., rus) 35-3918
Pile foundations on permafrost. Kopysov, N.S., et al, (1978, p.101-106, rus) 35-4115
Thermal interaction between buildings on base fills and frozen soil. Tishin, V.G., (1981, p.240-244, eng) 35-4150
Integral methods of determining the parameters of one-dimensional consolidation. Bartolomei, A.A., et al, (1981, p.250-255, eng) 35-4151
Power supply to the Baykal Amur railroad. Petrov, N.K., (1981, p.2-5, rus) 35-4226
Construction of steam power stations in the North. Takh, M.G., (1981, p.26-28, rus) 35-4229
Oil pumping stations in cold regions. Manasypov, F.S., (1981, p.33-34, rus) 35-4242
Earth dams and embankment construction in permafrost areas. Bezrukov, V.F., et al, (1981, p.18-19, rus) 35-4245
Preparation of construction sites in cold regions. Pavlov, V.I., et al, (1981, p.23-25, rus) 35-4246
Economic development of the North. Gromov, N.N., et al, (1981, p.25-30, rus) 35-4287
Calculating foundations on saturated bases for dynamic loads. Krasnikov, N.D., et al, (1981, p.7-21, rus) 35-4288

Fracture zones
Mining excavations in ice-bearing granites. Gol'dtman, V.G., (1976, p.73-76, rus) 35-3832

Fracturing
Formation and movements of rock streams. Tiurin, A.I., et al, (1978, p.104-106, rus) 35-19
Modeling hard rock slope resistance to earthquakes. Tselikov, F.I., et al, (1980, p.121-125, rus) 35-147
Laws and mechanisms of apparent brittle fracture of river and lake ice. Carter, D., et al, (1971, 393p., fre) 35-330
Fracture toughness of sea ice. Urabe, N., et al, (1980, p.29-37, eng) 35-816
Fracture behavior of ice in Charpy impact testing. Itagaki, K., et al, (1980, 13p., eng) 35-973
Fracture strength of polycrystalline ice containing KCl. Ogawa, K., et al, (1978, p.1-9, jap) 35-1171
Frost fracturing processes. Tumel', N.V., (1979, p.26-49, rus) 35-1829
Concrete dam of the Ust'-Ilim hydroelectric power plant (Field observations and studies). Eidel'man, S.IA., et al, (1981, 137p., rus) 35-3898

France
Snow and avalanche research in France. Brugnot, G., (1980, p.73, eng) 35-2162
Avalanche zoning in France: regulation and technical bases. Crecy, L. de, (1980, p.325-330, eng) 35-2375
Avalanche statistics for France, winter 1979-1980. (1980, p.3-20, fre) 35-3981

—Alps
Selected papers from the Franco-Soviet Symposium on the Alps and Caucasus. (1981, p.219-403, fre) 35-3739
Comparative geomorphology of mountain systems of the Alps and Caucasus. Bravard, Y., et al, (1981, p.313-318, fre) 35-3741
Climatic regime of glaciers and their oscillations. Golubev, G.N., et al, (1981, p.319-328, fre) 35-3742
Resemblances and differences in vegetation of the Alps and Caucasus. Grebenshchikov, O.S., et al, (1981, p.333-352, fre) 35-3743

Frazil ice
Frazil ice and anchor ice and their resistance effect in rivers. Tsang, G., (1979, p.127-138, eng) 35-408
Using a kinetic equation for describing the frazil ice formation process. Abramenkov, N.M., (1980, p.97-104, rus) 35-932
Modeling of ice in rivers. Ashton, G.D., (1979, p.14-1-14-26, eng) 35-1127
Frazil ice in rivers and oceans. Martin, S., (1981, p.379-397, eng) 35-2240
Proceedings of Workshop on Hydraulic Resistance of River Ice, Sep. 1980. (1981, 301p., eng) 35-2539
Hydraulic resistance generated by frazil ice formation. Gosink, J.P., et al, (1981, p.192-194, eng) 35-2551
Harnessing frazil ice. Perham, R.E., (1981, p.227-237, eng) 35-2554
Acoustic detection of frazil formation. Hanley, T.O., et al, (1981, p.238-241, eng) 35-2555
Limitations to numerical modelling of ice in rivers. Petryk, S., et al, (1981, p.243-262, eng) 35-2556
Recent improvements in numerical modelling of river ice. Petryk, S., et al, (1981, p.263-280, eng) 35-2557
Operating water intakes in freezing weather. Medvedev, T.A., (1981, p.4-5, rus) 35-2773
Formation of sediment-laden sea ice. Osterkamp, T.E., et al, (1981, p.641-662, eng) 35-3268
Observed growth of brash ice in ship's tracks. Sandkvist, J., (1980, 23p. + 42 figs., eng) 35-3710
Water supply conveyance problems in winter at high altitudes. Garstka, W.U., et al, (1981, p.735-742, eng) 35-4165
Surface heat loss and frazil ice production in the St Lawrence River. Shen, H.T., (1980, p.996-1001, eng) 35-4254

Freeze drying
Freeze-dried and critical-point-dried clay: a comparison. Murray, R.S., et al, (1980, p.232-234, eng) 35-224

Freeze thaw cycles
Thermal expansion of frozen rocks. Batalov, D.M., et al, (1978, p.51-55, rus) 35-62
Seasonal moisture regimes of roadbeds. Efimenko, V.N., et al, (1977, p.95-103, rus) 35-75
Formation of Siberian loesses. Koliago, S.A., (1980, p.5-20, rus) 35-296
Allowing for low temperature effects in structural design. Milovanov, A.F., et al, (1980, p.25-26, rus) 35-471
Freezing and melting temperatures of soil water. Homshaw, L.G., (1980, p.399-414, eng) 35-487
Frost action on immature cement paste: microstructural features. Kayyali, O.A., et al, (1980, p.264-268, eng) 35-523
Geological processes in the high alpine environment. Rold, J.W., (1980, p.207-209, eng) 35-591
Nivation cirques and rivers as self-organizing systems. Armand, A.D., (1980, p.3-15, rus) 35-778
Frost action on immature cement paste: effects on mechanical behavior. Zaman, M.S., et al, (1980, p.386, eng) 35-825
Concrete properties in relation to extended freeze-thaw cycles. Pigeon, M., et al, (1980, p.407-420, fre) 35-834
Research of periglacial morphology in Finland. Aartolahti, T., (1980, p.74-87, fin) 35-1071
Origin of hummocks, western Arctic coast, Canada. Mackay, J.R., (1980, p.996-1006, eng) 35-1265
Water balance of northern swamps. Ershova, L.M., (1977, p.39-47, rus) 35-1293
Deformation of loaded concrete beams at subzero temperature. Gorchakov, G.I., et al, (1980, p.7-9, rus) 35-1650
Quick method of determining frost resistance of concrete. Piralov, T.S., et al, (1980, p.16, rus) 35-1651
Freeze-thaw activity at a nivation site in northern Norway. Hall, K., (1980, p.183-194, eng) 35-1660
Moisture redistribution in frozen soils (based on field observations). Parmuzina, O.IU., (1979, p.194-197, rus) 35-1840
Quantitative evaluation of nivation in the Colorado Front Range. Thorn, C.E., (1976, p.1169-1178, eng) 35-1901
Overconsolidated surficial deposits on the Beaufort Sea shelf. Reimnitz, E., et al, (1980, 37p., eng) 35-1914
Analysis of foundations in permafrost. Vialov, S.S., et al, (1980, p.97-117, eng) 35-1974
Design of foundations in areas of significant frost penetration. Linell, K.A., et al, (1980, p.118-184, eng) 35-1975
Design of foundations for buildings in discontinuous permafrost. Phukan, A.H., (1980, p.185-203, eng) 35-1976
Calculating frost resistance of steel structures. Shafrai, S.D., (1980, p.26-31, rus) 35-2101
Slope processes in cold environment of northern Finland. Soderman, G., (1980, p.83-152, eng) 35-2105
Use of a geothermal model in northern municipal projects. Kent, D., et al, (1980, p.317-331, eng) 35-2126
Indications of cryogenic soils. Gugalinskaia, L.A., (1980, p.33-35, rus) 35-2264
Moisture transfer in freezing soils. Sen'kov, A.A., (1980, p.111-113, rus) 35-2291
Thermal regime of forest soils. Shugalei, L.S., et al, (1980, p.129-131, rus) 35-2296
Dynamics of thermal processes. Shvets, I.T., ed, (1980, 180p., rus) 35-2334
Weathering of sandstone by the combined action of frost and salt. Williams, R.B.G., et al, (1981, p.1-9, eng) 35-2338
Frost resistant fiber reinforced concretes. Ekibaeva, A.A., et al, (1980, p.134-142, rus) 35-2426
Forecasting and controlling soil moisture in roadbeds. Korsunskii, M.B., et al, (1980, p.17-19, rus) 35-2637
Frost resistance of polymer concretes. Granovskaia, I.V., et al, (1981, p.51, rus) 35-2847
Freeze thaw regularity of railway bed in permafrost. Zhu, Y., (1980, p.38-43, chi) 35-2917
Solving freeze-thaw problems for clays. Gur'ianov, I.E., (1981, p.36-45, rus) 35-3283

Distribution of rock glaciers and permafrost, based on freezing and thawing indices — Harris, S.A., (1981, p.376-381, eng) **35-3513**

Forecasting frost resistance of concretes — Sheikin, A.E., et al, (1980, p.3-17, rus) **35-3525**

Some perspectives on frost shattering — McGreevy, J.P., (1981, p.56-75, eng) **35-3564**

Slope and slope processes — Mosley, M.P., (1981, p.114-122, eng) **35-3565**

Cylindrical phase change approximation with effective thermal diffusivity — Lunardini, V.J., (1981, p.147-154, eng) **35-3671**

Determination of the thermophysical characteristics of alternatively freezing and thawing dispersed media by the method of solving inverse problems of heat conduction — Pavlov, V.R., et al, (1981, p.886-889, eng) **35-3817**

Concrete dam of the Ust'-Ilim hydroelectric power plant (Field observations and studies) — Edel'man, S.I.V., et al, (1981, 137p., rus) **35-3898**

Vegetation of the Valday taiga — Glazov, M.V., (1979, p.10-29, rus) **35-4118**

Linear expansion due to freezing and other properties of bricks — Davison, J.I., (1981, 24p., eng) **35-4209**

Acoustic measurement of the frost resistance of concretes — Filonikov, V.M., (1981, p.14-15, rus) **35-4228**

Water proofing massive concrete in freezing weather — Alekseenko, I.N., et al, (1981, p.67-71, rus) **35-4291**

Formation of meltwater losses — Kaluzhnyi, I.L., et al, (1981, 160p., rus) **35-4311**

Freeze thaw cycles and air void spacing factors for concretes — Pigeon, M., et al, (1981, p.282-291, eng) **35-4315**

Freeze thaw tests

NMR study of the freezing thawing mechanism of water in polyacrylamide gel — Katayama, S., et al, (1980, p.2320-2325, eng) **35-443**

Laboratory measurements of subsurface displacements during thaw of low-angle slopes of a frost-susceptible soil — Rein, R.G., Jr., et al, (1980, p.349-358, eng) **35-1670**

Neumann solution applied to soil systems — Lunardini, V.J., (1980, 7p., eng) **35-1893**

Strength and freeze thaw tests of concrete mixed with furnace slag — Malhotra, V.M., (1979, 26p., eng) **35-2164**

Strength and freeze thaw tests of concrete mixed with furnace slag — Malhotra, V.M., (1979, 26p., eng) **35-3410**

Freezeup

Ice regime of the Indian River, Ontario, during the freezeup — Price, J., (1980, p.110-120, eng) **35-44**

Interpretation of Alberta ice jams data — Michel, B., (1980, 15p., eng) **35-839**

Discharge water level relationship for ice cover stability — Carson, R.K., et al, (1981, p.112-120, eng) **35-2546**

Freezeup ice jams on the Peace River near Taylor — Keenhan, T., et al, (1981, p.162-181, eng) **35-2549**

Hydraulic resistance generated by frazil ice formation — Gosink, J.P., et al, (1981, p.192-194, eng) **35-2551**

Patterns of freeze-up in lake Melville — Bobbitt, J., et al, (1980, p.266-286, eng) **35-3098**

Ice formation and breakup on Lake Champlain — Bates, R.E., (1980, p.125-143, eng) **35-3153**

Freezing

On the vertical displacement of small stones in a shallow pond by freezing — Ohata, T., (1978, p.67-70, eng) **35-56**

Freezing on the undersurface of the Ross Ice Shelf, Antarctica — Zotikov, I.A., et al, (1979, p.1454-1457, rus) **35-437**

Heat and mass transfer from freely falling drops at low temperatures — Zarling, J.P., (1980, 14p., eng) **35-594**

Organic admixtures in frozen water-salt systems — Kovalev, O.I., et al, (1980, p.377-379, rus) **35-1388**

Planar freeze front during solidification of an aqueous solution — O'Callaghan, M.G., et al, (1980, p.673-677, eng) **35-1678**

Flow instability during turbulent flow freezing in a horizontal tube — Thomason, S.B., et al, (1980, p.782-784, eng) **35-1679**

Low temperature stress in crop plants, the role of the membrane — (1979, 565p., eng) **35-1849**

Origin of pingos in regions of thick permafrost, western Canadian Arctic — Pissart, A., et al, (1977, p.149-160, eng) **35-1884**

Simple ice phase parametrization — Stephens, M.A., (1979, 122p., eng) **35-1899**

Relationship between frost heave and areas of bearing plates — Tong, C.G., et al, (1981, p.741-748, eng) **35-2535**

Molecular theory for the solid-liquid interface — Haymet, A.D.J., et al, (1981, p.2559-2565, eng) **35-2709**

Rapid ice building examined in Alaska — (1980, p.10, eng) **35-2857**

Pore water pressure of saturated gravel during freezing — Chen, X., et al, (1980, p.33-37, chi) **35-2916**

Tube freezing for conduction- or convection-controlled heat transfer — Sparrow, E.M., et al, (1981, p.273-284, eng) **35-3272**

Heat Transfer — San Diego, 1979 — (1979, 315p., eng) **35-3347**

Crust behavior in simultaneous melting on a submerged flat plate — Ganguli, A., et al, (1979, p.40-53, eng) **35-3348**

Stefan-like problems in finite geometry — El-Genk, M.S., et al, (1979, p.69-80, eng) **35-3350**

Penetration of a freezing liquid into an annular channel — Kuzay, T.M., et al, (1979, p.95-102, eng) **35-3352**

Heat transfer during solidification around a cooled horizontal cylinder — Bathelt, A.G., et al, (1979, p.103-111, eng) **35-3353**

Thermal performance of a phase-change material — Godfrey, R.D., et al, (1979, p.127-133, eng) **35-3356**

Surface ablation by melting or sublimation on a submerged rotating disc — Condiff, D.W., et al, (1979, p.134-147, eng) **35-3357**

Model of rotating convective rolls in water over a freezing front — Azouni, M.A., (1981, p.450-454, eng) **35-3521**

Naled type of ice in front of some Spitsbergen glaciers — Baranowski, S., (1977, p.85-89, eng) **35-3623**

Transient freezing of liquids in tube flow — Cheung, F.B., et al, (1976, p.1-9, eng) **35-3922**

Occurrence of ice layers at the base of high arctic snowpacks — Woo, M.-K., et al, (1981, p.225-230, eng) **35-4095**

Linear expansion due to freezing and other properties of bricks — Davison, J.I., (1981, 24p., eng) **35-4209**

Exchange crystallization freeze desalination process — Johnson, D.W., et al, (1976, p.231-240, eng) **35-4295**

Numerical method for the two-dimensional freezing problem around a horizontal cylinder encompassing a density inversion point — Saitoh, T., et al, (1981, p.147-152, eng) **35-4314**

Freezing indexes

Winter severity index for the Great Lakes — Assel, R.A., (1980, p.1440-1445, eng) **35-883**

Frost depth prediction for highway subgrade soils — Haas, W.M., et al, (1981, p.719-733, eng) **35-2533**

Distribution of rock glaciers and permafrost, based on freezing and thawing indices — Harris, S.A., (1981, p.376-381, eng) **35-3513**

Freezing nuclei

Frozen drops observed at Fairbanks, Alaska — Sakurai, K., et al, (1981, p.73-76, eng) **35-4265**

Freezing points

Freezing of fine grained rocks — Ananian, A.A., (1980, p.130-135, rus) **35-767**

Comment on "pressure melting" — Martin, R.T., (1980, p.89, eng) **35-822**

Melting of ice in cold stratified water — Huppert, H.E., et al, (1980, p.953-960, eng) **35-1060**

Crystallization of precipitation droplets — Kazankova, Z.P., (1975, p.72-76, rus) **35-1617**

Gasoline: progress is slow but encouraging — (1980, p.18-19, 45-47, eng) **35-2008**

Surface widths of simple liquids and an empirical law of freezing — Mon, K.K., et al, (1981, p.2078-2080, eng) **35-2461**

Unfrozen water content of subsea permafrost — Tice, A.R., et al, (1980, p.400-412, eng) **35-2755**

"Spinodals" in the mean field theory of freezing — Klein, W., et al, (1981, p.6960-6964, eng) **35-3693**

Freezing potential (electrical)

Freezing potentials in wet clays — I. Early results — Hanley, T.O., et al, (1980, p.163-168, eng) **35-731**

Freezing potentials in wet clays — 2. Specific systems — Rao, S.R., et al, (1980, p.169-175, eng) **35-732**

Freezing rate

Convection-controlled and conduction-controlled freezing — Sparrow, E.M., et al, (1981, p.7-12, eng) **35-2146**

Oxygen and hydrogen isotope effects on freezing of soil water — Michel, F., et al, (1978, 43p., eng) **35-2537**

Some perspectives on frost shattering — McGreevy, J.P., (1981, p.56-75, eng) **35-3564**

Friction

Numerical simulation of snow avalanche impact on structures — Lang, T.E., et al, (1980, 21p., eng) **35-849**

Symposium on snow in motion — (1980, 527p., eng) **35-2342**

Calculations of avalanche friction coefficients from field data — Martinelli, M., Jr., et al, (1980, p.109-119, eng) **35-2354**

Run-out distance of avalanches and friction coefficients — Buser, O., et al, (1980, p.121-130, eng) **35-2355**

Modeling of snow flow — Dent, J.D., et al, (1980, p.131-140, eng) **35-2356**

Two-parameter model of snow-avalanche motion — Perla, R., et al, (1980, p.197-207, eng) **35-2362**

Observations of ground avalanches with a video tape recorder (VTR) — Akitaya, E., (1980, p.493-496, eng) **35-2389**

Proceedings of Workshop on Hydraulic Resistance of River Ice, Sep. 1980 — (1981, 301p., eng) **35-2539**

Investigation of the resistance coefficient for the underside of ice covers — Chee, S.P., et al, (1981, p.23-33, eng) **35-2541**

Resistance of Beauharnois Canal in winter — Tsang, G., (1981, p.57-78, eng) **35-2543**

Hydraulic resistance of the ice cover in the St. Lawrence River — Witherspoon, D.F., (1981, p.79-93, eng) **35-2544**

Discharge water level relationship for ice cover stability — Carson, R.K., et al, (1981, p.112-120, eng) **35-2546**

Characteristics of flow below a rough floating cover — Gogus, M., et al, (1981, p.122-142, eng) **35-2547**

Breakup process and ice jams on the Athabasca River — Andres, D.D., (1981, p.143-161, eng) **35-2548**

Hydraulic resistance generated by frazil ice formation — Gosink, J.P., et al, (1981, p.192-194, eng) **35-2551**

Hanging dams in the Manitoba Hydro System — Hopper, H.R., et al, (1981, p.195-208, eng) **35-2552**

Limitations to numerical modelling of ice in rivers — Petryk, S., et al, (1981, p.243-262, eng) **35-2556**

Hydraulic resistance of ice cover and ice jams — Gerard, R., (1981, p.296-298, eng) **35-2559**

Turbulent structure of the Arctic Ocean — Behakov, I.N., et al, (1979, p.116-120, rus) **35-4195**

Fronts (meteorology)

Oceanology from space — Burmitskii, V.Kh., ed, (1980, 167p., rus) **35-1343**

Eddy formation in oceanic Subarctic fronts — Bulatov, N.V., (1980, p.61-72, rus) **35-1346**

Studying winter frontal cloud boundaries from radar data — Zabolotskaia, I.N., et al, (1980, p.142-145, rus) **35-2996**

Frost

Mars south polar spring and summer temperatures: a residual CO2 frost — Kieffer, H.H., (1979, p.8263-8288, eng) **35-1104**

H2O frost point detection on Mars — Ryan, J.A., et al, (1981, p.503-511, eng) **35-3602**

Frost action

Frost action on immature cement paste: microstructural features — Kayyali, O.A., et al, (1980, p.264-268, eng) **35-523**

Concrete structure protection against humidity, frost and salt — Weyer, P., (1980, p.173-177, ger) **35-567**

Studies in the Lateglacial of north-west Europe — Lowe, J.J., ed, (1980, 205p., eng) **35-796**

Frost action on immature cement paste: effects on mechanical behavior — Zaman, M.S., et al, (1980, p.38p, eng) **35-825**

Construction of foundations in permafrost — Ineli, K.V., et al, (1980, 310p., eng) **35-886**

Damage to bridge parapets by frost and salting — Studer, W., (1980, p.364-366, ger) **35-896**

Origin of hummocks, western Arctic coast, Canada — Mackay, J.R., (1980, p.996-1006, eng) **35-1265**

Weathering in glacial, temperate and tropical climatic zones — Brunsden, D., (1979, p.73-129, eng) **35-1686**

Frost fracturing processes — Tumel', N.V., (1979, p.26-49, rus) **35-1829**

Experimental determination of the processes producing small polygonal sorted alpine soils — Pissart, A., (1974, p.241-248, fre) **35-1943**

Development of grey forest soils — Ahlanov, V.M., (1980, p.154-156, rus) **35-2304**

Influence of Pleistocene geocryology on recent soil formation — Vorob'eva, G.V., et al, (1980, p.169-171, rus) **35-2307**

Development of polygonal wedge microrelief — Romanovskii, N.N., (1974, p.67-78, rus) **35-2397**

Vegetation and forest dynamics of the upper Dietrich River Valley, Alaska — Densmore, D., (1980, p.183p., eng) **35-2408**

Northern community: a search for a quality environment — (1981, 286p., eng) **35-2496**

Protecting structures from frost damage — Chen, X., (1981, p.734-740, eng) **35-2534**

Pothole primer, a public administrator's guide to understanding and managing the pothole problem — Eaton, R., coord, (1981, 24p., eng) **35-2758**

Problems in roadbed stability of the Ching-hai Tibet highway — (1979, p.43-51, chi) **35-2902**

Facies of soil cryogenesis and peculiarities of soil profile arrangement in them — Makeev, O.V., (1981, 87p., rus) **35-3053**

Isotope methods of studying rock stream formation — Morkovkina, I.K., et al, (1981, p.90-96, rus) **35-3300**

Frost shattering of ground in Transbaikal steppes — Bazhenova, O.I., (1980, p.107-115, rus) **35-3473**

Safety rules for docking ships under severe climatic conditions — Ivanov, I.V., et al, (1980, 152p., rus) **35-3897**

Microband fabric in seasonally frozen soils — Mermut, A.R., et al, (1981, p.578-586, eng) **35-4082**

Frost forecasting

Frost forecasting in the Baykal-Amur railroad area — Gol'tsberg, I.A., (1980, p.16-22, rus) **35-1195**

Frost forecasts for Siberia — Khramtsova, I.G., (1980, p.48-55, rus) **35-1361**

Frost depth prediction for highway subgrade soils — Haas, W.M., et al, (1981, p.719-733, eng) **35-2533**

Distribution of subzero air temperatures in Caucasian mountains — Aslanikashvili, N.A., et al, (1980, p.80-88, rus) **35-2988**

Frost heave

Dimensions of frost heave humps — Gritsyk, V.I., (1980, p.23-25, rus) **35-6**

Eliminating frost heave on railroads — Lukanin, V.M., (1980, p.25, rus) **35-7**

Frost heave *(cont.)*

Cryogenic processes in the Baykal Amur railroad area Tsykhanov, A.M., (1978, p.99-101, rus) **35-16**

Introduction of a measure of anti-frost heave by drainage ditch in the tunnel Nie, F., (1980, p.44-45, chi) **35-88**

Frost heave and frost heaving forces Chen, X., (1980, p.36-40, chi) **35-124**

Frost resistance of road structures Savko, N.F., (1980, p.17-19, rus) **35-480**

Soil freezing beneath cold-storage plants Fedorovich, D.I., et al. (1970, p.81-83, eng) **35-498**

Modern methods of road construction Smirnov, I.V., (1980, p.45-47, rus) **35-609**

Conference on Soil-Water Problems in Cold Region, 4th, 1979 (1980, 262p., eng) **35-724**

Model for frost heave including overburden Hopke, S.W., (1980, p.111-127, eng) **35-726**

Simple energy balance model of ice segregation Outcalt, S., (1980, p.145-151, eng) **35-729**

Thermal fields during regelation Philip, J.R., (1980, p.193-203, eng) **35-735**

Frost heave in an instrumented soil column Berg, R., et al. (1980, p.211-221, eng) **35-737**

Summary of the adsorption force theory of frost heaving Takagi, S., (1980, p.233-236, eng) **35-739**

Computation of rate of heave versus load under quasi-steady state Miller, R.D., et al. (1980, p.243-251, eng) **35-741**

Frost heave model based upon heat and water flux Guymon, G.L., et al. (1980, p.253-262, eng) **35-742**

Asbestos pipelines in freezing ground Dalmatov, B.I., et al. (1980, p.13-16, rus) **35-783**

Precast reinforced concrete foundations on freezing soil Kuracheva, N.V., (1980, p.17, rus) **35-784**

Theory and application of ground freezing in civil engineering Jessberger, H.L., (1980, p.3-27, eng) **35-815**

Adsorption force theory of frost heaving Takagi, S., (1980, p.57-81, eng) **35-819**

Adsorbed film controversy Miller, R.D., (1980, p.83-86, eng) **35-820**

Construction of foundations in permafrost Linell, K.A., et al. (1980, 310p., eng) **35-886**

Model for the prediction of ice lensing and frost heave in soils Gilpin, R.R., (1980, p.918-930, eng) **35-1492**

Equations speed permafrost-area line analysis King, G.G., (1980, p.80-84, eng) **35-1498**

Foundations on deeply freezing sands Dokuchaev, V.V., et al. (1973, p.3-11, rus) **35-1597**

Plastic covers for preventing frost heave Vottov, S.A., (1979, p.75-84, rus) **35-1626**

Sub-surface processes related to ground water and ice Embleton, C., et al. (1979, p.187-212, eng) **35-1687**

Swelling of frozen soils and its effect on structure foundations Orlov, V.O., et al. (1980, 286p., eng) **35-1697**

Freezing phenomena in soils Miller, R.D., (1980, p.254-299, eng) **35-1781**

Ice formation in migrating frost mounds of West Siberia according to ice structure analyses Evseev, V.P., et al. (1979, p.183-193, rus) **35-1839**

On the theory of frost heave Forland, T., et al. (1980, p.45-48, eng) **35-1993**

Segregated ice, frost heave and thermokarst in permafrost Pissart, A., (1975, p.89-96, fre) **35-1994**

Roadbed design for permafrost areas Mikhailov, G.D., (1981, p.12-15, rus) **35-2098**

Waterworks systems, Yellowknife, Northwest Territories Prentice, J.R., et al. (1980, p.409-425, eng) **35-2131**

Frost heave of roads Jones, R.H., (1980, p.77-86, eng) **35-2468**

Chilled gas pipeline frost-heave design Svec, O.J., (1981, p.705-718, eng) **35-2532**

Protecting structures from frost damage Chen, X., (1981, p.734-740, eng) **35-2534**

Relationship between frost heave and areas of bearing plates Tong, C.G., et al. (1981, p.741-748, eng) **35-2535**

Method of determining the horizontal frost heave force *in situ* Ding, J., et al. (1980, p.33-36, chi) **35-2662**

Pore water pressure of saturated gravel during freezing Chen, X., et al. (1980, p.33-37, chi) **35-2916**

Roadbeds built of frost heave soils Dobrov, E.M., et al. (1980, p.3-4, rus) **35-3003**

Lake drainage, Richards Island, N.W.T. Mackay, J.R., (1981, p.63-68, eng) **35-3084**

Bedrock heave in the central Canadian Arctic Dyke, L.D., (1981, p.157-167, eng) **35-3085**

Design and construction of drainage systems Tulaev, A.IA., (1980, 191p., rus) **35-3233**

Frost heave intensities and thaw depth in northern cities Solov'ev, P.A., (1980, p.60-63, rus) **35-3316**

Frost heave mechanics Konrad, J.-M., (1980, 472p., eng) **35-3405**

Origin of hillocky terrain in permafrost areas Tarakanov, A.G., (1981, p.48-52, rus) **35-3482**

Periglacial geomorphology and permafrost French, H.M., (1970, p.254-261, eng) **35-3558**

Alleviation of detrimental frost heaving of soils by chemical treatment Yong, R.N., et al. (1979, 150p., eng) **35-4011**

Thermal interaction between buildings on base fills and frozen soil Tishin, V.G., (1981, p.240-244, eng) **35-4150**

Transmission line supports for swamps IAkunin, I.I., et al. (1981, p.44-47, rus) **35-4232**

Pipeline construction in swampy permafrost areas Ivantsov, D.M., (1981, p.13-16, rus) **35-4238**

Frost mounds

Formation and evolution of permanent ice mound on Qing-Zang Plateau An, Z., (1980, p.25-30, chi) **35-122**

Vegetation of the lower Kolyma tundra Andreev, V.N., et al. (1980, p.5-43, rus) **35-283**

Geophysical study of a palsa field at Poste-de-la-Baleine, Ungava Seguin, M.K., et al. (1979, p.327-337, fre) **35-1048**

Cryogenic mineral mounds of the Leaf River lowlands, Ungava Payette, S., et al. (1979, p.339-358, fre) **35-1049**

Ice formation in migrating frost mounds of West Siberia according to ice structure analyses Evseev, V.P., et al. (1979, p.183-193, rus) **35-1839**

Palsa bogs, sand dunes and salt marshes, environmentally sensitive habitats in the coastal region southeastern Labrador Roberts, B.A., et al. (1980, p.245-263, eng) **35-3096**

Ground ice development in East Yakutia Gordeev, P.P., (1980, p.141-147, rus) **35-3329**

Origin of hillocky terrain in permafrost areas Tarakanov, A.G., (1981, p.48-52, rus) **35-3482**

Frost penetration

Frozen core earth dams Kronik, IA.A., et al. (1980, p.52-55, rus) **35-8**

Pile foundation construction in northern swamps Barskil, B.L., (1980, p.19-20, rus) **35-97**

Heat transfer in freezing soils Bronfenbrener, L.E., et al. (1980, p.6-8, rus) **35-101**

Geocryologic altitudinal zonation of northern Tien Shan Gorbunov, A.P., et al. (1979, p.67-83, rus) **35-189**

Thermophysical properties of freezing saline soils Stepanov, A.V., (1979, p.101-105, rus) **35-239**

Heat and mass transfer in rocks during phase transformations Melamed, V.G., (1980, 228p., rus) **35-253**

Ground frost penetration and surface temperature Fukuda, M., et al. (1980, p.71-80, jap) **35-272**

Industrial construction on frozen peat Vialov, S.S., et al. (1980, 144p., rus) **35-280**

Loose surface deposits of the Angara River area Gorbachev, V.S., (1980, p.21-39, rus) **35-297**

Vegetation in northern swamps Boch, M.S., et al. (1980, p.27-38, rus) **35-392**

Land reclamation in cold regions Sevost'ianov, M.I., et al. (1980, p.2-4, rus) **35-444**

Climatic maps for road construction Efimenko, V.N., et al. (1980, p.19-21, rus) **35-481**

Soil freezing beneath cold-storage plants Fedorovich, D.I., et al. (1970, p.81-83, eng) **35-498**

Frost heave in an instrumented soil column Berg, R., et al. (1980, p.211-221, eng) **35-737**

Cryogenic lithogenesis under swamp conditions Usov, V.A., (1980, p.40-44, rus) **35-752**

Ice formation in freezing fines Danielian, IU.S., et al. (1979, p.89-94, rus) **35-873**

Formation of ice laminae in freezing moist grounds Danielian, IU.S., et al. (1980, p.103-107, rus) **35-874**

Construction of foundations in permafrost Linell, K.A., et al. (1980, 310p., eng) **35-886**

Classification of cryogenic processes Vtiurin, B.I., et al. (1980, p.13-22, rus) **35-950**

Virgin spruce forests of southern taiga Orlov, A.IA., et al. (1980, p.38-45, rus) **35-955**

Field studies of membrane encapsulated soil layers with additives Eaton, R.A., et al. (1980, 46p., eng) **35-977**

Land reclamation in non-chernozem areas Aleksankin, A.V., et al. (1980, 288p., rus) **35-996**

Concretes used in the North Andreev, V.V., (1980, p.5-11, rus) **35-1032**

Unfrozen water in freezing clay soils Merzliakov, V.P., (1980, p.20-24, rus) **35-1034**

Growth of bacteria in frozen soils Tokhver, V., (1974, p.56-60, rus) **35-1205**

Studying growth of microorganisms in freezing soils Rakhno, P.Kh., (1974, p.61-67, rus) **35-1206**

Frost effect on nitrogen transformations in soils Khonnolainen, G., et al. (1974, p.136-139, rus) **35-1211**

Bearing strength of frozen fines Vrachev, V.V., et al. (1980, p.73-80, rus) **35-1389**

Foundations on deeply freezing sands Dokuchaev, V.V., et al. (1973, p.3-11, rus) **35-1597**

Plastic covers for preventing frost heave Vottov, S.A., (1979, p.75-84, rus) **35-1626**

Swelling of frozen soils and its effect on structure foundations Orlov, V.O., et al. (1980, 286p., eng) **35-1697**

Moisture redistribution in frozen soils (based on field observations) Parmuzina, O.IU., (1979, p.194-197, rus) **35-1840**

Gamma method of studying freezing soils Lavrov, S.A., (1980, p.76-81, rus) **35-1872**

Technology of pipeline construction in Siberia, (1981, p.33-34, rus) **35-2095**

Roadbed design for permafrost areas Mikhailov, G.D., (1981, p.12-15, rus) **35-2098**

Washing-up soil in freezing weather Popov, IU.A., et al. (1980, p.103-108, rus) **35-2103**

All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct 29-31, 1980 Abstracts (1980, 203p., rus) **35-2251**

Soil preservation in permafrost and deep seasonal freezing areas Kovda, V.A., et al. (1980, p.5-8, rus) **35-2252**

Concepts, terminology and classification of freezing soils Sokolov, I.A., et al. (1980, p.9-10, rus) **35-2253**

Thermal resources of soils with deep seasonal freezing Chigir, V.G., (1980, p.55-58, rus) **35-2269**

Chemical element transfer in freezing soils Zolotareva, B.N., et al. (1980, p.65-66, rus) **35-2272**

Thermal regime of deeply freezing forest soils Gorbachev, V.N., (1980, p.69-70, rus) **35-2274**

Migration and crystallization of substances in tundra soils Zvereva, T.S., et al. (1980, p.107-109, rus) **35-2289**

Salts and moisture migration in cryogenic soils Melesk, Kh.Kh., (1980, p.110-111, rus) **35-2290**

Moisture transfer in freezing soils Sen'kov, A.A., (1980, p.111-113, rus) **35-2291**

Thermal regime of forest soils Shugalei, L.S., et al. (1980, p.129-131, rus) **35-2296**

Changes in cryogenic soil temperature due to cultivation Khudiakov, O.I., et al. (1980, p.134-136, rus) **35-2298**

Relation between water-intake types in rivers and soil temperature Solomennik, S.F., (1980, p.150-151, rus) **35-2302**

Geocryology of the Khangay Mountains (Mongolia) Chigir, V.G., (1980, p.175-177, rus) **35-2310**

Dynamics of thermal processes Shvets, I.T., ed. (1980, 180p., rus) **35-2334**

Temperature field of freezing ground Tarabrin, V.A., et al. (1980, p.106-111, rus) **35-2336**

Temperature field dynamics in freezing-thawing soils Melamed, V.G., et al. (1975, p.52-62, eng) **35-2399**

Soil moisture migration in freezing soils Ershov, E.D., et al. (1976, p.89-91, eng) **35-2405**

Phenology of Krasnoyarsk forest-steppe forests Elagin, I.N., (1980, p.159-175, rus) **35-2480**

High altitude vegetation of West Sayan Mountains Vlasenko, V.I., (1980, p.175-200, rus) **35-2483**

Frost depth prediction for highway subgrade soils Haas, W.M., et al. (1981, p.719-733, eng) **35-2533**

Relationship between frost heave and areas of bearing plates Tong, C.G., et al. (1981, p.741-748, eng) **35-2535**

Scientific conference of Karelian biologists Komulainen, A.A., ed. (1970, 167p., rus) **35-2613**

Soil freezing effect on the loss of meltwater runoff Lysenko, T.A., et al. (1978, p.10-15, rus) **35-2700**

Ground water freezing temperatures Lev, V.D., et al. (1980, p.16-20, rus) **35-2770**

Role of naleds in water balance of river basins Lebedev, V.M., et al. (1980, p.86-93, rus) **35-2879**

Effect of latent heat on frost penetration in moist soil Hooper, F.C., et al. (1979, p.789-790, eng) **35-2889**

Pore water pressure of saturated gravel during freezing Chen, X., et al. (1980, p.33-37, chi) **35-2916**

Intensification of ground freezing processes due to river diversion Shpolianskaia, N.A., (1980, p.118-119, rus) **35-3128**

Forecasting thermal regime of frozen rocks beneath natural and artificial covers Smorygin, G.I., (1980, 189p., rus) **35-3223**

Relation between strength and water saturation of frozen ground Deriugin, A.G., et al. (1980, p.45-53, rus) **35-3284**

Heat and mass transfer in freezing ground Kaliuzhnyi, I.L., et al. (1981, p.164-170, rus) **35-3301**

Seasonally freezing layer in the Lake Baykal area Zabolotnik, S.I., et al. (1980, p.106-113, rus) **35-3323**

Seasonal cryolithozone in Central Siberia Zabolotnik, S.I., et al. (1980, p.113-120, rus) **35-3324**

Frost heave mechanics Konrad, J.-M., (1980, 472p., eng) **35-3405**

Building subsurface drainage in freezing weather Viksne, A.A., et al. (1981, p.22-24, rus) **35-3536**

Phase composition of water in frozen soils Kaliuzhnyi, I.L., et al. (1978, p.255-260, eng) **35-3684**

Snow and living things McKay, G.A., et al. (1981, p.3-31, eng) **35-3746**

Laboratory and field use of soil tensiometers above and below 0 deg C Ingersoll, J., (1981, 17p., eng) **35-3796**

Interphase surfaces in freezing moist ground Danielian, IU.S., et al. (1981, p.781-785, eng) **35-3818**

Recycling of milled asphalt as a frost protection material Schonberger, G., et al. (1981, p.130-140, ger) **35-3919**

Transient freezing of liquids in tube flow Cheung, F.B., et al. (1976, p.1-9, eng) **35-3922**

Alleviation of detrimental frost heaving of soils by chemical treatment Yong, R.N., et al. (1979, 150p., eng) **35-4011**

Manual of engineering geology Churinov, M.V., ed. (1981, 325p., rus) **35-4305**

Formation of meltwater losses Kaliuzhnyi, I.L., et al. (1981, 160p., rus) **35-4311**

Frost protection

Foundation performance of a steel tower silo at Richmond, Ontario — Scott, J.D. et al. (1980, p.85-89, eng) **35-277**

Frost protection layers in the design of road structures — Floss, R. (1979, p.158-161, ger) **35-527**

Preventing the freezing of cargo — Shatapov, V., et al. (1980, p.17, rus) **35-1643**

Practical frost protection of buried pipes — Gundersen, P. (1980, p.7-22, nor) **35-1989**

Methods of frozen ground excavation — Chechenkov, M.S. (1980, 127p., rus) **35-2881**

Recycling of milled asphalt as a frost protection material — Schonberger, G., et al. (1981, p.130-140, ger) **35-3919**

Frost resistance

Field studies of membrane encapsulated soil layers with additives — Eaton, R.A., et al. (1980, 46p., eng) **35-977**

Concretes used in the North — Andreev, V.V., (1980, p.5-11, rus) **35-1032**

Increasing frost resistance of steel structures — Silvestrov, V.V., (1980, p.5-8, rus) **35-1085**

Effect of slag cement on frost resistance of concrete — Fagerlund, G., (1980, 86p., eng) **35-2060**

Steel for an temperature below -60C — Belov, I.F., et al. (1981, p.6-7, rus) **35-2076**

Strength of materials and structural elements under extreme conditions. Vol. II — Pisarenko, G.S., et al. (1980, 221p., rus) **35-2396**

Frost resistance of polymer concretes — Granovskaia, I.V., et al. (1981, p.81, rus) **35-2847**

Forecasting frost resistance of concretes — Sherkin, A.E., et al. (1981, p.19-20, rus) **35-3002**

Prolonging the service life of concrete in transport structures — Sherkin, A.E., ed. (1980, 158p., rus) **35-3524**

Low temperature properties of polymers — Perepechko, I.I. (1980, 302p., eng) **35-3600**

Concrete dam of the Ust'-Ilim hydroelectric power plant (field observations and studies) — Fidel'man, S.I.A., et al. (1981, 137p., rus) **35-3898**

Acoustic measurement of the frost resistance of concretes — Filonenko, V.M., (1981, p.14-15, rus) **35-4228**

Frost resistant nickel containing steel 12GN2MFAR — Makhanov, K.K., et al. (1981, p.133-136, rus) **35-4292**

Frost shattering

Formation and movements of rock streams — Turin, A.I., et al. (1978, p.104-106, rus) **35-19**

Periglacial phenomena in the Chaglinka River valley — Meshchikhin, D.A., (1979, p.131-140, rus) **35-195**

Nivation cirques and rivers as self-organizing systems — Armand, A.D., (1980, p.3-15, rus) **35-778**

Glacio-geomorphological observations at Cape Omega — Moriwaki, K., (1980, p.1-14, eng) **35-1054**

Glacial geology of Grand Manan Island, New Brunswick — Legget, R.F., (1980, p.440-452, eng) **35-1263**

Gullies in permafrost areas — Shishkina, I.P., (1980, p.22-24, rus) **35-1288**

Frost fracturing processes — Tumel', N.V., (1979, p.26-49, rus) **35-1829**

Climatic geomorphology of the Far East — Kapitsa, V.P., ed. (1978, 144p., rus) **35-1850**

Topography development under monsoon and continental climates — Kvasov, N.M., et al. (1978, p.124-138, rus) **35-1857**

Proceedings (1980, 460p., eng) **35-2957**

Shore erosion by ice — Dionne, J.C., (1980, p.80-92, fre) **35-2958**

Cryogenic structure of eluvium in southwestern Yakutia — Spesivtsev, V.I., (1980, p.167-173, rus) **35-3334**

Frost shattering of ground in Transbaikal steppes — Bazhenova, O.I., (1980, p.107-115, rus) **35-3473**

Some perspectives on frost shattering — McGreevy, J.P., (1981, p.56-75, eng) **35-3564**

Slope cover deposits of mountain areas, SW Spitsbergen — Martini, A., (1975, p.147-185, eng) **35-3616**

Frost weathering

Conference on climate, relief and human activities (1978, 155p., rus) **35-11**

Formation and movements of rock streams — Turin, A.I., et al. (1978, p.104-106, rus) **35-19**

Cryogenic processes in Transbaikal steppes — Bazhenova, O.I., (1978, p.106-108, rus) **35-20**

Nivation and nival niches — Vyrkin, V.B., (1978, p.152-154, rus) **35-21**

Development of bald mountain landscapes — Nikonova, R.I., et al. (1978, p.154-155, rus) **35-22**

Geological processes in the high alpine environment — Rold, J.W., (1980, p.207-209, eng) **35-591**

Pavement structure evaluation of Alaskan highways — McHattie, R., et al. (1980, 208p., eng) **35-893**

Classification of cryogenic processes — Vturin, B.I., et al. (1980, p.13-22, rus) **35-950**

Cryogenic slope processes in Tien Shan — Tarakanov, V.G., (1980, p.98-105, rus) **35-953**

Mathematical models of cryogenic slope processes — Pozdniakov, V.V., et al. (1980, p.54-60, rus) **35-1764**

Temperature variation effects on rock debris movements — Zhemchichko, M.I., (1980, p.91-94, rus) **35-1766**

Some observations concerning nivation and snow melt in Swedish Lapland — Rudberg, S., (1974, p.263-273, eng) **35-1945**

Cryoplanation in the Alps and Canadian Rocky Mts — Karrasch, H., (1974, p.287-300, ger) **35-1947**

Avalanche activity and geomorphological processes in the Salzburg Alps — Pippan, T., (1974, p.301-312, ger) **35-1948**

Arid and periglacial processes in the subtropical semidesert mountains — Hollermann, P., (1974, p.333-353, ger) **35-1951**

Weathering of sandstone by the combined action of frost and salt — Williams, R.B.G., et al. (1981, p.1-9, eng) **35-2338**

Rock weathering in snow field areas — Vyrkin, V.B., (1980, p.101-107, rus) **35-3472**

Slope and slope processes — Mosley, M.P., (1981, p.114-122, eng) **35-3565**

Weathering of beach pebbles in Hornsund — Martini, A., (1975, p.187-193, eng) **35-3617**

Geocryological processes in the Far East — Shumilov, I.V., (1976, p.46-54, rus) **35-3829**

Frozen cargo

Cargo freezing prevention and defrosting techniques — Alokha-Kokh, Kh., (1980, p.23-26, rus) **35-542**

Burning coal in Alaska - a winter experience — Abegg, F., (1980, 9p., eng) **35-1187**

Preventing the freezing of cargo — Shatapov, V., et al. (1980, p.17, rus) **35-1643**

Investigation and analysis of frozen coal handling problems — (1979, c125p., eng) **35-1957**

How to solve frozen-coal problems — Baur, P.S., (1981, p.57-59, eng) **35-4015**

Frozen fines

Seismotectonics and seismicity of the Baykal-Amur railroad construction area — Odintsov, M.M., ed. (1980, 204p., rus) **35-137**

Railroad construction in seismic permafrost areas — Pavlov, O.V., et al. (1980, p.164-173, rus) **35-140**

Seismic stability of frozen fines — Zarubin, N.E., et al. (1980, p.173-178, rus) **35-141**

Faulting and plastic deformation of frozen fines — Ermolin, E.D., (1979, p.42-66, rus) **35-188**

Soil formation on paleocryogenic fines — Gorbunova, I.A., (1979, p.122-130, rus) **35-194**

Periglacial phenomena in the Chaglinka River valley — Meshchikhin, D.A., (1979, p.131-140, rus) **35-195**

Heat and mass transfer in rocks during phase transformations — Melamed, V.G., (1980, 228p., rus) **35-253**

Types of tundra soils — Elovskaia, I.G., et al. (1980, p.158-194, rus) **35-292**

Formation of Siberian loesses — Kolchugo, S.A., (1980, p.5-20, rus) **35-296**

Modern methods of road construction — Smirnov, I.V., (1980, p.45-47, rus) **35-609**

Freezing of fine grained rocks — Ananian, A.A., (1980, p.130-135, rus) **35-767**

Blasting perennially frozen marls — Bertsov, V.G., et al. (1980, p.252-255, eng) **35-964**

Mining perennially frozen placers and ore deposits — Emel'ianov, V.I., ed. (1978, 136p., rus) **35-1077**

Modeling mining processes in permafrost areas — Demsov, A.P., et al. (1978, p.9-19, rus) **35-1079**

Hydraulic jet mining in permafrost areas — Grinevich, V.V., et al. (1978, p.34-37, rus) **35-1080**

Craters in ice and ice-saturated sand on Mars — Croft, S.K., et al. (1979, p.8023-8032, eng) **35-1101**

Origin of the ice-bearing loess in the Northern Hemisphere — Tomirdiaro, S.V., (1978, p.97-107, eng) **35-1137**

Stabilization of slopes cut in perennially frozen fines — Pal'kin, B.S., et al. (1980, p.5-6, rus) **35-1139**

Geocryological conditions of formation of Upper Pleistocene and Holocene deposits in the northern eastern USSR — Novoseletskii, R.N., ed. (1976, 88p., rus) **35-1143**

Ice bearing loess in the Yana-Omoloy Interfluve — Tomirdiaro, S.V., et al. (1976, p.3-11, rus) **35-1144**

Bearing strength of frozen fines — Vrachev, V.V., et al. (1980, p.73-80, rus) **35-1389**

Geotechnical properties of fine-grained permafrost soils — Roggensack, W.D., (1977, 449p., eng) **35-1467**

Design of residential and public buildings for the first climatic zone — Belova, G.M., ed. (1973, 75p., rus) **35-1596**

Foundations on deeply freezing sands — Dokuchaev, V.V., et al. (1973, p.3-11, rus) **35-1597**

Strength of frozen saline loams — Aksenov, V.I., (1973, p.50-54, rus) **35-1601**

Strength of frozen sandy loam — Artemov, Z.P., (1973, p.55-61, rus) **35-1602**

Origin of the Edoma series in Yakutia — Arkhangelov, A.A., et al. (1979, p.110-135, rus) **35-1833**

Material composition of Edoma series — Kuznetsov, I.V., (1979, p.136-144, rus) **35-1834**

Cryogenic structure of the Edoma frozen loess series — Arkhangelov, A.A., et al. (1979, p.145-156, rus) **35-1835**

Wedge-shaped deformations in alassy complexes — Velikotskii, M.A., (1979, p.172-182, rus) **35-1838**

Moisture redistribution in frozen soils (based on field observations) — Parmuzina, O.I., (1979, p.194-197, rus) **35-1840**

Vegetation disturbance on solifluction slopes — Sukhodrovskii, V.L., (1980, p.36-42, rus) **35-2188**

Supercooling and freezing temperatures of soil water — Shtykov, V.I., (1980, p.105-107, rus) **35-2288**

Salts and moisture migration in cryogenic soils — Melesk, Kh.Kh., (1980, p.110-111, rus) **35-2290**

Moisture transfer in freezing soils — Sen'kov, A.A., (1980, p.111-113, rus) **35-2291**

Microstructure of frozen clay rocks — Shusherina, E.P., et al. (1975, p.84-86, eng) **35-2404**

Strength of freeze dried clay soils — Vrachev, V.V., (1976, p.72-75, eng) **35-2406**

Blasting deeply frozen rocks — Pushkin, B.I.A., (1980, p.59-61, rus) **35-2456**

Ground water freezing temperatures — Lev, V.D., et al. (1980, p.16-20, rus) **35-2770**

Elevated and underground pipelines in permafrost areas — Sokolov, S.M., et al. (1980, p.2-4, rus) **35-2776**

Performance of industrial pipelines in frozen grounds — Sokolov, S.M., et al. (1980, p.8-12, rus) **35-2778**

Power line support foundations in South Yakutia — Ekachenko, V.A., et al. (1981, p.46-49, rus) **35-2783**

Studying global factors of climato-morphogenetic phenomena of the Far East — Nikol'skaia, V.V., ed. (1979, 163p., rus) **35-3045**

Origin of perennially frozen fines (Edoma deposits) — Gasanov, Sh.Sh., et al. (1979, p.143-156, rus) **35-3047**

Origin of frozen loess (Edomat formation in Yakutia — Vturin, B., et al. (1980, p.265-271, rus) **35-3232**

Solving freeze-thaw problems for clays — Gur'janov, I.I., (1981, p.36-45, rus) **35-3283**

Calculating sublimation weathering of perennially frozen fines — Kuz'min, G.P., (1981, p.70-80, rus) **35-3286**

Formation of gullies in tundra — Konstantinov, I.P., (1981, p.80-95, rus) **35-3287**

Thermodelapsing formations - deposits of young thermokarst basins — Ivanov, M.S., (1980, p.132-140, rus) **35-3328**

Ridge-and-valley topography in permafrost areas — Belopukhova, E.B., et al. (1980, p.95-101, rus) **35-3471**

Utilization of explosive energy in construction — Danilenko, I.I., (1981, 167p., rus) **35-3531**

Enrichment of perennially frozen ore and placer deposits — Emel'ianov, V.I., ed. (1977, p.175, rus) **35-3805**

Dry processing of frozen placer sands — Bazhbeuk-Melikov, N.K., et al. (1977, p.15-28, rus) **35-3806**

Determination of the thermophysical characteristics of alternatively freezing and thawing dispersed media by the method of solving inverse problems of heat conduction — Pavlov, A.R., et al. (1981, p.885-889, eng) **35-3817**

Frozen ground

First International Symposium of Ground Freezing — Chen, X., (1980, p.59, chi) **35-91**

Disc-cutter excavators for frozen ground — Bobylev, V.A., (1980, p.30-31, rus) **35-98**

Heat transfer in freezing soils — Brontenbrener, I.F., et al. (1980, p.6-8, rus) **35-101**

Drilling and sampling in frozen ground — Reimers, S., (1980, p.13-17, eng) **35-256**

Excavation equipment for frozen ground — Stepanov, O.I., et al. (1980, p.8-9, rus) **35-324**

Using liquid oxygen in artificial freezing of ground — Trupak, N.G., (1980, p.19-20, rus) **35-354**

Impact strength of frozen soils — Vovk, V.V., et al. (1980, p.64-69, eng) **35-497**

Dynamic response of frozen soil under a rigid footing — Czajkowski, R.L., et al. (1980, p.963-980, eng) **35-526**

Snowmelt infiltration into seasonally frozen soils — Kane, D.L., (1980, p.153-161, eng) **35-730**

Experimental studies with frozen soil in an "ice sandwich" permeameter — Horiguchi, K., et al. (1980, p.177-183, eng) **35-733**

Asbestos pipelines in freezing ground — Dalmatov, B.I., et al. (1980, p.13-16, rus) **35-783**

Meltwater seepage into frozen ground — Kaluzhnyi, I.L., et al. (1980, p.375-379, eng) **35-966**

Weathering in some arctic-alpine soils — Ellis, S., (1980, p.371-385, eng) **35-1709**

Hydrology of northern swamps — Babikov, B.V., (1980, p.14-26, rus) **35-1861**

Investigation of frozen soils using Time Domain Reflectometry — Smith, M.W., et al. (1980, 59p., eng) **35-1878**

Thermally actuated water migration in frozen soils — Williams, P.J., et al. (1980, 74p., eng) **35-2317**

Abstracts of the 4th Canadian Permafrost Conference, Mar. 2-6, 1981 (1981, 172p., eng) **35-2465**

Some aspects of Soviet trenching machines — Mellor, M., (1980, 13p., eng) **35-2597**

Research work on permafrost and engineering in the last 30 yrs., China — Chen, S., et al. (1979, p.7-12, chi) **35-2896**

Calculating properties of frozen ground — Gavril'ev, R.I., (1981, p.22-36, rus) **35-3282**

Frost shattering of ground in Transbaikal steppes — Bazhenova, O.I., (1980, p.107-115, rus) **35-3473**

Utilization of explosive energy in construction — Danilenko, I.I., (1981, 167p., rus) **35-3531**

Earthwork under urban construction conditions — Sadakov, I.P., et al. (1981, 256p., rus) **35-3962**

Frozen ground *(cont.)*

Optimization of earthwork planning. Ratskevich, G.I., (1981, p.84-88, rus) **35-4289**

Calculating water flow in freezing pipes. Karaush, S.A., et al, (1981, p.117-122, rus) **35-4290**

Frozen ground mechanics

Discussion about "Permafrost classification for engineering". Zhang, C., (1980, p.58-60, chi) **35-128**

Stability of slopes in permafrost. McRoberts, E.C., (1974, 370p., eng) **35-708**

Model for frost heave including overburden. Hopke, S.W., (1980, p.111-127, eng) **35-726**

Theory and application of ground freezing in civil engineering. Jessberger, H.L., (1980, p.3-27, eng) **35-815**

Construction of foundations in permafrost. Linell, K.A., et al, (1980, 310p., eng) **35-886**

Behavior of thawing slopes in permafrost. Pufahl, D.E., (1976, 323p., eng) **35-1468**

Formation processes on snow patches in the Icelandic highlands. Schunke, E., (1974, p.274-286, ger) **35-1946**

Thermal interaction of structures and permafrost. Porkhaev, G.V., et al, (1980, p.85-96, eng) **35-1973**

Dynamic testing of free field stress gages in frozen soil. Aitken, G.W., et al, (1980, 26p., eng) **35-2601**

Permafrost engineering: an introduction to northern engineering. Lunardini, V.J., (1975, 444p., eng) **35-3658**

Frozen ground physics

Frozen soil and ground water. Wen, B., (1980, p.21, chi) **35-82**

Techniques for measuring soil surface temperature. Smirnov, S.A., (1972, 11p., eng) **35-247**

Pressure distribution in frozen soils. Groenevelt, P.H., et al, (1979, p.582-591, eng) **35-436**

Conference on Soil-Water Problems in Cold Region, 4th, 1979. (1980, 262p., eng) **35-724**

Unfrozen water content in frozen soils. Patterson, D.E., et al, (1980, p.205-210, eng) **35-736**

Heat and moisture transfer in soils during freezing. Fukuda, M., et al, (1980, p.223-232, eng) **35-738**

Freezing phenomena in soils. Miller, R.D., (1980, p.254-299, eng) **35-1781**

Construction effect on cryogenic soils. Garagulia, L.S., et al, (1975, p.70-80, eng) **35-2402**

Thermal diffusivity of frozen soil. Haynes, F.D., et al, (1980, 30p., eng) **35-2603**

Measuring and testing techniques in glaciology and geocryology, China. Wang, W., et al, (1980, p.1-2, chi) **35-2648**

Preliminary research on ultrasonic measurement of frozen soil and ice. Fu, R., et al, (1980, p.44-48, chi) **35-2665**

Frost heave mechanics. Konrad, J.-M., (1980, 472p., eng) **35-3405**

Physical framework for describing the genesis of ground ice. Pavlik, H.F., (1980, p.531-548., eng) **35-3555**

Peculiarities of foundation design in petroleum provinces of West Siberia. Konovalov, A.A., et al, (1981, 167p., rus) **35-3918**

Manual of engineering geology. Churinov, M.V., ed, (1981, 325p., rus) **35-4305**

Frozen ground settling

Tunnel problems put on ice. (1980, p.32-33, eng) **35-1068**

Frozen ground strength

Construction of bases and foundations on frozen ground in China. Zhuo, C., (1980, p.1-5, chi) **35-79**

Preliminary experimental study on the instantaneous strength of frozen sand. Lian, H., et al, (1980, p.37-40, chi) **35-86**

Discussion about "Permafrost classification for engineering". Zhang, C., (1980, p.58-60, chi) **35-128**

Mining perennially frozen placers. Mel'nikov, V.B., et al, (1980, p.52-54, rus) **35-866**

Modeling moisture-ice fields in freezing fines. Kiuntsel', V.V., et al, (1980, p.80-84, rus) **35-968**

Phase change around a circular pipe. Lunardini, V.J., (1980, 18p., eng) **35-1894**

Analysis of foundations in permafrost. Vialov, S.S., et al, (1980, p.97-117, eng) **35-1974**

Design of foundations in areas of significant frost penetration. Linell, K.A., et al, (1980, p.118-184, eng) **35-1975**

Foundations on complex permafrost soils. Velli, Y.I., (1980, p.204-217, eng) **35-1977**

Construction of piling foundations in permafrost. Sadovskii, A.V., et al, (1980, p.218-228, eng) **35-1978**

Excavation of frozen materials. Moore, H.E., et al, (1980, p.323-345, eng) **35-1985**

Using explosives to excavate frozen ground. Tart, R.G., et al, (1980, p.246-265, eng) **35-1986**

Method of determining the horizontal frost heave force *in situ*. Ding, J., et al, (1980, p.33-36, chi) **35-2662**

Use of piling in frozen ground. Crory, F.E., (1980, 21 p., eng) **35-2711**

Engineering classification of aged frozen ground. Wu, T., (1979, p.52-60, chi) **35-2903**

Research on a model of thermal treatment of frozen ground. Chu, L., (1979, p.67-71, chi) **35-2905**

Relation between loading speed and the strength of frozen ground. Deriugin, A.G., (1981, p.53-70, rus) **35-3285**

Calculating the strength and creep of artificially frozen grounds. Vialov, S.S., et al, (1981, 199p., rus) **35-3932**

Hydraulic method of breaking up frozen soil. Gol'din, IU.A., et al, (1981, p.35-38, eng) **35-4153**

Frozen ground temperature

Geocryologic altitudinal zonation of northern Tien Shan. Gorbunov, A.P., et al, (1979, p.67-83, rus) **35-189**

Calculating temperature fluctuation in permafrost. Bronfenbrener, L.E., et al, (1980, p.8-10, rus) **35-1633**

Relations between zero-isotherm depths and frozen layer thicknesses. Vecherskii, S.S., (1980, p.96-98, rus) **35-2284**

Equation predicts buried pipeline temperatures. King, G.G., (1981, p.65-66, 71-72, eng) **35-2467**

Remote measuring and auto-recording of ground temperature. Yu, J., et al, (1980, p.7-9, chi) **35-2650**

Application of thermal resistor in measuring temperature of frozen soil. He, J., et al, (1980, p.20-23, chi) **35-2655**

Tentative study of transistor direct numerical reading thermometer. Feng, J., et al, (1980, p.23-26, chi) **35-2656**

Numerical tester in the study of frozen soils. Li, G., et al, (1980, p.26-28, chi) **35-2657**

Unfrozen water content of subsea permafrost. Tice, A.R., et al, (1980, p.400-412, eng) **35-2755**

Ground water freezing temperatures. Lev, V.D., et al, (1980, p.16-20, rus) **35-2770**

Physical and mechanical properties of frozen peat soils. Roman, L.T., (1981, 134p., rus) **35-3225**

Thermal properties of frozen coarse clastics. Gavril'ev, R.I., et al, (1981, p.5-22, rus) **35-3281**

Supercooled sediments and permafrost in Arctic seas. Zhigarev, L.A., (1981, p.181-191, rus) **35-4079**

Frozen ground thermodynamics

Thermally induced water migration in frozen soils. Perfect, E., et al, (1980, p.101-109, eng) **35-725**

Heat transfer between tundra soil and atmosphere induced by engineering. Pavlov, A.V., et al, (1981, 12p., eng) **35-826**

Thermal vertical supports for the trans-Alaska pipeline. Pearson, S.W., (1979, p.225-231, eng) **35-1109**

Studies of utility construction in cold regions. Fielding, M.B., (1980, p.136-139, eng) **35-2114**

Introduction to the basic thermodynamics of cold capillary systems. Colbeck, S.C., (1981, 9p., eng) **35-3712**

Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, F.V., ed, (1979, 133p., rus) **35-4055**

Calculating artificial thawing of frozen ground. Khromets, D.IU., (1979, p.29-33, rus) **35-4056**

Frozen lakes

Lake overflow: a hazard to winter travel in northern regions. Nelson, W.G., (1981, p.264-277, eng) **35-2508**

Frozen rock strength

Dry processing of frozen placer sands. Bazhbeuk-Melikov, N.K., et al, (1977, p.15-28, rus) **35-3806**

Frozen rock temperature

Large scale mapping of cryogenic phenomena. Severskii, E.V., (1979, p.105-112, rus) **35-192**

Cryogenic structure and ice content of perennially frozen rocks in the West Siberian Platform. Trofimov, V.T., et al, (1980, 246p., rus) **35-385**

Thermal regime of oil deposits in Siberia. Grubov, L.A., (1975, p.70-75, rus) **35-398**

Thermal regime of oil-bearing rocks in Siberia. Nevskaia, N.M., (1975, p.102-105, rus) **35-399**

Permafrost conditions in West Siberia. Shamanova, I.I., et al, (1980, p.94, rus) **35-772**

Central Siberian tundra soils. Vasil'evskaia, V.D., (1980, 235p., rus) **35-1281**

International geological congress, 26th, 1979. Hydrogeology, engineering geology and construction materials. Reports of soviet geologists. Kulikov, G.V., ed, (1980, 247p., rus) **35-1349**

Permafrost transformations near its southern boundary. Uvarkin, IU.T., et al, (1980, p.106-112, rus) **35-1533**

Geothermal conditions of sedimentary mantle in the Siberian Platform. Slavin, V.I., et al, (1980, p.5-13, rus) **35-1570**

Frost fracturing processes. Tumel', N.V., (1979, p.26-49, rus) **35-1829**

Statistical methods of intepreting electroprofiling data. Il'ina, E.B., (1974, p.86-88, eng) **35-2398**

Thickness of aeration zones in permafrost. Oberman, N.G., (1981, p.127-133, rus) **35-2453**

Intensification of ground freezing processes due to river diversion. Shpolianskaia, N.A., (1980, p.118-119, rus) **35-3128**

Subsea permafrost in the Laptev Sea area. Fartyshev, A.I., et al, (1980, p.134-135, rus) **35-3133**

Forecasting thermal regime of frozen rocks beneath natural and artificial covers. Smorygin, G.I., (1980, 189p., rus) **35-3223**

Heat transfer between permafrost and a well during drilling. Rusakov, V.G., et al, (1981, p.134-140, rus) **35-3291**

Measuring temperature of upper permafrost layers. Gennadinik, B.I., et al, (1980, p.68-79, rus) **35-3318**

Permafrost conditions in the Yubileynaya kimberlite pipe area. Deviatkin, V.N., et al, (1980, p.79-82, rus) **35-3319**

Seasonally freezing layer in the Lake Baykal area. Zabolotnik, S.I., et al, (1980, p.106-113, rus) **35-3323**

Seasonal cryolithozone in Central Siberia. Zabolotnik, S.I., et al, (1980, p.113-120, rus) **35-3324**

Frozen rocks in the southern Krasnoyarsk area. Shats, M.M., (1980, p.120-124, rus) **35-3325**

Permafrost of the Sibirskiye Uvaly swamps. Shamanova, I.I., (1981, p.97-101, rus) **35-4074**

Frozen rocks

Differentiation of some gravels dynamo-texture. Lin, S., (1980, p.17-20, chi) **35-81**

Mining of frozen iron ore in northern Quebec and Labrador. Garg, O.P., (1979, p.369-376, eng) **35-1051**

Craters in ice and ice-saturated sand on Mars. Croft, S.K., et al, (1979, p.8023-8032, eng) **35-1101**

Stability of mining excavations in permafrost. Sherstov, V.A., et al, (1980, 56p., rus) **35-1283**

Freeze-thaw activity at a nivation site in northern Norway. Hall, K., (1980, p.183-194, eng) **35-1660**

Method of showing naked bed rock on glacial maps. Yan, S., (1980, p.74-76, chi) **35-2676**

Bedrock heave in the central Canadian Arctic. Dyke, L.D., (1981, p.157-167, eng) **35-3085**

Calculating properties of frozen ground. Gavril'ev, R.I., (1981, p.22-36, rus) **35-3282**

Rock weathering in snow field areas. Vyrkin, V.B., (1980, p.101-107, rus) **35-3472**

Some perspectives on frost shattering. McGreevy, J.P., (1981, p.56-75, eng) **35-3564**

Water supply systems for dredging in permafrost areas. Ageenkov, A.V., et al, (1977, p.87-100, rus) **35-3807**

Land reclamation in mining areas of the North. Sulin, G.A., et al, (1977, p.111-125, rus) **35-3808**

Fuel additives

Using liquid fuels at low temperatures. Englin, B.A., (1980, 207p., rus) **35-2998**

Fuel transport

Prudhoe Bay Project, Final environmental impact statement. (1980, 416p., eng) **35-34**

Burning coal in Alaska: a winter experience. Abegg, F., (1980, 9p., eng) **35-1187**

Fuels

Winter operation of military transportation vehicles. Simonov, A., (1980, p.69-71, rus) **35-970**

Using liquid fuels at low temperatures. Englin, B.A., (1980, 207p., rus) **35-2998**

Fungi

Micromycete fungi of northeastern Yakutia, Pt.1. Shkarupa, A.G., (1980, p.105-123, rus) **35-289**

Fungi of Taymyr tundra. Stepanova, I.V., et al, (1980, p.165-192, rus) **35-1411**

Bacteria and fungi in tundra ponds. Hobbie, J.E., et al, (1980, p.340-387, eng) **35-1755**

Mycorhiza fungi and mycorhizae of forest-forming species in the North. Shubin, V.I., ed, (1980, 185p., rus) **35-3054**

Forest regeneration and microfungi in soils, Scheffervile, Canada. Lucarotti, C.J., (1981, p.7-26, eng) **35-3976**

Gamma irradiation

Gamma-ray densimeters for mudflows. Stepanova, I.S., (1980, p.136-140, rus) **35-217**

Glaciology of mountainous regions (snow cover, avalanches). Kanaev, I.A., ed, (1980, 144p., rus) **35-3569**

Calculating water reserves from aerial snow survey data. Moskalev, IU.D., (1980, p.127-138, rus) **35-3584**

Gas inclusions

Gas in ice from Allan Hills and Byrd Station. Fireman, E.L., (1979, p.85-86, eng) **35-662**

Solidification in two-phase flow. Petrie, D.J., et al, (1980, p.784-786, eng) **35-1680**

Total gas content of ice and past changes of the northwest Greenland ice sheet. Raynaud, D., et al, (1981, p.235-237, eng) **35-3034**

Radioactive dating and the compositions of the gas in Antarctic ice. Fireman, E.L., (1980, p.67-68, eng) **35-3177**

Hydrocarbon gases in sediments from Kodiak Shelf. Kvenvolden, K.A., (1981, p.59-112, eng) **35-3237**

Hydrocarbon gases in near-surface sediment of N. Bering Sea. Kvenvolden, K.A., et al, (1981, p.215-243, eng) **35-3239**

Gases in sediments of Norton Sound, Alaska. Kvenvolden, K.A., et al, (1981, p.244-250, eng) **35-3240**

Thermogenic gases in near-surface sediments of Norton Sound, Alaska. Nelson, H., et al, (1981, p.251-260, eng) **35-3241**

Distribution of gas-charged sediments in Norton Basin, Bering Sea. Holmes, M.L., et al, (1981, p.261-287, eng) **35-3242**

Bottom sediment in the northern Bering Sea. Olsen, H.W., et al, (1981, p.389-419, eng) **35-3247**

Environmental assessment of the Alaskan continental shelf, Vol.4. Hazards. (1981, 677p., eng) **35-3255**

Gas inclusions in subsea permafrost, Prudhoe Bay, Alaska. Boucher, G., et al, (1981, p.276-283, eng) **35-3262**

Gas pipelines
Prudhoe Bay Project. Final environmental impact statement. [1980. 416p. eng] **35-34**
Compressor plant construction in cold regions. Lysiak, V.F., et al. [1980. p.18-19. rus] **35-96**
Pumping aggregate foundations for northern gas mains. Makar, R.M., et al. [1980. p.11-12. rus] **35-312**
Construction of underwater pipelines from ice cover. Vil'danov, R.I. [1980. p.34-35. rus] **35-315**
Gas dehydration equipment on northern fields. Zibert, G.K., et al. [1980. p.2-3. rus] **35-627**
Petroleum resources of Alaska and Canada. Tachinskii, V.V., et al. [1979. p.95-101. rus] **35-751**
Yukon section of the Alaska highway gas pipeline. [1979. 126p. eng] **35-1120**
Design of pipelines for avalanche areas. Lupin, V.A. [1980. p.21-22. rus] **35-1305**
Preventing the icing of stationary gas-turbine plants. Kuznetsov, V.I., et al. [1980. 120p. rus] **35-1655**
Alaskan gas breakthrough nearing. Hale, D., ed. [1980. p.17-21. eng] **35-1873**
Innovation in Arctic pipelining. [1981. p.45-46. eng] **35-1961**
Gasoline progress is slow but encouraging. [1980. p.18-19, 45-47. eng] **35-2008**
Alaska gas line project continues to advance. [1981. p.41. eng] **35-2466**
Chilled gas pipeline: frost-heave design. Svec, O.J. [1981. p.705-718. eng] **35-2532**
Environmental protection in the North. Denisov, G.V. [1981. p.29. rus] **35-2784**
Building compressor stations in West Siberia. Pomatovskii, V.A. [1981. p.80. rus] **35-2785**
Preparation of gas from northern fields for distant transportation. Gukhman, I.M. [1980. 161p. rus] **35-2949**
Transportation and residential houses for the North. [1980. p.26-27. rus] **35-3012**
Strength of welded pipeline joints at low temperatures. Kuchuk-Iliasenko, S.I., et al. [1980. p.1-3. rus] **35-3212**
Revegetation of disturbed tundra soils. Skriabin, P.N., et al. [1980. p.28-31. rus] **35-3309**
Permafrost changes beneath pipelines. Turbina, M.I. [1980. p.31-36. rus] **35-3310**
Alaska gas line: largest construction project in history. [1981. p.26-28, 50, 60. eng] **35-3691**
Pipeline construction in swampy permafrost areas. Ivantsov, D.M. [1981. p.13-16. rus] **35-4238**

Gas production
Heat transfer in liquefied gas reservoirs. Bromfenbrener, I.E. [1980. p.25-26. rus] **35-1306**
Barrow gas fields, N. Slope, Alaska. Lantz, R.J. [1981. p.197-200. eng] **35-2706**
Installation of gas reservoirs in freezing weather. Leonov, O.N., et al. [1981. p.47-48. rus] **35-4233**

Gases
Chemical warfare in polar regions. Krisanov, V. [1979. p.80-82. rus] **35-337**
Biochemical cycle of carbon dioxide in the Arctic. Kelley, J.J. [1980. p.266-271. rus] **35-1270**
Methane productions in sanitary landfills in cold regions. Dickason, O.F., et al. [1981. p.507-511. eng] **35-2521**
Total gas content of ice and past changes of the northwest Greenland ice sheet. Raynaud, D., et al. [1981. p.235-237. eng] **35-3034**
Atmospheric trace gases in association with sea ice. Gosink, T.A. [1980. p.82-83. eng] **35-3186**
Gas permeability of permafrost in the Vilyuy watershed area. Olovin, B.V., et al. [1980. p.83-90. rus] **35-3320**
Studying gas permeability of massive frozen rocks. Olovin, B.A. [1980. p.90-98. rus] **35-3321**

Gazetteers
Geographic names of the Antarctic. Alberts, F.G., ed. [1981. 959p. eng] **35-3164**

Geobotanical interpretation
Geobotanical photointerpretation of northern landscapes. Viktorov, S.V., et al. [1971. p.23-28. rus] **35-756**
Soil and bedrock as reflected in Arctic vegetation. Paarma, H., et al. [1977. p.25-29. eng] **35-2721**
Landscape indicators of engineering and hydrogeological conditions on plains east of Altai. Vinokurov, IU.I. [1980. 191p. rus] **35-3229**
Geobotanical division of the Soviet Arctic. Andreev, V.N., et al. [1981. p.25-34. eng] **35-3375**
Compiling a medium-scale vegetation map of the northern Baykal area from space survey data. Belov, A.V. [1980. p.97-102. rus] **35-3543**
Alpine tundras of the Bol'shoy Annachag Range (upper course of the Kolyma River). Berman, D.I., ed. [1980. 178p. rus] **35-4332**
Landscape structure of the Sibit-Tyellakh River basin. Egorova, G.N. [1980. p.32-53. rus] **35-4334**

Geochemistry
Geochemical processes in taiga geosystems. Nechaeva, E.G. [1971. p.3-31. rus] **35-755**
Regionalization of the Baykal Amur railroad zone. Nechaeva, E.G., et al. [1980. p.3-11. rus] **35-1628**
Prospecting in areas of glaciated terrain 1977. [1977. 140p. eng] **35-2719**
Application of humus analysis to geotechnical prospecting: some case histories. Nuutilainen, J., et al. [1977. p.1-5. eng] **35-2720**
Problems of geochemical contrasts in Finnish soils. Kauranne, L.K., et al. [1977. p.34-44. eng] **35-2723**
Geochemical evaluation of ore potential. Bjorklund, A. [1977. p.56-62. eng] **35-2725**
Glacial dispersion of uranium in the District of Keewatin, Canada. Klassen, R.A., et al. [1977. p.80-88. eng] **35-2727**
Prospecting in areas of glaciated terrain 1975. Jones, M.J., ed. [1975. 154p. eng] **35-2733**
Mercury as a pathfinder for base metal deposits, Swedish Lapland. Duerdht, Y., et al. [1975. p.1-5. eng] **35-2734**
Geochemical sampling media useful in glaciated terrain. Boyle, D.R., et al. [1975. p.6-15. eng] **35-2735**
Investigations of molybdenum-copper deposits, southern Norway. Vokes, F.M., et al. [1975. p.32-40. eng] **35-2736**
Geochemical exploration in a glacial ice-divide region, Finnish Lapland. Nurmi, A. [1975. p.54-59. eng] **35-2737**
Regional geochemical mapping in Finland. Kauranne, L.K. [1975. p.71-81. eng] **35-2738**
Relation of lake-sediment composition to mineralization. Nichol, I., et al. [1975. p.112-125. eng] **35-2739**
Geochemical prospecting in stratified till in Finland. Kokkola, M. [1975. p.149-154. eng] **35-2740**
Prospecting in areas of glaciated terrain, 1973. Jones, M.J., ed. [1973. 138p. eng] **35-2741**
Geochemical drainage dispersion from sulphide mineralization. Mehrtens, M.B., et al. [1973. p.1-10. eng] **35-2742**
Prospecting in an area of central Sweden. Eriksson, K. [1973. p.83-86. eng] **35-2746**
Hydrocarbon gases in near-surface sediment of N. Bering Sea. Kvenvolden, K.A., et al. [1981. p.215-243. eng] **35-3239**
Gases in sediments of Norton Sound, Alaska. Kvenvolden, K.A., et al. [1981. p.244-250. eng] **35-3240**
Distribution of trace elements in bottom sediment of northern Bering Sea. Larsen, B.R., et al. [1981. p.445-567. eng] **35-3249**
Paleolimnology of the Klutlan Glacier area, Canada. Bradbury, J.P., et al. [1980. p.149-168. eng] **35-3722**
Microelement migration in waters of permafrost areas. Makarov, V.N. [1980. p.114-127. rus] **35-4001**

Geochronology
Gas in ice from Allan Hills and Byrd Station. Fireman, E.L. [1979. p.85-86. eng] **35-662**
Radioactive dating and the compositions of the gas in Antarctic ice. Fireman, E.L. [1980. p.67-68. eng] **35-3177**
Antarctic glacial chronology reflected in Ross Sea sediments. Balshaw, K.M. [1981. 140p. eng] **35-3915**

Geocryology
Problems of the relations between climatic zones and exogenic relief formation. Aseev, A.A., et al. [1978. p.9-21. rus] **35-12**
Cryogenic processes in the the Baykal Amur railroad area. Tekhatinov, A.M. [1978. p.99-101. rus] **35-16**
Cryogenic processes in Transbaikal steppes. Bazhenova, O.I. [1978. p.106-108. rus] **35-20**
Geomorphology and neotectonics of mountain areas in the Far East. Sizikov, A.I., ed. [1977. 132p. rus] **35-57**
Cryosphere development and the formation of exogenic relief. Skryl'nik, G.P. [1977. p.15-20. rus] **35-58**
Formation of rock streams in the Far East. Skryl'nik, G.P. [1977. p.86-88. rus] **35-59**
Studying coastal plains and shelves of Arctic seas. Danilov, I.D., ed. [1979. 135p. rus] **35-64**
Slope processes in permafrost areas. Kolesnikov, S.F. [1979. p.68-74. rus] **35-65**
Quaternary geology of the Narssaq area, South Greenland. Funder, S. [1979. 24p. eng] **35-110**
Active layer at the south foot of Tanggula Shan. Toung, B., et al. [1980. p.19-24. chi] **35-121**
Advice of the Institute of Hydrosphere Science, Nagoya University, Japan. Gu, G. [1980. p.61-62. chi] **35-129**
Cryogenic phenomena in Kazakhstan and Central Asia. Gorbunov, A.P., ed. [1979. 145p. rus] **35-185**
Faulting and plastic deformation of frozen fines. Ermolin, E.D. [1979. p.42-66. rus] **35-188**
Development of cryogenic relief in Pamirs and Tien Shan. Ermolin, E.D. [1979. p.88-105. rus] **35-191**
Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia. Popov, A.I., ed. [1980. 256p. rus] **35-279**
Soils of the lower Ob' forest tundra near the Urengoy deposit. Ivanov, V.V., et al. [1980. p.12-19. rus] **35-533**
Classification of geocryological conditions. Bobov, N.G. [1980. p.90-97. rus] **35-775**
Classification of cryogenic processes. Vtiurin, B.I., et al. [1980. p.13-22. rus] **35-950**
Research of periglacial morphology in Finland. Aartolahti, T. [1980. p.74-87. fin] **35-1071**
Cryolithology of the Mamontovaya Mountain formations. Kuznetsov, IU.V. [1976. p.12-21. rus] **35-1145**
Theory of forecasting cryogenic processes. Izmailov, L.I., et al. [1976. p.78-85. rus] **35-1148**
International geological congress, 26th, 1979. Hydrogeology, engineering geology and construction materials. Reports of soviet geologists. Kulikov, G.V., ed. [1980. 247p. rus] **35-1349**
The Earth's cold (guide for students). Romanovskii, N.N. [1980. 190p. rus] **35-1700**
Exogenic geologic processes and phenomena (Southern Yakutia). Ospennikov, E.N., et al. [1980. 227p. rus] **35-1701**
Cryolithogenesis as an independent type of lithogenesis. Popov, A.I. [1979. p.7-25. rus] **35-1828**
Climatic geomorphology of the Far East. Kapitsa, A.P., ed. [1978. 144p. rus] **35-1850**
Cryogenic processes in Sikhote-Alin. Korotkii, A.M. [1976. p.100-123. rus] **35-1856**
Environmental protection in permafrost areas. Grave, N.A. [1980. p.6-12. rus] **35-2185**
Elementary processes in cryogenic tundra soils. Vasil'evskaia, V.D. [1980. p.28-29. rus] **35-2261**
German periglacial research in arctic and subarctic regions. Karte, J. [1979. p.97-115. ger] **35-2640**
Recent periglacial morphodynamics on Angmagssalik, O. southeast Greenland. Schunke, E. [1979. p.1-19. ger] **35-2642**
Measuring and testing techniques in glaciology and geocryology, China. Wang, W., et al. [1980. p.1-2. chi] **35-2648**
Solar penetration radiometer and its preliminary testing results. Xie, Y., et al. [1980. p.12-14. chi] **35-2652**
Use of pseudocolors in the research on glaciology and geocryology. Liu, J. [1980. p.63-67. chi] **35-2672**
Glaciological and geocryological field studies on King George Island during the 25th Soviet antarctic Expedition. Vtiurin, B.I. [1980. p.30. rus] **35-2811**
Chinese research on glaciers and permafrost in the last 50 years. Shih, Y., et al. [1979. p.1-6. chi] **35-2895**
From Chinese Society of Glaciology and Cryopedology. [1980. p.72-79. chi] **35-2925**
Forecasting cryogenic processes in the Ob' River delta. Gogolev, E.S., et al. [1980. p.110-112. rus] **35-3126**
Applying system analysis to modeling geomorphologic consequences of river diversion. Mikhankov, IU.M., et al. [1980. p.120-123. rus] **35-3129**
Cryolithologic analysis. Gasanov, Sh.Sh. [1981. 195p. rus] **35-3211**
Studies of slope processes in northern Yakutian research stations. Sukhodrovskii, V.L. [1980. p.156-160. rus] **35-3332**
Zones of permafrost distribution. Solomatin, V.I. [1981. p.39-44. rus] **35-3458**
International forum of geocryologists. Mel'nikov, P.I., et al. [1979. p.109-119. rus] **35-3470**
Ridge-and-valley topography in permafrost areas. Belopukhova, E.B., et al. [1980. p.95-101. rus] **35-3471**
Glacial and morphoclimatic indices of the Baykal Highlands. Vyrkin, V.B., et al. [1980. p.113-118. rus] **35-3479**
Origin of hillocky terrain in permafrost areas. Tarakanov, A.G. [1981. p.48-52. rus] **35-3482**
Space surveying methods for studying exogenic processes. Plastinin, L.A., et al. [1981. p.22-26. rus] **35-3540**
Glacial and periglacial geomorphology in Japan. Ono, Y. [1980. p.149-160. eng] **35-3556**
Periglacial geomorphology and permafrost. French, H.M. [1970. p.254-261. eng] **35-3558**
Soil and permafrost conditions in the Alaskan Beaufort Sea. Miller, D.L., et al. [1980. p.325-338. eng] **35-3637**
Permafrost. Engineering design and construction. Johnston, G.H., ed. [1981. 540p. eng] **35-3703**
Geocryological processes in the Far East. Shumilov, IU.V. [1976. p.46-54. rus] **35-3829**
Recent processes which formed the present surface of the Yana-Indigirka Plain. Egorova, G.N. [1976. p.55-65. rus] **35-3830**
Erosion and deposition on Arctic shelves. Pavlidis, IU.A., et al. [1981. p.33-96. rus] **35-3887**
Recent deposits and Pleistocene paleogeography of Chukotskiy Peninsula. Kaplin, P.A., ed. [1980. 295p. rus] **35-3930**
Geocryologic mapping of East Siberian mountains. Lomovtseva, N.S. [1980. p.127-134. rus] **35-4002**
General principles of the theory of permafrost development. Kudriavtsev, V.A. [1981. p.7-24. rus] **35-4066**
History of permafrost development in the USSR and methods of its study. Baulin, V.V., et al. [1981. p.24-40. rus] **35-4067**
Permafrost development in NE European USSR and W Siberia. Baulin, V.V., et al. [1981. p.41-60. rus] **35-4068**
History of permafrost development in the Timan-Ural area. Oberman, N.G. [1981. p.60-73. rus] **35-4069**
Cryogenic processes related to changes in paleogeographic conditions. Gravis, G.F. [1981. p.102-113. rus] **35-4075**
Late Cenozoic permafrost of Yakutia. Kaplina, T.N. [1981. p.153-181. rus] **35-4078**
Manual of engineering geology. Churinov, M.V., ed. [1981. 325p. rus] **35-4305**

Geodetic surveys

Accuracy of measuring zenith distances in freezing weather. Menukhov, I.I., (1980, p.32-33, rus) **35-633**

Glaciological studies in Allan Hills, 1978-79. Annexstad, J.O., et al, (1979, p.87-88, eng) **35-663**

Geophysical investigation of the dome C area. Bentley, C.R., et al, (1979, p.98-100, eng) **35-670**

Geodetic survey of snow covered areas. Menukhov, I.I., (1980, p.36-40, rus) **35-930**

Geodetic and glaciological activities in East Antarctica, 1962-1978. Meier, S., (1980, p.24-31, ger) **35-2431**

Repetitive geodetic-glaciological measurements of Hays Glacier, 1977-78. Hoyer, R., (1980, p.32-35, ger) **35-2432**

Geodetic-astronomical activities during the 8th and 17th SAE. Liebert, J., (1980, p.51-53, ger) **35-2434**

Dome C geophysical survey, 1979-80. Shabtaie, S., et al, (1980, p.2-5, eng) **35-3165**

Glaciological studies in Allan Hills, 1979-80. Annexstad, J.O., et al, (1980, p.65-66, eng) **35-3176**

Geography

Geographic studies related to the river-channel diversion project. Malik, I.K., (1980, p.47-51, rus) **35-1333**

Slope processes control in mountains. Tushinskii, G.K., et al, (1980, p.66-73, rus) **35-1439**

Subdivision of the Arctic Ocean into basins. Klepikov, V.V., (1980, p.114-115, rus) **35-1569**

Geographic aspects of Siberian taiga. Sochava, V.B., (1980, 256p., rus) **35-2951**

Regularities governing the formation of elementary geosystems (the central taiga structures of Sos'vinskoe Priob'e as an example). Mikheev, V.S., ed, (1978, 124p., rus) **35-3819**

Relations between different components of taiga geosystems. Kuz'menko, E.I., (1978, p.9-21, rus) **35-3820**

Elementary structures of taiga geosystems. Mikheev, V.S., (1978, p.42-69, rus) **35-3822**

Geologic processes

Geological processes in the high alpine environment. Rold, J.W., (1980, p.207-209, eng) **35-591**

Geologic processes of the Beaufort Sea shelf (April-June 1979). Barnes, P., et al, (1980, p.130-188, eng) **35-1156**

Geologic processes on the Beaufort Sea shelf (July-Sep 1979). Barnes, P., et al, (1980, p.189-192, eng) **35-1157**

Geologic processes on the Beaufort Sea shelf (Oct.-Dec 1979). Barnes, P., et al, (1980, p.193-249, eng) **35-1158**

Geological, geochemical and geotechnical observations on the Bering Shelf, Alaska. Larsen, M.C., et al, (1980, Var.p., eng) **35-2538**

Environmental assessment of the Alaskan continental shelf, Vol.5 Hazards. (1981, 659p., eng) **35-3234**

Ice gouging on the subarctic Bering shelf. Thor, D.R., et al, (1981, p.286-314, eng) **35-3243**

Graded storm sand layers offshore from the Yukon Delta, Alaska. Nelson, C.H., (1981, p.368-388, eng) **35-3246**

Faulting in Norton Sound and Chirikov Basin, Alaska. Johnson, J.L., et al, (1981, p.420-444, eng) **35-3248**

Prediction of offshore permafrost conditions. Smith, P.A., et al, (1981, p.159-255, eng) **35-3257**

Morphology, erosion and barrier islands of the Beaufort Sea coast, Alaska. Hopkins, D.M., et al, (1981, p.178-186, eng) **35-3259**

Geologic processes of the Beaufort Sea shelf and coast. Barnes, P., et al, (1981, p.257-355, eng) **35-3261**

Ice scoring on the inner shelf of the Beaufort Sea, Alaska. Reanic, D., et al, (1981, p.318-332, eng) **35-3264**

Ice sheets and ice melts. Emiliani, C., (1980, p.82-91, eng) **35-3905**

Geologic structures

Remote sensing for earth dam site selection and construction materials. Merry, C.J., et al, (1980, p.158-170, eng) **35-153**

Focus on polar research. Washburn, A.L., (1980, p.643-652, eng) **35-250**

Structural geology map of the Baykal Amur railroad area. Kuskov, A.P., et al, (1979, p.56-63, rus) **35-777**

Glacier bed landforms of North American prairies. Moran, S.R., et al, (1980, p.457-476, eng) **35-1508**

Last great ice sheets. Denton, G.H., ed, (1981, 484p., eng) **35-2062**

Connection between the Gamburtsev and Vernadskiy Mountains. Koblents, I.A.P., (1980, p.224-233, eng) **35-2629**

Application of humus analysis to geotechnical prospecting: some case histories. Nuutilainen, J., et al, (1977, p.1-5, eng) **35-2720**

Geochemical exploration in a glacial ice-divide region, Finnish Lapland. Nurmi, A., (1975, p.54-59, eng) **35-2737**

Reconnaissance prospecting by photogeology in northern Finland. Talvitie, J., et al, (1973, p.73-81, eng) **35-2745**

Prospecting for nickel in north Sweden. Nilsson, G., (1973, p.97-109, eng) **35-2748**

Ice sounding over the Dufek Massif. Behrendt, J.C., et al, (1981, p.3014-3020, eng) **35-3362**

Ocean basins and margins. Volume 5. The Arctic Ocean. Nairn, A.E.M., ed, (1981, 672p., eng) **35-3431**

Geological faults

Origin of water feeding North Slope icings. Hall, D.K., et al, (1981, p.433-438, eng) **35-4341**

Geological surveys

U.S. Geological Survey in Alaska, 1980 programs. Reed, K.M., ed, (1980, 112p., eng) **35-131**

Quaternary geology and geomorphology of Harding Lake. Yokoyama, T., et al, (1980, p.45-53, eng) **35-1562**

Undergraduate research participation program, Juneau icefield, Alaska, 1979. Williams, G.A., et al, (1980, 34p., eng) **35-2017**

U.S. Geological Survey in Alaska, 1981 programs. Reed, K.M., ed, (1981, 111p., eng) **35-4225**

Geology

Environmental impact of WW II debris cleanup in southern Alaska. (1979, 272p. + 1 Vol. of append., eng) **35-1816**

Geohydrology of the Delta-Clearwater area, Alaska. Wilcox, D.E., (1980, 26p., eng) **35-1896**

Geology and geomorphology of the Beaufort Sea coastal plain. Cannon, P.J., (1981, p.619-634, eng) **35-3251**

Bristol Bay environment, a background study of available knowledge. (1974, 858p., eng) **35-3550**

Geomorphology

Geomorphology and geotectonics of mountain areas in the Far East. Sizikov, A.I., ed, (1977, 132p., rus) **35-57**

Cryosphere development and the formation of exogenic relief. Skryl'nik, G.P., (1977, p.15-20, rus) **35-58**

Solutions and use of chronofunctions in studying soil development. Bockheim, J.G., (1980, p.71-85, eng) **35-220**

Summary on the studies of perennial snow patches in Japan. Higuchi, K., et al, (1979, p.181-197, jap) **35-266**

Geomorphologic analysis of Arctic continental shelf. Patyk-Kara, N.G., et al, (1980, p.91-98, rus) **35-952**

Glacial morphology and hydrology of Kainuu and Perapohjola, Finland. Kurimo, H., (1979, 64p. + 1 map, eng) **35-994**

Geophysical study of a palsa field at Poste-de-la-Baleine, Ungava. Seguin, M.K., et al, (1979, p.327-337, fre) **35-1048**

Research of periglacial morphology in Finland. Aartolahti, T., (1980, p.74-87, fin) **35-1071**

Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979. (1980, 534p., eng) **35-1150**

Morphology, sedimentation and oil spills near Kenai Peninsula and Montague I. Hayes, M.O., et al, (1980, p.5-13, eng) **35-1151**

Climatic changes of Harding Lake, Alaska. Nakao, K., ed, (1980, 77p., eng) **35-1557**

Quaternary geology and geomorphology of Harding Lake. Yokoyama, T., et al, (1980, p.45-53, eng) **35-1562**

Process in geomorphology. Embleton, C., ed, (1979, 436p., eng) **35-1684**

Subalpine cryosolic soils in Banff and Jasper National Parks. Achuff, P.L., et al, (1980, p.579-581, eng) **35-1708**

Weathering in some arctic-alpine soils. Ellis, S., (1980, p.371-385, eng) **35-1709**

Description of tundra ponds. Hobbie, J.E., (1980, p.19-50, eng) **35-1749**

Climatic geomorphology of the Far East. Kapitsa, A.P., ed, (1978, 144p., rus) **35-1779**

Topography development under monsoon and continental climates. Korotkii, A.M., et al, (1976, p.124-138, rus) **35-1857**

Geomorphological processes under different climatic conditions. Poser, H., ed, (1974, 439p., ger) **35-1942**

Experimental determination of the processes producing small polygonal sorted alpine soils. Pissart, A., (1974, p.241-248, fre) **35-1943**

Avalanche activity and geomorphological processes in the Salzburg Alps. Pippan, T., (1974, p.301-312, ger) **35-1948**

Geomorphological processes in the Canadian Cordillera. Slaymaker, O., (1974, p.319-332, eng) **35-1950**

Undergraduate research participation program, Juneau icefield, Alaska, 1979. Williams, G.A., et al, (1980, 34p., eng) **35-2017**

Problems of moraine morphology: Rogen moraine and Blattnick moraine. Markgren, M., et al, (1980, p.271-274, eng) **35-2141**

Bedrock material in moraine forms in northern Sweden. Minell, H., (1980, p.275-281, eng) **35-2142**

Geobotanical atlas of the Prudhoe Bay region, Alaska. Walker, D.A., et al, (1980, 69p., eng) **35-2150**

Rock glacier formation in Colorado. Vick, S.G., (1981, p.75-84, eng) **35-2459**

Recent periglacial morphodynamics on Angmagssalik Ö, southeast Greenland. Schunke, E., (1979, p.1-19, ger) **35-2642**

Application of airphoto in the study of periglacial geomorphic dynamics. Liang, F., et al, (1980, p.72-73, chi) **35-2675**

Tundra and analogous soils. Everett, K.R., et al, (1981, p.139-179, eng) **35-2705**

Ice sheet, subglacial basalts and uplift of the Transantarctic Mts. Stump, E., et al, (1980, p.757-759, eng) **35-2792**

Basis and division of the ice period in western China. Tsui, T., (1979, p.13-21, chi) **35-2897**

Glaciers and water reserves in the Ha-la-hu Lake area. Wu, K., et al, (1979, p.27-32, chi) **35-2899**

Some differences between the Chinese Ching-hai Tibet Plateau aged frozen ground and the old frozen ground in northern Canada. Cheng, K., (1979, p.39-42, chi) **35-2901**

Chiao-li-feng Peak and its glacier. Wang, H., (1979, p.72-76, chi) **35-2906**

Data on the glacier of Chi-lien-shan Mountain. Fei, C., (1979, p.77-80, chi) **35-2907**

Morphology of the Onyx River system, McMurdo Sound region, Antarctica. Shaw, J., et al, (1980, p.223-238, eng) **35-2953**

Applying system analysis to modeling geomorphologic consequences of river diversion. Mikhankov, II.M., et al, (1980, p.120-123, rus) **35-3129**

Shore morphology and stratigraphy of Lake Hoytiainen, Finland. Vesajoki, H., (1980, 30p., eng) **35-3209**

Environmental assessment of the Alaskan continental shelf, Vol.5 Hazards. (1981, 659p., eng) **35-3234**

Bottom sediment in the northern Bering Sea. Olsen, H.W., et al, (1981, p.389-419, eng) **35-3247**

Faulting in Norton Sound and Chirikov Basin, Alaska. Johnson, J.L., et al, (1981, p.420-444, eng) **35-3248**

Geology and geomorphology of the Beaufort Sea coastal plain. Cannon, P.J., (1981, p.619-634, eng) **35-3251**

Montane periglacial zone and its morphological lower limit. Hagedorn, J., (1980, p.96-103, eng) **35-3303**

Bristol Bay environment, a background study of available knowledge. (1974, 858p., eng) **35-3550**

Glacial and periglacial geomorphology in Japan. Ono, Y., (1980, p.149-160, eng) **35-3556**

Glacial geomorphology. Theakstone, W.H., (1980, p.241-253, eng) **35-3557**

Periglacial geomorphology and permafrost. French, H.M., (1970, p.254-261, eng) **35-3558**

Mountain glaciers from SEASAT radar images. Ford, J.P., (1981, p.864-869, eng) **35-3586**

Polish Scientific Spitsbergen Expeditions, 1970-1974, Vol.1. (1975, 196p., eng) **35-3608**

Investigations of Werenskiold Glacier, 1970. Baranowski, S., (1975, p.69-94, eng) **35-3611**

Ablation of ice-moraine ridges of the Hornsund region. Szponar, A., (1975, p.101-125, eng) **35-3613**

Marginal zone of the Arie Glacier. Szponar, A., (1975, p.127-138, eng) **35-3614**

Slope cover deposits of mountain areas, SW Spitsbergen. Martini, A., (1975, p.147-185, eng) **35-3616**

Polish Scientific Spitsbergen Expeditions, 1970-1974, Vol.2. (1977, 138p., eng) **35-3618**

Relief of the marginal zone of the Torell Glacier, Spitsbergen. Karczewski, A., et al, (1977, p.37-62, eng) **35-3621**

Sedimentary and geomorphological consequences of the naled occurrence. Cegla, J., et al, (1977, p.63-84, eng) **35-3622**

Permafrost engineering: an introduction to northern engineering. Lunardini, V.J., (1975, 444p., eng) **35-3658**

Selected papers from the Franco-Soviet Symposium on the Alps and Caucasus. (1981, p.219-403, fre) **35-3739**

Present glaciation and climate of the Caucasus. Kotliakov, V.M., et al, (1981, p.241-264, fre) **35-3740**

Comparative geomorphology of mountain systems of the Alps and Caucasus. Bravard, Y., et al, (1981, p.313-318, fre) **35-3741**

Glacier studies. Ommanney, C.S.L., comp, (1978, p.235-245, eng) **35-3928**

Recent deposits and Pleistocene paleogeography of Chukotskiy Peninsula. Kaplin, P.A., ed, (1980, 295p., rus) **35-3930**

Photogrammetric measurements of antarctic cirques in Victoria Valley. Aniya, M., et al, (1981, p.41-53, eng) **35-4019**

Ice-scored topography and glacier movement, N Scotland and W Greenland. Gordon, J.E., (1981, p.55-65, eng) **35-4020**

Glacial sands and mechanical durability of lithic fragments. Slatt, R.M., et al, (1981, p.171-183, eng) **35-4023**

Changes of Batura Glacier in the Quaternary and recent times. Zhang, X., et al, (1980, p.173-190, chi) **35-4038**

Geomorphology of Kangerdlugssuaq, Greenland. Brooks, C.K., (1979, 25p., eng) **35-4213**

Geophysical surveys

Geophysical survey of Greenland continental shelf. Brett, C.P., et al, (1979, 29p., eng) **35-111**

Geophysical study of a palsa field at Poste-de-la-Baleine, Ungava. Seguin, M.K., et al, (1979, p.327-337, fre) **35-1048**

Mining of frozen iron ore in northern Québec and Labrador. Garg, O.P., (1979, p.369-376, eng) **35-1051**

Geophysical evidence of shallow nearshore permafrost, Prudhoe Bay, Alaska. Rogers, J.C., et al, (1980, p.4845-4853, eng) **35-1117**

Geophysical methods of studying permafrost in the USSR. Akimov, A.T., et al, (1980, 51p., rus) **35-1928**

Prospecting in areas of glaciated terrain 1977. (1977, 140p., eng) **35-2719**

Geophysical methods in thick overburden, Kolari, Finland. Hattula, A., (1977, p.120-127, eng) **35-2731**

Prospecting in areas of glaciated terrain 1975. Jones, M.J., ed, (1975, 154p., eng) **35-2733**

Investigations of molybdenum-copper deposits, southern Norway — Vokes, F.M., et al. (1975, p.32-40, eng) **35-2736**

Regional geochemical mapping in Finland — Kauranne, L.K., (1975, p.71-81, eng) **35-2738**

Prospecting in areas of glaciated terrain, 1973 — Jones, M.J., ed. (1973, 138p., eng) **35-2741**

Geochemical drainage dispersion from sulphide mineralization — Mehrtens, M.B., et al. (1973, p.1-10, eng) **35-2742**

Prospecting in an area of central Sweden — Eriksson, K., (1973, p.83-86, eng) **35-2746**

Modern boulder tracing in prospecting — Hyvarinen, L., et al. (1973, p.87-98, eng) **35-2747**

Seismic velocity measurement in the Arctic Archipelago — Acheson, C.H., (1981, p.707-716, eng) **35-3061**

Annual report 1979-80, Univ. of Alaska, Geophysical Institute (1980, 208p., eng) **35-3430**

Detecting massive ground ice in permafrost by geophysical methods — Osterkamp, T.E., et al. (1980, p.27-30, eng) **35-3859**

Geothermal thawing

Earth's heat may solve problem of dangerous iced bridge decks (1981, p.12, eng) **35-4161**

Geothermy

Geothermal conditions of sedimentary mantle in the Siberian Platform — Slavin, V.I., et al. (1980, p.5-13, rus) **35-1570**

German Federal Republic

German periglacial research in arctic and subarctic regions — Karte, J., (1979, p.97-115, ger) **35-2640**

Glacial deposits

Studying coastal plains and shelves of Arctic seas — Danilov, I.D., ed. (1979, 135p., rus) **35-64**

Moraine-like deposits in northern plains — Danilov, I.D., (1979, p.97-135, rus) **35-67**

Forecasting glacial mudflows — Chistiaev, V.B., (1978, p.64-84, rus) **35-71**

Studying the formation of mountain glacier moraines — Orlov, A.V., (1980, p.65-68, rus) **35-78**

Glacial mud-rock flow in Baltbaire Gully — Cai, X., et al. (1980, p.22-25, chi) **35-83**

Aerial photography in soil mapping — Monakhov, V.K., (1980, p.355-356, rus) **35-109**

Quaternary geology of the Narssaq area, South Greenland — Funder, S., (1979, 24p., eng) **35-110**

Soil development on moraines of Taylor Glacier, lower Taylor Valley, Antarctica — Pastor, J., et al. (1980, p.341-348, eng) **35-225**

Pliocene marine sediments of southern McMurdo Sound area — Leckie, R.M., et al. (1979, p.54-56, eng) **35-645**

Formation of morainal deposits — Lavrushin, Iu.A., (1980, p.123-135, rus) **35-809**

Glacial lithogenesis under conditions of active volcanism — Gerptner, A.R., (1980, p.136-146, rus) **35-810**

Depositional deglaciation forms — Kurimo, H., (1980, p.179-191, eng) **35-838**

Podsol soils of Central and Eastern European USSR (developed on loams) — Rode, A.A., ed. (1980, 304p., rus) **35-877**

Transport and depositional mechanisms in glacial marine sediments — Domack, E.W., et al. (1980, p.813-820, eng) **35-884**

Pleistocene geology of Amchitka Island, Aleutian Islands, Alaska — Gard, L.M., Jr., (1980, 38p., eng) **35-990**

Rock glaciers and their formation — Whalley, W.B., (1974, 60p., eng) **35-1160**

Working session of the Section of glaciology in February 1980 — Glazovskii, A.F., (1980, p.13-20, rus) **35-1220**

Glacial geology of Grand Manan Island, New Brunswick — Legget, R.F., (1980, p.440-452, eng) **35-1263**

Glacial history and stratigraphy of the Kananaskis Lakes area, Alberta — Jackson, L.E., Jr., (1980, p.459-477, eng) **35-1264**

Glacial Lake Coppermine, N.W.T. — St-Onge, D.A., (1980, p.1310-1315, eng) **35-1267**

Glaciers in China — Chi, J., ed. (1980, c200p., eng) **35-1564**

Glacier-rock glacier transition in the southwest Yukon Territory, Canada — Johnson, P.G., (1980, p.195-204, eng) **35-1661**

Drumlins and large-scale flutings related to glacier folds — Shaw, J., (1980, p.287-298, eng) **35-1666**

Glacial processes — Embleton, C., (1979, p.272-306, eng) **35-1688**

Stratigraphy and glacial sediments of central Arctic Ocean — Clark, D.L., et al. (1980, 57p. + maps, eng) **35-1844**

Late Weichselian ice sheets in Eurasia and Greenland — Andersen, B.G., (1981, p.1-65 + 5 sheets, eng) **35-2063**

Movement of an ice-cored rock glacier, near Tungsten, N.W.T. — Jackson, L.E., Jr., et al. (1980, p.842-847, eng) **35-2175**

Genesis of basal till and sediment changes of the Roseg Glacier — Kilger, R., (1979, p.143-155, ger) **35-2641**

Analysis of sedimentary facies in South Muzart Valley, Tian Shan — Tang, Y., (1980, p.83-86, chi) **35-2679**

Size analysis of glacial sediments — Gu, G., (1980, p.91-92, chi) **35-2682**

Application of humus analysis to geotechnical prospecting some case histories — Nuottilamen, J., et al. (1977, p.1-5, eng) **35-2720**

Magnetic susceptibility and its anisotropy in studying glacial transport — Puranen, R., (1977, p.111-119, eng) **35-2730**

Mercury as a pathfinder for base metal deposits, Swedish Lapland — Duerdil, Y., et al. (1975, p.1-5, eng) **35-2734**

Prospecting in an area of central Sweden — Eriksson, K., (1973, p.83-86, eng) **35-2746**

Ice sheet, subglacial basalts and uplift of the Transantarctic Mts — Stump, E., et al. (1980, p.757-759, eng) **35-2792**

Glacial boulder of Nongnongping Dukou — Jing, C., (1980, p.58, chi) **35-2920**

Some cognizance of the formation of glacial melt-water sedimentation — Zhang, H., (1980, p.59-60, chi) **35-2921**

Quaternary sedimentation and inferred glacier fluctuations, Scotland — Boulton, G.S., et al. (1981, p.39-51, eng) **35-2938**

Grain-size distribution of subglacial till — Haldorsen, S., (1981, p.91-105, eng) **35-2940**

Aspects of the glacial history of Bylot Island, District of Franklin — Klassen, R.A., (1981, p.317-326, eng) **35-3088**

Deglaciation of the Coppermine River region, District of Mackenzie — St-Onge, D.A., et al. (1981, p.327-331, eng) **35-3089**

Glacial marine sedimentation in the Ross Sea, DSDP sites 270-273 — Biddle, K.B., (1980, p.57-59, eng) **35-3173**

Interpretation of Rb-Sr dates of feldspar in tillite on Mt Tuatara, Byrd Glacier — Faure, G., et al. (1980, p.59-60, eng) **35-3174**

Late Quaternary geology of the George V and Adelie continental shelf — Domack, E.W., (1980, p.127-128, eng) **35-3192**

Late Weichselian ice in West Norway — Sindre, E., (1980, 16p., eng) **35-3407**

Genesis of tills and deglaciation in central Lappland — Mmell, H., (1979, 83p. + maps, eng) **35-3408**

Glacial geomorphology — Theakstone, W.H., (1980, p.241-253, eng) **35-3557**

Temperatures within subglacial debris — a gap in our knowledge — Menzies, J., (1981, p.271-273, eng) **35-3606**

Investigations of Werenskiold Glacier, 1970 — Baranowski, S., (1975, p.69-94, eng) **35-3611**

Ablation of ice-moraine ridges of the Hornsund region — Szponar, A., (1975, p.101-125, eng) **35-3613**

Marginal zone of the Arie Glacier — Szponar, A., (1975, p.127-138, eng) **35-3614**

Relief of the marginal zone of the Torell Glacier, Spitsbergen — Karczewski, A., et al. (1977, p.37-62, eng) **35-3621**

Sedimentary and geomorphological consequences of the naled occurrence — Cegla, J., et al. (1977, p.63-84, eng) **35-3622**

Debris forms on the Skoddefjellet slope — Jania, J., (1977, p.91-117, eng) **35-3624**

Surge moraines of the Klutlan Glacier, Yukon Territory, Canada — Wright, H.E., Jr., (1980, p.2-18, eng) **35-3714**

Moraine formation of the Klutlan Glacier, Canada — Driscoll, F.G., Jr., (1980, p.19-30, eng) **35-3715**

Wastage of the Klutlan ice-cored moraines, Yukon Territory, Canada — Driscoll, F.G., Jr., (1980, p.31-39, eng) **35-3716**

Landform development on moraines of the Klutlan Glacier, Canada — Watson, R.A., (1980, p.50-59, eng) **35-3717**

Vegetation on moraines of the Klutlan Glacier, Canada — Birks, H.J.B., (1980, p.60-86, eng) **35-3718**

Soil development on moraines of the Klutlan Glacier, Canada — Jacobson, G.L., et al. (1980, p.87-100, eng) **35-3719**

Pollen and vegetation of moraines of the Klutlan Glacier area, Canada — Birks, H.J.B., (1980, p.101-129, eng) **35-3720**

Limnology of the Klutlan moraines, Yukon Territory, Canada — Whiteside, M.C., et al. (1980, p.130-148, eng) **35-3721**

Glaciers of the Mont Blanc massif (north slope) in 1978, 1979, 1980 — Veyret, P., (1981, p.385-391, fre) **35-3744**

Glacier studies — Ommanney, C.S.L., comp. (1978, p.235-245, eng) **35-3928**

Podsol formed in carbonate-bearing tills, Schefferville area — Belisle, J., et al. (1981, p.85-95, eng) **35-3980**

Origin of ice marginal terraces of east Kangerdluarssuk Glacier, Greenland — Huddart, D., et al. (1981, p.31-39, end) **35-4018**

Glacial sands and mechanical durability of lithic fragments — Statt, R.M., et al. (1981, p.171-183, eng) **35-4023**

On the buried ice near the highway bridge at the Batura Glacier terminus — Shi, Y., (1980, p.166-172, chi) **35-4037**

Deposition of tills in an ice sheet — Broster, B.E., et al. (1981, p.197-204, eng) **35-4092**

Glacial erosion

Studying the formation of mountain glacier moraines — Orlov, A.V., (1980, p.65-68, rus) **35-78**

Quaternary geology of the Narssaq area, South Greenland — Funder, S., (1979, 24p., eng) **35-110**

Geophysical survey of Greenland continental shelf — Brett, C.P., et al. (1979, 29p., eng) **35-111**

Nivation cirques and rivers as self-organizing systems — Armand, A.D., (1980, p.3-15, rus) **35-778**

Land forms of subglacial origin — Makkaveev, A.N., (1980, p.17-24, rus) **35-788**

Formation of morainal deposits — Lavrushin, Iu.A., (1980, p.123-135, rus) **35-809**

Glacial lithogenesis under conditions of active volcanism — Gerptner, A.R., (1980, p.136-146, rus) **35-810**

Relief-forming activity of the Ross and McMurdo Shelf glaciers, Antarctica — Miagkov, S.M., (1980, p.84-91, rus) **35-951**

Glacial processes — Embleton, C., (1979, p.272-306, eng) **35-1688**

Composition of morainal silt of Spitsbergen Archipelago glaciers — Konishchev, V.N., et al. (1979, p.102-109, rus) **35-1832**

Glaciation, erosion and uplift over part of East Antarctica — Wellman, P., et al. (1981, p.142-144, eng) **35-3367**

Glacial geomorphology — Theakstone, W.H., (1980, p.241-253, eng) **35-3557**

Depth of glacial erosion in Greenland and North America — Lane, E.P., (1980, p.188-198, eng) **35-3679**

Glacial geology

Former glaciation of the Orville Coast region — Carrara, P., (1979, p.45-46, eng) **35-639**

Dufek Massif and Forrestal Range glacial geology — Boyer, S.J., (1979, p.46-48, eng) **35-640**

Geology of Hobbs Coast, Marie Byrd Land — LeMasurier, W.E., et al. (1979, p.48-50, eng) **35-641**

Cape Spirit mirabilite beds — Brady, H.T., et al. (1979, p.50-52, eng) **35-642**

Ross Sea glaciations' events in the Lower Victoria Valley — Borns, H.W., Jr., (1979, p.52-53, eng) **35-643**

Glaciology and glaciogeomorphology in Victoria Land and Queen Maud Mountains — Mayewski, P.A., (1979, p.53-, eng) **35-644**

Glacial history of the Byrd-Darwin Glacier area — Denton, G.H., (1979, p.57-58, eng) **35-646**

Pedology of the Darwin Glacier area — Bockheim, J.G., et al. (1979, p.58-59, eng) **35-647**

Glacial morphology and hydrology of Kamuu and Petapohjola, Finland — Kurimo, H., (1979, 64p. + 1 map, eng) **35-994**

Glacial geology of Grand Manan Island, New Brunswick — Legget, R.F., (1980, p.440-452, eng) **35-1263**

Physical weathering in Taylor Valley — Mottke, F.-D., (1979, p.117-142, ger) **35-1310**

Bottom sediments under the Novolazarevskaya ice shelf — Kolobov, D.D., et al. (1980, p.93-96, rus) **35-1459**

Glacier bed landforms of North American prairies — Moran, S.R., et al. (1980, p.457-476, eng) **35-1508**

Glacial processes — Embleton, C., (1979, p.272-306, eng) **35-1688**

Areas of bottom melting of ice cover in the Transantarctic Mountains — Miagkov, S.M., (1980, p.103-106, rus) **35-2042**

Last great ice sheets — Denton, G.H., ed. (1981, 484p., eng) **35-2062**

Late Weichselian ice sheets in Eurasia and Greenland — Andersen, B.G., (1981, p.1-65 + 5 sheets, eng) **35-2063**

Late Wisconsin ice sheets in North America — Mayewski, P.A., et al. (1981, p.67-178 + 3 sheets, eng) **35-2064**

West antarctic ice sheet during the last glaciation — Stuiver, M., et al. (1981, p.319-436 + 5 sheets, eng) **35-2069**

Methodology of the geological investigation of Hays Glacier — Dietrich, H., (1980, p.20-24, ger) **35-2430**

Prospecting in areas of glaciated terrain 1977 — (1977, 140p., eng) **35-2719**

Case history of a Swedish uranium deposit — Gustafsson, B., et al. (1977, p.72-79, eng) **35-2726**

Prospecting in areas of glaciated terrain 1975 — Jones, M.J., ed. (1975, 154p., eng) **35-2733**

Investigations of molybdenum-copper deposits, southern Norway — Vokes, F.M., et al. (1975, p.32-40, eng) **35-2736**

Prospecting in areas of glaciated terrain, 1973 — Jones, M.J., ed. (1973, 138p., eng) **35-2741**

Ice sheet, subglacial basalts and uplift of the Transantarctic Mts — Stump, E., et al. (1980, p.757-759, eng) **35-2792**

Glacial history of the Ellsworth Mountains — Rutford, R.H., et al. (1980, p.56-57, eng) **35-3172**

Glacial marine sedimentation in the Ross Sea, DSDP sites 270-273 — Biddle, K.B., (1980, p.57-59, eng) **35-3173**

Interpretation of Rb-Sr dates of feldspar in tillite on Mt Tuatara, Byrd Glacier — Faure, G., et al. (1980, p.59-60, eng) **35-3174**

Late Quaternary geology of the George V and Adelie continental shelf — Domack, E.W., (1980, p.127-128, eng) **35-3192**

Kennebunk glacial advance a reappraisal — Smith, G.W., (1981, p.250-253, eng) **35-3605**

Slope cover deposits of mountain areas, SW Spitsbergen — Martini, A., (1975, p.147-185, eng) **35-3616**

Antarctic glacial chronology reflected in Ross Sea sediments — Balshaw, K.M., (1981, 140p., eng) **35-3915**

Observations on the stone-banked lobes of Marion Island — Hall, K., (1981, p.129-131, eng) **35-4296**

Glacial hydrology

Advice of the Institute of Hydrosphere Science, Nagoya University, Japan — Gu, G., (1980, p.61-62, chi) **35-129**

Mudflows, No.4 — Vinogradov, R.B., ed. (1980, 148p., rus) **35-203**

Glacial hydrology *(cont.)*

Mudflows formed by glacial runoff. Mochalov, V.P., et al. (1980, p.64-67, rus) **35-211**

Mudflows triggered by glacial runoff. Golubovich, V.A., (1980, p.103-106, rus) **35-213**

Formation of glacial mudflows. Markov, I.N., et al. (1980, p.107-112, rus) **35-214**

Mudflow impact tests. Bolarskii, I.I.A., (1980, p.120-126, rus) **35-216**

Supra-glacial lakes in Spitsbergen. Liestol, O., et al. (1980, p.89-92, eng) **35-254**

Glacier economy in Bolivia. Jordan, E., (1979, p.297-309, ger) **35-359**

Application of the UBC watershed model to Peyto Glacier basin. Power, J.M., et al. (1979, p.217-228, eng) **35-415**

Separation of runoff components in glacierized alpine watersheds. Collins, D.N., et al. (1979, p.570-581, eng) **35-435**

Mudflow formation in high mountains. Vinogradov, V.A., (1980, p.82-85, rus) **35-455**

Glacial runoff control. Krenke, A.N., (1980, p.5-19, rus) **35-466**

Controlling runoff from naleds. Kemmerikh, A.O., (1980, p.20-25, rus) **35-467**

Saline discharge at the terminus of Taylor Glacier. Keys, J.R., (1979, p.82-85, eng) **35-661**

Glaciology of mountain regions (snow cover, avalanches and glaciers). Suslov, V.F., ed. (1980, 144p., rus) **35-709**

Classification of pulsating glaciers. Sannikov, A.G., (1980, p.112-119, rus) **35-721**

Diurnal regulation of glacial runoff. Sokolov, D.P., et al. (1980, p.120-126, rus) **35-722**

Glacial morphology and hydrology of Kainuu and Perapohjola, Finland. Kurimo, H., (1979, 64p. + 1 map, eng) **35-994**

Soviet glaciological studies in 1979. Kotlyakov, V.M., et al. (1980, p.5-13, rus) **35-1219**

International symposium on glacial hydrology. Korzun, V.E., (1980, p.89-90, rus) **35-1232**

Calculating runoff from glaciated areas. Lang, H., (1980, p.107-115, rus) **35-1237**

Snow and glacier contributions in Himalayan catchments. Bahadur, J.B., et al. (1980, p.121-125, rus) **35-1240**

Factors affecting discharge of glacial rivers. Tsomaia, V.Sh., (1980, p.125-130, rus) **35-1241**

Study of the Central Himalayan glacier Millam. Joshi, B.P., (1980, p.130-132, rus) **35-1242**

Chemical composition of glacial waters. Izrael', Yu.A., et al. (1980, p.157-162, rus) **35-1249**

Chemical composition of glacier meltwaters. Vilesov, E.N., et al. (1980, p.162-166, rus) **35-1250**

Specific features in the formation of chemical composition of natural waters in East Antarctica. Bardin, V.I., et al. (1980, p.166-171, rus) **35-1251**

Protective measures in glacial mudflow areas. Fleishman, S.M., (1980, p.268-271, rus) **35-1257**

Water resources of mountains. L'vovich, M.I., et al. (1980, p.50-65, rus) **35-1438**

Glacial hydrology of an ice-dammed lake, Ellesmere Island, N.W.T. Blachut, S.P., (1976, 202p., eng) **35-1466**

Fluvio-glacial balance of the Arctic. Kotlyakov, V.M., et al. (1980, p.11-21, rus) **35-1565**

Mudflows in Altai and Sayan Mountains. Abramenko, N.A., (1980, p.49-54, rus) **35-1806**

Glacial mudflows in river basins. Laptev, V.I., (1980, p.55-58, rus) **35-1807**

Permafrost conditions in Spitsbergen. Liestol, O., (1980, p.23-28, eng) **35-1990**

Numerical reconstruction of paleo-ice sheets. Hughes, T.J., (1981, p.221-261, eng) **35-2067**

Geochemical sampling media useful in glaciated terrain. Boyle, D.R., et al. (1975, p.6-15, eng) **35-2735**

Resolutions of the Editorial Board of the World Atlas of Snow and Ice Resources (The fifth meeting, 21 February, 1980). (1980, p.7-8, rus) **35-2804**

Snow cover. Getker, M.I., (1980, p.8-20, rus) **35-2805**

Snowmelt and glacial runoff. Dreier, N.N., (1980, p.25-26, rus) **35-2808**

Part of snowmelt in the discharge of Himalayan Rivers. Krishnamurthy, K., (1980, p.37-39, 118-120, rus) **35-2813**

Evaluating glacial runoff in a Himalayan river basin. Ramamoorthi, A.S., (1980, p.39-42, 120-124, rus) **35-2814**

Modeling formation of runoff in a basin with widespread glaciation. Borovikova, L.N., et al. (1980, p.49-55, 130-134, rus) **35-2816**

Modeling glacial runoff in river basins. Christensen, M., et al. (1980, p.81-86, 154-157, rus) **35-2821**

Dynamics of melt waters on the Abramov glacier. Akbarov, A.A., et al. (1980, p.92-96, 161-165, rus) **35-2823**

Oxygen isotope balance in the Issyk-Kul' glacial basin. Brezgunov, V.S., et al. (1981, p.10-14, rus) **35-3297**

Uranium and plutonium isotopes in glacier ice. Bondarev, I.G., et al. (1981, p.198-200, rus) **35-3302**

Glacial geomorphology. Theakstone, W.H., (1980, p.241-253, eng) **35-3557**

Meteorology and hydrology in the Hornsund region, Spitsbergen, 1970. Baranowski, S., et al. (1975, p.35-59, eng) **35-3610**

Investigations of Werenskiold Glacier, 1970. Baranowski, S., (1975, p.69-94, eng) **35-3611**

Jokulhlaups on Snow River in southcentral Alaska. Chapman, D.L., (1981, 48p., eng) **35-3680**

Interglacial water flow: a theory and mathematical models. Spring, U., (1980, 197p., ger) **35-3711**

Trace experiments on the water flow through the Aletsch Glacier. Lang, H., et al. (1979, p.209-218, eng) **35-3730**

Meltwater movement through the firn in an alpine glacier. Behrens, H., et al. (1979, p.219-228, ger) **35-3731**

Meltwater flow in the water table of a temperate glacier. Ambach, W., et al. (1979, p.229-234, ger) **35-3732**

Hydrological research in Canada. Brown, I.C., comp. (1978, p.247-251, eng) **35-3929**

Interrelationship between surface and ground water in the permafrost zone. Piguzova, V.M., ed. (1980, 146p., rus) **35-3988**

Hydrology of permafrost in the Polar Ural Mountains. Oberman, N.G., (1980, p.5-13, rus) **35-3989**

Relations between ice of different origin. Sheinkman, V.S., (1980, p.97-103, rus) **35-3999**

Physics of glaciers. Paterson, W.S.B., (1981, 380p., eng) **35-4009**

Origin of ice marginal terraces of east Kangerdluarssuk Glacier, Greenland. Huddart, D., et al. (1981, p.31-39, end) **35-4018**

Hydraulic geometry of a supra-glacial stream. Park, C.C., (1981, p.1-9, eng) **35-4022**

Climate of Batura Glacier and its adjacent areas. Liu, G., (1980, p.99-110, chi) **35-4032**

Basic features of the meltwater of Batura Glacier. Li, J., et al. (1980, p.111-132, chi) **35-4033**

Calculating the peak discharge of Batura Glacier. Li, N., et al. (1980, p.133-145, chi) **35-4034**

Migrating subglacial channel of Batura Glacier. Zhang, X., et al. (1980, p.153-165, chi) **35-4036**

Stereophotographic mapping of the Batura Glacier drainage area. Chen, J., et al. (1980, p.208-220, chi) **35-4040**

Glacier surveys in Alberta, 1979. Reid, I.A., et al. (1981, , eng) **35-4208**

Glacial lakes

On the vertical displacement of small stones in a shallow pond by freezing. Ohata, T., (1978, p.67-70, eng) **35-56**

Forecasting glacial mudflows. Chistiaev, V.B., (1978, p.64-84, rus) **35-71**

Development of cryogenic relief in Pamirs and Tien Shan. Ermolin, E.D., (1979, p.88-105, rus) **35-191**

Mudflows, No.4. Vinogradov, Yu.B., ed. (1980, 148p., rus) **35-203**

Mudflows caused by breakthrough of morainal lakes. Popov, V.I., et al. (1980, p.57-63, rus) **35-210**

Mudflows formed by glacial runoff. Mochalov, V.P., et al. (1980, p.64-67, rus) **35-211**

Formation of glacial mudflows. Markov, I.N., et al. (1980, p.107-112, rus) **35-214**

Glacial mudflows and countermeasures. Mochalov, V.P., et al. (1980, p.113-119, rus) **35-215**

Supra-glacial lakes in Spitsbergen. Liestol, O., et al. (1980, p.89-92, eng) **35-254**

Glacial morphology and hydrology of Kainuu and Perapohjola, Finland. Kurimo, H., (1979, 64p. + 1 map, eng) **35-994**

Protective measures in glacial mudflow areas. Fleishman, S.M., (1980, p.268-271, rus) **35-1257**

Glacial Lake Coppermine, N.W.T. St-Onge, D.A., (1980, p.1310-1315, eng) **35-1267**

Glacial mudflows in river basins. Laptev, V.I., (1980, p.55-58, rus) **35-1807**

Areas of bottom melting of ice cover in the Transantarctic Mountains. Miagkov, S.M., (1980, p.103-106, rus) **35-2042**

Deglaciation and glacial lakes in Finnish Lapland. Seppala, M., (1980, p.311-319, eng) **35-2144**

Sedimentation in proglacial Sunwapta Lake, Alberta. Gilbert, R., et al. (1981, p.81-93, eng) **35-2707**

Periglacial lakes in Zailiyskiy Alatau. Tokmagambetov, G.A., et al. (1980, p.97-101, 165-170, rus) **35-2824**

Impact of floods from glacier-dammed lakes, Yukon, Canada. Young, G.J., (1980, p.101-107, 170-175, rus) **35-2825**

Glacial mudflows in Central Asia. Nikitin, A.M., et al. (1980, p.107-110, 175-178, rus) **35-2826**

Glaciers and water reserves in the Ha-la-hu Lake area. Wu, K., et al. (1979, p.27-32, chi) **35-2899**

Oxygen isotope balance in the Issyk-Kul' glacial basin. Brezgunov, V.S., et al. (1981, p.10-14, rus) **35-3297**

Jokulhlaups on Snow River in southcentral Alaska. Chapman, D.L., (1981, 48p., eng) **35-3680**

Radiocarbon date list 1; Labrador and northern Quebec, Canada. Short, S.K., comp. (1981, 33p., eng) **35-3681**

Interglacial water flow: a theory and mathematical models. Spring, U., (1980, 197p., ger) **35-3711**

Landform development on moraines of the Klutlan Glacier, Canada. Watson, R.A., (1980, p.50-59, eng) **35-3717**

Limnology of the Klutlan moraines, Yukon Territory, Canada. Whiteside, M.C., et al. (1980, p.130-148, eng) **35-3721**

Paleolimnology of the Klutlan Glacier area, Canada. Bradbury, J.P., et al. (1980, p.149-168, eng) **35-3722**

Sedimentation in a glacier-fed lake. Smith, N.D., (1981, p.75-82, eng) **35-4085**

Geomorphology of Kangerdlugssuaq, Greenland. Brooks, C.K., (1979, 25p., eng) **35-4213**

Glacial meteorology

Glacial meteorology of Mt. Tuomuer. Kou, Y., et al. (1980, p.11-14, chi) **35-2911**

Selected papers from the Franco-Soviet Symposium on the Alps and Caucasus. (1981, p.219-403, fre) **35-3739**

Climatic regime of glaciers and their oscillations. Golubev, G.N., et al. (1981, p.319-328, fre) **35-3742**

General features of Batura Glacier. Zhang, X., et al. (1980, p.8-27, chi) **35-4027**

Some features of radiation and heat balance of Batura Glacier. Bai, Z., et al. (1980, p.57-82, chi) **35-4030**

Surface ablation and its variation of Batura Glacier. Zhang, J., et al. (1980, p.83-98, chi) **35-4031**

Climate of Batura Glacier and its adjacent areas. Liu, G., (1980, p.99-110, chi) **35-4032**

Glacial rivers

Mudflows formed by glacial runoff. Mochalov, V.P., et al. (1980, p.64-67, rus) **35-211**

Classification of pulsating glaciers. Sannikov, A.G., (1980, p.112-119, rus) **35-721**

Diurnal regulation of glacial runoff. Sokolov, D.P., et al. (1980, p.120-126, rus) **35-722**

Nivation cirques and rivers as self-organizing systems. Armand, A.D., (1980, p.3-15, rus) **35-778**

Factors affecting discharge of glacial rivers. Tsomaia, V.Sh., (1980, p.125-130, rus) **35-1241**

Study of the Central Himalayan glacier Millam. Joshi, B.P., (1980, p.130-132, rus) **35-1242**

Role of glaciological investigations in the studies and development of mountainous regions. Kotlyakov, V.M., et al. (1980, p.37-40, rus) **35-1437**

Water resources of mountains. L'vovich, M.I., et al. (1980, p.50-65, rus) **35-1438**

Glaciers in China. Chi, J., ed. (1980, c200p., eng) **35-1564**

Part of snowmelt in the discharge of Himalayan Rivers. Krishnamurthy, K., (1980, p.37-39, 118-120, rus) **35-2813**

Forecasting glacial runoff of mountain rivers. Abal'ian, T.S., et al. (1980, p.42-49, 124-129, rus) **35-2815**

Streamflow formation in a glacierized watershed in the Rocky Mountains, Canada. Young, G.J., (1980, p.55-62, 134-139, rus) **35-2817**

Modeling glacial runoff in river basins. Christensen, M., et al. (1980, p.81-86, 154-157, rus) **35-2821**

Isotope content and electric properties of glacial runoff. Oerter, H., et al. (1980, p.86-92, 157-161, rus) **35-2822**

Glacial mudflows in Central Asia. Nikitin, A.M., et al. (1980, p.107-110, 175-178, rus) **35-2826**

Forecasting flooding of glacial rivers. Rist, S., (1980, p.110-111, 178-179, rus) **35-2827**

Hydraulic geometry of a supra-glacial stream. Park, C.C., (1981, p.1-9, eng) **35-4022**

Supraglacial streams, Austre Okstindbreen, Norway. Knighton, A.D., (1981, p.295-306, eng) **35-4262**

Glacial till

Kola Peninsula till stratigraphy. Evzerov, V.IA., et al. (1977, p.30-33, eng) **35-2722**

Problems of geochemical contrasts in Finnish soils. Kauranne, L.K., et al. (1977, p.34-44, eng) **35-2723**

Till-sampling methods used for sheelite in Kaustinen, Finland. Lindmark, B., (1977, p.44-48, eng) **35-2724**

Geochemical evaluation of ore potential. Bjorklund, A., (1977, p.56-62, eng) **35-2725**

Case history of a Swedish uranium deposit. Gustafsson, B., et al. (1977, p.72-79, eng) **35-2726**

Glacial dispersion of uranium in the District of Keewatin, Canada. Klassen, R.A., et al. (1977, p.80-88, eng) **35-2727**

Geophysical methods in thick overburden, Kolari, Finland. Hattula, A., (1977, p.120-127, eng) **35-2731**

Glacial transport in Finnish Lapland. Hirvas, H., (1977, p.128-136, eng) **35-2732**

Geochemical exploration in a glacial ice-divide region, Finnish Lapland. Nurmi, A., (1975, p.54-59, eng) **35-2737**

Regional geochemical mapping in Finland. Kauranne, L.K., (1975, p.71-81, eng) **35-2738**

Geochemical prospecting in stratified till in Finland. Kokkola, M., (1975, p.149-154, eng) **35-2740**

Exploration for uranium through glacial drift in northern Sweden. Lundberg, B., (1973, p.31-43, eng) **35-2743**

Sampling of the till-bedrock interface in geochemical exploration. Wennevirta, H., (1973, p.67-71, eng) **35-2744**

Modern boulder tracing in prospecting. Hyvarinen, L., et al. (1973, p.87-98, eng) **35-2747**

Prospecting for nickel in north Sweden. Nilsson, G., (1973, p.97-109, eng) **35-2748**

Glaciation

Permafrost and relation between glaciation and periglaciation. Cui, Z., (1980, p.1-6, chi) **35-117**

Recent advances of the study on Quaternary glaciation in Qing-Zang Plateau. Zheng, B., (1980, p.15-18, chi) **35-120**

Ice age theory and variation of the Earth orbit — Xu, Q., (1980, p.53-57, chi) **35-127**

Glaciation of the Kuznetskiy Alatau — Shpil', P.S., (1980, 84p., rus) **35-307**

Pulsating glaciers of the Gissar-Alay Mountains — Glazyrin, G.E., et al, (1980, p.81-100, rus) **35-718**

Studies in the Lateglacial of north-west Europe — Lowe, J., ed, (1980, 205p., eng) **35-796**

Depositional deglaciation forms — Kurimo, H., (1980, p.179-191, eng) **35-838**

Cases in Antarctica — Solopov, V.V., (1969, 146p., eng) **35-898**

Glaciations in the Khumbu Himal, Pt.2 — Fushimi, H., (1978, p.71-77, eng) **35-899**

Pleistocene geology of Amchitka Island, Aleutian Islands, Alaska — Gard, L.M., Jr., (1980, 38p., eng) **35-990**

Proposed history of permafrost development in Labrador-Ungava — Ives, J.D., (1979, p.233-244, eng) **35-1041**

Surface glaciation and permafrost of West Siberia — Kaplianskaia, F.A., et al, (1978, p.18-28, rus) **35-1421**

Ice flow during the Fraser Glaciation, Cascade Range, Washington — Heller, P.L., (1980, p.299-308, eng) **35-1667**

Rapid ice-sheet growth and initiation of the last glaciation — Johnson, R.G., et al, (1979, p.119-133, eng) **35-1776**

Climate and topography of Wrangel Island — Skryl'nik, G.P., (1976, p.20-43, rus) **35-1851**

Permafrost active layer in the Sudety Mountains during the last glaciation — Jahn, A., (1981, p.29-42, eng) **35-1883**

Last ice sheet retreat in NE British Columbia and Alberta — Mathews, W.H., (1980, 22p., eng) **35-1908**

Vertical distribution of plants in the Putorana Mountains — Kuvaev, V.B., (1980, 261p., rus) **35-2051**

Glacial history of the Kirgiz Ala Tau Range — Maksimov, E.V., (1980, 184p. (pertinent p.116-142), rus) **35-2394**

Trends in ice cover development in the Arctic Basin — Vasil'ev, S.V., (1972, p.69-70, rus) **35-2425**

Ice sheet, subglacial basalts and uplift of the Transantarctic Mts — Stump, E., et al, (1980, p.757-759, eng) **35-2792**

Modeling formation of runoff in a basin with widespread glaciation — Borovikova, L.N., et al, (1980, p.49-55, 130-134, rus) **35-2816**

Streamflow formation in a glacierized watershed in the Rocky Mountains, Canada — Young, G.J., (1980, p.55-62, 134-139, rus) **35-2817**

Pleistocene glaciation of eastern China — Yan, Q., et al, (1980, p.52-57, chi) **35-2919**

Glaciations and marine transgressions, Kennedy Channel, N.W.T. — England, J., et al, (1981, p.71-89, eng) **35-2939**

Glaciation effect on migration and accumulation of hydrocarbons — Isaiev, V.P., (1980, 213p., rus) **35-2955**

Sea level, ice and climatic change, Proceedings of the Symposium, 7-8 Dec. during the 17th General Assembly of IUGG, Canberra — Allison, I., ed, (1981, 471p., eng) **35-3017**

Soviet studies on glacier changes — Kotlakov, V.M., et al, (1981, p.361-368, eng) **35-3039**

Growth and retreat of ice sheets — Budd, W.F., et al, (1981, p.369-409, eng) **35-3040**

Lake sediment coring along Smith Sound, Ellesmere Island and Greenland — Blake, W., Jr., (1981, p.191-200, eng) **35-3086**

Aspects of the glacial history of Bylot Island, District of Franklin — Klassen, R.A., (1981, p.317-326, eng) **35-3088**

Development and prospects of space glaciology — Kotlakov, V.M., (1981, p.7-15, rus) **35-3539**

Glacial and periglacial geomorphology in Japan — Ono, Y., (1980, p.149-160, eng) **35-3556**

Depth of glacial erosion in Greenland and North America — Laine, E.P., (1980, p.188-198, eng) **35-3679**

Present glaciation and climate of the Caucasus — Kotlakov, V.M., et al, (1981, p.241-264, fre) **35-3740**

Microparticle concentration variations linked with climatic change: evidence from polar ice cores — Thompson, L.G., et al, (1981, p.812-815, eng) **35-3773**

Pingos in southern Sweden during Late Glacial time — Svensson, H., (1979, p.35-47, swe) **35-4007**

Changes of Batura Glacier in the Quaternary and recent times — Zhang, X., et al, (1980, p.173-190, chi) **35-4038**

Glacial mudflows in Altai Mountains — Vinogradov, V.A., (1981, p.87-92, rus) **35-4304**

Glacier ablation

Forecasting glacial mudflows — Chistiaev, V.B., (1978, p.64-84, rus) **35-71**

Mudflows caused by breakthrough of morainal lakes — Popov, V.I., et al, (1980, p.57-63, rus) **35-210**

Mudflows formed by glacial runoff — Mochalov, V.P., et al, (1980, p.64-67, rus) **35-211**

Mudflows triggered by glacial runoff — Golubovich, V.A., (1980, p.103-106, rus) **35-213**

Formation of glacial mudflows — Markov, I.N., et al, (1980, p.107-112, rus) **35-214**

Glacial mudflows and countermeasures — Mochalov, V.P., et al, (1980, p.113-119, rus) **35-215**

Water, ice, and heat balance of mountain glacier basins — Suslov, V.F., et al, (1980, 206p., rus) **35-232**

Glaciation of the Kuznetskiy Alatau — Shpil', P.S., (1980, 84p., rus) **35-307**

Glaciology of mountain regions (snow cover, avalanches and glaciers) — Suslov, V.F., ed, (1980, 144p., rus) **35-709**

Effect of morainal deposits on glacier melting — Denisov, I.M., (1980, p.67-80, rus) **35-717**

Calculating total annual glacier ablation — Vilesov, E.N., et al, (1980, p.101-104, rus) **35-719**

Classification of pulsating glaciers — Sannikov, A.G., (1980, p.112-119, rus) **35-721**

Diurnal regulation of glacial runoff — Sokolov, D.P., et al, (1980, p.120-126, rus) **35-722**

Record of Grinnell and Sperry Glaciers, Montana — Johnson, A., (1980, 29p. + 2 maps, eng) **35-862**

Glaciological studies in Tsurugisawa (ablation and climate) — Maribayashi, S., et al, (1980, p.1-28, jap) **35-1064**

Energy balance of glacier surfaces — Radok, U., (1980, p.90-92, rus) **35-1233**

Mathematical method of forecasting glacier ablation rates — Shumskii, P.A., et al, (1980, p.92-98, rus) **35-1234**

Calculating radiation balance on glacier surfaces — Cherkasov, P.A., (1980, p.98-104, rus) **35-1235**

Radiation balance of glaciers in the Oetztal Alps — Wagner, H.P., (1980, p.104-107, rus) **35-1236**

Calculating runoff from glaciated areas — Lang, H., (1980, p.107-115, rus) **35-1237**

Snow and glacier contributions in Himalayan catchments — Bahadur, J.B., et al, (1980, p.121-125, rus) **35-1240**

Mass balance of the Gara Glacier, India — Vohra, C., et al, (1980, p.132-136, rus) **35-1243**

Ice and water balance of mountain glaciers — Reinwarth, O., (1980, p.137-138, rus) **35-1244**

Ice and water balances of South Cascade glacier — Krimmel, R.K., et al, (1980, p.143-147, rus) **35-1246**

Dynamics and mass balance of mountain glaciers — Golubev, G.N., et al, (1980, p.147-152, rus) **35-1247**

Chemical composition of glacier meltwaters — Vilesov, E.N., et al, (1980, p.162-166, rus) **35-1250**

Water resources of mountains — Ushkovich, M.I., et al, (1980, p.50-65, rus) **35-1438**

Glacier systems of the Northeastern USSR — Krenke, A.N., et al, (1980, p.17-33, rus) **35-1532**

Glaciers in China — Chi, J., ed, (1980, c200p., eng) **35-1564**

Glacial hydrology of Pamirs — Kemmerikh, A.O., (1980, p.88-94, rus) **35-1922**

Extent of meltwater areas in Antarctica — Klokov, V.D., (1980, p.29-35, rus) **35-2028**

Causes of mountain glacier oscillation in antarctic dry valleys — Miagkov, S.M., (1980, p.95-98, rus) **35-2040**

Trends in ice cover development in the Arctic Basin — Vasil'ev, S.V., (1972, p.69-70, rus) **35-2425**

Regime of glaciers — Krenke, A.N., (1980, p.20-23, rus) **35-2806**

Snowmelt and glacial runoff — Dreier, N.N., (1980, p.25-26, rus) **35-2808**

Calculating glacial runoff in the Caucasus — Krenke, A.N., et al, (1980, p.31-37, 112-118, rus) **35-2812**

Evaluating glacial runoff in a Himalayan river basin — Ramamoorthi, A.S., (1980, p.39-42, 120-124, rus) **35-2814**

Forecasting glacial runoff of mountain rivers — Abal'ian, T.S., et al, (1980, p.42-49, 124-129, rus) **35-2815**

Modeling formation of runoff in a basin with widespread glaciation — Borovikova, L.N., et al, (1980, p.49-55, 130-134, rus) **35-2816**

Glacier runoff related to Columbia River hydroelectric power generation — Tangborn, W.V., (1980, p.62-67, 140-143, rus) **35-2818**

Dusting effect on ice and snow melting — Denisov, I.M., (1980, p.67-72, 143-147, rus) **35-2819**

Dynamics of melt waters on the Abramov glacier — Akbarov, A.A., et al, (1980, p.92-96, 161-165, rus) **35-2823**

Impact of floods from glacier-dammed lakes, Yukon, Canada — Young, G.J., (1980, p.101-107, 170-175, rus) **35-2825**

Stream-melting theory of glacier ablation — Kazanskii, A.B., et al, (1980, p.203-206, rus) **35-2833**

Primary results of the study on modern glaciers in the region of Mt. Tuomuer — Wang, L., et al, (1980, p.15-18, chi) **35-2912**

Research on glacial hydrology in the Mount Tuomer region — Kang, E., et al, (1980, p.18-21, chi) **35-2913**

Ice flow in the bare ice area near the Allan Hills — Nishio, F., et al, (1980, p.1-13, eng) **35-2964**

Recent fluctuations of glaciers in the eastern part of Nepal Himalayas — Fushimi, H., et al, (1981, p.21-29, eng) **35-3019**

Lewis Glacier (Mt. Kenya) and possible links tropical climate — Vincent, C.E., et al, (1981, p.63-78, eng) **35-3022**

Growth and retreat of ice sheets — Budd, W.F., et al, (1981, p.369-409, eng) **35-3040**

Glaciological studies in Allan Hills, 1979-80 — Annexstad, J.O., et al, (1980, p.65-66, eng) **35-3176**

Ablation of ice-moraine ridges of the Hornsund region — Szponar, A., (1975, p.101-125, eng) **35-3613**

Glacial mudflows in Pamirs — Kemmerikh, A.O., (1978, p.307-309, eng) **35-3686**

Glacier threatens shipping lanes — (1980, p.10-16, eng) **35-3854**

Physical properties of Vahsel Glacier, Heard Island — Allison, I.F., (1980, 31p., eng) **35-3916**

Recent changes of the glacier Osterdalsisen, Svartisen, Norway — Knudsen, N.T., et al, (1981, p.23-30, eng) **35-4017**

Surface ablation and its variation of Batura Glacier — Zhang, J., et al, (1980, p.83-98, chi) **35-4031**

Basic features of the meltwater of Batura Glacier — Fu, J. et al, (1980, p.111-132, chi) **35-4033**

Glacier alimentation

Water, ice, and heat balance of mountain glacier basins — Suslov, V.F., et al, (1980, 206p., rus) **35-232**

Glaciation of the Kuznetskiy Alatau — Shpil', P.S., (1980, 84p., rus) **35-307**

Glaciology of mountain regions (snow cover, avalanches and glaciers) — Suslov, V.F., ed, (1980, 144p., rus) **35-709**

International symposium on glacial hydrology — Kotlyakov, V.F., (1980, p.89-90, rus) **35-1232**

Energy balance of glacier surfaces — Radok, U., (1980, p.90-92, rus) **35-1233**

Radiation balance of glaciers in the Oetztal Alps — Wagner, H.P., (1980, p.104-107, rus) **35-1236**

Mass balance of the Gara Glacier, India — Vohra, C., et al, (1980, p.132-136, rus) **35-1243**

Ice and water balance of mountain glaciers — Reinwarth, O., (1980, p.137-138, rus) **35-1244**

Ice and water balances of South Cascade glacier — Krimmel, R.K., et al, (1980, p.143-147, rus) **35-1246**

Dynamics and mass balance of mountain glaciers — Golubev, G.N., et al, (1980, p.147-152, rus) **35-1247**

Chemical composition of glacial waters — Izrael', Iu.A., et al, (1980, p.157-162, rus) **35-1249**

Tritium in ice near Molodezhnaya Station — Herbert, D. et al, (1980, p.91-94, rus) **35-2039**

Causes of mountain glacier oscillation in antarctic dry valleys — Miagkov, S.M., (1980, p.95-98, rus) **35-2040**

Trends in ice cover development in the Arctic Basin — Vasil'ev, S.V., (1972, p.69-70, rus) **35-2425**

Pollen analysis in annual layers of glaciers — Wang, R., et al, (1980, p.87-90, chi) **35-2680**

Calculating glacial runoff in the Caucasus — Krenke, A.N., et al, (1980, p.31-37, 112-118, rus) **35-2812**

Seepage alimentation of glaciers — Bazhev, A.B., (1980, p.73-81, 147-154, rus) **35-2820**

Primary results of the study on modern glaciers in the region of Mt. Tuomuer — Wang, L., et al, (1980, p.15-18, chi) **35-2912**

Growth and retreat of ice sheets — Budd, W.F., et al, (1981, p.369-409, eng) **35-3040**

Glaciology of mountainous regions (snow cover, avalanches) — Kanaev, I.A., ed, (1980, 144p., rus) **35-3569**

Avalanches in the Inyl'chek River basin — Maksimov, V.V., (1980, p.121-126, rus) **35-3583**

Measurements of the Pasterze Glacier area, Austria, 1979 — Wakonigg, H., (1979, p.247-251, ger) **35-3734**

Glacier accumulation zone reaction to climate changes — Whillans, I.M., (1981, p.4274-4282, eng) **35-3913**

Glacier beds

Land forms of subglacial origin — Makkaveev, A.N., (1980, p.17-24, rus) **35-788**

Glacial lithogenesis under conditions of active volcanism — Geptner, A.R., (1980, p.136-146, rus) **35-810**

Nature of the ice-rock interface — Vivian, R., (1980, p.267-277, eng) **35-1821**

Composition of morainal silt of Spitsbergen Archipelago glaciers — Komshchev, V.N., et al, (1979, p.102-109, rus) **35-1832**

Areas of bottom melting of ice cover in the Transantarctic Mountains — Miagkov, S.M., (1980, p.103-106, rus) **35-2042**

Subglacial topography of the Vavilov Ice Dome — Bogorodskii, V.V., et al, (1980, p.192-194, rus) **35-2830**

Grain-size distribution of subglacial till — Haldorsen, S., (1981, p.91-105, eng) **35-2940**

Glacial geomorphology — Theakstone, W.H., (1980, p.241-253, eng) **35-3557**

Interpretation of monopulse ice radar soundings on two Peruvian glaciers — Jezek, K.C., et al, (1981, p.958-973, eng) **35-3588**

Glacier flow

Mass balance studies on Kongma Glacier, Khumbu Himal — Ikegami, K., et al, (1978, p.12-16, eng) **35-52**

Photogrammetry for snow depth measurements and glacier formation — Tsuchiya, T., (1976, p.178-187, jap) **35-260**

Inherent noise of the Antarctic glacier in the Novolazarevskaya Station area and acoustic attenuations — Gavrilo, V.P., et al, (1980, p.56-61, rus) **35-370**

Byrd Glacier — Hughes, T., (1979, p.88-91, eng) **35-664**

Land forms of subglacial origin — Makkaveev, A.N., (1980, p.17-24, rus) **35-788**

Record of Grinnell and Sperry Glaciers, Montana — Johnson, A., (1980, 29p. + 2 maps, eng) **35-862**

Rock glaciers and their formation — Whalley, W.B., (1974, 60p., eng) **35-1160**

Temperature profiles in the Barnes Ice Cap, Canada — Hooke, R.L., et al, (1980, p.1174-1188, eng) **35-1266**

Glacier flow *(cont.)*

Glaciers in China. Chi, J., ed, [1980, c200p., eng] **35-1564**

Transitional forms of glaciation. Ivanov, N.I., [1970, p.245-263, rus] **35-1573**

Himalayan glacier fluctuations and south Asian monsoons. Mayewski, P.A., et al, [1980, p.171-182, eng] **35-1659**

Glacier-rock glacier transition in the southwest Yukon Territory, Canada. Johnson, P.G., [1980, p.195-204, eng] **35-1661**

Drumlins and large-scale flutings related to glacier folds. Shaw, J., [1980, p.287-298, eng] **35-1666**

Ice flow during the Fraser Glaciation, Cascade Range, Washington. Heller, P.L., [1980, p.299-308, eng] **35-1667**

Flow of air, water and ice. Embleton, C., et al, [1979, p.39-72, eng] **35-1685**

Glacial processes. Embleton, C., [1979, p.272-306, eng] **35-1688**

Dynamics and structure of Griesgletscher, Switzerland. Hambrey, M.J., et al, [1980, p.215-228, eng] **35-1818**

Time-dependent surface elevation of an ice slope. Hutter, K., [1980, p.247-266, eng] **35-1820**

Nature of the ice-rock interface. Vivian, R., [1980, p.267-277, eng] **35-1821**

Undergraduate research participation program, Juneau icefield, Alaska, 1979. Williams, G.A., et al, [1980, 34p., eng] **35-2017**

Ice lobes during the deglaciation in Finland. Punkari, M., [1980, p.307-310, eng] **35-2143**

Movement of an ice-cored rock glacier, near Tungsten, N.W.T. Jackson, L.E., Jr., et al, [1980, p.842-847, eng] **35-2175**

Uniqueness of steady state flows of glaciers and ice sheets. Fowler, A.C., et al, [1980, p.333-345, eng] **35-2243**

Movement of continental ice. Bagrov, N.A., [1980, p.54-62, rus] **35-2249**

Genesis of basal till and sediment changes of the Roseg Glacier. Kilger, B., [1979, p.143-155, ger] **35-2641**

Stereophotogrammetric method for measuring glacier variations. Sun, Z., et al, [1980, p.54-56, chi] **35-2668**

Glacial transport in Finnish Lapland. Hirvas, H., [1977, p.128-136, eng] **35-2732**

Some basic experiments with a vertically-integrated ice sheet model. Oerlemans, J., [1981, p.1-11, eng] **35-2799**

Use of radio-echo measurements in determining the thickness and velocity of an antarctic ice sheet. Bogorodskii, V.V., et al, [1979, p.60-74, eng] **35-2886**

Survey of speed of movement of the glacier in the K'o-la-kun-lun Mountain region. Sun, T., [1979, p.33-38, chi] **35-2900**

Mass balance and its relationship with characteristics of glaciers. Xie, Z., [1980, p.1-10, chi] **35-2910**

Primary results of the study on modern glaciers in the region of Mt Tuomuer. Wang, L., et al, [1980, p.15-18, chi] **35-2912**

Ice flow in the bare ice area near the Allan Hills. Nishio, F., et al, [1980, p.1-13, eng] **35-2964**

Derivation of past climate changes from observed changes of glaciers. Smith, I.N., et al, [1981, p.31-52, eng] **35-3020**

Late Quaternary geology of the George V and Adelie continental shelf. Domack, E.W., [1980, p.127-128, eng] **35-3192**

Genesis of tills and deglaciation in central Lappland. Mincll, H., [1979, 83p. + maps, eng] **35-3408**

Glacial geomorphology. Theakstone, W.H., [1980, p.241-253, eng] **35-3557**

Investigations of Werenskiold Glacier, 1970. Baranowski, S., [1975, p.69-94, eng] **35-3611**

Results of investigations into microquakes on the Hans Glacier. Czajkowski, R., [1977, p.119-138, eng] **35-3625**

Folds in firn. Waag, C.J., [1981, p.268-273, eng] **35-3688**

Reconstruction of past velocities of Mer de Glace using Forbes Bands. Reynaud, L., [1979, p.149-163, eng] **35-3724**

Dynamics of crevasse pattern at Lewis Glacier, Mount Kenya. Hastenrath, S., et al, [1979, p.201-207, eng] **35-3729**

Glaciers of the Mont Blanc massif (north slope) in 1978, 1979, 1980. Veyret, P., [1981, p.385-391, fre] **35-3744**

Stress and velocity in an ice strip, using a Newtonian viscous approximation. Hutter, K., et al, [1980, p.385-403, eng] **35-3811**

Glacier accumulation zone reaction to climate changes. Whillans, I.M., [1981, p.4274-4282, eng] **35-3913**

Physics of glaciers. Paterson, W.S.B., [1981, 380p., eng] **35-4009**

Ice-covered topography and glacier movement, N Scotland and W Greenland. Gordon, J.E., [1981, p.55-65, eng] **35-4020**

General features of Batura Glacier. Zhang, X., et al, [1980, p.8-27, chi] **35-4027**

Measurements and analysis on the ice movement of Batura Glacier. Wang, W., [1980, p.28-41, chi] **35-4028**

Deposition of tills in an ice sheet. Broster, B.E., et al, [1981, p.197-204, eng] **35-4092**

Ice discharge from the Shirase drainage basin. Fujii, Y., [1981, p.1-15, eng] **35-4220**

Wire strain gages for measuring surface strain rate in glaciers. Warner, G., et al, [1974, p.24-28, eng] **35-4319**

Glacier formation

Formation of rock glaciers. Gorbunov, A.P., [1979, p.5-34, rus] **35-186**

Photogrammetry for snow depth measurements and glacier formation. Tsuchiya, I., [1976, p.178-187, jap] **35-260**

Rock glaciers and their formation. Whalley, W.B., [1974, 60p., eng] **35-1160**

Glaciers in China. Chi, J., ed, [1980, c200p., eng] **35-1564**

Transitional forms of glaciation. Ivanov, N.I., [1970, p.245-263, rus] **35-1573**

Glacier heat balance

Glacier energy balance and air temperature. Braithwaite, R.J., [1980, p.501-503, eng] **35-1513**

Radiation and heat balance of glaciers and permafrost, [1980, p.32-33, chi] **35-2661**

Atmospheric CO2 accumulation and the Antarctic ice sheet. Bentley, C.R., [1980, p.24-29, eng] **35-2963**

Climate and glaciers. Kuhn, M., [1981, p.3-20, eng] **35-3018**

Investigations of Werenskiold Glacier, 1970. Baranowski, S., [1975, p.69-94, eng] **35-3611**

Some features of radiation and heat balance of Batura Glacier. Bai, Z., et al, [1980, p.57-82, chi] **35-4030**

Glacier ice

Creep and fracture of ice and strains of glaciers and sea ice. Goodman, D.J., [1977, 149p. + plates, eng] **35-135**

Structure and composition of natural ice. Savel'ev, B.A., [1980, 280p., rus] **35-149**

Cryogenic phenomena in Kazakhstan and Central Asia. Gorbunov, A.P., ed, [1979, 145p., rus] **35-185**

Formation of rock glaciers. Gorbunov, A.P., [1979, p.5-34, rus] **35-186**

Water, ice, and heat balance of mountain glacier basins. Suslov, V.F., et al, [1980, 206p., rus] **35-232**

Glaciation of the Kuznetskiy Alatau. Shpin', P.S., [1980, 84p., rus] **35-307**

Sedimentation on the Antarctic continental slope. Anderson, J.B., et al, [1979, p.265-283, eng] **35-327**

Physics of ice and ocean. Bogorodskii, V.V., ed, [1980, 157p., rus] **35-360**

Deformation, electric and acoustic properties of glacier ice. Bogorodskii, V.V., et al, [1980, p.51-55, rus] **35-369**

Byrd Glacier. Hughes, T., [1979, p.88-91, eng] **35-664**

Glaciology of mountain regions (snow cover, avalanches and glaciers). Suslov, V.F., ed, [1980, 144p., rus] **35-709**

Effect of morainal deposits on glacier melting. Denisov, IU.M., [1980, p.67-80, rus] **35-717**

Formation of morainal deposits. Lavrushin, IU.A., [1980, p.123-135, rus] **35-809**

Transport and depositional mechanisms in glacial marine sediments. Domack, E.W., et al, [1980, p.813-820, eng] **35-884**

Effect of bubbles released from a melting antarctic ice. Josberger, E.G., [1980, p.474-477, eng] **35-1053**

Soviet glaciological studies in 1979. Kotliakov, V.M., et al, [1980, p.5-13, rus] **35-1219**

Working session of the Section of glaciology in February 1980. Glazovskii, A.F., [1980, p.13-20, rus] **35-1220**

Resolutions of the Working Session of the Section of Glaciology, Feb. 18-20, 1980. [1980, p.20-22, rus] **35-1221**

Studying ice cores from glacier boreholes. Kotliakov, V.M., et al, [1980, p.22-26, rus] **35-1222**

Mass balance of the Gara Glacier, India. Vohra, C., et al, [1980, p.132-136, rus] **35-1243**

Comparison of mass balance and runoff at four glaciers in the United States, 1966 to 1977. Meier, M., et al, [1980, p.138-143, rus] **35-1245**

Chemical composition of glacial waters. Izrael', IU.A., et al, [1980, p.157-162, rus] **35-1249**

Obtaining drinking water from glacier ice. Gus'kov, A.S., et al, [1980, p.260-264, rus] **35-1255**

Radar sounding of mountain glaciers. Vasilenko, E.V., et al, [1980, p.273-278, rus] **35-1259**

Radar sounding of Spitsbergen glaciers. Macheret, IU.IA., et al, [1980, p.279-286, rus] **35-1260**

Recent and ancient glaciation of plains and mountainous regions of the USSR. Zubakov, V.A., ed, [1978, 131p., rus] **35-1420**

Surface glaciation and permafrost of West Siberia. Kaplianskaia, F.A., et al, [1978, p.18-28, rus] **35-1421**

Buried glacier ice in West Siberia. Solomatin, V.I., et al, [1921, p.66-77, rus] **35-1422**

Infiltration and freezing of sea water in coastal glaciers. Dubrovin, L.I., et al, [1980, p.104-108, rus] **35-1462**

Glacier systems of the Northeastern USSR. Krenke, A.N., et al, [1980, p.17-33, rus] **35-1532**

Solar radiation absorption by snow, firn and ice. Belova, N.I., et al, [1970, p.53-64, rus] **35-1571**

Several properties of the radio emission of land surfaces. Gurvich, A.S., [1973, 29p., eng] **35-1895**

Preliminary estimate of ice cover flow in Antarctica using seismic data. Sytinskii, A.D., et al, [1980, p.36-40, rus] **35-2029**

Oxygen-isotope analysis of Novolazarevskaya Glacier shelf ice cores. Gordienko, F.G., et al, [1980, p.85-90, rus] **35-2038**

Glaciological research at the South Pole, Dome C and in the McMurdo Sound area in 1974-1976. Barkov, N.I., [1980, p.107-113, rus] **35-2043**

Glaciological work on the Shackleton Ice Shelf (Jan.-Apr. 1978). Savatiugin, L.M., [1980, p.114-118, rus] **35-2044**

German glaciological research in Antarctica. Herbert, D., et al, [1980, p.187-194, ger] **35-2438**

Regime of glaciers. Krenke, A.N., [1980, p.20-23, rus] **35-2806**

Glaciological and geocryological field studies on King George Island during the 25th Soviet antarctic Expedition. Vtiurin, B.I., [1980, p.30, rus] **35-2811**

Dusting effect on ice and snow melting. Denisov, IU.M., [1980, p.67-72, 143-147, rus] **35-2819**

Seepage alimentation of glaciers. Bazhev, A.B., [1980, p.73-81, 147-154, rus] **35-2820**

Isotope content and electric properties of glacial runoff. Oerter, H., et al, [1980, p.86-92, 157-161, rus] **35-2822**

New data on the dynamics of ice shelves in the Weddell Sea. Zakharov, V.G., et al, [1980, p.181-185, rus] **35-2828**

Calculating annual precipitation accumulation in glacier basins. Tarasova, L.N., [1980, p.200-203, rus] **35-2832**

Ice core studies from Mt. Kenya, Africa. Thompson, L.G., [1981, p.55-62, eng] **35-3021**

Lewis Glacier (Mt. Kenya) and possible links tropical climate. Vincent, C.E., et al, [1981, p.63-78, eng] **35-3022**

Net shortwave radiation model for glacierized basins. Munro, D.S., et al, [1980, p.159-169, eng] **35-3155**

Isotope methods of studying natural waters. Ferronskii, V.I., ed, [1981, 260p., rus] **35-3296**

Variations of the oxygen isotope ratio in glacier ice. Vaikmae, R.A., et al, [1981, p.25-30, rus] **35-3298**

Observations of natural ice-micro-tremors of the Hans Glacier. Górski, M., [1975, p.95-100, eng] **35-3612**

Results of investigations into microquakes on the Hans Glacier. Czajkowski, R., [1977, p.119-138, eng] **35-3625**

Surface strain measuring instruments for use on sea ice. Goodman, D.G., [1980, p.75-96, eng] **35-3839**

Tidal flexure of Jakobshavns Glacier, West Greenland. Lingle, C.S., et al, [1981, p.3960-3968, eng] **35-3909**

Glacier accumulation zone reaction to climate changes. Whillans, I.M., [1981, p.4274-4282, eng] **35-3913**

Radiation balance at the physical surface of mountain glaciers during ablation. Cherkasov, P.A., [1980, 143p., rus] **35-3963**

Relations between ice of different origin. Sheinkman, V.S., [1980, p.97-103, rus] **35-3999**

Airborne radio echo sounding on Shirase Glacier. Wada, M., et al, [1981, p.16-25, eng] **35-4221**

241Pu/239+240Pu ratios in polar glaciers. Koide, M., et al, [1981, p.239-247, eng] **35-4297**

Glacier mass balance

Mass balance studies on Kongma Glacier, Khumbu Himal. Ikegami, K., et al, [1978, p.12-16, eng] **35-52**

Rock glaciers and their formation. Whalley, W.B., [1974, 60p., eng] **35-1160**

Soviet glaciological studies in 1979. Kotliakov, V.M., et al, [1980, p.5-13, rus] **35-1219**

Methods of calculating mass balance of glaciers. Dreiseitl, E., [1980, p.115-118, rus] **35-1238**

Mass balance of the Gara Glacier, India. Vohra, C., et al, [1980, p.132-136, rus] **35-1243**

Ice and water balance of mountain glaciers. Reinwarth, O., [1980, p.137-138, rus] **35-1244**

Ice and water balances of South Cascade glacier. Krimmel, R.K., et al, [1980, p.143-147, rus] **35-1246**

Dynamics and mass balance of mountain glaciers. Golubev, G.N., et al, [1980, p.147-152, rus] **35-1247**

Temperature profiles in the Barnes Ice Cap, Canada. Hooke, R.L., et al, [1980, p.1174-1188, eng] **35-1266**

Coastal ice sheet in Enderby Land, Antarctica: relief, movement and mass balance. Meier, S., [1977, 104p., ger] **35-1413**

Undergraduate research participation program, Juneau icefield, Alaska, 1979. Williams, G.A., et al, [1980, 34p., eng] **35-2017**

Evolution of McMurdo Oasis glaciers according to phototheodolite survey. Miagkov, S.M., [1980, p.99-102, rus] **35-2041**

Glaciochimatological research topics in Antarctica. Aver'ianov, V.G., [1980, p.85-89, rus] **35-2182**

Ablation in a vertical ice profile in Greenland. Ambach, W., [1979, p.55-62, ger] **35-2644**

Mass balance of continental glaciers in China. Wang, Z., [1980, p.48-51, chi] **35-2666**

Pollen analysis in annual layers of glaciers. Wang, R., et al, [1980, p.87-90, chi] **35-2680**

Some basic experiments with a vertically-integrated ice sheet model. Oerlemans, J., [1981, p.1-11, eng] **35-2799**

Mass balance and its relationship with characteristics of glaciers. Xie, Z., [1980, p.1-10, chi] **35-2910**

Primary results of the study on modern glaciers in the region of Mt. Tuomuer. Wang, L., et al, [1980, p.15-18, chi] **35-2912**

Climate and glaciers Kuhn, M., (1981, p.3-20, eng) 35-3018

Recent fluctuations of glaciers in the eastern part of Nepal Himalayas Fushimi, H., et al, (1981, p.21-29, eng) 35-3019

Derivation of past climate changes from observed changes of glaciers Smith, I.N., et al, (1981, p.31-52, eng) 35-3020

Apparent surface lowering on Byrd Glacier between 1960 and 1978 Brecher, H.H., (1980, p.64-65, eng) 35-3175

Ice-sheet dynamics in Greenland and Antarctica Thomas, R.H., et al, (1981, p.1012-1022, eng) 35-3593

Climatic changes and the response of glaciers, W Spitsbergen Baranowski, S., (1975, p.21-34, eng) 35-3609

Investigations of Werenskiold Glacier, 1970 Baranowski, S., (1975, p.69-94, eng) 35-3611

Some achievement on mountain glacier researches in China Yafeng, S., (1980, p.13-26, eng) 35-3660

Scourge of surging glaciers Croot, D.G., et al, (1976, p.328-334, eng) 35-3708

Interglacial water flow: a theory and mathematical models Spring, U., (1980, 197p., ger) 35-3711

Modeling of Pleistocene European ice sheets: some experiments with simple mass-balance parameterizations Oerlemans, J., (1981, p.77-85, eng) 35-3713

Present glaciation and climate of the Caucasus Kotlyakov, V.M., et al, (1981, p.241-264, fre) 35-3740

Climatic regime of glaciers and their oscillations Golubev, G.N., et al, (1981, p.319-328, fre) 35-3742

Physical properties of Vahsel Glacier, Heard Island Allison, I.F., (1980, 31p., eng) 35-3916

Glacier studies Ommanney, C.S.L., comp, (1978, p.235-245, eng) 35-3928

Physics of glaciers Paterson, W.S.B., (1981, 380p., eng) 35-4009

Recent changes of the glacier Osterdalsisen, Svartisen, Norway Knudsen, N.T., et al, (1981, p.23-30, eng) 35-4017

Gravimetric determination of thickness and mass balance of Batura Glacier Su, Z., et al, (1980, p.42-56, chi) 35-4029

Glacier surveys in Alberta 1979 Reid, I.A., et al, (1981, , eng) 35-4208

Ice discharge from the Shirase drainage basin Fujii, Y., (1981, p.1-15, eng) 35-4220

Mass balance of Peyto Glacier, Alberta, Canada, 1965 to 1978 Young, G.J., (1981, p.307-318, eng) 35-4263

Glacier melting

Snowmelt runoff estimate using energy balance techniques Dano, V.J., et al, (1978, p.183-192, eng) 35-32

Supra-glacial lakes in Spitsbergen Liestol, O., et al, (1980, p.89-92, eng) 35-254

Glacier economy in Bolivia Jordan, E., (1979, p.297-309, ger) 35-359

Application of the UBC watershed model to Peyto Glacier basin Power, J.M., et al, (1979, p.217-228, eng) 35-415

Impending climatic change and the fate of glaciers Grosswald, M.S., et al, (1980, p.65-78, eng) 35-1006

Extent of meltwater areas in Antarctica Klokov, V.D., (1980, p.29-35, rus) 35-2028

Areas of bottom melting of ice cover in the Transantarctic Mountains Mugkov, S.M., (1980, p.103-106, rus) 35-2042

Atmospheric CO2 accumulation and the Antarctic ice sheet Bentley, C.R., (1980, p.24-29, eng) 35-2963

Climate and glaciers Kuhn, M., (1981, p.3-20, eng) 35-3018

Interdisciplinary investigations in antarctic oceanography Jacobs, S.S., (1980, p.87-89, eng) 35-3189

Wastage of the Klutlan ice-cored moraines, Yukon Territory, Canada Driscoll, F.G., Jr., (1980, p.31-39, eng) 35-3716

Landform development on moraines of the Klutlan Glacier, Canada Watson, R.A., (1980, p.50-59, eng) 35-3717

Recent changes of the glacier Osterdalsisen, Svartisen, Norway Knudsen, N.T., et al, (1981, p.23-30, eng) 35-4017

Basic features of the meltwater of Batura Glacier Li, J., et al, (1980, p.111-132, chi) 35-4033

Glacier oscillation

Rock glacier movements Titkov, S.N., (1979, p.34-42, rus) 35-187

Glaciations in the Khumbu Himal, Pt.2 Fushimi, H., (1978, p.71-77, eng) 35-899

Methods of calculating mass balance of glaciers Dreiseitl, E., (1980, p.115-118, rus) 35-1238

Himalayan glacier fluctuations and south Asian monsoons Mayewski, P.A., et al, (1980, p.171-182, eng) 35-1659

Last ice sheet retreat in NE British Columbia and Alberta Mathews, W.H., (1980, 22p., eng) 35-1908

Causes of mountain glacier oscillation in antarctic dry valleys Mugkov, S.M., (1980, p.95-98, rus) 35-2040

Movement of an ice-cored rock glacier, near Tungsten, N.W.T. Jackson, L.E., Jr., et al, (1980, p.842-847, eng) 35-2175

Stereophotogrammetric method for measuring glacier variations Sun, Z., et al, (1980, p.54-56, chi) 35-2668

Pollen analysis in annual layers of glaciers Wang, R., et al, (1980, p.87-90, chi) 35-2680

Oscillations of the Bol'shoy Azau Glacier tongue Martyshev, A.P., (1980, p.207-209, rus) 35-2834

Survey of speed of movement of the glacier in the K'o-la-kun-lun Mountain region Sun, T., (1979, p.33-38, chi) 35-2900

Quaternary sedimentation and inferred glacier fluctuations, Scotland Boulton, G.S., et al, (1981, p.39-51, eng) 35-2938

Glaciations and marine transgressions, Kennedy Channel, N.W.T. England, J., et al, (1981, p.71-89, eng) 35-2939

Recent fluctuations of glaciers in the eastern part of Nepal Himalayas Fushimi, H., et al, (1981, p.21-29, eng) 35-3019

Derivation of past climate changes from observed changes of glaciers Smith, I.N., et al, (1981, p.31-52, eng) 35-3020

Valley glacier activity in the Transantarctic Mountains Bentley, C.R., (1981, p.247-251, eng) 35-3036

Soviet studies on glacier changes Kotlyakov, V.M., et al, (1981, p.361-368, eng) 35-3039

Aspects of the glacial history of Eylot Island, District of Franklin Klassen, R.A., (1981, p.317-326, eng) 35-3088

Deglaciation of the Coppermine River region, District of Mackenzie St-Onge, D.A., et al, (1981, p.327-331, eng) 35-3089

Apparent surface lowering on Byrd Glacier between 1960 and 1978 Brecher, H.H., (1980, p.64-65, eng) 35-3175

Palynologic proof of glacier advances and retreats Sopoeva, A.S., (1980, p.173-176, rus) 35-3335

Satellite recording of dynamic processes at the earth surface Berri, B.L., (1981, p.108-113, rus) 35-3336

Recent glacier variations and volcanic eruptions Porter, S.C., (1981, p.139-142, eng) 35-3366

Kennebunk glacial advance: a reappraisal Smith, G.W., (1981, p.250-253, eng) 35-3605

Climatic changes and the response of glaciers, W Spitsbergen Baranowski, S., (1975, p.21-34, eng) 35-3609

Relief of the marginal zone of the Torell Glacier, Spitsbergen Karczewski, A., et al, (1977, p.37-62, eng) 35-3621

Glaciers of the Austrian Alps 1978-1979 Patzelt, G., (1979, p.235-246, ger) 35-3733

Climatic regime of glaciers and their oscillations Golubev, G.N., et al, (1981, p.319-328, fre) 35-3742

Physical properties of Vahsel Glacier, Heard Island Allison, I.F., (1980, 31p., eng) 35-3916

Recent changes of the glacier Osterdalsisen, Svartisen, Norway Knudsen, N.T., et al, (1981, p.23-30, eng) 35-4017

Origin of ice marginal terraces of east Kangerdluarssuk Glacier, Greenland Huddart, D., et al, (1981, p.31-39, end) 35-4018

Changes of Batura Glacier in the Quaternary and recent times Zhang, X., et al, (1980, p.173-190, chi) 35-4038

Forecasting the change of Batura Glacier this and next centuries Shi, Y., et al, (1980, p.191-207, chi) 35-4039

Glacier margin fluctuations in West Greenland Gordon, J.E., (1981, p.47-62, eng) 35-4083

History of glaciers in Glacier National Park, Montana Carrara, P.E., et al, (1981, p.183-196, eng) 35-4091

Glacier surveys in Alberta 1979 Reid, I.A., et al, (1981, , eng) 35-4208

Mass balance of Peyto Glacier, Alberta, Canada, 1965 to 1978 Young, G.J., (1981, p.307-318, eng) 35-4263

Glacier surfaces

Supra-glacial lakes in Spitsbergen Liestol, O., et al, (1980, p.89-92, eng) 35-254

Snow accumulation on glaciers Kuznetsov, N.A., (1980, p.105-111, rus) 35-720

Snow cover distribution over the surface of glaciers Nozdrukhin, V.K., et al, (1980, p.133-137, rus) 35-723

International symposium on glacial hydrology Korzun, V.E., (1980, p.89-90, rus) 35-1232

Energy balance of glacier surfaces Radok, U., (1980, p.90-92, rus) 35-1233

Calculating radiation balance on glacier surfaces Cherkasov, P.A., (1980, p.98-104, rus) 35-1235

Radiation balance of glaciers in the Oetztal Alps Wagner, H.P., (1980, p.104-107, rus) 35-1236

Undergraduate research participation program, Juneau icefield, Alaska, 1979 Williams, G.A., et al, (1980, 34p., eng) 35-2017

Glacial meteorology of Mt Tuomuer Kou, Y., et al, (1980, p.11-14, chi) 35-2911

Relief of the marginal zone of the Torell Glacier, Spitsbergen Karczewski, A., et al, (1977, p.37-62, eng) 35-3621

Folds in firn Waag, C.J., (1981, p.268-273, eng) 35-3688

Dynamics of crevasse pattern at Lewis Glacier, Mount Kenya Hastenrath, S., et al, (1979, p.201-207, eng) 35-3729

Glacier studies Ommanney, C.S.L., comp, (1978, p.235-245, eng) 35-3928

Origin of ice marginal terraces of east Kangerdluarssuk Glacier, Greenland Huddart, D., et al, (1981, p.31-39, end) 35-4018

Hydraulic geometry of a supra-glacial stream Park, C.C., (1981, p.1-9, eng) 35-4022

Surface ablation and its variation of Batura Glacier Zhang, J., et al, (1980, p.83-98, chi) 35-4031

Air temperature distribution above glaciers Tikhanovskaia, A.A., (1981, p.60-66, rus) 35-4306

Wire strain gages for measuring surface strain rate in glaciers Warner, G., et al, (1974, p.24-28, eng) 35-4319

Glacier surges

Recent situation of Baltbare surging glacier, Pakistan Wang, W., et al, (1980, p.26-31, chi) 35-84

Glaciology of mountain regions (snow cover, avalanches and glaciers) Suslov, V.F., ed, (1980, 144p., rus) 35-709

Pulsating glaciers of the Gissar-Alay Mountains Glazyrin, G.E., et al, (1980, p.81-100, rus) 35-718

Classification of pulsating glaciers Sannikov, A.G., (1980, p.112-119, rus) 35-721

Glaciations in the Khumbu Himal, Pt.2 Fushimi, H., (1978, p.71-77, eng) 35-899

Flank and frontal moraines of surging glaciers Repin, A.G., (1980, p.209-212, rus) 35-2835

Total gas content of ice and past changes of the northwest Greenland ice sheet Raynaud, D., et al, (1981, p.235-237, eng) 35-3034

Satellite recording of dynamic processes at the earth surface Berri, B.L., (1981, p.108-113, rus) 35-3336

Scourge of surging glaciers Croot, D.G., et al, (1976, p.328-334, eng) 35-3708

Surge moraines of the Klutlan Glacier, Yukon Territory, Canada Wright, H.E., Jr., (1980, p.2-18, eng) 35-3714

Moraine formation of the Klutlan Glacier, Canada Driscoll, F.G., Jr., (1980, p.19-30, eng) 35-3715

Glacier surveys

Glaciological research at Trent University and a bibliography, 1968-1980 Adams, W.P., (1980, p.178-193, eng) 35-50

Stratigraphic studies of the Gyajo Glacier, Khumbu Himal Fushimi, H., (1978, p.17-20, eng) 35-53

Basic data on main glaciers of China Ren, B., (1980, p.60-61, chi) 35-92

Recent advances of the study on existing glaciers in Qing-Zang Plateau Li, J., (1980, p.11-14, chi) 35-119

Recent advances of the study on Quaternary glaciation in Qing-Zang Plateau Zheng, B., (1980, p.15-18, chi) 35-120

Variations of Lewis Glacier, Mount Kenya, 1974-78 Hastenrath, S., et al, (1979, p.292-297, eng) 35-358

JARE activities near McMurdo Sound, 1978-79 Nishio, F., et al, (1980, p.137-148, jap) 35-1055

Coastal ice sheet in Enderby Land, Antarctica: relief, movement and mass balance Meier, S., (1977, 104p., ger) 35-1413

Lichenometric dating of Holocene glaciers, Brooks Range, Alaska Calkin, P.E., et al, (1980, p.245-264, eng) 35-1665

Evolution of McMurdo Oasis glaciers according to phototheodolite survey Mugkov, S.M., (1980, p.99-102, rus) 35-2041

Geodetic and glaciological activities in East Antarctica, 1962-1978 Meier, S., (1980, p.24-31, ger) 35-2431

Repetitive geodetic-glaciological measurements of Hays Glacier, 1977-78 Hoyer, R., (1980, p.32-35, ger) 35-2432

Glacier Surveys

Reports on the 1979 glaciological survey (1980, p.80-128, ita) 35-2561

Glacier surveys

Measuring and testing techniques in glaciology and geocryology, China Wang, W., et al, (1980, p.1-2, chi) 35-2648

Data transfer and measurement in radio telemetry station on glaciers Wang, L., et al, (1980, p.3-7, chi) 35-2649

Mass balance of continental glaciers in China Wang, Z., (1980, p.48-51, chi) 35-2666

Dielectric coefficient of ice and its use in glaciological research Li, W., (1980, p.51-53, chi) 35-2667

Microwaves for surveying of glaciers and permafrost on Qingzang Plateau Wang, J., et al, (1980, p.56-60, chi) 35-2669

Application of remote sensing data in the glacial mapping work Wu, H., (1980, p.60-61, chi) 35-2670

Preparation of glacier distribution maps Yin, S., (1980, p.67-70, chi) 35-2673

Method of showing naked bed rock on glacial maps Yin, S., (1980, p.74-76, chi) 35-2676

Review: advances in radio-echo sounding of glacier in foreign countries Gu, Z., (1980, p.93-96, chi) 35-2683

Flank and frontal moraines of surging glaciers Repin, A.G., (1980, p.209-212, rus) 35-2835

Information content of glacier measurements Grakovich, V.F., et al, (1980, p.213-215, rus) 35-2836

Mass balance and its relationship with characteristics of glaciers Xie, Z., (1980, p.1-10, chi) 35-2910

Polish Scientific Spitsbergen Expeditions, 1970-1974, Vol.1 (1975, 196p., eng) 35-3608

Polish Scientific Spitsbergen Expeditions, 1970-1974, Vol.2 (1977, 138p., eng) 35-3618

Glaciers of the Austrian Alps 1978-1979 Patzelt, G., (1979, p.235-246, ger) 35-3733

Glacier surveys *(cont.)*

Measurements of the Pasterze Glacier area, Austria, 1979 Wakonigg, H., (1979, p.247-251, ger) **35-3734**

Observations and research on Batura Glacier, Karakoram Mts (1980, 271p + figs., chi) **35-4025**

Studies of Batura Glacier, Karakoram Mts Shi, Y., (1980, p.1-7, chi) **35-4026**

Glacier surveys in Alberta 1979 Reid, I.A., et al, (1981, , eng) **35-4208**

Geomorphology of Kangerdlugssuaq, Greenland Brooks, C.K., (1979, 25p, eng) **35-4213**

Glacier thickness

Variations of Lewis Glacier, Mount Kenya, 1974-78 Hastenrath, S., et al, (1979, p.292-297, eng) **35-358**

Radio echo sounding equipment for glaciers Sverrisson, M., et al, (1980, p.477-486, eng) **35-1509**

Evolution of McMurdo Oasis glaciers according to phototheodolite survey Miagkov, S.M., (1980, p.99-102, rus) **35-2041**

Areas of bottom melting of ice cover in the Transantarctic Mountains Miagkov, S.M., (1980, p.103-106, rus) **35-2042**

Recent fluctuations of glaciers in the eastern part of Nepal Himalayas Fushimi, H., et al, (1981, p.21-29, eng) **35-3019**

Physical properties of Vahsel Glacier, Heard Island Allison, I.F., (1980, 31p, eng) **35-3916**

Gravimetric determination of thickness and mass balance of Batura Glacier Su, Z., et al, (1980, p.42-56, chi) **35-4029**

Glacier tongues

Evolution of McMurdo Oasis glaciers according to phototheodolite survey Miagkov, S.M., (1980, p.99-102, rus) **35-2041**

Oscillations of the Bol'shoy Azau Glacier tongue Martyshev, A.P., (1980, p.207-209, rus) **35-2834**

USCGC *Glacier* Deep Freeze 80 Anderson, J.B., et al, (1980, p.58-75, eng) **35-3191**

Mechanism for the formation of large icebergs Holdsworth, G., et al, (1981, p.3210-3222, eng) **35-3371**

Glaciers of the Austrian Alps 1978-1979 Patzelt, G., (1979, p.235-246, ger) **35-3733**

Measurements of the Pasterze Glacier area, Austria, 1979 Wakonigg, H., (1979, p.247-251, ger) **35-3734**

Glaciers

New statistics on area of glaciers in China (1980, p.7-10, chi) **35-118**

Land forms of subglacial origin Makkaveev, A.N., (1980, p.17-24, rus) **35-788**

Airborne radio echo sounding of glaciers in Svalbard Drewry, D.J., et al, (1980, p.261-266, eng) **35-943**

Heat and mass transfer in the glacier-snow field system Mazo, V.I., (1980, p.74-79, rus) **35-1229**

Student science training program, Juneau icefield, Alaska, 1979 Miller, M.M., et al, (1979, 15p, eng) **35-2016**

Numerical reconstructions of valley glaciers and small ice caps Schilling, D.H., et al, (1981, p.207-220, eng) **35-2066**

Fifth meeting of the editorial board of the World Atlas of Snow and Ice Resources Dreier, N.N., (1980, p.5-6, rus) **35-2803**

Resolutions of the Editorial Board of the World Atlas of Snow and Ice Resources (The fifth meeting, 21 February, 1980) (1980, p.7-8, rus) **35-2804**

Snow cover Getker, M.I., (1980, p.8-20, rus) **35-2805**

Information content of glacier measurements Grakovich, V.F., et al, (1980, p.213-215, rus) **35-2836**

Chinese research on glaciers and permafrost in the last 30 years Shih, Y., et al, (1979, p.1-6, chi) **35-2895**

Glaciers and water reserves in the Ha-la-hu Lake area Wu, K., et al, (1979, p.27-32, chi) **35-2899**

Glaciation effect on migration and accumulation of hydrocarbons Tsarev, V.P., (1980, 213p., rus) **35-2955**

Sea level, ice and climatic change: Proceedings of the Symposium, 7-8 Dec. during the 17th General Assembly of IUGG, Canberra Allison, I., ed, (1981, 471p., eng) **35-3017**

Application of airborne radar surveying in geologic and geographic investigations Glushkov, V.M., ed, (1981, 238p., rus) **35-3224**

Distribution of rock glaciers and permafrost, based on freezing and thawing indices Harris, S.A., (1981, p.376-381, eng) **35-3513**

Snow and firn patches between Hornsund and Werenskiold Glacier Glowicki, B., (1975, p.139-146, eng) **35-3615**

Remarks to the orthophoto map "Langtaler Ferner 1971", Scale 1:7500 Brunner, K., (1979, p.195-199, ger) **35-3728**

Cartographic methods of the map of Batura Glacier Wang, Y., et al, (1980, p.221-228, chi) **35-4041**

Use of satellites in surveying for urban construction, Krest'iashin, S.I., et al, (1981, 159p., rus) **35-4310**

Glaciology

Glaciological research at Trent University and a bibliography, 1968-1980 Adams, W.P., (1980, p.178-193, eng) **35-50**

Recent research of snow and ice in the world: Pt.1 Zhang, X., (1980, p.54-58, chi) **35-90**

Recent research of snow and ice in the world, Pt.2. Zhang, X., (1980, p.48-52, chi) **35-126**

Advice of the Institute of Hydrosphere Science, Nagoya University, Japan Gu, G., (1980, p.61-62, chi) **35-129**

JARE activities near McMurdo Sound, 1978-79 Nishio, F., et al, (1980, p.137-148, jap) **35-1055**

Field operation of explosion seismic experiment in Antarctica Ikami, A., et al, (1980, p.158-182, jap) **35-1056**

Glaciological studies in Tsurugisawa (ablation and climate) Moribayashi, S., et al, (1980, p.1-28, jap) **35-1064**

Review of research on snow and ice Nishimura, H., et al, (1980, p.33-69, jap) **35-1066**

Outline of glaciological research in the USSR Kusunoki, K., (1980, p.71-73, jap) **35-1067**

Working session of the Section of glaciology in February 1980 Glazovskii, A.F., (1980, p.13-20, rus) **35-1220**

Resolutions of the Working Session of the Section of Glaciology, Feb. 18-20, 1980, (1980, p.20-22, rus) **35-1221**

Future of the environment and global glaciological problems Kotlyakov, V.M., (1980, p.5-16, rus) **35-1531**

Marine glaciology of Greenland and prospects of oil production Brochu, M., (1980, p.77-81, ita) **35-1674**

Future of the environment and global problems in glaciology Kotlyakov, V.M., (1980, p.153-165, eng) **35-1762**

Glaciological research at the South Pole, Dome C and in the McMurdo Sound area in 1974-1976 Barkov, N.I., (1980, p.107-113, rus) **35-2043**

Great Lakes ice data archive Hoffman, C.S., (1980, p.5-20, eng) **35-2158**

Cold Regions Science and Technology Bibliography Cummings, N.H., (1981, p.73-75, eng) **35-2420**

Danish deep drill, progress report February-March 1979 Rand, J., (1980, 37p., eng) **35-2594**

Measuring and testing techniques in glaciology and geocryology, China Wang, W., et al, (1980, p.1-2, chi) **35-2648**

Use of pseudo-colors in the research on glaciology and geocryology Liu, J., (1980, p.63-67, chi) **35-2672**

Soviet bibliography on glaciology for 1978 Kotlyakov, V.M., et al, (1980, p.216-283, rus) **35-2837**

Basis and division of the ice period in western China Tsui, T., (1979, p.13-21, chi) **35-2897**

Stereophotogrammetric surveys and mapping of the Batura Glacier Wang, W., et al, (1980, p.22-28, chi) **35-2914**

From Chinese Society of Glaciology and Cryopedology (1980, p.72-79, chi) **35-2925**

Using satellite information in glaciology Desinov, L.V., (1980, p.59-65, rus) **35-2975**

Sea level, ice and climatic change, Proceedings of the Symposium, 7-8 Dec. during the 17th General Assembly of IUGG, Canberra Allison, I., ed, (1981, 471p., eng) **35-3017**

Earth sciences research in the McMurdo Sound region, 1979-1980 Nagata, T., (1980, p.12, eng) **35-3167**

Annual report 1979-80, Univ. of Alaska, Geophysical Institute (1980, 208p., eng) **35-3430**

Glacier studies Ommanney, C.S.L., comp, (1978, p.235-245, eng) **35-3928**

Progress of Japanese glaciological research in Antarctica Kusunoki, K., (1981, p.55-61, eng) **35-4207**

Glaciological research in eastern Queen Maud Land Higashi, A., (1981, p.129-130, jap) **35-4273**

Glaze

Observation of rime and glaze deposits in Quebec Felin, B., (1976, 53p + Appends., eng) **35-1907**

Atmospheric ice accretion on stationary structures Makkonen, L., (1981, p.595-600, eng) **35-4156**

Grain size

Internal friction of Antarctic Mizuho ice at low frequency Nakamura, T., et al, (1979, p.165-171, eng) **35-520**

Density of snow in Irkutsk Rozental', R.G., (1980, 10p., eng) **35-982**

Reflectance of snow at millimeter wavelengths Anderson, R.C., et al, (1980, 40p., eng) **35-1582**

Grain size of moraines in Tien Shan and Qingzang Plateau Ma, C., (1980, p.80-83, chi) **35-2678**

Size analysis of glacial sediments Gu, G., (1980, p.91-92, chi) **35-2682**

Model for the spectral albedo of snow. I: Pure snow Wiscombe, W.J., et al, (1980, p.2712-2733, eng) **35-2717**

Problems of geochemical contrasts in Finnish soils Kauranne, L.K., et al, (1977, p.34-44, eng) **35-2723**

Grain-size distribution of subglacial till Haldorsen, S., (1981, p.91-105, eng) **35-2940**

Mountain alluvium in the Far East Korotkii, A.M., et al, (1979, p.94-117, rus) **35-3046**

Physical processes in perennially frozen conglomerates Olovin, B.A., (1981, p.96-116, rus) **35-3288**

Radiative properties of snow for clear sky solar radiation Choudhury, B., (1981, p.103-120, eng) **35-3667**

Grasses

Revegetation of burned-out areas in tundra Galaktionova, T.F., et al, (1980, p.66-72, rus) **35-285**

Seasonal dynamics of tundra cotton grass Spodobiseva, N.I., (1980, p.73-84, rus) **35-286**

Revegetation of disturbed sites along the Yukon River Johnson, A.W., et al, (1980, p.16-29, eng) **35-578**

Revegetation research at the Climax, Colorado molybdenum mine Guillaume, M., (1980, p.185-205, eng) **35-589**

Oats in the permafrost zone Denisov, G.V., (1979, 184p., rus) **35-812**

Grass lands in swampy taiga Savchenko, I.V., (1980, p.3-14, rus) **35-959**

Fodder plants in the permafrost zone Denisov, G.V., (1980, 182p., rus) **35-1121**

Microorganisms in the rhizosphere of Arctic grasses Evdokimova, G.A., (1974, p.98-103, rus) **35-1209**

Revegetation of felled areas in taiga Mikhaleva, V.M., (1971, p.34-51, rus) **35-1392**

Alaskan-developed grass varieties coming into use Mitchell, W.W., (1981, p.56-58, eng) **35-1695**

Forage grass growth on overland flow systems Palazzo, A.J., et al, (1980, p.347-354, eng) **35-2573**

Revegetation at two construction sites in New Hampshire and Alaska Palazzo, A.J., et al, (1980, 21p., eng) **35-2586**

Cultivation of meadows in central taiga Konushev, I.V., (1971, p.16-17, rus) **35-2607**

Influence of rodents on forest tundra grasses Peshkova, N.V., (1977, p.134-145, rus) **35-2868**

Biologic-floristic studies related to environmental protection in polar regions Shilnikov, R.N., ed, (1980, 149p., rus) **35-3062**

Plant communities of the White Sea shores Breslina, I.P., (1980, p.132-143, rus) **35-3075**

Grass communities in northern meadows Dymina, G.D., (1980, p.1392-1403, rus) **35-3213**

Cleistogamy in Arctic grasses Levkovskii, V.P., et al, (1981, p.116-120, rus) **35-3222**

Hydrothermal regime of cultivated saline soils Mandarov, A.A., et al, (1980, p.47-53, rus) **35-3314**

Physiological processes in plants of Central Yakutia Kononov, K.E., (1981, p.39-45, rus) **35-3509**

Plant growth on a gravel soil: greenhouse studies Palazzo, A.J., et al, (1981, 8p., eng) **35-3692**

Productivity of high altitude grass communities in the central Caucasus Nakhutsrishvili, G.Sh., et al, (1980, 159p., rus) **35-3899**

Water regime of cereal grasses in Yakutia Grigor'eva, D.V., et al, (1981, 145p., rus) **35-4097**

Decorative plants for landscaping residential areas in Yakutia Krotova, Z.E., ed, (1980, 106p., rus) **35-4098**

Testing decorative plants introduced in Yakutia Krotova, Z.E., (1980, p.4-14, rus) **35-4099**

Gravel

Differentiation of some gravels dynamo-texture Lin, S., (1980, p.17-20, chi) **35-81**

Gravel removal guidelines manual for Arctic and Subarctic floodplains (1980, 169p., eng) **35-797**

Gravel removal studies in Arctic and Subarctic floodplains in Alaska (1980, 403p., eng) **35-1997**

Present condition (1980) of the TAPS gravel workpad Krzewinski, T.G., et al, (1981, p.678-692, eng) **35-2530**

Construction and performance of frozen gravel fills Hart, R.G., et al, (1981, p.693-704, eng) **35-2531**

Revegetation at two construction sites in New Hampshire and Alaska Palazzo, A.J., et al, (1980, 21p., eng) **35-2586**

Pore water pressure of saturated gravel during freezing Chen, X., et al, (1980, p.33-37, chi) **35-2916**

Beach thaw depth on Canadian Arctic Islands (1980, p.103-121, fre) **35-2960**

Slope protection for artificial exploration islands off Prudhoe Bay Leidersdorf, C.B., et al, (1981, p.437-448, eng) **35-3451**

Weathering of beach pebbles in Hornsund Martini, A., (1975, p.187-193, eng) **35-3617**

Plant growth on a gravel soil: greenhouse studies Palazzo, A.J., et al, (1981, 8p., eng) **35-3692**

Gravimetric prospecting

Connection between the Gamburtsev and Vernadskiy Mountains Koblents, I.A.P., (1980, p.224-233, eng) **35-2629**

Gravimetric determination of thickness and mass balance of Batura Glacier Su, Z., et al, (1980, p.42-56, chi) **35-4029**

Gravity

Origin of Harding Lake Nakao, K., et al, (1980, p.1-8, eng) **35-1558**

Crustal movements and gravity variations related to ice load Dietrich, R., (1980, p.47-51, ger) **35-2433**

Gravity anomalies

Connection between the Gamburtsev and Vernadskiy Mountains Koblents, I.A.P., (1980, p.224-233, eng) **35-2629**

Grazing

Grass lands in swampy taiga Savchenko, I.V., (1980, p.3-14, rus) **35-959**

Grazing effect on tundra vegetation Polezhaev, A.N., (1980, p.5-13, rus) **35-1036**

Responses of Arctic tundra to intensive muskox grazing McKendrick, J.D., (1981, p.49-55, eng) **35-1694**

Herbivore-based trophic system in coastal tundra Batzli, G.O., et al, (1980, p.335-410, eng) **35-1939**

Nutritional ecology of microtine rodents in tundra, Alaska Batzli, G.O., et al, (1980, p.483-499, eng) **35-3201**

Ecology of ground squirrels near Atkasook, Alaska Batzli, G O , et al, (1980, p 501-510, eng) 35-3202
Forage consumption by reindeer and caribou near Atkasook, Alaska White, R G , et al, (1980, p 511-529, eng) 35-3203
Growth and physiological responses of tundra plants to defoliation Archer, S , et al, (1980, p 531-552, eng) 35-3204
Plant-eating animals and fertilization of tundra soils McKendrick, J D , et al, (1980, p 565-578, eng) 35-3206
Herbivory - a strategy of tundra consumers Batzli, G O , et al, (1981, p 359-375, eng) 35-3385
Populations and energetics of small mammals in the tundra ecosystem Batzli, G O , (1981, p 377-396, eng) 35-3386
Ungulates on arctic ranges White, R G , et al, (1981, p 397-483, eng) 35-3387

Great Lakes

Winter severity index for the Great Lakes Assel, R A , (1980, p 1440-1445, eng) 35-883
Ice research program of the Great Lakes Environmental Research Laboratory Quinn, F H , (1980, p 1-4, eng) 35-2157

Greenland

Analysis of Cl-36 in environmental water samples using an electrostatic accelerator Elmore, D , et al, (1979, p 22-25, eng) 35-1593
Marine glaciology of Greenland and prospects of oil production Brochu, M , (1980, p 77-81, ita) 35-1674
Late Weichselian ice sheets in Eurasia and Greenland Andersen, B G , (1981, p 1-65 + 5 sheets, eng) 35-2063
Historical record of global atmospheric pollution revealed in polar ice sheets Boutron, C , et al, (1980, p 210-215, eng) 35-2470
Recent periglacial morphodynamics on Angmagssalik O, southeast Greenland Schunke, E , (1979, p 1-19, ger) 35-2642
Topographic control of the polar front off southern Greenland Sommerhoff, G , et al, (1979, p 63-69, ger) 35-2645
Total gas content of ice and past changes of the northwest Greenland ice sheet Raynaud, D , et al, (1981, p 235-237, eng) 35-3034

—Kangerdlugssuaq

Geomorphology of Kangerdlugssuaq, Greenland Brooks, C K , (1979, 25p , eng) 35-4213

—King Oscars Fjord

Flexural response of a tabular ice island to ocean swell Goodman, D J , et al, (1980, p 23-27, eng) 35-2200

—Narssaq River

Quaternary geology of the Narssaq area, South Greenland Funder, S , (1979, 24p , eng) 35-110
Modeling glacial runoff in river basins Christensen, M , et al, (1980, p 81-86, 154-157, rus) 35-2821

Ground ice

Badland topography in the Arctic Korzhuev, S S , (1978, p 95-96, rus) 35-15
Thermokarst processes in construction areas Vtatkina, I R , et al, (1978, p 103-104, rus) 35-18
Formation and movements of rock streams Tumn, A L , et al, (1978, p 104-106, rus) 35-19
Glaciological research at Trent University and a bibliography, 1968-1980 Adams, W P , (1980, p 178-193, eng) 35-50
Underground ice along the Qing-Zang highway Li, J , et al, (1980, p 31-35, chi) 35-123
Mining problems in seismic permafrost areas Nikolaev, V V , et al, (1980, p 191-197, rus) 35-143
Development of cryogenic relief in Pamirs and Tien Shan Ermolin, E D , (1979, p 88-105, rus) 35-191
Vertical electric sounding of permafrost Nemov, A E , (1979, p 112-122, rus) 35-193
Industrial construction on frozen peat Vialov, S S , et al, (1980, 144p , rus) 35-280
Types of tundra soils Elovskaia, I G , et al, (1980, p 158-194, rus) 35-292
Loose surface deposits of the Angara River area Gorbachev, V N , (1980, p 21-39, rus) 35-297
Methods of engineering-geological investigations of high slopes susceptible to cave-ins and landslides Zolotarev, G S , ed, (1980, 184p + append , rus) 35-344
Cryogenic structure and ice content of perennially frozen rocks in the West Siberian Platform Trofimov, V T , et al, (1980, 246p , rus) 35-385
Winter water quality and hydrology of Ogilvie River system Schreier, H , (1979, p 559-569, eng) 35-434
Ice melting in solutions of potassium salts Bykov, I R , et al, (1980, p 11-13, rus) 35-632
Stability of mining excavations in permafrost areas Plesnitsev, V V , (1980, p 103-106, rus) 35-635
Model for frost heave including overburden Hopke, S W , (1980, p 111-127, eng) 35-726
Experimental studies with frozen soil in an "ice sandwich" permeameter Horiguchi, K , et al, (1980, p 177-183, eng) 35-733
Thermal fields during regelation Philip, J R , (1980, p 193-203, eng) 35-735
Electrical resistivity measurements in permafrost Osterkamp, T E , et al, (1980, p 277-286, eng) 35-745
Cryogenic lithogenesis under swamp conditions Usov, V A , (1980, p 40-44, rus) 35-752
Artificial lakes in permafrost areas Kronik, Ia A , et al, (1980, p 120-129, rus) 35-766
Formation of moraine deposits Lavrushin, Iu A , (1980, p 123-135, rus) 35-809
Heat transfer between tundra soil and atmosphere induced by engineering Pavlov, A V , et al, (1981, 12p , eng) 35-826
Electrophysical properties of peat and their practical application Lych, A M , et al, (1980, 176p , rus) 35-937
Classification of cryogenic processes Vtiurin, B I , et al, (1980, p 13-22, rus) 35-950
Modeling moisture-ice fields in freezing fines Kiuntsel', V V , et al, (1980, p 80-84, rus) 35-968
Dredging in freezing weather Popov, Iu A , (1980, p 98-104, rus) 35-1089
Geocryological conditions of formation of Upper Pleistocene and Holocene deposits in the northern eastern USSR Novoseletskii, R N , ed, (1976, 88p , rus) 35-1143
Ice bearing loess in the Yana-Omoloy Interfluve Tomirdiaro, S V , et al, (1976, p 3-11, rus) 35-1144
Cryolithology of the Mamontovaya Mountain formations Kuznetsov, Iu V , (1976, p 12-21, rus) 35-1145
Theory of forecasting cryogenic processes Izmailov, I I , et al, (1976, p 78-85, rus) 35-1148
Protection of vegetational cover in permafrost areas Tyrtikov, A P , (1980, p 14-18, rus) 35-1286
Gullies in permafrost areas Shishkina, I P , (1980, p 22-24, rus) 35-1288
Recent and ancient glaciation of plains and mountainous regions of the USSR Zubakov, V A , ed, (1978, 131p , rus) 35-1420
Surface glaciation and permafrost of West Siberia Kaplianskata, F A , et al, (1978, p 18-28, rus) 35-1421
Buried glacier ice in West Siberia Solomatin, V I , et al, (1921, p 66-77, rus) 35-1422
Geotechnical properties of fine-grained permafrost soils Roggensack, W D , (1977, 449p , eng) 35-1467
Behavior of thawing slopes in permafrost Pufahl, D E , (1976, 323p , eng) 35-1468
Boring core of ice taken from beneath the soil of a landslide Huzioka, T , et al, (1978, p 179-180, jap) 35-1555
Design of residential and public buildings for the first climatic zone Belova, G M , ed, (1973, 75p , rus) 35-1596
Strength of frozen sandy loam Artemov, Z P , (1973, p 55-61, rus) 35-1602
Deformation of ground ice Dokuchaev, V V , et al, (1973, p 62-67, rus) 35-1603
Laboratory measurements of subsurface displacements during thaw of low-angle slopes of a frost-susceptible soil Rein, R G , Jr , et al, (1980, p 349-358, eng) 35-1670
Sub-surface processes related to ground water and ice Embleton, C , et al, (1979, p 187-212, eng) 35-1687
Swelling of frozen soils and its effect on structure foundations Orlov, V O , et al, (1980, 286p , eng) 35-1697
Ice formation in the active layer Parmuzina, O R , (1980, p 131-152, eng) 35-1761
Cryolithogenesis as an independent type of lithogenesis Popov, A I , (1979, p 7-25, rus) 35-1828
Erosion of northern sea shores Arkhikov, E I , et al, (1976, p 50-56, rus) 35-1852
Study of a Belgian pingo rampart Bastin, B , et al, (1974, p 341-357, fre) 35-1995
Vegetation disturbance on solifluction slopes Sukhodrovskii, V L , (1980, p 36-42, rus) 35-2188
Ground ice distribution maps Ivanov, M S , (1980, p 58-75, rus) 35-2191
Economic development of tundra soils Konorovskii, A K , (1980, p 17-18, rus) 35-2257
Soils of taiga and forested bald-peak areas Ogorodnikov, A V , (1980, p 81-83, rus) 35-2280
Geocryology of the Khangay Mountains (Mongolia) Chigir, V G , (1980, p 175-177, rus) 35-2310
Soil preservation in northern territories Chigir, V G , (1980, p 188-190, rus) 35-2313
Statistical methods of intepretng electroprofiling data Il'ina, E B , (1974, p 86-88, eng) 35-2398
Composition and properties of Upper Pleistocene deposits of the Yana-Indigirka coastal lowland Trush, N I , et al, (1975, p 59-69, eng) 35-2401
Thermokarst in Arctic regions of the USSR and abroad Belousova, Zh M , (1952, p 41-43, rus) 35-2424
Protection of the environment in northern Siberia Gerasimov, I P , (1980, p 191-202, eng) 35-2626
Marine sediments and permafrost structure in Severnaya Zemlya Kostaev, A G , et al, (1981, p 183-187, rus) 35-2767
River diversion effect on permafrost conditions of Arctic shores Popov, B A , et al, (1980, p 113-117, rus) 35-3127
Cryolithologic analysis Gasanov, Sh Sh , (1981, 195p , rus) 35-3211
Origin of frozen loess (Edoma) formation in Yakutia Vtiurin, B , et al, (1980, p 265-271, rus) 35-3232
Calculating sublimation weathering of perennially frozen fines Kuz'min, G P , (1981, p 70-80, rus) 35-3286
Isotope method of studying permafrost hydrology Afanasenko, V E , et al, (1981, p 85-90, rus) 35-3299
Ground ice development in East Yakutia Gordeev, P P , (1980, p 141-147, rus) 35-3329
Cryogenic structure of moraines in Zailyskiy Alatau Ermolin, E D , (1980, p 147-153, rus) 35-3330
Forecasting ground sagging due to permafrost thawing Trofimov, V T , et al, (1981, p 101-112, rus) 35-3460
Utilization of explosive energy in construction Dandenko, I I , (1981, 167p , rus) 35-3531
Physical framework for describing the genesis of ground ice Pavlik, B F , (1980, p 531-548 , eng) 35-3555
Soil and permafrost conditions in the Alaskan Beaufort Sea Miller, D L , et al, (1980, p 325-338, eng) 35-3637
Enrichment of perennially frozen ore and placer deposits Emel'ianov, V I , ed, (1977, p 175, rus) 35-3805
Water supply systems for dredging in permafrost areas Ageenkov, A V , et al, (1977, p 87-100, rus) 35-3807
Farmers loop sinkhole Sweet, L , et al, (1980, p 6-10, eng) 35-3856
Detecting massive ground ice in permafrost by geophysical methods Osterkamp, T E , et al, (1980, p 27-30, eng) 35-3859
Interrelationship between surface and ground water in the permafrost zone Piguzova, V M , ed, (1980, 146p , rus) 35-3988
Relations between ice of different origin Shemkman, V S , (1980, p 97-103, rus) 35-3999
Relationships between different genetic types of ground ice Klimovskii, I V , et al, (1980, p 103-114, rus) 35-4000
On the buried ice near the highway bridge at the Batura Glacier terminus Shi, Y , (1980, p 166-172, chi) 35-4037
History of permafrost development in the Timan-Ural area Oberman, N G , (1981, p 60-73, rus) 35-4069
Permafrost formation in Ural Mountains Oberman, N G , (1981, p 73-78, rus) 35-4070
Yamal Peninsula Danilova, N S , et al, (1981, p 84-91, rus) 35-4072
Pleistocene permafrost in the Taz Peninsula Belopukhova, E B , (1981, p 92-96, rus) 35-4073
Permafrost of the Sibirskiye Uvaly swamps Shamanova, I I , (1981, p 97-101, rus) 35-4074
Cryogenic processes related to changes in paleogeographic conditions Gravis, G F , (1981, p 102-113, rus) 35-4075
Late Cenozoic permafrost of Yakutia Kaplina, T N , (1981, p 153-181, rus) 35-4078
On ice-wedge polygons in Oland Svensson, H , (1979, p 110-112, swe) 35-4215
Uniaxial compressive strength of segregated ice in soil Ohtai, T , et al, (1981, p 83-96, eng) 35-4267
Peat accumulation in drained northern soils Berman, D I , et al, (1979, p 134-145, rus) 35-4330

Ground thawing

Mining in permafrost areas Tumn, V P , (1979, p 62-64, rus) 35-197
Assessment of loss in carrying capacity after thawing Dysli, M , et al, (1980, p 394-399, fre) 35-1130
Geotechnical properties of fine-grained permafrost soils Roggensack, W D , (1977, 449p , eng) 35-1467
Behavior of thawing slopes in permafrost Pufahl, D E , (1976, 323p , eng) 35-1468
Thawing and freezing in tundra soils Ryden, B E , et al, (1980, p 251-281, eng) 35-1484
New approach to the morphological stability of the Stefan problem Lievre, C , et al, (1980, p 119-135, eng) 35-1497
Heat pipelines at the Baykal-Amur railroad Sokolov-Baikov, O V , (1980, p 22, rus) 35-1528
Studying clay shale deformation during thawing Dokuchaev, V V , et al, (1973, p 12-22, rus) 35-1598
Dirigibles for pipeline repairs in northern swamps Kulikov, V D , (1980, p 44-47, rus) 35-1608
Laboratory measurements of subsurface displacements during thaw of low-angle slopes of a frost-susceptible soil Rein, R G , Jr , et al, (1980, p 349-358, eng) 35-1670
Ice formation in the active layer Parmuzina, O R , (1980, p 131-152, eng) 35-1761
Moisture redistribution in frozen soils (based on field observations) Parmuzina, O R , (1979, p 194-197, rus) 35-1840
Neumann solution applied to soil systems Lunardini, V J , (1980, 7p , eng) 35-1893
Thermal resources of soils with deep seasonal freezing Chigir, V G , (1980, p 55-58, rus) 35-2269
Temperature field dynamics in freezing-thawing soils Melamed, V G , et al, (1975, p 52-62, eng) 35-2399
Construction and performance of frozen gravel fills Lart, R G , et al, (1981, p 693-704, eng) 35-2531
Effect of latent heat on frost penetration in moist soil Hooper, F C , et al, (1979, p 789-790, eng) 35-2889
Mudboil pattern disruption due to airstrip construction at North Henik Lake Egginton, P A , (1981, p 299-303, eng) 35-3087
Evaluation of soil moisture from space photographs Nazirov, M , et al, (1980, p 115-122, eng) 35-3797

Ground thawing *(cont.)*

Farmers loop sinkhole. Sweet, L., et al. [1980, p.6-10, eng] **35-3856**

Highway pavement cracks: an Alaskan overview. McHattie, R., [1980, p.17-21, eng] **35-3858**

Heat transfer between pipes and surrounding media. Ivashkova, V.K., et al. [1979, p.34-39, rus] **35-4057**

Experimental investigations of the elastic moduli of the soil in a lateral fill. Fedorovich, D.I., et al. [1981, p.29-31, eng] **35-4152**

Ground water

Winter water quality and hydrology of Ogilvie River system. Schreier, H., [1979, p.559-569, eng] **35-434**

Environmental impact of highway deicing. Backman, L., [1980, 62p. + tables, swe] **35-570**

Freezing of fine grained rocks. Ananian, A.A., [1980, p.130-135, rus] **35-767**

Karst waters in ice caves. Ezhov, II.A., et al. [1976, p.35-40, rus] **35-1296**

Water supply in populated areas of the North. Vdovin, II.I., [1980, 133p., rus] **35-1577**

Hydrology. Grushevskii, M.S., ed. [1980, 177p., rus] **35-1865**

Formation of large naleds. Kolotaev, V.N., [1980, p.37-45, rus] **35-1867**

Geohydrology of the Delta-Clearwater area, Alaska. Wilcox, D.E., [1980, 26p., eng] **35-1896**

Seasonal thermal storage in aquifer for utilization. Yokoyama, T., et al. [1980, p.1646-1654, eng] **35-1964**

Permafrost conditions in Spitsbergen. Liestol, O., [1980, p.23-28, eng] **35-1990**

"Viviers" in the Hautes Fagnes and pingos. Pissart, A., [1974, p.359-381, fre] **35-1996**

Temperature field dynamics in freezing-thawing soils. Melamed, V.G., et al. [1975, p.52-62, eng] **35-2399**

Geochemical drainage dispersion from sulphide mineralization. Mehrtens, M.B., et al. [1973, p.1-10, eng] **35-2742**

Permafrost hydrology in Dahinganling, China. Zheng, Q., [1980, p.44-51, chi] **35-2918**

Bedrock heave in the central Canadian Arctic. Dyke, L.D., [1981, p.157-167, eng] **35-3085**

Isotope methods of studying natural waters. Ferronskii, V.I., ed. [1981, 260p., rus] **35-3296**

Potential and developed water-supply sources in Alaska. Dearborn, L.L., [1981, p.1-11, eng] **35-3682**

Determination of the thermophysical characteristics of alternatively freezing and thawing dispersed media by the method of solving inverse problems of heat conduction. Pavlov, A.R., et al. [1981, p.885-589, eng] **35-3817**

Hydrological research in Canada. Brown, I.C., comp. [1978, p.247-251, eng] **35-3929**

Hydrochmatically anomalous years in West Siberia. Glukh, I.S., [1981, p.93-100, rus] **35-3972**

Interrelationship between surface and ground water in the permafrost zone. Piguzova, V.M., ed. [1980, 146p., rus] **35-3988**

Hydrology of permafrost in the Polar Ural Mountains. Oberman, N.G., [1980, p.5-13, rus] **35-3989**

Microelement migration in waters of permafrost areas. Makarov, V.N., [1980, p.114-127, rus] **35-4001**

Chart of ground water movement in East Siberia. Piguzova, V.M., [1980, p.135-138, rus] **35-4003**

Grounded ice

Ice-shelf grounding: ice and bedrock temperature changes. MacAyeal, D.R., et al. [1980, p.397-400, eng] **35-1503**

Iceberg melt-driven convection. Josberger, E.G., et al. [1980, p.113-117, eng] **35-2215**

Super sea-ice kettles in the arctic nearshore zone, Reindeer Island. Reimnitz, E., et al. [1981, p.344-355, eng] **35-3266**

Grouting

Cement injection technique for thawed permafrost. Shugaev, R.T., et al. [1980, p.63-64, rus] **35-597**

Building codes for winter construction (SNiP III-17-80). Kameiko, V.A., et al. [1980, p.16-18, rus] **35-613**

Antifreeze admixtures for winter concreting. Dobshits, L.M., [1979, p.47-55, rus] **35-1278**

Prolonging the service life of concrete in transport structures. Sheikin, A.E., ed. [1980, 158p., rus] **35-3524**

Strength of mortars with antifreeze admixtures. Kuntsevich, O.V., et al. [1980, p.26-34, rus] **35-3527**

Controlling stresses in concrete dams. Epifanov, A.P., et al. [1981, p.5-8, rus] **35-4227**

Cranes used in arch dam construction in the North. Kuperman, V.I., et al. [1981, p.12-15, rus] **35-4281**

Growth

Improved plant traits for high altitude disturbances. Johnson, D.A., [1980, p.173-184, eng] **35-588**

Revegetation research at the Climax, Colorado molybdenum mine. Guillaume, M., [1980, p.185-203, eng] **35-589**

Response to fertilization of Alaskan tundra plants. Shaver, G.R., et al. [1980, p.662-675, eng] **35-830**

Periodically interrupted, long, narrow ice lanes on high-level windows. Lenggenhager, K., [1980, p.245-248, ger] **35-986**

[illegible] Sonesson, M., et al. [1980, p.191-207, eng] **35-1481**

Seed production, dispersal and germination of alpine vegetation. Marchand, P.J., et al. [1980, p.137-146, eng] **35-1658**

Germination in Barrow, Alaska, tundra soil cores. Leck, M.A., [1980, p.343-348, eng] **35-1669**

Spruce at its upper limits on the Front Range, Colorado. Wardle, P., [1968, p.483-495, eng] **35-1903**

Growth forms of spruce and subalpine fir at tree line. Grant, M.C., et al. [1977, p.259-263, eng] **35-1905**

Control of tundra plant allocation patterns and growth. Chapin, F.S., III, et al. [1980, p.140-185, eng] **35-1934**

Tundra vegetation: pattern and succession. Webber, P.J., et al. [1980, p.187-218, eng] **35-1935**

Deicing salts and growth of trees and shrubs along roads. Buschena, C., et al. [1980, 31p., eng] **35-2942**

Growth and physiological responses of tundra plants to defoliation. Archer, S., et al. [1980, p.531-552, eng] **35-3204**

Nutrient allocation and responses to defoliation in tundra plants. Chapin, F.S., III. [1980, p.553-563, eng] **35-3205**

Primary production of tundra. Wielgolaski, F.E., et al. [1981, p.187-225, eng] **35-3380**

Simulation approach to primary production. Jones, H.E., et al. [1981, p.239-256, eng] **35-3382**

Analysis of processes of primary production in tundra growth forms. Tieszen, L.L., et al. [1981, p.285-356, eng] **35-3384**

Seasonal growth and accumulation of N, P, and K by grass irrigated with wastes. Palazzo, A.J., [1981, p.64-68, eng] **35-3515**

Energy exchange at the surface of the alpine tundra. Skartveit, A., [1976, 147p., eng] **35-3522**

Plant growth on a gravel soil: greenhouse studies. Palazzo, A.J., et al. [1981, 8p., eng] **35-3692**

Ecology of black spruce, northern Quebec. Legere, A., et al. [1981, p.261-276, eng] **35-4259**

Growth of *Carex aquatilis* along latitudinal and local gradients. Chapin, F.S., III, et al. [1981, p.1000-1009, eng] **35-4316**

Tundra plants in the Okhotsk Sea area. Mazurenko, M.T., [1979, p.37-91, rus] **35-4327**

Gullies

Development of gullies under different climatic conditions. Liubimov, B.P., [1978, p.71-73, rus] **35-13**

Badland topography in the Arctic. Korzhuev, S.S., [1978, p.95-96, rus] **35-15**

Methodology of forecasting natural phenomena in Siberia. Druzhinin, I.P., ed. [1980, 144p., rus] **35-148**

Erosion of cryogenic soils. Kerzhentsev, A.S., [1976, p.66-72, rus] **35-803**

Gullies in permafrost areas. Shishkina, L.P., [1980, p.22-24, rus] **35-1288**

Formation of gullies in tundra. Konstantinov, I.P., [1981, p.80-95, rus] **35-3287**

Hail clouds

Mathematical model of hail cloud dissipation. Zhekamukhov, M.K., et al. [1980, p.3-39, rus] **35-1199**

Hail cloud dissipation. Volkova, N.A., et al. [1980, p.47-50, rus] **35-1201**

Studying hail nuclei in wind tunnels. Tlisov, M.I., et al. [1975, p.122-139, rus] **35-1620**

Formation of hailstone nuclei. Khorguani, V.G., [1980, p.638-643, eng] **35-2838**

Effect of hail nuclei concentration on their coagulation growth. Kartsivadze, A.I., et al. [1980, p.5-17, rus] **35-2869**

Hail prevention

Measuring ice nuclear concentrations in clouds. Potapov, E.I., [1980, p.128-132, rus] **35-25**

Hailstone electrification

Charge transfer during ice crystal collisions. Gaskell, W., et al. [1980, p.841-854, eng] **35-2339**

Corona discharge from hailstones in electrical fields. Diachuk, V.A., [1980, p.107-118, rus] **35-2994**

Hailstone growth

Hailstone formation under a dry regime and in mixed fractions. Bartishvili, G.S., [1975, p.140-150, rus] **35-1621**

Effect of crystalline phase on hailstone growth. Ekba, I.A.A., et al. [1975, p.151-162, rus] **35-1622**

Formation of hailstone nuclei. Khorguani, V.G., [1980, p.638-643, eng] **35-2838**

Effect of hail nuclei concentration on their coagulation growth. Kartsivadze, A.I., et al. [1980, p.5-17, rus] **35-2869**

Hailstone structure

Methods of studying hailstone structure. Bartishvili, G.S., et al. [1975, p.114-121, rus] **35-1619**

Hailstones

Studying hail nuclei in wind tunnels. Tlisov, M.I., et al. [1975, p.122-139, rus] **35-1620**

Hailstone formation under a dry regime and in mixed fractions. Bartishvili, G.S., [1975, p.140-150, rus] **35-1621**

Corona discharge from hailstones in electrical fields. Diachuk, V.A., [1980, p.107-118, rus] **35-2994**

[illegible] K., [1977, p.315-321, eng] **35-3780**

Hardness tests

Enrichment of perennially frozen ore and placer deposits. Emel'ianov, V.I., ed. [1977, p.175, rus] **35-3805**

Haze

Chemical composition of arctic haze, Ny-Alesund, Spitzbergen. Heintzenberg, J., et al. [1981, p.162-171, eng] **35-3487**

Health

Health aspects of land treatment. Reed, S.C., [1979, 43p., eng] **35-2493**

Health aspects of water reuse in California. Reed, S.C., [1979, p.434-435, eng] **35-2580**

Heard Island

Physical properties of Vahsel Glacier, Heard Island. Allison, I.F., [1980, 31p., eng] **35-3916**

Heat balance

Snowmelt runoff estimate using energy balance techniques. Dacu, V.J., et al. [1978, p.183-192, eng] **35-32**

Water, ice, and heat balance of mountain glacier basins. Suslov, V.F., et al. [1980, 206p., rus] **35-232**

Heat and water balance in mountain drainage basins. Novorotskii, P.V., [1980, p.224-229, rus] **35-342**

Simple energy balance model of ice segregation. Outcalt, S., [1980, p.145-151, eng] **35-729**

Heat exchange at surface of built-up ice platform during construction. Nakawo, M., [1980, p.323-333, eng] **35-749**

Melting of antarctic fast ice. Nazintsev, Iu.L., [1980, p.97-101, rus] **35-1460**

Annual report No.12, Contract N00014-76-C-0234, NR 307-252. [1980, 26p., eng] **35-2055**

Thermal balance and environmental protection of northern landscapes. Pavlov, A.V., [1980, p.13-31, rus] **35-2186**

Energy and mass balance of a deep alpine snow cover. Davis, R., et al. [1980, p.62-67, eng] **35-2227**

Energy balance climate models. North, G.R., et al. [1981, p.91-121, eng] **35-2579**

Heat budget of the Greenland ice sheet. Ambach, W., [1979, p.44-54, ger] **35-2643**

River diversion effect on meteorological conditions of Arctic landscapes. Kurbatova, A.V., et al. [1980, p.104-106, rus] **35-3124**

Illustrations of biological roles of winter lake cover. Adams, W.P., [1980, p.1-18, eng] **35-3143**

Heat balance of soils with disturbed and undisturbed vegetational cover. Ivanova, I.I., et al. [1980, p.19-23, rus] **35-3308**

Measuring temperature of upper permafrost layers. Gennadinik, B.I., et al. [1980, p.68-79, rus] **35-3318**

Stefan-like problems in finite geometry. El-Genk, M.S., et al. [1979, p.69-80, eng] **35-3350**

Results of studying thermal balance of landscapes under northern conditions. Pavlov, A.V., [1980, p.104-112, rus] **35-3478**

South polar surface energy balance variations. Weller, G., [1980, p.2006-2014, eng] **35-3646**

Soil heat-balance regime in the north of the USSR. Pavlov, A.V., [1981, p.129-135, eng] **35-3669**

Thermal energy exchange in East Antarctica. Aver'ianov, V.G., [1981, p.32-39, eng] **35-3903**

Heat and water balance in western Siberia. Zhukov, V.M., [1981, p.55-67, rus] **35-3969**

Problems of the Arctic and the Antarctic, collection of articles; Vol. 48, 1976. Treshnikov, A.F., ed. [1981, 173p., eng] **35-4129**

Set of instruments for determining the elements of the heat balance of the surface layer of the atmosphere. Makshtas, A.P., [1981, p.71-74, eng] **35-4133**

Calculating heat balance of the ocean surface. Zakablukovskii, A.P., et al. [1979, p.136-138, rus] **35-4197**

Equation for calculating melting ice cover on water bodies. Ergin, V.P., [1981, p.29-38, rus] **35-4302**

Heat capacity

Heat budgets of the Southeast Beaufort Sea for the years 1974 and 1975. Tummers, E.L., [1980, 204p., eng] **35-1777**

Heat flux

Thermal analysis of thick concrete sections. Thurston, S.J., et al. [1980, p.347-357, eng] **35-824**

Heat and mass transfer in the glacier-snow field system. Mazo, V.L., [1980, p.74-79, rus] **35-1229**

Temperature profiles in the Barnes Ice Cap, Canada. Hooke, R.L., et al. [1980, p.1174-1188, eng] **35-1266**

Geothermal conditions of sedimentary mantle in the Siberian Platform. Slavin, V.I., et al. [1980, p.5-13, rus] **35-1570**

Arctic sea ice decay simulated for a CO2-induced temperature rise. Parkinson, C.L., et al. [1979, p.149-162, eng] **35-1657**

Heat budgets of the Southeast Beaufort Sea for the years 1974 and 1975. Tummers, E.L., [1980, 204p., eng] **35-1777**

Measuring building R-values for large areas. Flanders, S.N., et al. [1981, p.137-138, eng] **35-2463**

[illegible] Stefan problem with mixed boundary condition. Gupta, R.S., et al. [1981, p.251-259, eng] **35-3270**

Liquid spray cooling of a heated surface. Grissom, W.N., et al. [1981, p.261-271, eng] **35-3271**

[illegible] South polar surface energy balance variations. Weller, G., [1980, p.2006-2014, eng] **35-3646**

Wintertime observations of roll clouds over the Bering Sea — Walter, B A , (1980, p 2024-2031, eng) **35-3648**

Role of polar regions in global climate — Lindzen, R S , et al, (1980, p 2064-2079, eng) **35-3652**

Seasonality of Southern Ocean sea ice — Gordon, A L , (1981, p 4193-4197, eng) **35-3910**

Heat loss

Designing inflatable structures for cold regions — Kozhevnikov, N N , (1979, p 125-127, rus) **35-244**

Thermal insulation for heat pipes — Zavertkin, I A , (1980, p 26-29, rus) **35-595**

Predicting cap and base rock heat loss in thermal reservoirs — Vinsome, P K W , et al, (1980, p 87-96, eng) **35-1070**

Thermography control of heat insulation and tightness of buildings — Axen, B , et al, (1980, 214p , eng) **35-2004**

Thermal regime of ice cover during thaw — Klokov, V D , (1980, p 23-28, rus) **35-2027**

Building envelope performance testing — Harrje, D T , (1981, p 39-41, eng) **35-2802**

Economic effectiveness of optimizing the amount of thermal insulation of buildings — Boguslavskii, L D , (1981, 102p , rus) **35-3965**

Construction thermodynamics (microclimate and thermal insulation of buildings) — Ushkov, F V , ed, (1979, 133p , rus) **35-4055**

Equipment for measuring thermal conductivity of enclosures — Khomutov, A F , (1979, p 118-119, rus) **35-4063**

Measuring heat flux through enclosures — Gerashchenko, O A , et al, (1979, p 127-131, rus) **35-4064**

Calculating heat spent for sea ice melting — Gudkovich, Z M , (1979, p 21-27, rus) **35-4186**

Surface heat loss and frazil ice production in the St Lawrence River — Shen, H T , (1980, p 996-1001, eng) **35-4254**

Heat pipes

Thermal insulation for heat pipes — Zavertkin, I A , (1980, p 26-29, rus) **35-595**

Heat pipelines at the Baykal-Amur railroad — Sokolov-Baikov, O V , (1980, p 22, rus) **35-1528**

Cryo-anchor-proven performance for Arctic foundation stabilization — Cady, F C , (1980, p 262-278, eng) **35-1981**

Design, testing, and shipboard evaluation of a heat pipe de-icing system — Okihara, T , et al, (1980, 6p , eng) **35-3770**

Heat recovery

Air-to-air heat recovery devices for small buildings: Interim report — Zarling, J P , (1981, 19p , eng) **35-2014**

Waste heat utilization through soil heating — McFadden, T , et al, (1980, p 105-120, eng) **35-2112**

Heat sinks

Heat sink capacity of a snow dump site — Fetck, J R , et al, (1980, p 179-181, eng) **35-3157**

Heat sources

Seasonal thermal storage in aquifer for utilization — Yokoyama, T , et al, (1980, p 1646-1654, eng) **35-1964**

Waste heat utilization through soil heating — McFadden, T , et al, (1980, p 105-120, eng) **35-2112**

Heat transfer

Free convection heat transfer characteristics in a melt water layer — Yen, Y C , (1980, p 550-556, eng) **35-103**

Model of the planetary boundary layer over a snow surface — Halberstam, I , et al, (1979, p 431-452, eng) **35-158**

Turbulent heat flux from Arctic leads — Andreas, E L , et al, (1979, p 57-91, eng) **35-159**

Mathematical modeling and experimental study of heat and mass transfer processes — Bondarev, E A , ed, (1979, 136p , rus) **35-233**

Heat and mass transfer in rocks during phase transformations — Mekhamed, A G , (1980, 228p , rus) **35-253**

Freezing on the undersurface of the Ross Ice Shelf, Antarctica — Zotikov, I A , et al, (1979, p 1454-1457, rus) **35-437**

Heat and mass transfer in a freezing unsaturated porous medium — Jame, Y -W , et al, (1980, p 811-819, eng) **35-440**

Wave formation and heat transfer at an ice-water interface — Gilpin, R R , et al, (1980, p 619-640, eng) **35-521**

Heat and mass transfer from freely falling drops at low temperatures — Zarling, J P , (1980, 14p , eng) **35-594**

Point source bubbler systems to suppress ice — Ashton, G D , (1979, p 93-100, eng) **35-695**

Conference on Soil-Water Problems in Cold Region, 4th, 1979 (1980, 262p , eng) **35-724**

Thermally induced water migration in frozen soils — Perfect, E , et al, (1980, p 101-109, eng) **35-725**

Model for frost heave including overburden — Hopke, S W , (1980, p 111-127, eng) **35-726**

Effect of wind on heat transfer in snow — Reimer, A , (1980, p 129-137, eng) **35-727**

Heat and moisture transport similar to those in permafrost — Hayes, I J , et al, (1980, p 185-192, eng) **35-734**

Heat and moisture transfer in soils during freezing — Fukuda, M , et al, (1980, p 223-232, eng) **35-738**

Numerical solution of soil freezing problems — Goodrich, L E , (1980, p 237-242, eng) **35-740**

Frost heave model based upon heat and water flux — Guymon, G L , et al, (1980, p 253-262, eng) **35-742**

Physical kinetics and transfer processes in phase transformations — Pavlukevich, N V , et al, (1980, 208p , rus) **35-806**

Adsorption force theory of frost heaving — Takagi, S , (1980, p 57-81, eng) **35-819**

Heat transfer between tundra soil and atmosphere induced by engineering — Pavlov, A V , et al, (1981, 12p , eng) **35-826**

Meteorological consequences of natural or deliberate changes in the surface environment — Vowinckel, E , et al, (1980, p 87-110, eng) **35-1008**

Surface heat balance in simulations of permafrost behavior — Miller, J W , (1979, p 240-250, eng) **35-1110**

Viscosity and heat transfer of fluidized snow — Nishimura, K , et al, (1978, p 93-102, jap) **35-1178**

Air temperature and snow heat energy at night in Sapporo — Ishikawa, N , et al, (1978, p 121-135, jap) **35-1181**

Differences in snow-melting rate between urban and rural areas in Sapporo — Aburakawa, H , et al, (1978, p 155-168, jap) **35-1183**

Research activities at Mizuho Station, 1977 — Fujii, Y , (1980, p 2-10, jap) **35-1268**

Energy flow through the subarctic mire at Stordalen — Svensson, B H , et al, (1980, p 283-301, eng) **35-1485**

Energy interaction between reservoirs and the atmosphere — Panin, G N , et al, (1980, p 151-173, rus) **35-1496**

Glacier energy balance and air temperature — Braithwaite, R J , (1980, p 501-503, eng) **35-1513**

Study on ablation hollows on a melting snow surface — Takahashi, S , (1978, p 13-46, jap) **35-1538**

Investigation of the heat transfer at the liquid-solid interface of rapidly melting ice — Fredley, J F , (1980, 87p , eng) **35-1591**

Reservoir effect on heat regime of rivers — Odrova, I V , (1980, p 90-93, rus) **35-1611**

Convection in the melting region around a heated cylinder — Yao, L S , et al, (1980, p 667-672, eng) **35-1677**

Planar freeze front during solidification of an aqueous solution — O'Callaghan, M G , et al, (1980, p 673-677, eng) **35-1678**

Flow instability during turbulent flow freezing in a horizontal tube — Thomason, S B , et al, (1980, p 782-784, eng) **35-1679**

Solidification in two-phase flow — Petrie, D J , et al, (1980, p 784-786, eng) **35-1680**

Phase change around a circular pipe — Lunardini, V J , (1980, 18p , eng) **35-1894**

Ice blocks melting into a salinity gradient — Huppert, H E , et al, (1980, p 367-384, eng) **35-1910**

Seasonal thermal storage in aquifer for utilization — Yokoyama, T , et al, (1980, p 1646-1654, eng) **35-1964**

Thermal interaction of structures and permafrost — Porkhaev, G V , et al, (1980, p 85-96, eng) **35-1973**

Cryo-anchor-proven performance for Arctic foundation stabilization — Cady, F C , (1980, p 262-278, eng) **35-1981**

Thermoactive forms for concrete construction in cold regions — Topchii, V D , (1980, p 315-321, eng) **35-1984**

Heat, mass and momentum transfer during ice sheet melting — Srivastava, P K , (1979, 110p , eng) **35-1987**

On the theory of frost heave — Forland, T , et al, (1980, p 45-48, eng) **35-1993**

Carbon dioxide and climate: ice and ocean — Thompson, S L , et al, (1981, p 9-10, eng) **35-2071**

Use of a geothermal model in northern municipal projects — Kent, D , et al, (1980, p 317-331, eng) **35-2126**

Thermodynamic analysis of the water distribution system in Inuvik, N W T — Hull, J A , (1980, p 332-346, eng) **35-2127**

Prediction of growth parameters of frost deposits in forced convection — White, J E , et al, (1981, p 3-6, eng) **35-2145**

Melting of a vertical ice wall by free convection into fresh water — Wilson, N W , et al, (1981, p 13-17, eng) **35-2147**

Snow evaporation under a forest canopy during a chinook — Swanson, R H , (1980, p 26-30, eng) **35-2223**

Mapping snow surface temperature from satellite data, Sierra Nevada — Frampton, M , et al, (1980, p 88-96, eng) **35-2231**

Production, assimilation and accumulation of organic matter in ecosystems — Batzli, G O , (1974, p 205-217, eng) **35-2242**

Relation between water-intake types in rivers and soil temperature — Solomennik, S F , (1980, p 150-151, rus) **35-2302**

Thermodynamics of snow metamorphism due to variations in curvature — Colbeck, S C , (1980, p 291-301, eng) **35-2372**

Meteorological processes in the antarctic atmosphere — Helbig, A , (1980, p 64-79, ger) **35-2435**

Heat transfer at the soil-air interface. — Akushevskaia, K E , (1980, p 79-92, rus) **35-2441**

Global circulation model of ocean, atmosphere and sea ice — Washington, W M , et al, (1980, p 1887-1908, eng) **35-2472**

Thermal diffusivity of frozen soil — Haynes, F D , et al, (1980, 30p , eng) **35-2603**

Estimation of heat and mass fluxes over Arctic leads — Andreas, E L , (1980, p 2057-2063, eng) **35-2754**

Stream-melting theory of glacier ablation — Kazanskii, A B , et al, (1980, p 203-206, rus) **35-2833**

Heat and mass transfer in massive rocks and in underground structures — Kremnev, O A , et al, (1980, 383p , rus) **35-2874**

Glacial meteorology of Mt Tuomuer — Kou, Y , et al, (1980, p 11-14, chi) **35-2911**

Complex turbulent flow and the processes of heat and mass transfer — Nikitin, I K , (1980, 238p , rus) **35-2956**

Air-water heat transfer in the North Atlantic — Gotoshkova, I N , et al, (1980, p 32-36, rus) **35-2999**

Tube freezing for conduction- or convection-controlled heat transfer — Sparrow, E M , et al, (1981, p 273-284, eng) **35-3272**

Heat transfer between permafrost and a well during drilling — Rusakov, V G , et al, (1981, p 134-140, rus) **35-3291**

Heat Transfer — San Diego, 1979 (1979, 315p , eng) **35-3347**

Forced convection melting heat transfer in a tube — Lee, D O , et al, (1979, p 55-68, eng) **35-3349**

Ice structure in a pipe at or near transition Reynold numbers — Gilpin, R R , (1979, p 89-94, eng) **35-3351**

Heat transfer during solidification around a cooled horizontal cylinder — Bathelt, A G , et al, (1979, p 103-111, eng) **35-3353**

Boundary system with convection at the solid-liquid interface — Nansteel, M W , et al, (1979, p 112-119, eng) **35-3354**

One-dimensional melting problem — Yuen, W W , et al, (1979, p 120-126, eng) **35-3355**

Surface ablation by melting or sublimation on a submerged rotating disc — Condiff, D W , et al, (1979, p 134-147, eng) **35-3357**

Heat transfer in cold climates — Lunardini, V J , (1981, 731p , eng) **35-3429**

Growth and decay of hoarfrost over a heat generating liquid layer — Cheung, F B , (1981, p 369-375, eng) **35-3517**

Energy exchange at the surface of the alpine tundra — Skartveit, A , (1976, 147p , eng) **35-3522**

Transport of matter, impulse and heat in porous media — Dietsch, H -J , (1980, p 351-407, ger) **35-3563**

Conduction and the transfer function of cold wires at VLF — Lecordier, J C , et al, (1981, p 103-114, fre) **35-3626**

Heat transfer during melting on tubes with a convective boundary — Saxena, S , et al, (1981, p 155-165, eng) **35-3627**

Ice-free Cretaceous? Results from climate model simulations — Barron, E J , et al, (1981, p 501-508, eng) **35-3687**

Study of the large scale cooling in the Bay of Bothnia — Sahlberg, J , et al, (1980, 32p , eng) **35-3699**

Snowcover ablation and runoff — Male, D H , et al, (1981, p 360-436, eng) **35-3754**

Simulation of a hot pipeline buried in permafrost — Hayes, I J , (1978, 8p , eng) **35-3782**

WREL, Water Resources Engineering, Inlea: the activities of the division (1980, 46p , eng) **35-3793**

Horizontal mixing in water quality modelling — Bengtsson, L , (1980, p 401-416, eng) **35-3794**

Thermal energy exchange in East Antarctica — Averianov, V G , (1981, p 32-39, eng) **35-3903**

Transient freezing of liquids in tube flow — Cheung, F B , et al, (1976, p 1-9, eng) **35-3922**

Thermal and hydraulic design of pipelines for oil and petroleum products — Agapkin, V M , et al, (1981, 256p , rus) **35-3931**

Heat transfer between pipes and surrounding media — Ivashkova, V K , et al, (1979, p 34-39, rus) **35-4057**

Equipment for measuring thermal conductivity of enclosures — Khomutov, A F , (1979, p 118-119, rus) **35-4063**

Thermal regime of current-conducting deicing coating — Avruto, E A , (1981, p 90-101, eng) **35-4135**

Snow surface energy exchange — Male, D H , et al, (1981, p 609-627, eng) **35-4212**

Solutions of the Stefan problem — Meirmanov, A M , (1981, p 547-549, rus) **35-4274**

Modelling ice dissipation in eastern Lake Erie — Rumer, R R , Jr , et al, (1978, p 194-200, eng) **35-4321**

Heating

Heating equipment for winter concreting — Mal'tsev, B A , (1979, p 27-28, rus) **35-482**

Thermal insulation for heat pipes — Zavertkin, I A , (1980, p 26-29, rus) **35-595**

Equipment for pipeline construction in freezing weather — Romanov, I S , (1980, p 29-30, rus) **35-617**

Heat and ventilation for houses in north Russia — Liber, I S , (1980, 191p , rus) **35-1576**

Building construction technology in interior Alaska in winter — Bennett, F L , (1980, p 16-31, eng) **35-1968**

Solar air heating systems for buildings in cold climates — Ward, D S , (1980, p 40-53, eng) **35-1970**

Builder's guide to water and energy — Seifert, R D , et al, (1980, 78p , eng) **35-2021**

Preventing ice formation in tunnels — Tetel'baum, A N , et al, (1981, p 48-49, rus) **35-2090**

Heating *(cont.)*

Waste heat utilization through soil heating. McFadden, T., et al. (1980, p.105-120, eng) **35-2112**

Stresses on cutting tools in permafrost excavation. Misnik, IU.M., et al. (1980, p.69-74, rus) **35-2455**

Ductless hot-water pipelines in the North. Sobolev, V.G., et al. (1981, p.126-129, rus) **35-2790**

Human settlements in the Arctic. (1980, 125p., eng) **35-2927**

Passive solar heating in Alaska. Final report. Zarling, J.P., (1980, 17p., eng) **35-3077**

Thermal methods of snow control on roads. Williams, G.P., (1981, p.613-629, eng) **35-3760**

Design, testing, and shipboard evaluation of a heat pipe de-icing system. Okihara, T., et al. (1980, 6p., eng) **35-3770**

Thermal removal of snow and ice on guideways. Kramer, T.J., (1980, p.1-8, eng) **35-3784**

Passive solar design elements for the Subarctic. Zarling, J., (1980, p.11-16, eng) **35-3857**

Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, F.V., ed. (1979, 133p., rus) **35-4055**

Calculating artificial thawing of frozen ground. Khromets, D.R., (1979, p.29-33, rus) **35-4056**

Turbulent heat transfer at vertical surfaces. Savin, V.K., (1979, p.87-94, rus) **35-4061**

Shelters for winter maintenance of equipment. Tatts, V.G., (1981, p.10-12, rus) **35-4279**

Heavy water

Thermal properties of liquid D2O at low temperatures and high pressures. Kanno, H., et al. (1980, p.1940-1947, eng) **35-441**

Behavior of H2O and D2O at low temperatures. Stanley, H.E., et al. (1980, p.3404-3422, eng) **35-842**

Molar volume of NaCl in an H2O-D2O mixture at different temperatures. Dutta-Choudhury, M.K., et al. (1980, p.2735-2740, eng) **35-995**

Temperature coefficient of the refractive index for H2O and D2O. Abbate, G., et al. (1980, p.1171-1177, eng) **35-1691**

Polarizability derivative of the O-D bond in ice. Bertie, J.E., et al. (1980, p.6352-6353, eng) **35-1696**

Height finding

Ice freeboard determination by satellite altimetry. Stanley, H.R., et al. (1980, p.295-304, eng) **35-555**

Helicopters

Use of helicopters in transporting prefabrication components. Chernitskii, A.V., (1980, p.26-27, rus) **35-2**

Weather and flights of airplanes and helicopters. Astapenko, P.D., et al. (1980, 280p., rus) **35-1362**

Feasibility of helicopter support Seek Frost. Merna, R.L., (1980, 54p., eng) **35-1578**

Helicopter icing review. Peterson, A.A., et al. (1980, 233p., eng) **35-1731**

New principle of helicopter design for tundra. Cherskii, N., (1981, p.26-28, rus) **35-2765**

Helicopter transportation of construction materials in the North. Nabutovskii, V.I., (1981, p.13-14, rus) **35-2774**

Photographs of Siberian construction sites. (1981, p.13, rus) **35-2787**

Icing tests on army helicopters. Hanks, M.L., (1979, 36p., eng) **35-3467**

Ice surveying methods and results. Borodachev, V.E., ed. (1981, 144p., rus) **35-3933**

Ice surveying from helicopters. Shatalin, N.V., (1981, p.32-40, rus) **35-3940**

MI-2 helicopters for Arctic ice surveys. Shatalin, N.V., et al. (1981, p.41-45, rus) **35-3941**

Reporting ice observations from helicopters. Kupetskii, V.N., (1981, p.46-68, rus) **35-3942**

Peculiarities of sea ice breaking by icebreakers. Kupetskii, V.N., (1981, p.89-91, rus) **35-3952**

Measuring ice cover thickness in summer. Lazarev, E.I., (1981, p.113-116, rus) **35-3957**

Radar measurements of ice cover thickness in the Arctic Ocean. Finkel'shtein, M.I., et al. (1981, p.117-119, rus) **35-3958**

Heterogeneous nucleation

Influence of vapor supersaturation on heterogeneous nucleation. Kartsivadze, A.I., et al. (1980, p.18-30, rus) **35-2870**

High pressure ice

Dipolar correlation factor and permittivity of ice IV and V. Johari, G.P., (1980, p.241-255, eng) **35-249**

Phase relations of ice under pressure. Mishima, O., et al. (1980, p.2454-2456, eng) **35-442**

Phase transitions of high pressure ice and water. Yamamoto, K., (1980, p.1841-1845, eng) **35-1672**

Liquid figures of high-pressure ice VI. Yamamoto, K., (1980, p.2291-2292, eng) **35-1673**

Himalaya Mountains

Study of the Central Himalayan glacier Millam. Joshi, B.P., (1980, p.130-132, rus) **35-1242**

Part of snowmelt in the discharge of Himalayan Rivers. Krishnamurthy, K., (1980, p.37-39, 118-120, rus) **35-2813**

Evaluating glacial runoff in a Himalayan river basin. Ramamoorthi, A.S., (1980, p.39-42, 120-124, rus) **35-2814**

Recent fluctuations of glaciers in the eastern part of Nepal Himalayas. Fushimi, H., et al. (1981, p.21-29, eng) **35-3019**

History

Late Wisconsin ice sheets in North America. Mayewski, P.A., et al. (1981, p.67-178 + 3 sheets, eng) **35-2064**

Little America: town at the end of the world. Carter, P.A., (1979, 301p., eng) **35-2863**

International ice patrol. (1981, p.20-31, eng) **35-2884**

Ice sheets and ice melts. Emiliani, C., (1980, p.82-91, eng) **35-3905**

Arctic navigation past, present and future. Maybourn, R., (1981, p.1-18, eng) **35-3906**

Hoarfrost

Electrical properties of Arctic sea ice. Bogorodskii, V.V., et al. (1980, p.6-14, rus) **35-361**

Periodically interrupted, long, narrow ice lanes on high-level windows. Lenggenhager, K., (1980, p.245-248, ger) **35-986**

Prediction of growth parameters of frost deposits in forced convection. White, J.E., et al. (1981, p.3-6, eng) **35-2145**

Computing ice loads on television towers. Degtiarev, A.D., (1980, p.57-62, rus) **35-2985**

Growth and decay of hoarfrost over a heat generating liquid layer. Cheung, F.B., (1981, p.369-375, eng) **35-3517**

Hot oil lines

Thermal regime of hot oil lines. Degtiarev, V.N., et al. (1979, p.5-8, rus) **35-492**

Starting hot oil lines. Tonkoshkurov, B.A., et al. (1980, p.5-8, rus) **35-493**

Thermal insulation for hot oil lines. Frolov, K.D., et al. (1980, p.4-5, rus) **35-924**

Paraffin effect on hot oil line temperature. Zhazykov, K.T., et al. (1980, p.5-8, rus) **35-925**

Oil temperature in hot lines after shutdown. Degtiarev, V.N., (1980, p.9-11, rus) **35-927**

Port Valdez environmental studies, 1976-1978. Colonell, J.M., (1980, p.907-917, eng) **35-985**

Arctic pipeline operation, a different world. Hale, D., ed. (1980, p.22-30, eng) **35-1874**

Lessons learned from constructing the Trans-Alaska oil pipeline. (1978, 56p., eng) **35-2013**

Federal monitoring of Trans-Alaska oil pipeline operations. (1981, 139p., eng) **35-3560**

Thermal and hydraulic design of pipelines for oil and petroleum products. Agapkin, V.M., et al. (1981, 256p., rus) **35-3931**

Hot springs

Baykal-Angarakan section of the Baykal-Amur railroad. Lysak, S.V., et al. (1980, p.139-153, rus) **35-139**

Vegetation of a hot spring area. IUrtsev, B.A., ed. (1981, 141p., rus) **35-3226**

Houses

Village house for Central Yakutia. Turalyssov, K.G., (1980, p.3-5, rus) **35-459**

Wooden panel houses for cold regions. Syrtsov, G., (1980, p.46-49, rus) **35-928**

Workers' houses in swampy permafrost areas. Gudz', A.G., (1980, p.6-7, rus) **35-1645**

Modular construction in permafrost regions. Sobchenko, M.S., et al. (1981, p.16-17, rus) **35-2078**

Stackwall: small log buildings for remote areas. Sparling, A.B., et al. (1981, p.333-347, eng) **35-2512**

Post occupancy evaluation of a planned community in Arctic Canada. Bechtel, R.B., et al. (1980, 27p., eng) **35-2596**

Post occupancy evaluation for communities in hot or cold regions. Bechtel, R.B., et al. (1980, 57p., eng) **35-2600**

Providing thermal stability for mobile houses. Kazantsev, I.A., (1980, p.18-19, rus) **35-2624**

Northern dwellings. Putintsev, E., (1980, p.38-46, rus) **35-3230**

Human factors

Thermokarst processes in construction areas. Viatkina, L.IU., et al. (1978, p.103-104, rus) **35-18**

Seismotectonics and seismicity of the Baykal-Amur railroad construction area. Odintsov, M.M., ed. (1980, 204p., rus) **35-137**

Changes in seismic and permafrost conditions of developed areas. Sharapov, V.G., (1980, p.179-190, rus) **35-142**

Methodology of forecasting natural phenomena in Siberia. Druzhinin, I.P., ed. (1980, 144p., rus) **35-148**

Grazing effect on tundra lichens. Andreev, V.N., (1980, p.201-205, rus) **35-294**

Forecasting the effect of railroad construction on permafrost. Alekseev, V.R., et al. (1975, p.13-18, rus) **35-792**

Forest-strip method of reclaiming eroded soils. Budaev, Kh.R., ed. (1976, 159p., rus) **35-799**

Land reclamation in Transbaikal. Budaev, Kh.R., (1976, p.10-17, rus) **35-800**

Resistance of taiga soils to erosion. Babintseva, R.M., et al. (1976, p.49-54, rus) **35-802**

Environmental protection in tundra. Livenzovskii, IU.A., et al. (1979, p.512-520, eng) **35-961**

Regional geographic forecast, Vol.2: present state and basic trends in changes of natural environments. West Siberia. Makunina, A.A., ed. (1980, 206p., rus) **35-1269**

Prospects of rational utilization of natural resources. Vodovozov, S.A., ed. (1980, 113p., rus) **35-1423**

Preservation of northern land resources. Mikhailov, I.S., et al. (1980, p.35-41, rus) **35-1424**

Environmental protection in the Far North. Freidin, I.I., (1980, p.65-72, rus) **35-1425**

Climatic problems of mountainous regions in the USSR. Bagdasarian, A.B., (1980, p.29-36, rus) **35-1436**

Environmental protection in the Baykal-Amur railroad area. Shlotgauer, S.D., (1979, p.3-10, rus) **35-1519**

Studies in ecology and environmental protection in East Siberia. Kozhova, O.M., (1980, p.96-104, rus) **35-1706**

Future of the environment and global problems in glaciology. Kotlyakov, V.M., (1980, p.153-165, eng) **35-1762**

Shore processes on Sakhalin Island. Nikol'skaia, V.V., (1976, p.64-68, rus) **35-1853**

Industrial activities effect on natural conditions of the Far East. Nikol'skaia, V.V., (1976, p.89-95, rus) **35-1855**

Permafrost and human activities in the Arctic and Subarctic. Pewe, T.L., (1979, p.333-344, eng) **35-1952**

Investigation and analysis of frozen coal handling problems. (1979, c125p., eng) **35-1957**

Identification of lower extremity dynamics during snow skiing. Lee, C.W., et al. (1980, p.123-130, eng) **35-2154**

Surface stability in the presence of industrial activities in permafrost areas. Grave, N.A., ed. (1980, 142p., rus) **35-2184**

Environmental protection in permafrost areas. Grave, N.A., (1980, p.6-12, rus) **35-2185**

Thermal balance and environmental protection of northern landscapes. Pavlov, A.V., (1980, p.13-31, rus) **35-2186**

Radiation regime of disturbed tundra surfaces. Skriabin, P.N., (1980, p.32-36, rus) **35-2187**

Vegetation disturbance on solifluction slopes. Sukhodrovskii, V.L., (1980, p.36-42, rus) **35-2188**

Changes in cryogenic soils due to human activities. Makeev, O.V., (1980, p.13-15, rus) **35-2255**

Induced changes in Subarctic soil temperatures. Pereverzev, V.N., et al. (1980, p.61-62, rus) **35-2271**

Soil preservation in northern territories. Chigir, V.G., (1980, p.188-190, rus) **35-2313**

Geographic aspects of redirection of river courses in West Siberia. Bachurin, G.V., ed. (1979, 135p., rus) **35-2320**

Present condition (1980) of the TAPS gravel workpad. Krzewinski, T.G., et al. (1981, p.678-692, eng) **35-2530**

All-Union symposium on physical bases of recent climatic changes, Moscow, Apr. 23-25, 1979, Vol. 1. (1980, 108p., rus) **35-3049**

Microclimatic changes in taiga geosystems due to human factors. Afanas'ev, V.A., et al. (1980, p.90-100, rus) **35-3052**

Biologic-floristic studies related to environmental protection in polar regions. Shilakov, R.N., ed. (1980, 149p., rus) **35-3062**

All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers. Treshnikov, A.F., ed. (1980, 147p., rus) **35-3103**

Changes in river ice conditions due to powerplant construction. Bakhtin, N.P., (1980, p.45-46, rus) **35-3114**

Applying system analysis to modeling geomorphologic consequences of river diversion. Mikhankov, IU.M., et al. (1980, p.120-123, rus) **35-3129**

Permafrost investigations in economically developing areas of the USSR. Pavlov, A.V., ed. (1980, 183p., rus) **35-3305**

Protection of northern environments. Mel'nikov, P.I., et al. (1980, p.3-8, rus) **35-3306**

Influence of man on tundra vegetation. Andreev, V.N., (1981, p.747-750, eng) **35-3398**

Effect of human activities on river ice conditions. Martynov, B.D., (1980, p.103-109, rus) **35-3463**

Self-cleaning of polluted soils in cold regions. Shchetnikov, A.I., (1980, p.84-89, rus) **35-3477**

Bristol Bay environment, a background study of available knowledge. (1974, 858p., eng) **35-3550**

Handbook of snow: principles, processes, management and use. Gray, D.M., ed. (1981, 776p., eng) **35-3745**

Reforestation of the Valday taiga. Tishkov, A.A., (1979, p.30-69, rus) **35-4119**

Human factors engineering

Timan-Pechora regional industrial complex. Podoplelov, V.P., ed. (1979, 144p., rus) **35-4104**

Humidity

Heat and mass transfer in cellular plastics. Nikitina, L.M., et al. (1979, p.106-109, rus) **35-240**

Steam permeability of concretes and bricks. Shamaeva, A.P., et al. (1979, p.110-113, rus) **35-241**

Ice crystal collection of atmospheric aerosols. Martin, J.J., et al. (1980, p.1628-1638, eng) **35-485**

Concrete structure protection against humidity, frost and salt. Weyer, P., (1980, p.173-177, ger) **35-567**

Radio echo sounding of surface atmospheric layer. Babkin, S.I., et al. (1980, p.36-45, rus) **35-770**

Climate formation. Khromov, S.P., ed. (1980, 183p., rus) **35-1451**

Winter air temperature in West Siberia. Miachkova, N.A., (1980, p.106-118, rus) **35-1452**

Hummocks

Tussock-forming sedge in tundra swamps — Egorova, A.V., (1980, p 44-65, rus) **35-284**

Origin of hummocks western Arctic coast Canada — Mackay, J.R., (1980, p 996-1006, eng) **35-1265**

Calculating evaporation from northern swamps — Moskvin, R.P., et al, (1980, p 67-75, rus) **35-1871**

Interaction of tundra vegetation and thermal cracking in hummocks — Barrett, P., (1979, p 70-79, ger) **35-2646**

Soil oxygen flux in an Alaskan tussock tundra — Stuart, L., (1979, 95p, eng) **35-3766**

Humus

Application of humus analysis to geotechnical prospecting some case histories — Nuutilainen, J., et al, (1977, p 1-5, eng) **35-2720**

Application of humus to exploration — Kokkola, M., (1977, p 104-110, eng) **35-2729**

Hydrates

Preparation of gas from northern fields for distant transportation — Gukhman, L.M., (1980, 161p, rus) **35-2949**

Glaciation effect on migration and accumulation of hydrocarbons — Isaev, V.P., (1980, 213p, rus) **35-2955**

Using liquid fuels at low temperatures — Inglin, B.A., (1980, 207p, rus) **35-2998**

Hydration

Thermal analysis of thick concrete sections — Thurston, S.J., et al, (1980, p 347-357, eng) **35-824**

Hydraulic fill

Dredging in freezing weather — Popov, R.A., (1980, p 98-104, rus) **35-1089**

Washing-up soil in freezing weather — Popov, R.A., et al, (1980, p 103-108, rus) **35-2103**

Deep sea piers in the Arctic — Isaluk, I.G., et al, (1981, p 17-18, rus) **35-3013**

Building earth dams in swamps — Bessonov, V.V., (1981, p 37-38, rus) **35-4231**

Hydraulic jets

Mining perennially frozen placers and ore deposits — Emel'yanov, V.I., ed, (1978, 136p, rus) **35-1077**

Hydraulic jet mining in permafrost areas — Grinevich, V.V., et al, (1978, p 34-37, rus) **35-1080**

Methods of frozen ground excavation — Chechenkov, M.S., (1980, 127p, rus) **35-2881**

Hydraulic method of breaking up frozen soil — Gol'din, R.V., et al, (1981, p 35-38, eng) **35-4153**

Hydraulic structures

Frozen core earth dams — Kronik, Ya.V., et al, (1980, p 52-55, rus) **35-8**

Hydrothermal processes in freezing earth dams — Khaglеev, E.P., et al, (1980, p 55-58, rus) **35-9**

Earth dam construction in permafrost areas — Kuperman, V.I., et al, (1980, p 58-61, rus) **35-10**

Dock protection from drift ice — Vinogradov, E.S., (1979, p 42-45, rus) **35-320**

River ice in hydrotechnical engineering : a review of selected topics — Gerard, R., (1979, p 1-29, eng) **35-404**

Working group on ice forces on structures — Carstens, T., ed, (1980, 146p, eng) **35-507**

Ice forces on fixed, rigid structures — Croasdale, K.R., (1980, p 34-106, eng) **35-509**

Ice forces on fixed, flexible structures — Maattanen, M., (1980, p 107-130, eng) **35-510**

Design standards SNiP II-47-80 "Airports" — Demin, I.D., (1980, p 17-18, rus) **35-612**

Hydro power plant construction in the USSR — Il'inov, D.M., ed, (1979, 597p, eng) **35-685**

Calculating strength of ice floe impact against separate supports — Khrapatyi, N.G., et al, (1978, p 81-85, rus) **35-753**

Winter operation of river navigation structures — Gol'din, E., (1980, p 23, rus) **35-912**

Building underground structures in permafrost — Gevirts, G.I.A., et al, (1980, p 131-140, eng) **35-963**

Calculating ice loads on river structures — Panfilov, D.F., (1980, p 284-289, eng) **35-965**

Temperature fields of concrete and earth dams — Zubkov, V.I., (1980, p 94-98, rus) **35-1035**

Dredging in freezing weather — Popov, R.A., (1980, p 98-104, rus) **35-1089**

Asphalt-polymer concrete lining of hydraulic structures in the North — Stabnikov, N.V., (1980, 176p, rus) **35-1122**

Epoxy-foam thermal insulation and waterproofing of structures in areas of severe climatic conditions — Sakharov, V.I., (1980, 143p, rus) **35-1135**

Giant power plant in the Sayan Mountains — Mikhailov, I.P., et al, (1980, 104p, rus) **35-1271**

Sea ice loads on hydraulic structures — Drabkin, V.V., (1978, p 137-144, rus) **35-1297**

Power plant construction in the North — Fain, I.I., (1980, p 63-66, rus) **35-1298**

Construction of river harbors under severe climatic conditions — Rikhter, O.B., et al, (1980, p 18-20, rus) **35-1299**

Modeling water seepage in earth dams — IAkovleva, T.G., (1979, p 43-54, rus) **35-1623**

Models for studying flooding of earth dams — Ivanov, D.I., (1979, p 55-59, rus) **35-1624**

Water seepage in flooded dams — Ivanov, D.I., (1979, p 60-65, rus) **35-1625**

Construction of hydroelectric developments in the North — Behakov, A.V., et al, (1980, p 68-72, rus) **35-1636**

Reinforced concrete overflow-part of earth dams — Pravdivets, R.P., (1980, p 39-41, rus) **35-1639**

Earth dam subgrades not susceptible to frost heave — Edapin, V.A., (1980, p 28-29, rus) **35-1642**

Concrete and reinforced concrete cast-in-place structures — (1977, 127p, rus) **35-1717**

Urban planning in Siberia — Pertsik, E.N., (1980, 286p, rus) **35-1898**

Dynamics of temperature field of the dam of the Vilyuy hydroelectric power plant — Olovin, B.A., et al, (1980, 48p, rus) **35-2049**

Preventing thermokarst processes in road construction areas — Merenkov, N.D., (1981, p 3-4, rus) **35-2075**

Drainage systems for embankments on permafrost — Solov'ev, G.P., et al, (1981, p 9-11, rus) **35-2077**

Preventing naled formation near hydraulic structures — Metkulov, D.M., (1981, p 38-39, rus) **35-2082**

Filter dam-culvert combinations for permafrost areas — Rabukhin, L.G., (1981, p 47-48, rus) **35-2089**

Passing ice over stone linings of spillways — Pravdivets, R.P., (1981, p 43-46, rus) **35-2099**

Thermal conductivity of frozen of thawed concretes — Sobol', S.V., (1980, p 109-111, rus) **35-2104**

Hydroelectric power plants in the Baykal Amur railroad area — Sheinman, I.B., (1980, 89p, rus) **35-2688**

Seismic stability of hydraulic earth structures — Krasnikov, N.D., (1981, 240p, rus) **35-2689**

Predicting ice regime on lower pools of hydroelectric stations — Nazarenko, S.N., et al, (1980, p 945-949, eng) **35-2772**

Construction of river moorings under severe climatic conditions (a review) — Khaskhachikh, G.D., et al, (1980, 33p, rus) **35-2965**

Moisture migration in earth dams — Chzhan, R.V., (1981, p 117-121, rus) **35-3289**

Permafrost bases of earth dams — Myznikov, I.N., et al, (1981, p 47-53, rus) **35-3339**

Effect of human activities on river ice conditions — Martynov, B.D., (1980, p 103-109, rus) **35-3463**

Synthetic fabrics for stabilizing slopes of earth structures — Marchenko, A.S., (1981, p 5-6, rus) **35-3533**

Construction of the Trans-Siberian Railroad System — Paul', V.P., (1980, 167p, rus) **35-3548**

Offshore Technology Conference, 12th, 1980 Proceedings, Vol 4 — (1980, 646p, eng) **35-3632**

Offshore deck on a multiple leg ice resistant substructure — Khewet, R.M., et al, (1980, p 315-324, eng) **35-3636**

Permafrost : Engineering design and construction — Johnston, G.H., ed, (1981, 540p, eng) **35-3703**

Concrete reinforcement for temperature action — Gol'tsman, V.Kh., (1980, p 815-521, eng) **35-3815**

Concrete dam of the Ust'-Ilim hydroelectric power plant (Field observations and studies) — Eidel'man, S.IA., et al, (1981, 137p, rus) **35-3898**

Timan-Pechora regional industrial complex — Podoplelov, V.P., ed, (1979, 144p, rus) **35-4104**

Cost of power plant construction in the North — Kalinina, A.A., (1979, p 68-75, rus) **35-4105**

New idea to solve storage transport problems without pipe lines — (1981, p 33-35, eng) **35-4126**

Controlling stresses in concrete dams — Epifanov, A.P., et al, (1981, p 5-8, rus) **35-4227**

Acoustic measurement of the frost resistance of concretes — Filonidov, A.M., (1981, p 14-15, rus) **35-4228**

Construction of steam power stations in the North — Takh, M.G., (1981, p 26-28, rus) **35-4229**

Inflatable structures in power engineering — Kul'nev, A.N., (1981, p 32-36, rus) **35-4230**

Construction of tall gravity dams in the North — Efimenko, A.I., et al, (1981, p 4-11, rus) **35-4280**

Cranes used in arch dam construction in the North — Kuperman, V.I., et al, (1981, p 12-15, rus) **35-4281**

Tall block technique of dam construction in the North — Kuperman, V.I., et al, (1981, p 15-18, rus) **35-4282**

Winter concreting — Sadovskii, S.I., et al, (1981, p 19-21, rus) **35-4283**

Hydraulics

Conference on Computer and Physical Modeling in Hydraulic Engineering, 1980 — Ashton, G.D., ed, (1980, 492p, eng) **35-255**

Bottomfast ice and hydrology in northern rivers — Forbes, D.L., (1979, p 175-184, eng) **35-411**

Measurement of the shear stress on the underside of simulated ice covers — Calkins, D.J., et al, (1980, 11p, eng) **35-1723**

Freezing phenomena in soils — Miller, R.D., (1980, p 254-299, eng) **35-1781**

Proceedings of Workshop on Hydraulic Resistance of River Ice, Sep. 1980 — (1981, 301p, eng) **35-2539**

Conveyance capacity with ice cover for the Nashwaak River, N.B. — Burrell, B., et al, (1981, p 34-56, eng) **35-2542**

Resistance of Beauharnois Canal in winter — Tsang, G., (1981, p 57-78, eng) **35-2543**

On river ice hydraulics (a discussion) — Michel, B., (1981, p 182-190, eng) **35-2550**

Hydraulic resistance generated by frazil ice formation — Gosink, J.P., et al, (1981, p 192-194, eng) **35-2551**

Hydraulic and ice conditions in relation to winter and spring floods — Tremblay, P.R., et al, (1981, p 209-226, eng) **35-2553**

Hydraulic resistance of ice cover and ice jams — Gerard, R., (1981, p 296-298, eng) **35-2559**

Rational design of overland flow systems — Matter, C.J., et al, (1980, p 114-121, eng) **35-2571**

Traveling wave solution to the problem of simultaneous flow of water and air through homogeneous porous media — Nakano, Y., (1981, p 57-64, eng) **35-2796**

Soil hydraulic conductivity and moisture retention features — Ingersoll, J., (1981, 11p, eng) **35-3644**

Hydrocarbons

Petroleum industry impact on Alaska's south shore — Jackson, J.B., et al, (1980, 78p, eng) **35-861**

Volatile content of crude oil treated under different weathering conditions — Riley, R.G., et al, (1981, p 109-119, eng) **35-2937**

Glaciation effect on migration and accumulation of hydrocarbons — Isaev, V.P., (1980, 213p, rus) **35-2955**

Proceedings of the 9th Environmental Workshop on Offshore Hydrocarbon Development, 1980 — (1980, 440p, eng) **35-3081**

Ice conditions and offshore hydrocarbon production, Labrador Sea — Wright, B., et al, (1980, p 307-319, eng) **35-3100**

Hydrocarbon gases in sediments from Kodiak Shelf — Kvenvolden, K.A., (1981, p 59-112, eng) **35-3237**

Hydrocarbon gases in near-surface sediment of N. Bering Sea — Kvenvolden, K.A., et al, (1981, p 215-243, eng) **35-3239**

Thermogenic gases in near-surface sediments of Norton Sound, Alaska — Nelson, H., et al, (1981, p 251-260, eng) **35-3241**

Soil pollution by hydrocarbons — Solntseva, N.P., (1981, p 50-58, rus) **35-4278**

Hydrodynamics

Moving boundary problems in the hydrodynamics of porous media — Nakano, Y., (1978, p 125-134, eng) **35-843**

Design of hydrostatically supported sand islands for Arctic drilling — Dowse, B.F.W., (1980, p 49-54, eng) **35-1106**

Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979 — (1980, 534p, eng) **35-1150**

Nearshore hydrodynamics of an Arctic barrier island-lagoon system — Matthews, J.B., (1980, p 67-72, eng) **35-1152**

Origin and mechanism of large-scale climatic oscillations — Seigin, V.IA., (1980, p 1477-1482, eng) **35-1535**

Hydrodynamic effects on iceberg gouging — Lopez, R., et al, (1981, p 55-61, eng) **35-2418**

Proceedings of Workshop on Hydraulic Resistance of River Ice, Sep. 1980 — (1981, 301p, eng) **35-2539**

Investigation of the resistance coefficient for the underside of ice covers — Chee, S.P., et al, (1981, p 23-33, eng) **35-2541**

Hanging dams in the Manitoba Hydro System — Hopper, H.R., et al, (1981, p 195-208, eng) **35-2552**

Wave-ice interaction — Evans, D.V., et al, (1968, 102p, eng) **35-2647**

Hydrogen bonds

Behavior of H2O and D2O at low temperatures — Stanley, H.E., et al, (1980, p 3404-3422, eng) **35-842**

Proton mobility in ice — Kunst, M., et al, (1980, p 465-467, eng) **35-1370**

Hydrogen ion concentration

Effect of snowmelt on water quality — Sigel, D.I., (1980, p 238-242, eng) **35-2797**

Hydrogeochemistry

Hydrology and hydrogeochemistry of the Don Juan Pond area — Harris, H.J.H., (1981, 341p, eng) **35-3607**

Hydrogeology

Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979 — Abstracts of the papers (1979, 211p, rus) **35-245**

International forum of geocryologists — Mel'nikov, P.I., et al, (1979, p 109-119, rus) **35-3470**

Hydrography

Oceanographic data report from Cambridge Bay, N.W.T., Sep 1971-Apr 1972 — (1973, 267p, eng) **35-889**

Snowmelt hydrographs from spatially varied input — Martinec, J., (1979, p 100-111, eng) **35-1124**

Linear distributed model for a partly snowbound catchment — Singh, R., et al, (1979, p 167-177, eng) **35-1125**

Subdivision of the Arctic Ocean into basins — Klenkov, V.V., (1980, p 114-115, rus) **35-1569**

Topographic control of the polar front off southern Greenland — Sommerhoff, G., et al, (1979, p 63-69, ger) **35-2645**

Eastern Bering Sea ice processes — Pease, C.H., (1980, p 2015-2023, eng) **35-3647**

Hydrology

Canadian Hydrology Symposium '70 : Cold Climate Hydrology — (1979, 597p, eng) **35-403**

River ice in hydrotechnical engineering : a review of selected topics — Gerard, R., (1979, p 1-29, eng) **35-404**

Hydrology *(cont.)*
Remote sensing and cold climate hydrology. Kruus, J., (1979, p 403-413, eng) **35-426**
Ice conditions of the Yenisey River. Ershova, I. M., et al, (1977, p 11-14, rus) **35-1291**
Main physiographic features of the Arctic and Southern Oceans. Treshnikov, A.F., et al, (1979, p 37-54, rus) **35-1399**
Hydrology of a small lake in the Canadian high Arctic. Woo, M.-K., (1980, p 227-235, eng) **35-1664**
Studies in ecology and environmental protection in East Siberia. Kozhova, O.M., (1980, p 96-104, rus) **35-1706**
Physics of tundra ponds. Miller, M.G., et al, (1980, p 51-75, eng) **35-1750**
Geohydrology of the Delta-Clearwater area, Alaska. Wilcox, D.E., (1980, 26p, eng) **35-1896**
Climate, snow cover, microclimate and hydrology at Barrow, Alaska. Dingman, S.L., et al, (1980, p 30-65, eng) **35-1931**
Seasonal thermal storage in aquifer for utilization. Yokoyama, T., et al, (1980, p 1646-1654, eng) **35-1964**
Gravel removal studies in Arctic and Subarctic floodplains in Alaska. (1980, 403p, eng) **35-1997**
Cold Regions Science and Technology Bibliography. Cummings, N.H., (1981, p 73-75, eng) **35-2420**
Spray application of waste-water effluent in a cold climate. Cassell, E.A., et al, (1980, p 620-626, eng) **35-2574**
Complex turbulent flow and the processes of heat and mass transfer. Nikitin, I.K., (1980, 238p, rus) **35-2956**
Ice conditions in Arctic river estuaries. Ivanov, V.V., (1980, p 8-11, rus) **35-3105**
River diversion effect on hydrochemistry of estuarine areas. Rusanov, V.P., (1980, p 90-93, rus) **35-3120**
Introduction to abiotic components in tundra. Brown, J., (1981, p 7-9, eng) **35-3377**
Bristol Bay environment, a background study of available knowledge. (1974, 858p, eng) **35-3550**
Snow and precipitation measurements in mountains for hydrologic forecasts. Shentsis, I.D., (1980, p 103-112, rus) **35-3581**
Hydrology and hydrogeochemistry of the Don Juan Pond area. Harris, H.J.H., (1981, 341p, eng) **35-3607**
Effects of placer mining on hydrologic systems in Alaska. Madison, R.J., (1981, 25p, eng) **35-3813**
Hydrological research in Canada. Brown, I.C., comp, (1978, p 247-251, eng) **35-3929**
Soil and permafrost surveys in the Arctic. Linell, K.A., et al, (1981, 279p, eng) **35-4128**
Hydrogeology of karst in the Rawil region. Waldberger, V., (1981, 175p, + maps, ger) **35-4162**

Hydrothermal processes
Changes in northern swamps due to river flow control. Ivanov, K.E., et al, (1980, p 90-105, rus) **35-1430**

Hygroscopic water
Phase composition of sorption moisture at subzero temperature. Efimov, S.S., (1979, p 97-100, rus) **35-238**
Clay soil strength and water saturation. Ivanov, I.P., et al, (1980, p 31-39, rus) **35-1567**

Ice
Multilingual ice terminology. (1977, 40p, eng) **35-489**
World of ice: the natural history of the frozen regions. John, B.S., (1979, 120p, eng) **35-1348**
Dust clouds associated with snow avalanche movement. Kiniluk, I.V., et al, (1980, p 113-120, rus) **35-3582**

Ice accretion
Activities of the Norwegian Meteorological Institute in polar regions. Haland, I., (1979, p 153-178, eng) **35-169**
Surface accumulation on Ross Ice Shelf. Clausen, H.B., et al, (1979, p 68-72, eng) **35-654**
Ice action on Nanisivik wharf, Strathcona Sound, N.W.T., winter 1978-1979. Frederking, R.M.W., (1980, p 558-563, fre) **35-836**
Ice cover formation on rivers. Chizhov, A.N., et al, (1980, p 56-77, rus) **35-1015**
Heat and mass transfer at the lower surface of the Ross Ice Shelf. Zotikov, I.A., et al, (1980, p 27-36, rus) **35-1223**
Mathematical models of artificial ice formation. Sosnovskii, V.V., (1980, p 49-54, rus) **35-1225**
Hailstone formation under a dry regime and in mixed fractions. Battishvili, G.S., (1975, p 140-150, rus) **35-1621**
Detuning for controlling galloping of single conductor transmission lines. Havard, D.G., (1979, 6p, eng) **35-1880**
Observation of rime and glaze deposits in Quebec. Felin, B., (1976, 53p, + Appends, eng) **35-1907**
Icing on structures. Minsk, L.D., (1980, 18p, eng) **35-2003**
Influence of electro-freezing on power line icing. Phan, C.L., et al, (1981, p 15-25, eng) **35-2415**
Superstructure icing study. Wise, J.L., et al, (1980, 10p, + figs, eng) **35-2582**
Snow accumulation on and around solar collectors. Harris, J.R., (1980, p 54-65, eng) **35-3147**
Computer simulation of airfoil icing without runback. Lozowski, E.P., et al, (1981, 8p, eng) **35-3562**
Superstructure icing in Alaskan waters. Wise, J.L., et al, (1980, 30p, eng) **35-3791**
Atmospheric ice accretion on stationary structures. Makkonen, L., (1981, p 595-600, eng) **35-4156**
Trawler icing, a compilation of work done at N.R.C. Stallabrass, J.R., (1980, 103p, eng) **35-4222**

Ice acoustics
Physics of ice and ocean. Bogorodskii, V.V., ed, (1980, 157p, rus) **35-360**
Inherent noise of the Antarctic glacier in the Novolazarevskaya Station area and acoustic attenuations. Gavrilo, V.P., et al, (1980, p 56-61, rus) **35-370**
Underwater acoustic emission of Antarctic icebergs. Gusev, A.V., et al, (1980, p 62-66, rus) **35-371**
Measuring acoustic and electromagnetic wave propagation in sea ice. Bogorodskii, V.V., et al, (1980, p 80-86, rus) **35-375**
Special instruments for acoustic studies in the Arctic Basin. Gusev, A.V., et al, (1980, p 87-93, rus) **35-376**
Acoustic instruments used on drift stations. Bogorodskii, P.V., et al, (1980, p 94-100, rus) **35-377**
Acoustic methods of studying ice cover dynamics. Sosedova, A.L., et al, (1980, p 112-118, rus) **35-380**
Acoustic detection of frazil formation. Hanley, T.O., et al, (1981, p 238-241, eng) **35-2555**

Ice adhesion
Adhesive shear strength of ice to bonded solid lubricants. Jones, J.R., et al, (1972, p 464-471, eng) **35-274**
Stress and velocity in an ice strip, using a Newtonian viscous approximation. Hutter, K., et al, (1980, p 385-403, eng) **35-3811**
Small prototype cone tests, winter 1974-75. Verity, P.H., (1975, 95p, + appends, eng) **35-4214**

Ice age theory
Quaternary ice age of the Qilian Shan area. Guo, P., (1980, p 6-16, chi) **35-80**
Ice age theory and variation of the Earth orbit. Xu, Q., (1980, p 53-57, chi) **35-127**
Ice age theory and a climatic model. Pollard, D., et al, (1980, p 301-319, eng) **35-1167**
Development of the antarctic ice sheet. Meier, S., (1980, p 348-351, 373-376, ger) **35-1415**
Last great ice sheets. Denton, G.H., ed, (1981, 484p, eng) **35-2062**
Basis and division of the ice period in western China. Tsui, T., (1979, p 13-21, chi) **35-2897**

Ice air interface
Heat and mass transfer in the glacier-snow field system. Mazo, V.L., (1980, p 74-79, rus) **35-1229**
International symposium on glacial hydrology. Korzun, V.E., (1980, p 89-90, rus) **35-1232**
Polar ice and atmospheric fluctuations. Wiese, W., (1981, 22p, eng) **35-2050**
Complex full-scale experiment "IAna". Gudkovich, Z.M., et al, (1979, p 7-15, rus) **35-4183**
Modelling ice dissipation in eastern Lake Erie. Rumer, R.R., Jr, et al, (1978, p 194-200, eng) **35-4321**

Ice blasting
Plastic deformation of fresh-water ice. Bogorodskii, V.V., et al, (1980, p 43-50, rus) **35-368**
Icebreaking concepts. Mellor, M., (1980, 18p, eng) **35-2593**

Ice booms
Impact of the Niagara River ice boom on Buffalo's climate. Quinn, F.H., et al, (1980, 31p, eng) **35-2936**
Modeling hydrologic impacts of winter navigation. Daly, S.F., et al, (1981, p 1073-1080, eng) **35-4166**
Ice control arrangement for winter navigation. Perham, R.E., (1981, p 1096-1103, eng) **35-4169**

Ice bottom surface
Geometric properties of the underside of sea ice. Rothrock, D.A., et al, (1980, p 3955-3963, eng) **35-156**
Freezing on the undersurface of the Ross Ice Shelf, Antarctica. Zotikov, I.A., et al, (1979, p 1454-1457, rus) **35-437**
Calculating discharge of icebound rivers. Riazanov, V.S., (1980, p 68-77, rus) **35-1005**
Heat and mass transfer at the lower surface of the Ross Ice Shelf. Zotikov, I.A., et al, (1980, p 27-36, rus) **35-1223**
Biology of the Central Arctic Basin. Vinogradov, M.E., ed, (1980, 260p, rus) **35-1312**
Surface morphology of Arctic Ocean ice. Grishchenko, V.D., (1980, p 33-35, rus) **35-1315**
Cryopelagic biocenoses of the Central Arctic Basin. Kulikov, A.S., (1980, p 111-118, rus) **35-1319**
Sonar measurement of Beaufort Sea ice profiles. Wadhams, P., et al, (1980, p 401-414, eng) **35-1504**
Proceedings of Workshop on Hydraulic Resistance of River Ice, Sep. 1980. (1981, 301p, eng) **35-2539**
Flow in ice covered channels: some fundamentals. Gerard, R., (1981, p 8-22, eng) **35-2540**
Investigation of the resistance coefficient for the underside of ice covers. Chee, S.P., et al, (1981, p 23-33, eng) **35-2541**
Conveyance capacity with ice cover for the Nashwaak River, N.B. Burrell, B., et al, (1981, p 34-56, eng) **35-2542**
Hydraulic resistance of the ice cover in the St. Lawrence River. Witherspoon, D.F., (1981, p 79-93, eng) **35-2544**
Analysis of velocity profiles under ice in shallow streams. Calkins, D.J., et al, (1981, p 94-111, eng) **35-2545**
Characteristics of flow below a rough floating cover. Gogus, M., et al, (1981, p 122-142, eng) **35-2547**
Breakup process and ice jams on the Athabasca River. Andres, D.D., (1981, p 143-161, eng) **35-2548**
On river ice hydraulics (a discussion). Michel, B., (1981, p 182-190, eng) **35-2550**
Hydraulic and ice conditions in relation to winter and spring floods. Tremblay, P.R., et al, (1981, p 209-226, eng) **35-2553**
Limitations to numerical modelling of ice in rivers. Petryk, S., et al, (1981, p 243-262, eng) **35-2556**
Evaluation of ice jam roughness, Thames River, Ontario. Knowles, W.L., et al, (1981, p 281-294, eng) **35-2558**
Hydraulic resistance of ice cover and ice jams. Gerard, R., (1981, p 296-298, eng) **35-2559**
Proposed study of oil and gas under ice. Pistruzak, W.M., (1980, p 37-46, eng) **35-3873**
Studies of oil spill behaviour under ice. Malcolm, J.D., (1980, p 47-54, eng) **35-3874**
Disposition of gas/oil mixtures trapped under ice. Topham, D.R., (1980, p 55-73, eng) **35-3875**
Transport and behaviour of a Prudhoe Bay oil spill. Pritchard, R.S., (1980, p 103-109, eng) **35-4479**

Ice breaking
Deep Freeze 1980 Cruise Report. (1980, 72p, eng) **35-184**
Acoustic effects of breaking sea ice. Bogorodskii, P.V., et al, (1980, p 67-70, rus) **35-372**
Determining ice cover morphology by acoustic measurements. Bogorodskii, P.V., et al, (1980, p 71-75, rus) **35-373**
Icebreaking by hovercraft. Burton, R., (1980, p 78-83, eng) **35-483**
Ice characteristics in Whitefish Bay and St. Marys River in winter. Vance, G.P., (1980, 27p, eng) **35-488**
Remote sounding of sea ice-past, present and future applications. Mercer, J.B., (1980, p 1-22, eng) **35-546**
Icebreaker equipped for scientific studies. Pavlov, et al, (1980, p 43-46, rus) **35-789**
Model of the atomic icebreaker *Arktika*. Kostychev, V., (1980, p 72-74, rus) **35-790**
Results of icebreaker operation. Erokhov, I., (1980, p 18, rus) **35-910**
Maneuverability of icebreakers. Smirnov, V.V., (1980, p 31-32, rus) **35-921**
Breaking ice with gravity waves. Bates, H.F., et al, (1980, p 148-153, eng) **35-1108**
Measurement of flexural waves on a breaking test of sea ice. Ishida, T., (1978, p 79-83, jap) **35-1543**
Icy routes. Nikolaeva, A.G., et al, (1980, 128p, rus) **35-1574**
Pressure ridges and ice resistance to moving ships. Sergeev, G.N., et al, (1980, p 100-104, rus) **35-1594**
Extending the navigation period on rivers. Vinogradova, N., (1980, p 24-25, rus) **35-1606**
Icebreaking concepts. Mellor, M., (1980, 18p, eng) **35-2593**
Icebreaking procedures on the upper Chesapeake Bay. Gamp, H.W., (1981, p 71-78, eng) **35-3361**
Vessel's hull work in ice. Khristov, R., et al, (1981, p 47, rus) **35-3483**
Lateral melting effect on the closeness of pack ice. Appel', I.L., et al, (1980, p 29-44, rus) **35-3491**
Ice conditions in the Arctic Ocean. Arikainen, A.I., et al, (1980, p 83-88, rus) **35-3497**
Longitudinal stiffness analyses for the propulsion shafting systems of the polar class icebreakers. Vassilopoulos, L., et al, (1921, p 179-195, eng) **35-3561**
What is the future of the Northwest Passage. Pharand, D., (1980, p 2-7, fre) **35-3640**
Observed growth of brash ice in ship's tracks. Sandkvist, J., (1980, 23p, + 42 figs, eng) **35-3710**
MI-2 helicopters for Arctic ice surveys. Shatalin, N.V., et al, (1981, p 41-45, rus) **35-3941**
Peculiarities of sea ice breaking by icebreakers. Kupetskii, V.N., (1981, p 89-91, rus) **35-3952**
Use of the ice channeling plow for the prevention of ice barrages. Tsykin, E.N., (1970, 6p, eng) **35-4096**
Forecasting ice cover thickness on rivers. Chernov, I.M., (1981, p 21-28, rus) **35-4301**

Ice breakup
Break-up dates for the Yukon River, Pt 1. Rampart to Whitehorse, 1896-1978. Stephens, C.A., et al, (1979, c50 leaves, eng) **35-133**
Break-up dates for the Yukon River, Pt 2. Alakanuk to Tanana, 1883-1978. Stephens, C.A., et al, (1979, c50 leaves, eng) **35-134**
Forecasting ice-breakup water levels. Liser, I.A., (1980, p 3-8, rus) **35-451**
Solution to spring ice-jam flooding. Loffredo, J.C., (1980, p 82-83, eng) **35-828**
River transport in the North. Zhivotkevich, N., (1980, p 7-9, rus) **35-905**
Ice navigation on rivers. Popov, V., (1980, p 22, rus) **35-911**
Investigations, calculations and forecasts of ice conditions on rivers. Donchenko, R.V., ed, (1980, 118p, rus) **35-1009**
Changes in river ice conditions due to runoff diversion. Buzin, V.A., et al, (1980, p 20-32, rus) **35-1013**

Evaluating ice jam water levels. Buzin, V.A., (1980, p.35-39, rus) 35-1013
Determining ice friction coefficients. Bolotnikov, G.I., et al, (1980, p.88-91, rus) 35-1017
Calculating maximal ice jam water levels. Zhukova, M.V., (1980, p.113-118, rus) 35-1020
Modeling of ice in rivers. Ashton, G.D., (19 , p.14-1-14-26, eng) 35-1127
Classification of floods and their effects on natural environments and economic development of the Ob' and Chul'im river floodplains. Krasheninnikov, M.V., (1976, p.128-136, rus) 35-1191
Spring breakup on Alaskan rivers. Nibler, G.J., (1980, p.207-209, eng) 35-1488
Short-lived damming of ice edge stream, Ellesmere Island. Ballantyne, C.K., et al, (1980, p.487-491, eng) 35-1510
Hydrology of a small lake in the Canadian high Arctic. Woo, M.-K., (1980, p.227-235, eng) 35-1664
Ice force measurement on the Yukon River bridge. McFadden, T., et al, (1981, p.749-777, eng) 35-2536
Discharge, water level relationship for ice cover stability. Carson, R.K., et al, (1981, p.112-120, eng) 35-2546
Breakup process and ice jams on the Athabasca River. Andres, D.D., (1981, p.143-161, eng) 35-2548
Formulas for calculating ice breakup on rivers. Shilina, I.I., (1980, p.63-68, rus) 35-2877
Ice formation and breakup on Lake Champlain. Bates, R.E., (1980, p.125-143, eng) 35-3153
Spring ice jams in stream channels, physical principles and quantitative analysis. Deev, II.A., et al, (1981, 175p., eng) 35-3278
Mathematical model of ice clearance from Lake Baykal. Moskalets, V.F., et al, (1980, p.137-143, rus) 35-3475
Equations for calculating breakup dates of fast ice. Arikainen, A.I., (1980, p.68-76, rus) 35-3495
Spring ice breakup at pipeline river crossing. Grey, B.J., (1978, 22p., eng) 35-3795
Ice jams and meteorological data for three winters, Ottauquechee River, Vt. Bates, R.E., et al, (1981, 27p., eng) 35-3926
Methods of determining ice deterioration. Komov, N.I., (1981, p.51-55, rus) 35-3944
Ice regime of Norton Sound, Bering Sea. Ray, V.M., et al, (1980, p.263-278, eng) 35-4144
Ice disintegration due to thermodynamic processes. Losev, S.M., (1979, p.82-91, rus) 35-4191
Modelling ice dissipation in eastern Lake Erie. Rumer, R.R., Jr., et al, (1978, p.194-200, eng) 35-4321

Ice caves

Mineral films on ice stalactites. Savenko, E.V., (1976, p.21-24, rus) 35-1295
Karst waters in ice caves. Ezhov, B.A., et al, (1976, p.35-40, rus) 35-1296

Ice composition

Underground ice along the Qing-Zang highway. Li, J., et al, (1980, p.31-35, chi) 35-123
Structure and composition of natural ice. Savel'ev, B.A., (1980, 280p., rus) 35-149
Physics of ice and ocean. Bogorodskii, V.V., ed, (1980, 157p., rus) 35-360
Isotopes in CO2 in polar ice. Deuser, W.G., (1979, p.78, eng) 35-658
Subsurface measurements of McMurdo Ice Shelf. Gow, A.J., et al, (1979, p.79-80, eng) 35-659
Nitrogenous chemical composition of antarctic snow and ice. Parker, B.C., et al, (1979, p.80-82, eng) 35-660
Glaciology of dome C area. Bolzan, J.F., et al, (1979, p.100-101, eng) 35-671
Stratospheric sulfate in antarctic snow. Delmas, R., et al, (1980, p.5645-5649, eng) 35-1119
Cryolithology of the Mamontovaya Mountain formations. Kuznetsov, II.V., (1976, p.12-21, rus) 35-1145
Proton mobility in ice. Kunst, M., et al, (1980, p.465-467, eng) 35-1370
Organic admixtures in frozen water-salt systems. Kovalev, O.I., et al, (1980, p.377-379, rus) 35-1388
Infiltration and freezing of sea water in coastal glaciers. Dubrovin, I.I., et al, (1980, p.104-108, rus) 35-1462
Cl-36 in polar ice, rainwater and seawater. Finkel, R.C., et al, (1980, p.93-100, eng) 35-1536
Tritium in ice near Molodezhnaya Station. Herbert, D., et al, (1980, p.91-94, rus) 35-2039
Carbon dioxide and climate: ice and ocean. Thompson, S.L., et al, (1980, p.95-98, eng) 35-2071
Trace elements in snow and ice of west Qiongtailan Glacier, China. Wang, P., et al, (1980, p.77-79, chi) 35-2677
Chemical analysis of natural water in the analysis of ice and snow. Sheng, W., (1980, p.90-91, chi) 35-2681
Chemical concentrations in ice cores from Law Dome. Johnson, B.B., et al, (1981, p.771-776, eng) 35-2885
Primary results of the study on modern glaciers in the region of Mt. Tuomuer. Wang, L., et al, (1980, p.15-18, chi) 35-2912
Lewis Glacier (Mt. Kenya) and possible links tropical climate. Vincent, C.E., et al, (1981, p.63-78, eng) 35-3022
Multi-year sea ice investigation in the East Greenland Current. Overgaard, S., (1980, 69p., eng) 35-3082
Role of the lake winter cover in the phosphorous budget. Wolfe, B.R., (1980, p.170-178, eng) 35-3156
Fission track ages of Marie Byrd Land volcanic rocks. Seward, D., et al, (1980, p.19, eng) 35-3169
Radioactive dating and the compositions of the gas in Antarctic ice. Fireman, E.L., (1980, p.67-68, eng) 35-3177
Nitrogenous chemical composition of antarctic ice and snow. Parker, B.C., et al, (1980, p.79-81, eng) 35-3185
Atmospheric trace gases in association with sea ice. Gosink, T.A., (1980, p.82-83, eng) 35-3186
Isotope methods of studying natural waters. Ferronskii, V.I., ed, (1981, 260p., rus) 35-3296
Variations of the oxygen isotope ratio in glacier ice. Vaikmae, R.A., et al, (1981, p.25-30, rus) 35-3298
Correlation function studies for microwave remote sensing of snow and ice. Vallese, F., et al, (1981, p.685-690, eng) 35-3443
Contribution to the geochemical study of the ice cover on James Ross Island, Antarctic Peninsula. Aristarain, A.J., et al, (1980, p.113-126, spa) 35-3774
Mineral in antarctic ice cores. Mikhishanskii, A.Z., et al, (1980, p.152-158, eng) 35-4148
241Pu/239+240Pu ratios in polar glaciers. Koide, M., et al, (1981, p.239-247, eng) 35-4297

Ice conditions

Ice distribution in the Danish Strait. Kogan, B.A., et al, (1980, p.54-60, rus) 35-31
Studies in snow and ice. Roulet, N.T., ed, (1980, 193p., eng) 35-35
Ice regime of the Indian River, Ontario, during the freezeup. Price, J., (1980, p.110-120, eng) 35-44
Arctic technology. (1980, p.145-218, eng) 35-51
Breakup dates for the Yukon River, Pt.1, Rampart to Whitehorse, 1896-1978. Stephens, C.A., et al, (1979, c50 leaves, eng) 35-133
Sea ice and icebergs. Peters, G.R., (1979, p.41-59, eng) 35-162
On the drift ice conditions in the Atlantic sector of the Antarctic. Vinje, T.E., (1979, p.75-82, eng) 35-164
Radar data for navigation of coastal and ice covered areas. Worsfold, R.D., et al, (1979, p.83-98, eng) 35-165
Assessment of SAR for oil pollution surveillance in the ice environment. Parashar, S.K., et al, (1979, p.99-123, eng) 35-166
Eastern Arctic marine environmental study program. Loken, O.H., (1979, p.139-152, eng) 35-168
Coal loading pier in Svea, Svalbard. Instanes, B., (1979, p.217-232, eng) 35-172
Underground technology for offshore hydrocarbon development in Antarctica. Splettstoesser, J.F., (1979, p.233-245, eng) 35-173
Overview on the seasonal sea ice zone. Weeks, W.F., et al, (1979, p.320-337, eng) 35-178
Evolution of ice research for offshore pack ice operations. O'Rourke, J.C., (1979, p.441-495, eng) 35-179
Ice and iceberg studies using state-of-the-art remote sensing. Lowry, R.T., et al, (1979, p.551-569, eng) 35-180
Forecasting ice conditions on the Saguenay River (Quebec). Watte, C., et al, (1979, p.185-196, fre) 35-412
Ice conditions of the Yenisey River. Chernov, I.M., (1980, p.38-44, rus) 35-452
Ice conditions at the Krasnoyarsk reservoir. Kosmakov, I.V., (1980, p.45-50, rus) 35-453
Ice condition changes induced by river regulation. Rossinskii, K.I., et al, (1980, p.5-19, rus) 35-468
Fast ice regimes of the Beaufort and Chukchi Sea coasts, Alaska. Barry, R.G., et al, (1979, p.129-152, eng) 35-699
Robeson Channel ice drift and oceanographic measurements, 1970-1975. Dunbar, M., et al, (1980, 24p. + 125 figs., eng) 35-887
Long range forcasting of sea ice conditions. Sheremetevskaia, O.I., (1978, p.83-91, rus) 35-1000
Calculating ice conditions in the Caspian Sea. Kruglov, A.A., (1978, p.92-98, rus) 35-1001
Ice formation in the Gulf of Finland. Prokhorova, T.M., (1978, p.139-143, rus) 35-1003
Investigations, calculations and forecasts of ice conditions on rivers. Donchenko, R.V., et al, (1980, 113p., rus) 35-1009
Evaluating changes in river freezing conditions. Donchenko, R.V., et al, (1980, p.12-19, rus) 35-1011
Changes in river ice conditions due to runoff regulation. Buzin, V.A., et al, (1980, p.20-32, rus) 35-1012
Ice conditions on the Danube River. Liapunova, I.B., (1980, p.100-112, rus) 35-1019
Nearshore hydrodynamics of an Arctic barrier island-lagoon system. Matthews, J.B., (1980, p.67-72, eng) 35-1152
Consequences of Arctic river flow control. Krenke, A.N., (1980, p.287-292, rus) 35-1261
Regularities governing changes in regimes of Arctic seas in natural hydrologic periods. Krutskikh, B.A., (1978, 91p., rus) 35-1282
Hydrologic studies and land reclamation in Siberia. Morozov, G.A., ed, (1977, 86p., rus) 35-1289
Ice conditions of the Yenisey River. Ershova, L.M., et al, (1977, p.11-14, rus) 35-1291
Hydrochemical characteristics of Arctic Basin waters. Rusanov, V.P., (1980, p.15-33, rus) 35-1314
Influence of water runoff redistribution on the natural conditions of Siberia. Saks, V.N., ed, (1980, 184p., rus) 35-1331
Changes in taiga due to river flow control. Shirokov, V.M., (1980, p.22-30, rus) 35-1332
Geographic studies related to the river-channel diversion project. Malik, L.K., (1980, p.47-51, rus) 35-1333
Changes induced by stream flow diversion in Siberia. Bachurin, G.V., (1980, p.52-56, rus) 35-1334
Changing the course of rivers in the Arctic. Ivanov, V.V., (1980, p.106-123, rus) 35-1431
Climatic changes due to diverting river courses. Drozdov, O.A., et al, (1980, p.133-149, rus) 35-1432
Sea ice conditions and frequency of radar echoes. Aota, M., et al, (1978, p.115-123, jap) 35-1547
Air deployed oceanographic mooring (ADOM). (1980, 77p., eng) 35-1589
Reservoir effect on heat regime of rivers. Odrova, T.V., (1980, p.90-93, rus) 35-1611
Calculation of the basic components of the ice balance in the Denmark Strait. Antropova, L.V., et al, (1980, 16p., eng) 35-1727
North Atlantic ice conditions, 1979. (1979, 64p., eng) 35-1759
Forecasting ice conditions on rivers. Kalinin, G.S., (1975, p.112-117, rus) 35-1789
Arctic ice trafficability, Arctic Islands area. Hammond, C.W., (1972, 10p., eng) 35-1847
Arctic ice trafficability, Beaufort Sea area. Hammond, C.W., (1972, 9p., eng) 35-1958
Hull resistance test in floe of synthetic ice. (1980, p.1-6, jap) 35-1963
Gravel remo studies in Arctic and Subarctic floodplains in Alaska. (1980, 403p., eng) 35-1997
Clearing ice-clos channels. Shipping channels. Vance, G.P. (1980, 13p., eng) 35-2000
Polar ice and atmospheric fluctuations. Wiese, W., (1981, 22p., eng) 35-2050
Ice drift forecasting in the Bay and Sea of Bothnia. Udin, I., et al, (1976, 40p., eng) 35-2056
Microwave systems for detecting oil slicks in ice-infested waters. (1980, 63p., eng) 35-2106
Ice research program of the Great Lakes Environmental Research Laboratory. Quinn, F.H., (1980, p.1-4, eng) 35-2157
Summary of satellite observations of Great Lakes ice 1974-1980. Clark, J.W., (1980, p.21-33, eng) 35-2159
Ice formation and ice control programs for St. Lawrence Seaway. Hung, S.C., (1980, p.35-37, eng) 35-2160
Continuum sea ice model for a global climate model. Ling, C.H., et al, (1980, p.187-196, eng) 35-2169
Hydrology and hydrochemistry of water bodies in different climatic zones. Ivanov, A.V., ed, (1980, 159p., rus) 35-2331
Port feasibility study, Nome, Alaska. Gadd, P.E., et al, (1981, p.235-248, eng) 35-2506
Freezeup ice jams on the Peace River near Taylor. Keenhan, T., et al, (1981, p.162-181, eng) 35-2549
Hydraulic and ice conditions in relation to winter and spring floods. Tremblay, P.R., et al, (1981, p.209-226 eng) 35-2553
Limitations to numerical modelling of ice in rivers. Petryk, S., et al, (1981, p.243-262, eng) 35-2556
Recent improvements in numerical modelling of river ice. Petryk, S., et al, (1981, p.263-280, eng) 35-2557
Marine transportation system analysis in Alaskan waters. Macpherson, M.D., (1980, 486p., eng) 35-2575
Winter thermal structure, ice conditions and climate of Lake Champlain. Bates, R.E., (1980, 26p., eng) 35-2585
Forecasting ice apperance on the Danube River. Shanochkin, S.V., (1978, p.34-40, rus) 35-2703
Predicting ice regime on lower pools of hydroelectric stations. Nazarenko, S.N., et al, (1980, p.945-949, eng) 35-2772
International ice patrol. (1981, p.20-31, eng) 35-2884
Oceanographic investigations in polar regions of the World Ocean. Blinov, N.I., et al, (1980, 239p., rus) 35-2888
Icebergs. Wang, C., (1979, p.82-83, chi) 35-2909
Proceedings. (1980, 460p., eng) 35-2957
Construction of artificial island in the Beaufort Sea. Boone, D.J., (1980, p.231-247, fre) 35-2961
Ice conditions of the Yenisey River under conditions of the first Lower Angara reservoir. Temnikov, S.N., (1980, p.44-51, rus) 35-2973
Forecasting dates of ice appearance on seas. Sheremetevskaia, O.I., et al, (1980, p.69-76, rus) 35-3000
Variations of sea ice conditions in Lützow-Holm Bay area, in Antarctica in the last 20 years. Kusunoki, K., (1981, p.171-176, eng) 35-3028
All-Union symposium on physical bases of recent climatic changes, Moscow, Apr. 23-25, 1979, Vol. 1. (1980, 108p., rus) 35-3049
Proceedings of the workshop on research in the Labrador region, 1980. (1980, 410p., eng) 35-3090
Patterns of freeze-up in lake Melville. Bobbitt, J., et al, (1980, p.266-286, eng) 35-3098
Environmental aspects of winter navigation into Lake Melville. Gill, R.J., et al, (1980, p.287-306, eng) 35-3099

Ice conditions *(cont.)*

Ice conditions and offshore hydrocarbon production, Labrador Sea. Wright, B., et al, [1980, p 307-319, eng] **35-3100**

Lake Melville ice research. Smith, P.N., [1980, p 398-410, eng] **35-3102**

All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers. Treshnikov, A.F., ed. [1980, 147p., rus] **35-3103**

Changes in Arctic natural conditions due to human activities. Treshnikov, V.F., [1980, p 4-7, rus] **35-3104**

Ice conditions in Arctic river estuaries. Ivanov, V.V., [1980, p 8-11, rus] **35-3105**

Ice conditions of the Pechora Sea after river diversion. Potanin, V.A., et al, [1980, p 37-40, rus] **35-3112**

Forecasting river diversion effect on thermal regime of the bay. Spitsyn, I.P., et al, [1980, p 84-86, rus] **35-3118**

River diversion effect on ice conditions in estuaries. Nalimov, R.V., et al, [1980, p 87-89, rus] **35-3119**

River diversion effect on ice conditions of Arctic seas. Nikiforov, E.G., et al, [1980, p 124-126, rus] **35-3130**

Evaluating variations in salinity of the surface layer of the Kara Sea due to river diversion and its effect on ice conditions. Appel', I.L., et al, [1980, p 127-130, rus] **35-3131**

Moisture cycles in the lower course of the Ob' River and the Kara Sea and their possible variations due to interzonal redistribution of runoff. Butova, I.P., [1980, p 131-135, rus] **35-3132**

Ice gouging on the subarctic Bering shelf. Thor, D.R., et al, [1981, p 286-314, eng] **35-3243**

Geologic processes of the Beaufort Sea shelf and coast. Barnes, P., et al, [1981, p 257-355, eng] **35-3261**

Super sea-ice kettles in the arctic nearshore zone. Reimdeer Island. Reimnitz, E., et al, [1981, p 344-355, eng] **35-3266**

Spring ice jams in stream channels, physical principles and quantitative analysis. Deev, B.V., et al, [1981, 175p., eng] **35-3278**

Cook Inlet environment, a background study of available knowledge. Evans, C.D., et al, [1972, 136p., eng] **35-3359**

Satellite observation of Great Lakes ice, winter 1978-79. Wartha-Clark, J., [1980, 36p., eng] **35-3409**

Ice and offshore Arctic structures, OTC, 13th, 1981 [1981, 485p., eng] **35-3445**

Effect of human activities on river ice conditions. Martynov, B.D., [1980, p 103-109, rus] **35-3463**

Mathematical model for forecasting ice formation dates on seas. Moskal', T.N., [1980, p 45-54, rus] **35-3492**

Equations for long-range forecasts of sea ice conditions. Kovalev, E.G., [1980, p 55-60, rus] **35-3493**

Solar activity effect on ice conditions in oceans. Kovalev, E.G., et al, [1980, p 89-93, rus] **35-3498**

Ice conditions in the Severnaya Zemlya area. Kirillov, A.A., et al, [1980, p 94-100, rus] **35-3499**

Dependence of sea ice conditions on meteorological factors. Kirillov, A.A., et al, [1980, p 101-108, rus] **35-3500**

Relations between air temperature and ice conditions in Arctic seas. Teitel'baum, K.A., [1980, p 109-117, rus] **35-3501**

Age composition of ice in the Arctic Ocean. Zakharov, V.F., [1980, p 118-121, rus] **35-3502**

Determining mean seasonal characteristics of ice conditions. Kirillov, A.A., et al, [1980, p 135-141, rus] **35-3504**

Functional relations among hydrometeorological phenomena. Karklin, V.P., et al, [1980, p 142-145, rus] **35-3505**

Microwave radiance of early fall sea ice at 1.55 cm. Carsey, F.D., et al, [1981, p 989-994, eng] **35-3590**

Potential schemes for offshore Labrador year round production. Wetzel, V.F., et al, [1980, p 293-305, eng] **35-3631**

Offshore Technology Conference, 12th, 1980. Proceedings, Vol 4. [1980, 646p., eng] **35-3632**

Construction of artificial drilling islands in the Beaufort Sea. Boone, D.J., [1980, p.187-195, eng] **35-3633**

Mooring systems and rig anchor release in drilling operations, Arctic. Lasch, J.E., et al, [1980, p 339-344, eng] **35-3638**

Research in sea ice mechanics [1981, 80p., eng] **35-3657**

Outline of the study of seasonal snow and ice in China. Maohuan, H., [1980, p.1-11, eng] **35-3659**

Bering Sea ice project. [1980, 34p., eng] **35-3675**

Cruise report of ice feature observations from the *CCGS Franklin*, summer 1979. Winsor, W.D., et al, [1980, 104p., eng] **35-3701**

Ice conditions in Viscount Sound, Northwest Passage. Allan, A.J., [1980, p 77-104, eng] **35-3702**

Mixing oil with ice. Manning, A.P., Jr., [1981, p.185-189, eng] **35-3737**

Seasonal ice outlook eastern Arctic, 1981. [1981, 2 pieces (15 + 3p.), eng] **35-3769**

WREL, Water Resources Engineering, Luleå: the activities of the division. [1980, 46p., eng] **35-3793**

Erosion and deposition on Arctic shelves. Pavlidis, Iu.A., et al, [1981, p.33-96, rus] **35-3887**

Ice surveys of the Caspian Sea. Valler, F.I., et al, [1981, p.14-18, rus] **35-3935**

Airborne radar for ice surveys. Balandin, V.N., et al, [1981, p 19-21, rus] **35-3936**

Plotting courses for aerial ice surveys. Shil'nikov, V.I., [1981, p 22-24, rus] **35-3937**

Barrage technique of leading ships through sea ice. Shil'nikov, V.I., [1981, p 32-37, rus] **35-3939**

Ice surveying from helicopters. Shatalin, N.V., [1981, p 32-40, rus] **35-3940**

MI-2 helicopters for Arctic ice surveys. Shatalin, N.V., et al, [1981, p 41-45, rus] **35-3941**

Reporting ice observations from helicopters. Kupetskii, V.N., [1981, p 46-68, rus] **35-3942**

Optimal intervals between ice surveys in the Arctic. Bulavkin, V.M., [1981, p 76-78, rus] **35-3949**

Transverse mixing tests in natural streams. Beltaos, S., [1980, p 1607-1625, eng] **35-4127**

Eastern Bering Sea shelf: oceanography and resources. Hood, D.W., ed. [1980, 625p., eng] **35-4136**

Ice growth and distribution in the Bering Sea. McNutt, S.L., [1980, p 141-165, eng] **35-4138**

Nearshore ice characteristics in the eastern Bering Sea. Stringer, W.J., [1980, p 167-187, eng] **35-4139**

Ice regime of Norton Sound, Bering Sea. Ray, V.M., et al, [1980, p 263-278, eng] **35-4144**

Proceedings. Volume 2 [1981, p 711-1378, eng] **35-4164**

Ice problems on the middle Mississippi River. Lovelace, J.T., et al, [1981, p 1081-1087, eng] **35-4167**

Grounded ice hummocks in Arctic seas. Gorbunov, Iu.A., [1979, p 107-110, rus] **35-4193**

Airborne multifrequency radiometry of sea ice. Skou, N., [1980, 198p., eng] **35-4247**

General conditions in arctic areas. Karri, J., [1981, 56p. + 5 figs., fin] **35-4293**

Forecasting maximum water level during ice jamming in the pinch-out area of the Novosibirsk water reservoir (Ob' River). Liser, I.IA., [1981, p 11-20, rus] **35-4300**

Bibliography of continental shelf development, Alaska. Rosier, K., [1977, 415p., eng] **35-4317**

Ice (construction material)

Artificial ice pillars in placer mining. Emel'ianov, V.I., et al, [1978, p 49-73, rus] **35-1082**

Construction of river moorings under severe climatic conditions (a review). Khaskhachikh, G.D., et al, [1980, 33p., rus] **35-2965**

Ice control

Ice formation and ice control programs for St. Lawrence Seaway. Hung, S.C., [1980, p 35-37, eng] **35-2160**

Harnessing frazil ice. Perham, R.E., [1981, p 227-237, eng] **35-2554**

Winter ice removal from stock water ponds. Garton, J.E., et al, [1980, 34p., eng] **35-3406**

Chemicals and abrasives for snow and ice control. Keyser, J.H., [1981, p.580-612, eng] **35-3759**

Snow and ice control on railroads, highways and airports. Minsk, L.D., et al, [1981, p.671-706, eng] **35-3763**

Guideway snow and ice control and roadside maintenance. [1980, 27p., eng] **35-3783**

Rubber in pavements for ice control. Esch, D., [1980, p.34-39, eng] **35-3860**

Use of the ice channeling plow for the prevention of ice barrages. Tsykin, E.N., [1970, 6p., eng] **35-4096**

Nation's highest road is opened to top of Colorado's Mt. Evans. [1981, p.6, eng] **35-4170**

Earth's heat may solve problem of dangerous iced bridge decks. [1981, p.12, eng] **35-4161**

Proceedings. Volume 2 [1981, p 711-1378, eng] **35-4164**

Water supply conveyance problems in winter at high altitudes. Garstka, W.U., et al, [1981, p 735-742, eng] **35-4165**

Modeling hydrologic impacts of winter navigation. Daly, S.F., et al, [1981, p.1073-1080, eng] **35-4166**

Ice control at navigation locks. Hanamoto, B., [1981, p.1088-1095, eng] **35-4168**

Ice control arrangement for winter navigation. Perham, R.E., [1981, p.1096-1103, eng] **35-4169**

Ice engineering design of boat harbors and ports. Wortley, C.A., [1981, p.1104-1113, eng] **35-4170**

Ice cores

Sea ice properties and ice core analysis, Beaufort Sea, 1979. Langhorne, P.J., et al, [1980, 172p., eng] **35-335**

Tales the ice can tell. [1978, p.15-21, eng] **35-401**

Ross Ice Shelf Project 1978-79. Clough, J.W., [1979, p.60, eng] **35-648**

Hot water drilling and coring on Ross Ice Shelf. Browning, J.A., et al, [1979, p.60-61, eng] **35-649**

Subsurface measurements of McMurdo Ice Shelf. Gow, A.J., et al, [1979, p.79-80, eng] **35-659**

Microparticle deposition at South Pole. Mosley-Thompson, E., et al, [1979, p.91-93, eng] **35-665**

Temperatures in a dome C drill hole. Gillet, F., et al, [1979, p.101, eng] **35-672**

Drilling through shelf ice near Novolazarevskaya Station. Korotkevich, E.S., et al, [1979, 11p., eng] **35-1057**

Giant solar flares in antarctic ice. Strothers, R., [1980, p.365, eng] **35-1076**

Studying ice cores from glacier boreholes. Kotlıakov, V.M., et al, [1980, p.22-26, rus] **35-1222**

Heat and mass transfer at the lower surface of the Ross Ice Shelf. Zotikov, I.A., et al, [1980, p.27-36, rus] **35-1223**

Effect of coring and section size on sea ice density. Fokeev, N.V., [1980, p.109-114, rus] **35-1463**

Acidity of polar ice cores. Hammer, C.U., [1980, p.359-372, eng] **35-1500**

Boring core of ice taken from beneath the soil of a landslide. Huzioka, T., et al, [1978, p.179-180, jap] **35-1555**

Analysis of Cl-36 in environmental water samples using an electrostatic accelerator. Elmore, D., et al, [1979, p.22-25, eng] **35-1593**

Solar tracks in the snow. Olson, S., [1980, p.313, 316, eng] **35-1656**

Age of ice in drill holes at Vostok and Vostok-1. Shumskii, P.A., et al, [1980, p.41-48, rus] **35-2030**

Optical axis orientation in continental ice. Portnov, V.G., et al, [1980, p.70-74, rus] **35-2035**

Calculating elastic properties of ice at Vostok Station. Dmitriev, D.N., et al, [1980, p.80-84, rus] **35-2037**

Oxygen-isotope analysis of Novolazarevskaya Glacier shelf ice cores. Gordienko, F.G., et al, [1980, p.85-90, rus] **35-2038**

Glaciological work on the Shackleton Ice Shelf (Jan.-Apr. 1978). Savatugin, L.M., [1980, p.114-118, rus] **35-2044**

Danish deep drill, progress report, February-March 1979. Rand, J., [1980, 37p., eng] **35-2594**

SEASAT imagery of Bering Sea ice. Martin, S., [1980, 17p., eng] **35-2708**

Chemical concentrations in ice cores from Law Dome. Johnson, B.B., et al, [1981, p 771-776, eng] **35-2885**

Anomalous behaviour of Dome C ice core (East Antarctica) studied by mechanical damping measurements. Vassoulle, R., et al, [1980, p 491-498, eng] **35-2887**

Ice core studies: dating the past to find the future. Damsgaard, W., [1981, p 360-361, eng] **35-2893**

Ice core studies from Mt. Kenya, Africa. Thompson, L.G., [1981, p.55-62, eng] **35-3021**

Lewis Glacier (Mt. Kenya) and possible links tropical climate. Vincent, C.E., et al, [1981, p 63-78, eng] **35-3022**

Microparticle concentrations in the Dome C core. Thompson, L.G., et al, [1981, p 227-234, eng] **35-3033**

Fission track ages of Marie Byrd Land volcanic rocks. Seward, D., et al, [1980, p.19, eng] **35-3169**

Characteristics and significance of rock glaciers in southern Victoria Land, Antarctica. Mayewski, P.A., et al, [1980, p 68-69, eng] **35-3178**

Microparticle concentration in the 905-meter Dome C core. Mosley-Thompson, E., et al, [1980, p 71-75, eng] **35-3180**

Polar Ice Coring Office (PICO) drilling activities, 1979-80. Kuivinen, K.C., et al, [1980, p 76-77, eng] **35-3183**

Search for cometary dust in the antarctic ice. King, E.A., et al, [1980, p 78-79, eng] **35-3184**

Recent glacier variations and volcanic eruptions. Porter, S.C., [1981, p 139-142, eng] **35-3366**

Short-term fluctuations in heavy metal concentrations in antarctic snow. Landy, M.P., et al, [1981, p 144-146, eng] **35-3368**

Ice core drilling on Dome C. Lorius, C., et al, [1979, p 26-34, eng] **35-3369**

Microparticle concentration variations linked with climatic change: evidence from polar ice cores. Thompson, L.G., et al, [1981, p 812-815, eng] **35-3773**

Contribution to the geochemical study of the ice cover on James Ross Island, Antarctic Peninsula. Aristarain, A.J., et al, [1980, p 113-126, spa] **35-3774**

911 years of microparticle deposition at the South Pole. Mosley-Thompson, E., [1980, 134p., eng] **35-3809**

Mineral in antarctic ice cores. Miklishanskii, A.Z., et al, [1980, p.152-158, eng] **35-4148**

Ice coring drills

Core drilling through Ross Ice Shelf. Zotikov, I.A., et al, [1979, p.63-64, eng] **35-651**

Effect of coring and section size on sea ice density. Fokeev, N.V., [1980, p.109-114, rus] **35-1463**

New counter-torque devices of a suspended electromechanical drill. Suzuki, Y., [1978, p.163-166, jap] **35-1551**

Drilling experiments with drilling fluids. Zagrivnyi, F.A., et al, [1980, p.119-123, rus] **35-2045**

Danish deep drill, progress report, February-March 1979. Rand, J., [1980, 37p., eng] **35-2594**

Polar Ice Coring Office (PICO) drilling activities, 1979-80. Kuivinen, K.C., et al, [1980, p 76-77, eng] **35-3183**

Ice cover

Storm runoff delays induced by snow and ice. Whiteley, H.R., et al, [1979, p 356-379, eng] **35-423**

Remote sensing and cold climate hydrology. Kruus, J., [1979, p 403-413, eng] **35-426**

Pelagic zone ecosystems of the Arctic Basin. Vinogradov, M.E., et al, [1980, p.5-14, rus] **35-1313**

Remote sensing studies of the water component. Grinberg, A.M., et al, [1980, p 152-154, rus] **35-1923**

Shapes of snow and ice. Takahashi, K., [1980, 119p., jap] **35-2855**

Ice sounding over the Dutch Massif. Behrendt, J.C., et al, [1981, p 3014-3020, eng] **35-3362**

Chemical composition of arctic haze Ny-Alesund, Spitzbergen — Heintzenberg, J., et al, (1981, p 162-171, eng) 35-3487

Lateral melting effect on the closeness of pack ice — Appel', I.I., et al, (1980, p 29-44, rus) 35-3491

Age composition of ice in the Arctic Ocean — Zakharov, V.F., (1980, p 118-121, rus) 35-3502

Problems presented by ice cover to oilspill clean-up in the Beaufort Sea — McGonigal, D., (1980, p 13-25, eng) 35-3870

U.S. Coast Guard Arctic oil spill research program — Febeau, P.A., et al, (1980, p 111-128, eng) 35-3880

Ice cover effect

General introduction (to Resistance to flow in ice covered rivers) — Davar, K.S., (1979, p 32-51, eng) 35-405

Review of flow resistance of consolidated smooth and tough ice covers — Pratte, B.D., (1979, p 52-92, eng) 35-406

Flow resistance of fragmented ice covers (ice jams) — Beltaos, S., (1979, p 93-126, eng) 35-407

Frazil ice and anchor ice and their resistance effect in rivers — Tsang, G., (1979, p 127-138, eng) 35-408

Aufeis (overflow ice) in rivers — Grey, B.J., et al, (1979, p 139-163, eng) 35-409

Bottomfast ice and hydrology in northern rivers — Forbes, D.L., (1979, p 175-184, eng) 35-411

Oil spill control under ice cover — Sittig, M., (1978, 360p (pertinent p 307-310), eng) 35-1116

Marine sediment core descriptions IWSOE 68, 69, 70, Deep Freeze 79 — Anderson, J.B., et al, (1981, 60p., eng) 35-2148

Flow in ice covered channels: some fundamentals — Gerard, R., (1981, p 8-22, eng) 35-2540

Investigation of the resistance coefficient for the underside of ice covers — Chee, S.P., et al, (1981, p 23-33, eng) 35-2541

Conveyance capacity with ice cover for the Nashwaak River, N.B. — Burrell, B., et al, (1981, p 34-56, eng) 35-2542

Resistance of Beauharnois Canal in winter — Tsang, G., (1981, p 57-78, eng) 35-2543

Hydraulic resistance of the ice cover in the St. Lawrence River — Witherspoon, D.F., (1981, p 79-93, eng) 35-2544

Analysis of velocity profiles under ice in shallow streams — Calkins, D.J., et al, (1981, p 94-111, eng) 35-2545

Discharge-water level relationship for ice cover stability — Carson, R.K., et al, (1981, p 112-120, eng) 35-2546

Hanging dams in the Manitoba Hydro System — Hopper, H.R., et al, (1981, p 195-208, eng) 35-2552

Hydraulic resistance of ice cover and ice jams — Gerard, R., (1981, p 296-298, eng) 35-2559

Climatic prospects with antarctic but no arctic ice — Flohn, H., (1979, p 35-51, fre) 35-2576

Illustrations of biological roles of winter lake cover — Adams, W.P., (1980, p 1-18, eng) 35-3143

Environmental assessment of the Alaskan continental shelf. Vol 7 — Biological studies, (1981, 678p., eng) 35-3253

Oceanographic and geologic processes on the Beaufort Sea coast — Truett, J.C., (1981, p 52-108, eng) 35-3254

Characteristics of the Great Whale River plume — Ingram, R.G., (1981, p 2017-2023, eng) 35-3274

Sensitivity of a global circulation model to an oceanic ice cover — Warshaw, M., et al, (1972, 26p., eng) 35-3465

Polar processes and world climate (a brief overview) — Goody, R., (1980, p 1935-1942, eng) 35-3643

Wintertime observations of roll clouds over the Bering Sea — Walter, B.A., (1980, p 2024-2031, eng) 35-3648

Role of polar regions in global climate — Lindzen, R.S., et al, (1980, p 2064-2079, eng) 35-3652

LNG carrier underwater noise study for Baffin Bay — Leggat, L.J., et al, (1981, 14p. + 14 figs., eng) 35-4223

Pulse propagation in the central Arctic Ocean — Kutschale, H.W., (1981, 33 leaves, eng) 35-4256

Ice cover strength

Structure and composition of natural ice — Savel'ev, B.A., (1980, 280p., rus) 35-149

Offshore drilling of engineering-geological wells — Arkhangel'skii, I.V., (1980, 263p., rus) 35-202

Ice characteristics in Whitefish Bay and St. Marys River in winter — Vance, G.P., (1980, 27p., eng) 35-488

Load bearing capacity test on a freshwater ice cover — Tadley, T.E., et al, (1980, 50p., eng) 35-565

Calculating ice cover strength on rivers — Zabelina, E.F., (1980, p 77-84, rus) 35-787

Fracture toughness of sea ice — Urabe, N., et al, (1980, p 29-37, eng) 35-816

Bibliography on northern sea ice and related subjects — Bradford, J.D., comp, (1980, 194p., eng) 35-890

Determining tensile strength of ice — Kozitskii, I.E., (1980, p 78-87, rus) 35-1016

Evaluation of ice-covered water crossings. — Dean, A.M., Jr., (1980, p 443-453, eng) 35-1587

Pressure ridges and ice resistance to moving ships — Sergeev, G.N., et al, (1980, p.100-104, rus) 35-1594

Report on an ice crossing at Riverhurst during the winter of 1974-75. — Eyre, D., et al, (1976, 109p. + numerous figs., eng) 35-1842

Transverse flexure of ice — Panfilov, D.V., (1979, p 1168-1170, eng) 35-2448

Northern community - a search for a quality environment — (1981, 78p., eng) 35-2496

Lake overflow - a hazard to winter travel in northern regions — Nelson, W.G., (1981, p 264-277, eng) 35-2508

Ice force measurement on the Yukon River bridge — McFadden, T., et al, (1981, p 749-777, eng) 35-2536

Research in sea ice mechanics — (1981, 80p., eng) 35-3657

Flexural behavior of ice cover — Svec, O.J., et al, (1981, p 93-101, eng) 35-3666

Snow and ice on lakes — Adams, W.P., (1981, p 437-474, eng) 35-3755

Strain measurements in floating ice platforms — Anderson, K.G., et al, (1980, p 33-53, eng) 35-3837

Methods of determining ice deterioration — Komov, N.I., (1981, p 51-55, rus) 35-3944

Deterioration of ice of different age — Gushchenkov, I.M., et al, (1981, p 56-58, rus) 35-3945

Ice conditions in Laptev Sea — Gudkovich, Z.M., et al, (1979, p 16-19, rus) 35-4184

Equation for calculating melting ice cover on water bodies — Ergin, V.P., (1981, p 29-38, rus) 35-4302

Ice cover thickness

Studies in snow and ice — Roulet, N.T., ed, (1980, 193p., eng) 35-35

Black ice on Elizabeth Lake, Labrador — Russell, B., (1980, p 100-109, eng) 35-43

Ice cover characteristics of two small lakes in the Peterborough area — Heron, R., (1980, p 121-132, eng) 35-45

Winter oxygen loss in three southern Ontario lakes — Jackson, M.B., (1980, p 149-159, eng) 35-47

Aerial survey of ice thickness of the Dufek Massif — Behrendt, J.C., et al, (1980, p 1014-1017, eng) 35-218

Variations of Lewis Glacier, Mount Kenya, 1974-78 — Hastenrath, S., et al, (1979, p 292-297, eng) 35-358

Combined microwave-infrared radiometers for sea ice — Bogorodskii, V.V., et al, (1980, p 23-26, rus) 35-364

Radar technique of studying peat and sapropel deposits — Bogorodskii, V.V., et al, (1980, p 27-29, rus) 35-365

Seasonal variations in sea ice elasticity — Gavrilo, V.P., et al, (1980, p 37-42, rus) 35-367

Acoustic studies of sea ice cover — Gavrilo, V.P., et al, (1980, p 74-69, rus) 35-374

Acoustic methods of studying ice cover dynamics — Sosedova, A.I., et al, (1980, p 112-118, rus) 35-380

Horizontal temperature gradients in ice — Volodin, E.S., et al, (1980, p 153-157, rus) 35-383

Forecasting ice conditions on the Saguenay River (Quebec) — Watte, C., et al, (1979, p 185-196, fre) 35-412

Ice conditions of the Yenisey River — Chernov, I.M., (1980, p 38-44, rus) 35-452

Calculating thickness of melting ice covers — Ergin, V.P., (1980, p 51-55, rus) 35-454

Ice characteristics in Whitefish Bay and St. Marys River in winter — Vance, G.P., (1980, 27p., eng) 35-488

Proceedings, (1980, 505p., eng) 35-545

Electromagnetic properties of sea ice — Bogorodskii, V.V., (1980, p 23-51, eng) 35-547

Sea ice thickness in relation to pressure ridge heights and depths — Wadhams, P., (1980, p 53-75, eng) 35-548

Some tests of a VHF synthetic pulse sea ice thickness sensor — Tam, S.Y.K., et al, (1980, p 305-312, eng) 35-556

Low frequency methods for measuring sea ice thickness — Hoekstra, P., et al, (1980, p 313-330, eng) 35-557

Synthetic pulse radar design. — Keelty, J.M., et al, (1980, p 349-360, eng) 35-559

Active methods for sea ice thickness measurements — Bogorodskii, V.V., (1980, p 361-372, eng) 35-560

Sea ice thickness radar operating in the high frequency band — Hunt, F.R., (1980, p 373-384, eng) 35-561

Technology of an airborne impulse radar — Butt, K.A., et al, (1980, p.385-412, eng) 35-562

Bulk sea ice surveying — Oswald, G.K.A., (1980, p 413-420, eng) 35-563

Stable isotope and radio echo sounding investigations in Taylor Valley. — Drewry, D.J., (1979, p.93-94, eng) 35-666

Geophysical investigation of the dome C area — Bentley, C.R., et al, (1979, p.98-100, eng) 35-670

Point source bubbler systems to suppress ice — Ashton, G.D., (1979, p 93-100, eng) 35-695

Calculating ice cover strength on rivers — Zabelina, E.F., (1980, p.77-84, rus) 35-787

Ice action on Nanisivik wharf, Strathcona Sound, N.W.T., winter 1978-1979 — Frederking, R.M.W., (1980, p.558-563, fre) 35-836

Mathematical model of ice melting — Efroimson, V.A., (1978, p.70-74, rus) 35-998

Investigations, calculations and forecasts of ice conditions on rivers — Donchenko, R.V., ed, (1980, 118p., rus) 35-1009

Calculating ice cover thickness on rivers and lakes — Chizhov, A.N., (1980, p.40-55, rus) 35-1014

Radar sounding of mountain glaciers — Vasilenko, E.V., et al, (1980, p 273-278, rus) 35-1259

Radar sounding of Spitsbergen glaciers — Macheret, Iu.IA., et al, (1980, p.279-286, rus) 35-1260

Ecosystem of Arctic drift ice — Mel'nikov, I.A., (1980, p 61-97, rus) 35-1317

Evaluation of ice-covered water crossings — Dean, A.M., Jr., (1980, p 443-453, eng) 35-1587

Pressure ridges and ice resistance to moving ships — Sergeev, G.N., et al, (1980, p 100-104, rus) 35-1594

Time-dependent surface elevation of an ice slope — Hutter, K., (1980, p 247-266, eng) 35-1820

Guide for operating cars and light trucks on a floating ice sheet — Johnson, P., (1980, 29p., eng) 35-2012

Morphometric features of the antarctic ice cover — Aver'ianov, V.G., (1980, p 5-9, rus) 35-2024

Last great ice sheets: a global view — Hughes, T.J., et al, (1981, p 263-317 + 10 sheets, eng) 35-2068

Great Lakes ice data archive — Hoffman, C.S., (1980, p 5-20, eng) 35-2158

Physical characteristics and life expectancy of tabular antarctic icebergs — Orheim, O., (1980, p 11-18, eng) 35-2198

Airborne impulse radar sounding of sea ice — Rossiter, J.R., et al, (1980, p 187-191, eng) 35-2244

Trends in ice cover development in the Arctic Basin — Vasil'ev, S.V., (1972, p 69-70, rus) 35-2425

Lake overflow - a hazard to winter travel in northern regions — Nelson, W.G., (1981, p 264-277, eng) 35-2508

Maximum thickness and subsequent decay of lake, river and fast sea ice in Canada and Alaska — Bilello, M.A., (1980, 160p., eng) 35-2588

Video-pulse radar for measuring ice thickness — Finkel'shtein, M.I., et al, (1981, 16p., eng) 35-2590

Icebreaking concepts — Mellor, M., (1980, 18p., eng) 35-2593

Evaluation of ice deflectors on the USCG icebreaker *Polar Star* — Vance, G.P., (1980, 37p., eng) 35-2595

Preliminary research on ultrasonic measurement of frozen soil and ice — Fu, R., et al, (1980, p 44-48, chi) 35-2665

Some basic experiments with a vertically-integrated ice sheet model — Oerlemans, J., (1981, p 1-11, eng) 35-2799

Subglacial topography of the Vavilov Ice Dome — Bogorodskii, V.V., et al, (1980, p 192-194, rus) 35-2830

Use of radio-echo measurements in determining the thickness and velocity of an antarctic ice sheet — Bogorodskii, V.V., et al, (1979, p 60-74, eng) 35-2886

Glaciation effect on migration and accumulation of hydrocarbons — Tsarev, V.P., (1980, 213p., rus) 35-2955

Ice cover thickness from radar data — Chizhov, A.N., et al, (1980, p 112-124, rus) 35-2982

Albedo of melting ice cover — Belinson, M.M., et al, (1979, p 108-112, rus) 35-2986

Valley glacier activity in the Transantarctic Mountains — Bentley, C.R., (1981, p 247-251, eng) 35-3036

Mass balance studies in East Antarctica — Morgan, V.I., et al, (1981, p 253-260, eng) 35-3037

Mechanical device for measuring the lake ice thickness — Adams, W.P., et al, (1980, p 189-192, eng) 35-3160

Dome C geophysical survey, 1979-80 — Shabtaie, S., et al, (1980, p 2-5, eng) 35-3165

Utilization of remote sensing in Alaskan permafrost studies — Hall, D.K., (1981, p 676-684, eng) 35-3442

Effect of human activities on river ice conditions — Martynov, B.D., (1980, p 103-109, rus) 35-3463

Vessel's hull work in ice — Khristov, R., et al, (1981, p 47, rus) 35-3483

Modeling a variable thickness sea ice cover — Hibler, W.D., III, (1980, p 1943-1973, eng) 35-3514

Interpretation of monopulse ice radar soundings on two Peruvian glaciers — Jezek, K.C., et al, (1981, p 958-973, eng) 35-3588

Ice-sheet dynamics in Greenland and Antarctica — Thomas, R.H., et al, (1981, p 1012-1022, eng) 35-3593

Glaciological data from JARE-20 — Wada, M., et al, (1981, 43p., eng) 35-3599

South polar surface energy balance variations — Weller, G., (1980, p 2006-2014, eng) 35-3646

Sea ice simulation from a global circulation model — Parkinson, C.L., et al, (1980, p.2080-2091, eng) 35-3653

Final SURSAT Ice Workshop, Toronto, 1980 — (1981, 7 sections, eng) 35-3656

Measure of Arctic sea ice characteristics using microwave scatterometry — Jackson, B.L., et al, (1979, p 278-280, eng) 35-3707

Seasonal ice outlook eastern Arctic, 1981 — (1981, 2 pieces (5 + 3p.), eng) 35-3769

Tidal flexure of Jakobshavns Glacier, West Greenland — Lingle, C.S., et al, (1981, p 3960-3968, eng) 35-3909

Ice surveying methods and results — Borodachev, V.E., ed, (1981, 144p., rus) 35-3933

Detailed ice surveys in the Arctic — Gushchenkov, E.M., (1981, p 49-50, rus) 35-3943

Measuring ice cover thickness in summer — Lazarev, E.I., (1981, p 113-116, rus) 35-3957

Radar measurements of ice cover thickness in the Arctic Ocean. — Finkel'shtein, M.I., et al, (1981, p 117-119, rus) 35-3958

Ice growth and distribution in the Bering Sea — McNutt, S.L., (1980, p 141-165, eng) 35-4138

Ice cover thickness *(cont.)*

Economics of ice navigation in the northern Gulf of Bothnia. Johansson, B.M., [1977, 8p. + appens., eng] **35-4177**

Ice conditions in Laptev Sea. Gudkovich, Z.M., et al. [1979, p.16-19, rus] **35-4184**

Calculating heat spent for sea ice melting. Gudkovich, Z.M., [1979, p.21-27, rus] **35-4186**

Dimensions of ice fields. Romanov, I.P., [1979, p.111-115, rus] **35-4194**

Response of floating ice sheets to moving loads. Beltaos, S., [1981, p.1-8, eng] **35-4217**

Ice discharge from the Shirase drainage basin. Fujii, Y., [1981, p.1-15, eng] **35-4220**

Airborne radio echo sounding on Shirase Glacier. Wada, M., et al. [1981, p.16-25, eng] **35-4221**

Forecasting ice cover thickness on rivers. Chernov, I.M., [1981, p.21-28, rus] **35-4301**

Ice cracks

Creep and fracture of ice and strains of glaciers and sea ice. Goodman, D.J., [1977, 149p. + plates, eng] **35-135**

Thermal cracks in lake ice. Metge, M., [1976, 204p., eng] **35-275**

Laws and mechanisms of apparent brittle fracture of river and lake ice. Carter, D., et al. [1971, 393p., fre] **35-330**

Fracture toughness of sea ice. Urabe, N., et al. [1980, p.29-37, eng] **35-816**

Fracture behavior of ice in Charpy impact testing. Itagaki, K., et al. [1980, 13p., eng] **35-973**

Failure of sea ice by repeated compression. Nohguchi, Y., et al. [1978, p.63-68, jap] **35-1541**

Snow cover of sea ice during the AIDJEX, 1975-1976. Hanson, A.M., [1980, p.215-226, eng] **35-1663**

Physics and mechanics of ice. Tryde, P., [1980, p.556-559, eng] **35-2421**

Acoustic emission and deformation response of finite ice plates. Xirouchakis, P.C., et al. [1981, p.123-133, eng] **35-3448**

Genetic-morphologic classification of cracks in ice covers. Borodachev, V.E., [1981, p.79-84, rus] **35-3950**

Cracks in stationary sea and lake ice. Kalesnik, S.L., [1981, p.85-89, rus] **35-3951**

Morphometric characteristics of drifting ice in Long Strait. Gorbunov, IU.A., et al. [1981, p.129-136, rus] **35-3960**

Ice creep

Creep and fracture of ice and strains of glaciers and sea ice. Goodman, D.J., [1977, 149p. + plates, eng] **35-135**

Constitutive laws for ice. Morland, L.W., [1979, p.101-108, eng] **35-696**

Mechanical properties of polycrystalline ice. Hooke, R.L., et al. [1980, p.263-275, eng] **35-744**

Note on rate process theory and creep response of ice. Hutter, K., [1980, p.335-336, eng] **35-750**

Failure of sea ice by repeated compression. Nohguchi, Y., et al. [1978, p.63-68, jap] **35-1541**

Time-dependent surface elevation of an ice slope. Hutter, K., [1980, p.247-266, eng] **35-1820**

Cyclic loading and fatigue in ice. Mellor, M., et al. [1981, p.41-53, eng] **35-2417**

Physics and mechanics of ice. Tryde, P., [1980, p.556-559, eng] **35-2421**

Ice structure anisotropies and ice flow. Baker, R.W., [1981, p.1043-1044, eng] **35-2716**

Some basic experiments with a vertically-integrated ice sheet model. Oerlemans, J., [1981, p.1-11, eng] **35-2799**

Viscoelastic constitutive laws for ice. Morland, L.W., et al. [1980, 56p., eng] **35-3076**

Martian outflow channels related to ice streams. Lucchitta, B.K., et al. [1981, p.759-763, eng] **35-3363**

Stress and velocity in an ice strip, using a Newtonian viscous approximation. Hutter, K., et al. [1980, p.385-403, eng] **35-3811**

Small scale surface strain measurement on sea ice. Murat, J.R., [1980, p.55-74, eng] **35-3838**

Creep of fresh water ice at high homologous temperatures. Leppävuori, E.K.M., [1976, 162p., eng] **35-4176**

Ice crossings

Thermosiphons for ice crossing construction. Shabanov, P.P., et al. [1980, p.21, rus] **35-503**

Proceedings, Vol.1. [1980, 516p., eng] **35-1583**

Evaluation of ice-covered water crossings. Dean, A.M., Jr., [1980, p.443-453, eng] **35-1587**

Report on an ice crossing at Riverhurst during the winter of 1974-75. Eyre, D., et al. [1976, 109p. + numerous figs., eng] **35-1842**

Arctic ice trafficability, Arctic Islands area. Hammond, C.W., [1972, 10p., eng] **35-1847**

Arctic ice trafficability, Beaufort Sea area. Hammond, C.W., [1972, 9p., eng] **35-1958**

Guide for operating cars and light trucks on a floating ice sheet. Johnson, P., [1980, 29p., eng] **35-2012**

Technology of pipeline construction in Siberia. [1981, p.33-34, rus] **35-2095**

Lake overflow - a hazard to winter travel in northern regions. Nelson, W.G., [1981, p.264-277, eng] **35-2508**

Equation for calculating melting ice cover on water bodies. Ergin, V.P., [1981, p.29-38, rus] **35-4302**

Ice crystal collision

Charge transfer during ice crystal collisions. Gaskell, W., et al. [1980, p.841-854, eng] **35-2339**

Electrification by collisions of ice particles on ice or metal targets. Buser, O., et al. [1977, p.294-301, eng] **35-3777**

Interactions of freely-falling ice crystals. Saunders, C.P.R., [1977, p.309-313, eng] **35-3779**

Ice crystal growth

Growth of ice crystals abnormally extended to the b-axis. Yamami, N., [1980, p.61-66, jap] **35-270**

Growth forms of ice crystals. Yamami, N., [1980, p.67-70, jap] **35-271**

Formation of concentric dislocation loops in ice crystals. Oguro, M., et al. [1981, p.77-80, eng] **35-1069**

All-Union scientific conference on chemistry of low temperatures, Moscow, Nov 28-29, 1979. Abstracts. [1979, 90p., rus] **35-1272**

Thermodynamic analysis of water crystallization. Oleinkov, N.N., et al. [1979, p.76, rus] **35-1273**

Freezing of water solutions of sulfates. Naumov, S.V., et al. [1979, p.79, rus] **35-1275**

Ice removal from frozen salt solutions. Telegina, L.I., et al. [1979, p.80, rus] **35-1276**

Crystallization of precipitation droplets. Kazankova, Z.P., [1975, p.72-76, rus] **35-1617**

Ice crystal formation on AgI particles. Medaliev, Kh.Kh., et al. [1975, p.107-113, rus] **35-1618**

Effect of aerosols on the ice-forming activity. Baklanov, A.M., et al. [1980, p.61-65, eng] **35-1778**

Simple ice phase parametrization. Stephens, M.A., [1979, 122p., eng] **35-1899**

Acoustic detection of frazil formation. Hanley, T.O., et al. [1981, p.238-241, eng] **35-2555**

Lidar measurements in Antarctica. Smiley, V.N., [1980, p.188-190, eng] **35-3194**

Ice thermal diffusion chamber for observing various nucleations. Tomlinson, E.M., [1980, 108p., eng] **35-3468**

Ice crystals grown from the water vapor phase. Gonda, T., et al. [1981, p.60-63, eng] **35-3520**

Introduction to the basic thermodynamics of cold capillary systems. Colbeck, S.C., [1981, 9p., eng] **35-3712**

Interactions of freely-falling ice crystals. Saunders, C.P.R., [1977, p.309-313, eng] **35-3779**

On the orientation of ice crystals in a cumulonimbus cloud. Cho, H.-R., et al. [1981, p.1111-1114, eng] **35-4043**

C-axes growth rate of ice crystals. Simpson, H.C., et al. [1976, p.219-230, eng] **35-4294**

Exchange crystallization freeze desalination process. Johnson, D.W., et al. [1976, p.231-240, eng] **35-4295**

Ice crystal nuclei

Growth of ice crystals abnormally extended to the b-axis. Yamami, N., [1980, p.61-66, jap] **35-270**

Growth forms of ice crystals. Yamami, N., [1980, p.67-70, jap] **35-271**

Optical axis orientation in continental ice. Portnov, V.G., et al. [1980, p.70-74, rus] **35-2035**

Rapid ice building examined in Alaska. [1980, p.10, eng] **35-2857**

Assembly for measuring the size of ice-forming particles. Beliaev, S.P., et al. [1980, p.57-63, rus] **35-2865**

Ice forming properties of copper acetylacetonate. Chochishvili, K.M., et al. [1980, p.31-36, rus] **35-2871**

Effect of electric currents on ice crystal nucleation. Shichiri, T., et al. [1981, p.207-210, eng] **35-3850**

Ice crystal optics

Matrices of light scattering in ice. Volodin, E.S., et al. [1980, p.119-128, rus] **35-381**

Crystal anisotropy in sea ice. Langhorne, P., [1980, p.189-224, eng] **35-552**

Transition layer on the surface on ice. Beaglehole, D., et al. [1980, p.357-363, eng] **35-1063**

Light pillar climatology. Sassen, K., [1980, p.259-262, eng] **35-1486**

Optical axis orientation in continental ice. Portnov, V.G., et al. [1980, p.70-74, rus] **35-2035**

Horizontal cracks in deep ice cores from Vostok Station. Portnov, V.G., [1980, p.75-79, rus] **35-2036**

Some characteristics of the antarctic aerosols. Hogan, A., et al. [1980, p.78-86, eng] **35-3411**

Water content values of ice hydrometeors from aircraft and radar data. Plank, V.G., et al. [1980, p.1293-1299, eng] **35-3865**

Doppler radar spectrum of ice particle fallspeeds. Passarelli, R.E., Jr., et al. [1980, p.1318-1322, eng] **35-3866**

Translational Raman spectrum of hexagonal monocrystalline ice. Faure, P., et al. [1981, p.120-126, fre] **35-3882**

Scheiner's halo: evidence for ice Ic in the atmosphere. Whalley, E., [1981, p.389-390, eng] **35-4249**

Infrared scattering and extinction in water and ice clouds. Sassen, K., [1981, p.185-193, eng] **35-4250**

Ice crystal replicas

Radar reflectivity and precipitation rate. Whinnery, R., et al. [1979, p.212-213, eng] **35-680**

Interactions of freely-falling ice crystals. Saunders, C.P.R., [1977, p.309-313, eng] **35-3779**

Ice crystal size

Fracture strength of polycrystalline ice containing KCl. Ogawa, K., et al. [1978, p.1-9, jap] **35-1171**

Ice fabrics in a vertical flow plane, Barnes Ice Cap, Canada. Hooke, R.L., et al. [1980, p.195-214, eng] **35-1817**

Ice crystals grown from the water vapor phase. Gonda, T., et al. [1981, p.60-63, eng] **35-3520**

Melting electrification of single ice particles in simulated free fall. Martin, P.F., et al. [1977, p.302-308, eng] **35-3778**

Lightning from ice crystals and colliding raindrops. Crabb, J.A., et al. [1977, p.618-622, eng] **35-3781**

Ice crystal structure

Basal inclusions in deformed ice. Rigsby, G.P., et al. [1976, p.951-961, eng] **35-151**

Dipolar correlation factor and permittivity of ice IV and V. Johari, G.P., [1980, p.241-255, eng] **35-249**

Laws and mechanisms of apparent brittle fracture of river and lake ice. Carter, D., et al. [1971, 393p., fre] **35-330**

Internal friction of Antarctic Mizuho ice at low frequency. Nakamura, T., et al. [1979, p.165-171, eng] **35-520**

Brittle to ductile transition in polycrystalline ice under tension. Schulson, E.M., [1979, p.87-91, eng] **35-694**

Transition layer on the surface on ice. Beaglehole, D., et al. [1980, p.357-363, eng] **35-1063**

Formation of concentric dislocation loops in ice crystals. Oguro, M., et al. [1981, p.71-80, eng] **35-1069**

Fracture strength of polycrystalline ice containing KCl. Ogawa, K., et al. [1978, p.1-9, jap] **35-1171**

Snow and cloud physics in Arctic Canada. Magono, C., et al. [1980, p.1656-1664, eng] **35-1414**

Buried glacier ice in West Siberia. Solomatin, V.I., et al. [1921, p.66-77, rus] **35-1422**

Light pillar climatology. Sassen, K., [1980, p.259-262, eng] **35-1486**

Study on ice on Lake Tofutsu. Kawamura, T., et al. [1978, p.85-91, jap] **35-1544**

Arctic sea ice research, 4 - measurements of uniaxial compressive strength. Nohguchi, Y., et al. [1978, p.131-139, jap] **35-1549**

Phase transitions of high pressure ice and water. Yamamoto, K., [1980, p.1841-1845, eng] **35-1672**

Ice fabrics in a vertical flow plane, Barnes Ice Cap, Canada. Hooke, R.L., et al. [1980, p.195-214, eng] **35-1817**

Ice properties in the Beaufort Sea, winter 1979-80. Frederking, R.M.W., et al. [1980, 11p. + 54 figs., eng] **35-1881**

Study of gradient metamorphism by simulation in a cold chamber. Delsol, F., et al. [1978, 42p., fre] **35-1890**

Sea ice anisotropy, electromagnetic properties and strength. Kovacs, A., et al. [1980, 18p., eng] **35-1891**

Optical axis orientation in continental ice. Portnov, V.G., et al. [1980, p.70-74, rus] **35-2035**

Frazil ice in rivers and oceans. Martin, S., [1981, p.379-397, eng] **35-2240**

Airborne impulse radar sounding of sea ice. Rossiter, J.R., et al. [1980, p.187-191, eng] **35-2244**

Oil in sea ice. Lewis, E.L., [1976, 26p., eng] **35-2247**

Ice depolarization statistics for 19-GHz satellite-to-earth propagation. Arnold, H.W., et al. [1980, p.546-550, eng] **35-2412**

Physics and mechanics of ice. Tryde, P., [1980, p.556-559, eng] **35-2421**

Ice structure anisotropies and ice flow. Baker, R.W., [1981, p.1043-1044, eng] **35-2716**

Influence of vapor supersaturation on heterogeneous nucleation. Kartsivadze, A.I., et al. [1980, p.18-30, rus] **35-2870**

Ice crystal shape effect on mixed clouds. Bulkov, M.V., et al. [1980, p.51-63, rus] **35-2991**

Field-controlled ionic charging of ice crystals. Richards, W.G., et al. [1981, p.3199-3202, eng] **35-3370**

Ice crystals grown from the water vapor phase. Gonda, T., et al. [1981, p.60-63, eng] **35-3520**

Depolarization thermocurrents in ice Ih at low temperature. Pissis, P., et al. [1981, p.321-328, eng] **35-3690**

Scattering of light by ice crystals. Volkovitskii, O.A., et al. [1980, p.98-102, eng] **35-4158**

Creep of fresh water ice at high homologous temperatures. Leppävuori, E.K.M., [1976, 162p., eng] **35-4176**

Scheiner's halo: evidence for ice Ic in the atmosphere. Whalley, E., [1981, p.389-390, eng] **35-4249**

Frozen drops observed at Fairbanks, Alaska. Sakurai, K., et al. [1981, p.73-76, eng] **35-4265**

Ice crystals

Creep and fracture of ice and strains of glaciers and sea ice. Goodman, D.J., [1977, 149p. + plates, eng] **35-135**

Sea ice properties and ice core analysis, Beaufort Sea, 1979. Langhorne, P.J., et al. [1980, 172p., eng] **35-335**

Calculating thickness of melting ice covers. Ergin, V.P., [1980, p.51-55, rus] **35-454**

Ice crystal collection of atmospheric aerosols. Martin, J.J., et al. [1980, p.1628-1638, eng] **35-485**

Electric charge of ice crystals and electric potential gradient in winter fog. Endoh, T., (1979, p.49-59, eng) 35-514

Constitutive laws for ice. Morland, L.W., (1979, p.101-108, eng) 35-696

Preparation of polycrystalline ice specimens for laboratory experiments. Cole, D.M., (1979, p.153-159, eng) 35-700

Mechanical properties of polycrystalline ice. Hooke, R.L., et al, (1980, p.263-275, eng) 35-744

Ice forming activity in diffusion chambers. Gorbunov, B.Z., et al, (1980, p.22-29, rus) 35-785

Using a kinetic equation for describing the frazil ice formation process. Abramenkov, N.M., (1980, p.97-104, rus) 35-932

Electrical conductivity of ice from a pond near Showa Station. Nishimura, J., et al, (1978, p.67-76, jap) 35-1176

Speed of movement of fluid crystallization fronts. Zhekamukhov, M.K., (1980, p.40-46, rus) 35-1200

Reflectance of snow at millimeter wavelengths. Anderson, R.C., et al, (1980, 40p., eng) 35-1582

Microwave absorption and scattering by water and ice particles. Abshaev, M.T., et al, (1975, p.40-71, rus) 35-1616

Effect of crystalline phase on hailstone growth. Ekba, I.A.A., et al, (1975, p.151-162, rus) 35-1622

Collecting aerosols on ice crystals using electric charges. Martin, J.J., et al, (1980, p.44-56, eng) 35-1676

Flow of air, water and ice. Embleton, C., et al, (1979, p.39-72, eng) 35-1685

Scattering and absorption by thin flat aerosols. Weil, H., et al, (1980, p.2066-2071, eng) 35-2409

Cyclic loading and fatigue in ice. Mellor, M., et al, (1981, p.41-53, eng) 35-2417

Propane dispersal in supercooled fog. Dinevich, V.A., et al, (1980, p.3-11, rus) 35-2693

Using liquid fuels at low temperatures. Englin, B.A., (1980, 207p., rus) 35-2998

Cryogenic structure of moraines in Zailiyskiy Alatau. Ermolin, E.D., (1980, p.147-153, rus) 35-3330

Fundamentals of cold regions engineering (Pt 9). Higashi, A., (1980, p.33-48, jap) 35-3662

Wave propagation due to rain and ice crystals. Dilworth, J.J., et al, (1981, p.126-132, eng) 35-3884

Wave propagation through snow and ice crystals. Hendry, A., et al, (1981, p.133-139, eng) 35-3885

Ice depolarization at 11.7 and 19 GHz on slant paths in Virginia, USA. Bostian, C.W., et al, (1981, p.148-153, eng) 35-3886

Electron solvation in crystalline ice on a subnanosecond timescale. Warman, J.M., et al, (1981, p.43-46, eng) 35-4013

Scattering of light by ice crystals. Volkovitskii, O.A., et al, (1980, p.98-102, eng) 35-4158

Ice cutting

Projects for transportation technology in Canada, 1979. (1980, 83p., eng) 35-840

Dredging in icebound rivers. Zernov, A., (1980, p.8-9, rus) 35-915

Mechanics of cutting and boring in permafrost. Mellor, M., (1980, 82p., eng) 35-1892

Icebreaking concepts. Mellor, M., (1980, 18p., eng) 35-2593

Potential schemes for offshore Labrador year round production. Wetzel, V.F., et al, (1980, p.293-305, eng) 35-3631

Ice dams

Glacial hydrology of an ice-dammed lake, Ellesmere Island, N.W.T. Blachut, S.P., (1976, 202p., eng) 35-1466

Short-lived damming of ice edge stream, Ellesmere Island. Ballantyne, C.K., et al, (1980, p.487-491, eng) 35-1510

Hanging dams in the Manitoba Hydro System. Hopper, H.R., et al, (1981, p.195-208, eng) 35-2552

Periglacial lakes in Zailiyskiy Alatau. Tokmagambetov, G.A., et al, (1980, p.97-101, 165-170, rus) 35-2824

Impact of floods from glacier-dammed lakes, Yukon, Canada. Young, G.J., (1980, p.101-107, 170-175, rus) 35-2825

Forecasting flooding of glacial rivers. Rist, S., (1980, p.110-111, 178-179, rus) 35-2827

Behavior of a polar ice-dammed lake, Ellesmere Island, Canada. Blachut, S.P., et al, (1981, p.63-74, eng) 35-4084

Ice dating

Quaternary ice age of the Qilian Shan area. Guo, P., (1980, p.6-16, chi) 35-80

Studying ice cores from glacier boreholes. Kotlyakov, V.M., et al, (1980, p.22-26, rus) 35-1222

Acidity of polar ice cores. Hammer, C.U., (1980, p.359-372, eng) 35-1500

German glaciological research in Antarctica. Herbert, D., et al, (1980, p.187-194, ger) 35-2438

Pollen analysis in annual layers of glaciers. Wang, R., et al, (1980, p.87-90, chi) 35-2680

Ice core studies: dating the past to find the future. Dansgaard, W., (1981, p.360-361, eng) 35-2893

Age composition of ice in the Arctic Ocean. Zakharov, V.F., (1980, p.118-121, rus) 35-3502

Glacier margin fluctuations in West Greenland. Gordon, J.E., (1981, p.47-62, eng) 35-4083

History of glaciers in Glacier National Park, Montana. Carrara, P.E., et al, (1981, p.183-196, eng) 35-4091

Ice deformation

Brittle to ductile transition in polycrystalline ice under tension. Schulson, E.M., (1979, p.87-91, eng) 35-694

Mechanical properties of polycrystalline ice. Hooke, R.L., et al, (1980, p.263-275, eng) 35-744

Deflection of a floating ice sheet subjected to a moving load. Pt.2. Takizawa, T., (1978, p.69-78, jap) 35-1542

Inertial period motions of drifting sea ice. Ono, N., (1978, p.107-113, jap) 35-1546

Arctic sea ice decay simulated for a CO2-induced temperature rise. Parkinson, C.L., et al, (1979, p.149-162, eng) 35-1657

On the drift and deformation of sea ice fields in the Bothnian Bay. Lepparanta, M., (1980, 79p., eng) 35-1758

Variation in ice sheet thickness at Vostok and Vostok-1. Shumskii, P.A., et al, (1980, p.49-53, rus) 35-2031

Borehole compression in antarctic ice cover. Shumskii, P.A., et al, (1980, p.54-58, rus) 35-2032

Transverse flexure of ice. Panfilov, D.V., (1979, p.1168-1170, eng) 35-2448

Folds in firn. Waag, C.J., (1981, p.268-273, eng) 35-3688

Ice density

Ice characteristics in Whitefish Bay and St. Marys River in winter. Vance, G.P., (1980, 27p., eng) 35-488

Effect of coring and section size on sea ice density. Fokeev, N.V., (1980, p.109-114, rus) 35-1463

Hailstone formation under a dry regime and in mixed fractions. Bartishvili, G.S., (1975, p.140-150, rus) 35-1621

Tritium in ice near Molodezhnaya Station. Herbert, D., et al, (1980, p.91-94, rus) 35-2039

Influence of electro-freezing on power line icing. Phan, C.L., et al, (1981, p.15-25, eng) 35-2415

Multi-year sea ice investigation in the East Greenland Current. Overgaard, S., (1980, 69p., eng) 35-3082

Correlation function studies for microwave remote sensing of snow and ice. Vallese, F., et al, (1981, p.685-690, eng) 35-3443

Relations between electrical and physical properties of ice. Nikitin, P.A., (1980, p.108-110, rus) 35-3547

Contribution to the geochemical study of the ice cover on James Ross Island, Antarctic Peninsula. Aristarain, A.J., et al, (1980, p.113-126, spa) 35-3774

Ice detection

Preventing the icing of stationary gas-turbine plants. Kuznetsov, A.L., et al, (1980, 120p., rus) 35-1655

Acoustic detection of frazil formation. Hanley, T.O., et al, (1981, p.238-241, eng) 35-2555

Iceberg detection for Canadian frontier production. Lewis, J.C., et al, (1981, p.115-122, eng) 35-3447

Final SURSAT Ice Workshop, Toronto, 1980. (1981, 7 sections, eng) 35-3656

Bering Sea ice project. (1980, 34p., eng) 35-3675

De-icing radar scanners. Hickman, D., (1980, 7p., 4 appends., eng) 35-3772

Detecting massive ground ice in permafrost by geophysical methods. Osterkamp, T.E., et al, (1980, p.27-30, eng) 35-3859

Ice deterioration

Break-up dates for the Yukon River, Pt.1, Rampart to Whitehorse, 1896-1978. Stephens, C.A., et al, (1979, c50 leaves, eng) 35-133

Structure and composition of natural ice. Savel'ev, B.A., (1980, 280p., rus) 35-149

Underwater acoustic emission of Antarctic icebergs. Gusev, A.V., et al, (1980, p.62-66, rus) 35-371

Ice melting in solutions of potassium salts. Bykov, I.U., et al, (1980, p.11-13, rus) 35-632

Maximum thickness and subsequent decay of lake, river and fast sea ice in Canada and Alaska. Bilello, M.A., (1980, 160p., eng) 35-2588

Satellite observation of Great Lakes ice, winter 1978-79. Wartha-Clark, J., (1980, 36p., eng) 35-3409

Methods of determining ice deterioration. Komov, N.I., (1981, p.51-55, rus) 35-3944

Deterioration of ice of different age. Gushchenkov, E.M., et al, (1981, p.56-58, rus) 35-3945

Ice deterioration in the Dickson Island area. Komov, N.I., (1981, p.59-64, rus) 35-3946

Measuring ice cover thickness in summer. Lazarev, E.I., (1981, p.113-116, rus) 35-3957

Ice drills

Evolution of ice research for offshore pack ice operations. O'Rourke, J.C., (1979, p.441-495, eng) 35-179

Resolutions of the Working Session of the Section of Glaciology, Feb. 18-20, 1980. (1980, p.20-22, rus) 35-1221

Heat and mass transfer at the lower surface of the Ross Ice Shelf. Zotikov, I.A., et al, (1980, p.27-36, rus) 35-1223

New rig for ice platform drilling. Gaude, E., et al, (1981, p.41-44, eng) 35-1960

Drills for ice and permafrost. Nikolaev, A.F., et al, (1979, p.14-16, rus) 35-2620

Ice core drilling on Dome C. Lorius, C., et al, (1979, p.26-34, eng) 35-3369

Ice edge

Geological survey of east antarctic continental margin. Anderson, J.B., et al, (1979, p.142-144, eng) 35-678

Calculating ice edge movements in seas. Nikolaev, S.G., (1978, p.75-82, rus) 35-999

Calculation of the basic components of the ice balance in the Denmark Strait. Antropova, I.V., et al, (1980, 16p., eng) 35-1727

Marine mammals inhabiting the Baffin Bay North Water in winter. Finley, K.J., et al, (1980, p.724-738, eng) 35-2171

SEASAT imagery of Bering Sea ice. Martin, S., (1980, 17p., eng) 35-2708

Glaciation effect on migration and accumulation of hydrocarbons. Tsatev, V.P., (1980, 213p., rus) 35-2955

Forecasting dates of ice formation in Arctic seas. Zakharov, V.F., (1980, p.61-67, rus) 35-3494

Bering Sea ice edge properties. Bauer, J., et al, (1980, p.2045-2055, eng) 35-3650

Variations in antarctic sea ice distribution. Dobromyslov, V.V., et al, (1981, p.40-44, eng) 35-3904

Recent fluctuations in sea ice distribution in the eastern Bering Sea. Niebauer, H.J., (1980, p.133-140, eng) 35-4137

Ice growth and distribution in the Bering Sea. McNutt, S.L., (1980, p.141-155, eng) 35-4138

Nearshore ice characteristics in the eastern Bering Sea. Stringer, W.J., (1980, p.167-187, eng) 35-4139

Bering Sea ice-edge phenomena. Martin, S., et al, (1980, p.189-211, eng) 35-4140

Hydrologic observations in Laptev Sea. Gudkovich, Z.M., et al, (1979, p.38-44, rus) 35-4187

Ice elasticity

Calculating elastic properties of ice at Vostok Station. Dmitriev, D.N., et al, (1980, p.80-84, rus) 35-2037

Viscoelastic constitutive laws for ice. Morland, L.W., et al, (1980, 56p., eng) 35-3076

Acoustic emission and deformation response of finite ice plates. Xirouchakis, P.C., et al, (1981, p.123-133, eng) 35-3448

Strain measurements in floating ice platforms. Anderson, K.G., et al, (1980, p.33-53, eng) 35-3837

Tubular transducer for in situ stress measurements in sea ice. Frederking, R., (1980, p.165-192, eng) 35-3842

Ice electrical properties

Electric charge of ice crystals and electric potential gradient in winter fog. Endoh, T., (1979, p.49-59, eng) 35-514

Proceedings. (1980, 505p., eng) 35-545

Sea ice electrical properties measured with borehole radar and reflectometer. Davis, J.L., (1980, p.155-187, eng) 35-551

Low frequency methods for measuring sea ice thickness. Hoekstra, P., et al, (1980, p.313-330, eng) 35-557

Microwave measurements of salt thickness. Unterberger, R.R., (1980, p.331-347, eng) 35-558

Electrical conductivity of ice from a pond near Showa Station. Nishimura, J., et al, (1978, p.67-76, jap) 35-1176

Airborne impulse radar sounding of sea ice. Rossiter, J.R., et al, (1980, p.187-191, eng) 35-2244

Charge transfer during ice crystal collisions. Gaskell, W., et al, (1980, p.841-854, eng) 35-2339

Dielectric coefficient of ice and its use in glaciological research. Li, W., (1980, p.51-53, chi) 35-2667

Anomalous behaviour of Dome C ice core (East Antarctica) studied by mechanical damping measurements. Vassoille, R., et al, (1980, p.491-498, eng) 35-2887

Multi-year sea ice investigation in the East Greenland Current. Overgaard, S., (1980, 69p., eng) 35-3082

Deep geoelectric and electromagnetic soundings at Dome C. Thyssen, F., et al, (1980, p.69-71, eng) 35-3179

Utilization of remote sensing in Alaskan permafrost studies. Hall, D.K., (1981, p.676-684, eng) 35-3442

Dielectric properties and passive remote sensing of low-salinity sea ice. Hallikainen, M., (1980, 78p., eng) 35-3559

Interpretation of monopulse ice radar soundings on two Peruvian glaciers. Jezek, K.C., et al, (1981, p.958-973, eng) 35-3588

Depolarization thermocurrents in ice Ih at low temperature. Pissis, P., et al, (1981, p.321-328, eng) 35-3690

Contribution to the geochemical study of the ice cover on James Ross Island, Antarctic Peninsula. Aristarain, A.J., et al, (1980, p.113-126, spa) 35-3774

Electrical processes in atmospheres. (1977, 865p., eng) 35-3775

Electrification by collisions of ice particles on ice or metal targets. Buser, O., et al, (1977, p.294-301, eng) 35-3777

Melting electrification of single ice particles in simulated free fall. Martin, P.F., et al, (1977, p.302-308, eng) 35-3778

Ice erosion

Theory of aufeis and streambed erosion. Carlson, R.F., (1979, p.197-205, eng) 35-413

Sediment displacement in the Ottauquechee River, 1975-1978. Martinson, C., (1980, 14p., eng) 35-974

Ice erosion *(cont.)*
Martian outflow channels related to ice streams. Lucchitta, B.K., et al, (1981, p.759-763, eng) **35-3363**

Ice floes
Oil in moving pack: laboratory study. Metge, M., et al, (1979, p.225-264, eng) **35-175**
Calculating strength of ice floe impact against separate supports. Khrapatyi, N.G., et al, (1978, p.81-85, rus) **35-753**
Horizontal coherency of the motion of summer Arctic sea ice. Colony, R., et al, (1980, p.1281-1289, eng) **35-1052**
Modeling of ice in rivers. Ashton, G.D., (1979, p.14-1-14-26, eng) **35-1127**
Stepping up ship passage through sluices. Kluev, V., et al, (1980, p.38-39, rus) **35-1604**
Snow cover of sea ice during the AIDJEX, 1975-1976. Hanson, A.M., (1980, p.215-226, eng) **35-1663**
Ice transport in Great Lakes. Rumer, R.R., Jr., et al, (1979, 275p., eng) **35-1773**
Hull resistance test in floe of synthetic ice. (1980, p.1-6, jap) **35-1963**
Inertial oscillations in ice floe motion, Beaufort sea. Khandekar, M.L., (1980, p.1-14, eng) **35-2457**
Spring ice jams in stream channels, physical principles and quantitative analysis. Deev, R.A., et al, (1981, 175p., eng) **35-3278**
Lateral melting effect on the closeness of pack ice. Appel', I.L., et al, (1980, p.29-44, rus) **35-3491**
Recent developments in strainmeter design. Moore, S., et al, (1980, p.97-125, eng) **35-3840**
Ice and oil research at Hydraulics Research Division, NWRI. Tsang, G., (1980, p.33-35, eng) **35-3872**
Observations of oil behaviour in ice floes and the 1977 *Ethel* H. spill. Deslauriers, P.C., (1980, p.87-94, eng) **35-3877**
Visual evaluation of sea ice packing. Borodachev, V.E., (1981, p.65-71, rus) **35-3947**
Correlation between geometric parameters of ice floes. Losev, S.M., (1981, p.92-96, rus) **35-3953**
Morphometric characteristics of drifting ice in Long Strait. Gorbunov, Iu.A., et al, (1981, p.129-136, rus) **35-3960**
Anticipated oil-ice interactions in the Bering Sea. Martin, S., (1980, p.223-243, eng) **35-4142**
Ice drift in the Laptev Sea. Gorbunov, Iu.A., et al, (1979, p.45-65, rus) **35-4188**
Ice disintegration due to thermodynamic processes. Losev, S.M., (1979, p.82-91, rus) **35-4191**

Ice fog
Electric charge of ice crystals and electric potential gradient in winter fog. Endoh, T., (1979, p.49-59, eng) **35-514**
Weather and flights of airplanes and helicopters. Astapenko, P.D., et al, (1980, 280p., rus) **35-1362**
Air pollution in Alaska. Benson, C.S., et al, (1980, p.210-215, eng) **35-1469**
Ice fog suppression in Arctic communities. M'Sadden, T., (1980, p.54-65, eng) **35-1971**

Ice forecasting
Evolution of ice research for offshore pack ice operations. O'Rourke, J.C., (1979, p.441-495, eng) **35-179**
Forecasting ice-breakup water levels. Liser, I.A., (1980, p.3-8, rus) **35-451**
Long range forcasting of sea ice conditions. Sheremetevskaia, O.I., (1978, p.83-91, rus) **35-1000**
Calculating ice conditions in the Caspian Sea. Kruglov, A.A., (1978, p.92-98, rus) **35-1001**
Evaluating changes in river freezing conditions. Donchenko, R.V., et al, (1980, p.12-19, rus) **35-1011**
Changes in river ice conditions due to runoff diversion. Buzin, V.A., et al, (1980, p.20-32, rus) **35-1012**
Long range forecasts of ice formation on rivers. Shanochkin, S.V., (1980, p.92-99, rus) **35-1018**
Ice conditions on the Danube River. Liapunova, I.B., (1980, p.100-112, rus) **35-1019**
Calculation of the basic components of the ice balance in the Denmark Strait. Antropova, L.V., et al, (1980, 16p., eng) **35-1727**
Forecasting ice conditions on rivers. Kalinin, G.S., (1975, p.112-117, rus) **35-1789**
Ice drift forecasting in the Bay and Sea of Bothnia. Udin, I., et al, (1976, 40p., eng) **35-2056**
Ice research program of the Great Lakes Environmental Research Laboratory. Quinn, F.H., (1980, p.1-4, eng) **35-2157**
Superstructure icing study. Wise, J.L., et al, (1980, 10p. + figs., eng) **35-2582**
Hydrology. Grushevskii, M.S., ed, (1978, 224p., rus) **35-2699**
Forecasting ice apperance on the Danube River. Shanochkin, S.V., (1978, p.34-40, rus) **35-2703**
Predicting ice regime on lower pools of hydroelectric stations. Nazarenko, S.N., et al, (1980, p.945-949, eng) **35-2772**
Forecasting ice breakup on rivers. Lubovikova, Z.P., (1980, p.29-34, rus) **35-2876**
Formulas for calculating ice breakup on rivers. Shilina, L.I., (1980, p.63-68, rus) **35-2877**
Forecasting dates of ice appearance on seas. Sheremetevskaia, O.I., et al, (1980, p.69-76, rus) **35-3000**
Ice formation and breakup on Lake Champlain. Bates, R.E., (1980, p.125-143, eng) **35-3153**
Iceberg detection for Canadian frontier production. Lewis, J.C., et al, (1981, p.115-122, eng) **35-3447**
Mathematical model of ice clearance from Lake Baykal. Moskalets, V.F., et al, (1980, p.137-143, rus) **35-3475**
Mathematical model for forecasting ice formation dates on seas. Moskal', T.N., (1980, p.45-54, rus) **35-3492**
Equations for long-range forecasts of sea ice conditions. Kovalev, E.G., (1980, p.55-60, rus) **35-3493**
Forecasting dates of ice formation in Arctic seas. Zakharov, V.F., (1980, p.61-67, rus) **35-3494**
Forecasting ice conditions in the Anadyr Bay. Arikainen, A.I., et al, (1980, p.77-82, rus) **35-3496**
Solar activity effect on ice conditions in oceans. Kovalev, E.G., et al, (1980, p.89-93, rus) **35-3498**
Ice conditions in the Severnaya Zemlya area. Kirillov, A.A., et al, (1980, p.94-100, rus) **35-3499**
Functional relations among hydrometeorological phenomena. Karklin, V.P., et al, (1980, p.142-145, rus) **35-3505**
Development and prospects of space glaciology. Kotlakov, V.M., (1981, p.7-15, rus) **35-3539**
Bering Sea ice project. (1980, 34p., eng) **35-3675**
Superstructure icing forecasting guide for Alaska waters. (1980, 5p., eng) **35-3790**
Superstructure icing in Alaskan waters. Wise, J.L., et al, (1980, 30p., eng) **35-3791**
Use of similitude in analyzing aircraft windshield anti-icing performance. Ross, R., (1980, p.830-832, eng) **35-3852**
Vessel icing - know where to expect it. Comiskey, A., (1976, p.6-7, eng) **35-3924**
Vessel icing forecasts. Ball, J., (1979, p.10-11, eng) **35-3925**
Icebergs on the Grand Banks: oil and gas considerations. Lewis, J., et al, (1981, p.109-114, eng) **35-4014**
Problems of the Arctic and the Antarctic, collection of articles, Vol. 48, 1976. Treshnikov, A.F., ed, (1981, 173p., eng) **35-4129**
Calculation of air temperature in numerical models of redistribution of ice. Appel', I.L., (1981, p.23-28, eng) **35-4130**
Salinity and thermal state of Bering Sea waters as indices of development of the Chukchi flaw lead in June. Arikainen, A.I., (1981, p.75-82, eng) **35-4134**
Polex-North-76 (scientific results) Part 2. Treshnikov, A.F., ed, (1979, 194p., rus) **35-4182**
Trawler icing: a compilation of work done at N.R.C. Stallabrass, J.R., (1980, 103p., eng) **35-4222**
Forecasting maximum water level during ice jamming in the pinch-out area of the Novosibirsk water reservoir (Ob' River). Liser, I.A., (1981, p.11-20, rus) **35-4300**
Forecasting ice cover thickness on rivers. Chernov, I.M., (1981, p.21-28, rus) **35-4301**

Ice formation
Ice regime of the Indian River, Ontario, during the freezeup. Price, J., (1980, p.110-120, eng) **35-44**
Structure and composition of natural ice. Savel'ev, B.A., (1980, 280p., rus) **35-149**
Horizontal temperature gradients in ice. Volodin, E.S., et al, (1980, p.153-157, rus) **35-383**
Aufeis (overflow ice) in rivers. Grey, B.J., et al, (1979, p.139-163, eng) **35-409**
Ice formation on silver iodide particles. Gorbunov, B.Z., et al, (1980, p.57-63, rus) **35-768**
Airborne equipment for sampling ice forming aerosols. Berezinskii, N.A., et al, (1980, p.105-110, rus) **35-771**
Ice forming activity in diffusion chambers. Gorbunov, B.Z., et al, (1980, p.22-29, rus) **35-785**
Formation of ice laminae in freezing moist grounds. Danielian, I.U.S., et al, (1980, p.103-107, rus) **35-874**
Using a kinetic equation for describing the frazil ice formation process. Abramenkov, N.M., (1980, p.97-104, rus) **35-932**
Classification of cryogenic processes. Vtiurin, B.I., et al, (1980, p.13-22, rus) **35-950**
Periodically interrupted, long, narrow ice lanes on high-level windows. Lenggenhager, K., (1980, p.245-248, ger) **35-986**
Calculating ice conditions in the Caspian Sea. Kruglov, A.A., (1978, p.92-98, rus) **35-1001**
Ice formation in the Gulf of Finland. Prokhorova, T.M., (1978, p.139-143, rus) **35-1003**
Model of the river freezing process. Donchenko, R.V., (1980, p.3-11, rus) **35-1010**
Evaluating changes in river freezing conditions. Donchenko, R.V., et al, (1980, p.12-19, rus) **35-1011**
Ice cover formation on rivers. Chizhov, A.N., et al, (1980, p.56-77, rus) **35-1015**
Long range forecasts of ice formation on rivers. Shanochkin, S.V., (1980, p.92-99, rus) **35-1018**
Modeling of ice in rivers. Ashton, G.D., (1979, p.14-1-14-26, eng) **35-1127**
Mathematical models of artificial ice formation. Sosnovskii, A.V., (1980, p.49-54, rus) **35-1225**
Freezing of artificial rain drops. Sosnovskii, A.V., (1980, p.54-59, rus) **35-1226**
Properties of artificial ice in skating rings. Likhtenshtein, E.L., et al, (1980, p.249-254, rus) **35-1253**
Sprinkling systems for producing artificial ice. Gordeichik, A.V., et al, (1980, p.254-260, rus) **35-1254**
Icing characteristics of low altitude, supercooled layer clouds. Revision. Jeck, R.K., (1980, 68p., eng) **35-1579**
Ice crystal formation on AgI particles. Mesiahev, Kh.Kh., et al, (1975, p.107-113, rus) **35-1618**
Hailstone formation under a dry regime and in mixed fractions. Bartishvili, G.S., (1975, p.140-150, rus) **35-1621**
Polynya development in the Cape Thompson-Point Hope region, Alaska. Carleton, A.M., (1980, p.205-214, eng) **35-1662**
Solidification in two-phase flow. Petrie, D.J., et al, (1980, p.784-786, eng) **35-1680**
Effect of aerosols on the ice-forming activity. Baklanov, A.M., et al, (1980, p.61-65, eng) **35-1778**
Cement setting at positive and subzero temperatures. Pal'kin, A.P., et al, (1979, p.275-279, eng) **35-1779**
Cryolithogenesis as an independent type of lithogenesis. Popov, A.I., (1979, p.7-25, rus) **35-1828**
Observation of rime and glaze deposits in Quebec. Felin, B., (1976, 53p. + Appends., eng) **35-1907**
Study of a Belgian pingo rampart. Bastin, B., et al, (1974, p.341-357, fre) **35-1995**
Frazil ice in rivers and oceans. Martin, S., (1981, p.379-397, eng) **35-2240**
Soil moisture migration in freezing soils. Ershov, E.D., et al, (1976, p.89-91, eng) **35-2405**
Influence of electro-freezing on power line icing. Phan, C.L., et al, (1981, p.15-25, eng) **35-2415**
Thermokarst in Arctic regions of the USSR and abroad. Belorusova, Zh.M., (1972, p.41-43, rus) **35-2424**
Hanging dams in the Manitoba Hydro System. Hopper, H.R., et al, (1981, p.195-208, eng) **35-2552**
Acoustic detection of frazil formation. Hanley, T.O., et al, (1981, p.238-241, eng) **35-2555**
Winter thermal structure, ice conditions and climate of Lake Champlain. Bates, R.E., (1980, 26p., eng) **35-2585**
Propane dispersal in supercooled fog. Dinevich, V.A., et al, (1980, p.3-11, rus) **35-2693**
Forecasting ice apperance on the Danube River. Shanochkin, S.V., (1978, p.34-40, rus) **35-2703**
Mass balance and its relationship with characteristics of glaciers. Xie, Z., (1980, p.1-10, chi) **35-2910**
Primary results of the study on modern glaciers in the region of Mt. Tuomuer. Wang, L., et al, (1980, p.15-18, chi) **35-2912**
Effects of dendritic ice formation in water pipes. Gilpin, R.R., (1977, p.693-699, eng) **35-2944**
Using liquid fuels at low temperatures. Englin, B.A., (1980, 207p., rus) **35-2998**
Forecasting dates of ice appearance on seas. Sheremetevskaia, O.I., et al, (1980, p.69-76, rus) **35-3000**
Antarctic sea ice growth and oceanic heat flux. Allison, I., (1981, p.161-170, eng) **35-3027**
Patterns of freeze-up in lake Melville. Bobbitt, J., et al, (1980, p.266-286, eng) **35-3098**
Ice formation and breakup on Lake Champlain. Bates, R.E., (1980, p.125-143, eng) **35-3153**
Freeze-out of nutrients from lake ice. Jones, R., et al, (1980, p.193-195, eng) **35-3161**
Formation of sediment-laden sea ice. Osterkamp, T.E., et al, (1981, p.641-662, eng) **35-3268**
One-dimensional melting problem. Yuen, W.W., et al, (1979, p.120-126, eng) **35-3355**
Satellite observation of Great Lakes ice: winter 1978-79. Wartha-Clark, J., (1980, 36p., eng) **35-3409**
Effect of human activities on river ice conditions. Martynov, B.D., (1980, p.103-109, rus) **35-3463**
Mathematical model of ice clearance from Lake Baykal. Moskalets, V.F., et al, (1980, p.137-143, rus) **35-3475**
Arctic surface waters and ice cover stability. Zakharov, V.F., (1980, p.122-134, rus) **35-3503**
Ice formation in a pipe with transition and turbulent flows. Gilpin, R.R., (1981, p.363-368, eng) **35-3516**
Model of rotating convective rolls in water over a freezing front. Azouni, M.A., (1981, p.450-454, eng) **35-3521**
Physical framework for describing the genesis of ground ice. Pavlik, H.F., (1980, p.531-548., eng) **35-3555**
Melting electrification of single ice particles in simulated free fall. Martin, P.F., et al, (1977, p.302-308, eng) **35-3778**
Mining excavations in ice-bearing granites. Gol'dtman, V.G., (1976, p.73-76, rus) **35-3832**
Ice in the polar regions of the moon. Lanzerotti, L.J., et al, (1981, p.3949-3950, eng) **35-3908**
Antarctic glacial chronology reflected in Ross Sea sediments. Balshaw, K.M., (1981, 140p., eng) **35-3915**
Ice jams and meteorological data for three winters, Ottauquechee River, Vt. Bates, R.E., et al, (1981, 27p., eng) **35-3926**
Relationships between different genetic types of ground ice. Klimovskii, I.V., et al, (1980, p.103-114, rus) **35-4000**
Anticipated oil-ice interactions in the Bering Sea. Martin, S., (1980, p.223-243, eng) **35-4142**
Ice regime of Norton Sound, Bering Sea. Ray, V.M., et al, (1980, p.263-278, eng) **35-4144**

Statistical features of sea ice ridging in the Gulf of Bothnia — Lepparanta, M., (1980, 46p., eng) 35-4181
Polex-North-76 (scientific results) Part 2 — Treshnikov, A.F., ed. (1979, 194p., rus) 35-4182
Complex full-scale experiment "LAna" — Gudkovich, Z.M., et al. (1979, p.7-15, rus) 35-4183

Ice friction

Ship resistance in thick brash ice — Mellor, M., (1980, p.305-321, eng) 35-748
Ice friction against ship's body — Vinogradov, E.S., (1976, p.86-90, rus) 35-935
Determining ice friction coefficients — Bolotnikov, G.I., et al. (1980, p.88-91, rus) 35-1017
Effect of coring and section size on sea ice density — Fokeev, N.V., (1980, p.109-114, rus) 35-1463
Friction between sea ice and other objects — Tushima, K., et al. (1978, p.141-161, jap) 35-1550
Pressure ridges and ice resistance to moving ships — Sergeev, G.N., et al. (1980, p.100-104, rus) 35-1594
Hydrodynamic effects on iceberg gouging — Lopez, R., et al. (1981, p.55-61, eng) 35-2418
Skiing — Perla, R., et al. (1981, p.709-740, eng) 35-3764
Proceedings of the Workshop on Sea ice Field Measurement, St. John's, 1980 (1980, 360p., eng) 35-3835
Field measurement of kinematic friction between ice and rigid structures — Comfort, G., et al. (1980, p.303-321, eng) 35-3847
Coefficient of ice-solid friction — Oksanen, P., (1980, 73p., eng) 35-3883
Small prototype cone tests, winter 1974-75 — Verity, P.H., (1975, 95p. + appends., eng) 35-4214

Ice growth

Acoustic studies of sea ice cover — Gavrilo, V.P., et al. (1980, p.74-69, rus) 35-374
Simple energy balance model of ice segregation — Outcalt, S., (1980, p.145-151, eng) 35-729
Using a kinetic equation for describing the frazil ice formation process — Abramenkov, N.M., (1980, p.97-104, rus) 35-932
Methods of studying hailstone structure — Bartishvili, G.S., et al. (1975, p.114-121, rus) 35-1619
Rapid ice-sheet growth and initiation of the last glaciation — Johnson, R.G., et al. (1979, p.119-134, eng) 35-1776
Formation of large naleds — Kolotaev, V.N., (1980, p.37-45, rus) 35-1867
Annual report No.12, Contract N00014-76-C-0234, NR 307-252 (1980, 26p., eng) 35-2055
Preventing naled formation near hydraulic structures — Merkulov, D.M., (1981, p.38-39, rus) 35-2082
Prediction of growth parameters of frost deposits in forced convection — White, J.F., et al. (1981, p.3-6, eng) 35-2145
Morphology of ice structure in a pipe at or near transition Reynolds numbers — Gilpin, R.R., (1979, p.89-94, eng) 35-2238
Heat budget of the Greenland ice sheet — Ambach, W., (1979, p.44-54, ger) 35-2643
Rapid ice building examined in Alaska (1980, p.10, eng) 35-2857
Role of naleds in water balance of river basins — Lebedev, V.M., et al. (1980, p.86-93, rus) 35-2879
Factors affecting the ice nucleation temperature in water pipes — Gilpin, R.K., (1978, p.466-471, eng) 35-2945
Bedrock heave in the central Canadian Arctic — Dyke, L.D., (1981, p.157-167, eng) 35-3085
Ice formation and breakup on Lake Champlain — Bates, R.E., (1980, p.125-143, eng) 35-3153
Crust behavior in simultaneous melting on a submerged flat plate — Ganguli, A., et al. (1979, p.40-53, eng) 35-3348
Stefan-like problems in finite geometry — El-Genk, M.S., et al. (1979, p.69-80, eng) 35-3350
Boundary system with convection at the solid-liquid interface — Nansteel, M.W., et al. (1979, p.112-119, eng) 35-3354
Growth and decay of hoarfrost over a heat generating liquid layer — Cheung, F.B., (1981, p.369-375, eng) 35-3517
Flexural strength of ice grown from chemically impure melts — Timco, G.W., (1981, p.81-92, eng) 35-3665
Observed growth of brash ice in ship's tracks — Sandkvist, J., (1980, 23p. + 42 figs., eng) 35-3710
Snow and ice on lakes — Adams, W.P., (1981, p.437-474, eng) 35-3755
Occurrence of ice layers at the base of high arctic snowpacks — Woo, M.-K., et al. (1981, p.225-230, eng) 35-4095
Ice growth and distribution in the Bering Sea — McNutt, S.L., (1980, p.141-165, eng) 35-4138
Atmospheric ice accretion on stationary structures — Makkonen, L., (1981, p.595-600, eng) 35-4156
Physical mechanics of aufeis growth — Kane, D.L., (1981, p.186-195, eng) 35-4219
Surface heat loss and frazil ice production in the St Lawrence River — Shen, H.T., (1980, p.996-1001, eng) 35-4254

Ice heat flux

Melting of antarctic fast ice — Nazintsev, Iu.L., (1980, p.97-101, rus) 35-1460
Investigation of the heat transfer at the liquid solid interface of rapidly melting ice — Fredley, J.E., (1980, 87p., eng) 35-1591
Thermal regime of ice cover during thaw — Klokov, V.D., (1980, p.23-28, rus) 35-2027
Antarctic sea ice growth and oceanic heat flux — Allison, I., (1981, p.161-170, eng) 35-3027
Effect of sea ice on a general circulation model of the Southern Hemisphere — Simmonds, I., (1981, p.193-206, eng) 35-3030

Ice heat loss

Heat exchange at surface of built-up ice platform during construction — Nakawo, M., (1980, p.323-333, eng) 35-749

Ice islands

Geologic processes on the Beaufort Sea shelf (Oct.-Dec. 1979) — Barnes, P., et al. (1980, p.193-249, eng) 35-1158
New rig for ice platform drilling — Gaude, E., et al. (1981, p.41-44, eng) 35-1960
Flexural response of a tabular ice island to ocean swell — Goodman, D.J., et al. (1980, p.23-27, eng) 35-2200
Canadian field activities in ice engineering, Pt. 1 — Nakawo, M., (1981, p.107-114, jap) 35-4270

Ice jams

Flow resistance of fragmented ice covers (ice jams) — Beltaos, S., (1979, p.93-126, eng) 35-407
Solution to spring ice-jam flooding — Loffredo, J.C., (1980, p.82-83, eng) 35-828
Interpretation of Alberta ice jams data — Michel, B., (1980, 15p., eng) 35-839
Ice navigation on rivers — Popov, V., (1980, p.22, rus) 35-911
Investigations, calculations and forecasts of ice conditions on rivers — Donchenko, R.V., ed. (1980, 118p., rus) 35-1009
Calculating maximal ice jam water levels — Zhukova, M.A., (1980, p.113-118, rus) 35-1020
Modeling of ice in rivers — Ashton, G.D., (1979, p.14-1-14-26, eng) 35-1127
Problems in meteorology and hydrology of Siberia (1976, 218p., rus) 35-1189
Classification of floods and their effects on natural environments and economic development of the Ob' and Chul'm river floodplains — Krasheninnikov, M.V., (1976, p.128-136, rus) 35-1191
Study and preservation of water resources (1971-1973) — Shablevskaia, V.A., ed. (1976, 128p., rus) 35-1366
Calculating flooding during ice jams — Orlova, I.B., (1976, p.87-89, rus) 35-1368
Passing ice over stone linings of spillways — Pravdivets, Iu.P., (1981, p.43-46, rus) 35-2099
Proceedings of Workshop on Hydraulic Resistance of River Ice, Sep. 1980 (1981, 301p., eng) 35-2539
Characteristics of flow below a rough floating cover — Gogus, M., et al. (1981, p.122-142, eng) 35-2547
Breakup process and ice jams on the Athabasca River — Andres, D.D., (1981, p.143-161, eng) 35-2548
Freezeup ice jams on the Peace River near Taylor — Keenhan, T., et al. (1981, p.162-181, eng) 35-2549
On river ice hydraulics (a discussion) — Michel, B., (1981, p.182-190, eng) 35-2550
Evaluation of ice jam roughness, Thames River, Ontario — Knowles, W.L., et al. (1981, p.281-294, eng) 35-2558
Hydraulic resistance of ice cover and ice jams — Gerard, R., (1981, p.296-298, eng) 35-2559
Predicting ice regime on lower pools of hydroelectric stations — Nazarenko, S.N., et al. (1980, p.945-949, eng) 35-2772
Temporary bridges in permafrost areas — Rasskazov, I.D., et al. (1981, p.6-8, rus) 35-2843
Spring ice jams in stream channels, physical principles and quantitative analysis — Deev, Il'A., et al. (1981, 175p., eng) 35-3278
Ice jams and meteorological data for three winters, Ottauquechee River, Vt. — Bates, R.E., et al. (1981, 27p., eng) 35-3926
Ice surveys of the Caspian Sea — Valler, F.I., et al. (1981, p.14-18, rus) 35-3935
Use of the ice channeling plow for the prevention of ice barrages — Tsykin, E.N., (1970, 6p., eng) 35-4096
Modeling hydrologic impacts of winter navigation — Daly, S.F., et al. (1981, p.1073-1080, eng) 35-4166
Ice control arrangement for winter navigation — Perham, R.E., (1981, p.1096-1103, eng) 35-4169
Forecasting maximum water level during ice jamming in the pinch-out area of the Novosibirsk water reservoir (Ob' River) — Liser, I.IA., (1981, p.11-20, rus) 35-4300

Ice lenses

Pressure distribution in frozen soils — Groenevelt, P.H., et al. (1979, p.582-591, eng) 35-436
Simple energy balance model of ice segregation — Outcalt, S., (1980, p.145-151, eng) 35-729
Geophysical study of a palsa field at Poste-de-la-Baleine, Ungava — Seguin, M.K., et al. (1979, p.327-337, fre) 35-1048
Model for the prediction of ice lensing and frost heave in soils — Gilpin, R.R., (1980, p.918-930, eng) 35-1492
Freezing phenomena in soils — Miller, R.D., (1980, p.254-299, eng) 35-1781
"Viviers" in the Hautes Fagnes and pingos — Pissart, A., (1974, p.359-381, fre) 35-1996
Design and construction of drainage systems — Tulacy, A.IA., (1980, 191p., rus) 35-3233
Frost heave mechanics — Konrad, J.-M., (1980, 472p., eng) 35-3405
Physical framework for describing the genesis of ground ice — Pavlik, H.F., (1980, p.531-548., eng) 35-3555
Soil and permafrost conditions in the Alaskan Beaufort Sea — Miller, D.L., et al. (1980, p.325-338, eng) 35-3637
Uniaxial compressive strength of segregated ice in soil — Ohrai, T., et al. (1981, p.83-96, eng) 35-4267

Ice loads

Dynamic structural response of a massive pier — Upsett, A.W., et al. (1979, 42p., eng) 35-116
Ice flow through straits — Pritchard, R.S., et al. (1979, p.61-74, eng) 35-163
Thermal cracks — lake ice — Metge, M., (1976, 204p., eng) 35-275
Designing overhead power lines for mountains — Tikhanova, O.P., et al. (1980, p.49-53, rus) 35-311
Dock protection from drift ice — Vinogradov, E.S., (1979, p.42-45, rus) 35-320
Impact properties of St. Lawrence River ice — Michel, B., et al. (1971, 78p., fre) 35-329
Working group on ice forces on structures — Carstens, T., ed. (1980, 146p., eng) 35-507
Thermal ice forces — Kjeldgaard, J.H., et al. (1980, p.1-33, eng) 35-508
Ice forces on fixed, rigid structures — Croasdale, K.R., (1980, p.84-106, eng) 35-509
Ice forces on fixed, flexible structures — Maattanen, M., (1980, p.107-130, eng) 35-510
Review of buckling analyses of ice sheets — Sodhi, D.S., et al. (1980, p.131-146, eng) 35-511
Calculating strength of ice floe impact against separate supports — Khrapatyi, N.G., et al. (1978, p.81-85, rus) 35-753
Dynamic tests and analysis of a massive pier subjected to ice forces — Montgomery, C.J., et al. (1980, p.432-441, fre) 35-835
Projects for transportation technology in Canada, 1979 (1980, 83p., eng) 35-840
Calculating ice loads on river structures — Panfilov, D.I., (1980, p.284-289, eng) 35-965
Review of technology for Arctic offshore oil and gas recovery, Vol.1 — Sackinger, W.M., (1980, 95p., eng) 35-1061
Report of the Workshop on Arctic Oil and gas Recovery, 1980 — Sackinger, W.M., (1980, 38p., eng) 35-1062
Wooden structures for the North — Dmitriev, P.A., (1980, p.15-12, rus) 35-1086
Mechanical properties of sea ice — Shapiro, L.H., et al. (1979, p.196-202, eng) 35-1111
Modeling of ice in rivers — Ashton, G.D., (1979, p.14-1-14-26, eng) 35-1127
Sea ice loads on hydraulic structures — Drabkin, V.V., (1978, p.137-144, rus) 35-1297
Deformation compensator performance in freezing pipelines — Damilova, N.P., (1980, p.111-115, rus) 35-1365
Friction between sea ice and other objects — Tushima, K., et al. (1978, p.141-161, jap) 35-1550
Feasibility of helicopter support Seek Frost — Mernia, R.I., (1980, 54p., eng) 35-1578
Single and double reaction beam load cells for measuring ice forces — Johnson, P.R., et al. (1980, 17p., eng) 35-1724
Icing on structures — Minsk, L.D., (1980, 18p., eng) 35-2003
Crustal movements and gravity variations related to ice load — Dietrich, R., (1980, p.47-51, ger) 35-2433
Ice force measurement on the Yukon River bridge — McFadden, T., et al. (1981, p.249-277, eng) 35-2536
Cost of ice damage to shoreline structures during navigation — Carey, K.L., (1980, 33p., eng) 35-2599
Temporary bridges in permafrost areas — Rasskazov, I.D., et al. (1981, p.6-8, rus) 35-2843
Ice and steep slopes present design challenges for arctic production islands (1980, p.24-28, eng) 35-2858
Evaluation of Ontario shoreline protection materials — Carmichael, T.J., et al. (1980, p.248-262, fre) 35-2962
Computing ice loads on television towers — Degtiarev, A.D., (1980, p.57-62, rus) 35-2985
Ice loads on bridge piers — Koren'kov, V.A., (1980, p.10-11, rus) 35-3004
Deep sea piers in the Arctic — Isaluk, I.G., et al. (1981, p.17-18, rus) 35-3013
Ice and offshore Arctic structures, OTC, 13th, 1981 (1981, 485p., eng) 35-3445
Resistance of concrete walls to high concentrated ice loads — Gerwick, B.C., et al. (1981, p.425-436, eng) 35-3450
Steel production structure for the Alaskan Beaufort Sea — Boaz, I.B., et al. (1981, p.449-458, eng) 35-3452
Ice force prediction using a limited driving force approach — Vivatrat, V., et al. (1981, p.471-485, eng) 35-3454
Vessel's hull work in ice — Khristov, R., et al. (1981, p.47-, rus) 35-3483
Offshor Technology Conference, 12th, 1980 Proceedings, Vol.4 (1980, 646p., eng) 35-3632

Ice loads *(cont.)*

Effect of pile-ups and rubble fields on ice-structure interaction forces. Bercha, F.G., et al, [1980, p.297-305, eng] **35-3634**

Development of ice resistant offshore structures. Oshima, M., et al, [1980, p.307-314, eng] **35-3635**

Offshore deck on a multiple leg ice resistant substructure. Kliewer, R.M., et al, [1980, p.315-324, eng] **35-3636**

Proceedings of the Workshop on Sea ice Field Measurement, St. John's, 1980. [1980, 360p., eng] **35-3835**

Relationship of stress and strain in sea ice. Denner, W.W., [1980, p.5-32, eng] **35-3836**

Tubular transducer for in situ stress measurements in sea ice. Frederking, R., [1980, p.165-192, eng] **35-3842**

OSI ice stress sensor. Johnson, J.B., et al, [1980, p.193-207, eng] **35-3843**

Ice loads acting on the ship's hull during interaction with ice. Edwards, R., et al, [1980, p.237-274, eng] **35-3845**

Measurements of ice breaking loads. Iyer, S.H., [1980, p.275-302, eng] **35-3846**

Field measurement of kinematic friction between ice and rigid structures. Comfort, G., et al, [1980, p.303-321, eng] **35-3847**

Instrumentation of a small island to measure pack ice forces. Jones, J.M., [1980, p.323-342, eng] **35-3848**

Ice force measurements in Finnish lighthouses. Maattanen, M., [1980, p.343-353, eng] **35-3849**

Modeling hydrologic impacts of winter navigation. Daly, S.F., et al, [1981, p.1073-1080, eng] **35-4166**

Ice engineering design of boat harbors and ports. Wuttley, C.A., [1981, p.1104-1113, eng] **35-4170**

Shape and size of ice ridges in the Baltic Sea. Kemonen, A., [1976, 11p. + append., eng] **35-4175**

Ice-induced stresses in the shell of an icebreaker. Varsta, P., [1977, 26p. + figs., eng] **35-4178**

On plastic design of an ice-strengthened frame. Varsta, P., et al, [1978, 54p., eng] **35-4179**

Ice pressure and ice-induced stresses on an icebreaker. Vuorio, J., et al, [1979, 50p., eng] **35-4180**

Small prototype cone tests, winter 1974-75. Venty, P.H., [1975, 95p. + appends., eng] **35-4214**

Using bridges as river crossings of power lines. Shchepetkin, A.N., et al, [1981, p.64-66, rus] **35-4285**

Bibliography of continental shelf development, Alaska. Rosier, K., [1977, 415p., eng] **35-4317**

Ice mechanics

Formation and movements of rock streams. Tiurin, A.I., et al, [1978, p.104-106, rus] **35-19**

Sea ice: its characteristics, distribution and role in human affairs. Ferguson, N.B., [1980, p.169-176, eng] **35-49**

Creep and fracture of ice and strains of glaciers and sea ice. Goodman, D.J., [1977, 149p. + plates, eng] **35-135**

POAC '79, Trondheim, Norway, Aug. 1979, Vol.3. [1979, 608p., eng] **35-161**

Sea ice and icebergs. Peters, G.R., [1979, p.41-59, eng] **35-162**

Rock glacier movements. Titkov, S.N., [1979, p.34-42, rus] **35-187**

Thermal cracks in lake ice. Metge, M., [1976, 204p., eng] **35-275**

Impact properties of St. Lawrence River ice. Michel, B., et al, [1971, 78p., fre] **35-329**

Laws and mechanisms of apparent brittle fracture of river and lake ice. Carter, D., et al, [1971, 393p., fre] **35-330**

Acoustic method of studying ice rheology. Nikitin, V.A., [1980, p.30-36, rus] **35-366**

Flow resistance of fragmented ice covers (ice jams). Beltaos, S., [1979, p.93-126, eng] **35-407**

Sea Ice-75: Dynamical report. Udin, I., et al, [1976, 64p., eng] **35-531**

Remote sounding of sea ice-past, present and future applications. Mercer, J.B., [1980, p.1-22, eng] **35-546**

Fluidization of snow. Maeno, N., et al, [1979, p.109-120, eng] **35-697**

Thermal fields during regelation. Philip, J.R., [1980, p.193-203, eng] **35-735**

Mechanical properties of polycrystalline ice. Hooke, R.L., et al, [1980, p.263-275, eng] **35-744**

Ship resistance in thick brash ice. Mellor, M., [1980, p.305-321, eng] **35-748**

Mechanical properties of saline-doped and carbamide (urea)-doped model ice. Timco, G.W., [1980, p.45-56, eng] **35-818**

Transport measurements in the Arctic ice-pack. Gebhart, B., et al, [1980, p.293-302, eng] **35-833**

Dynamic tests and analysis of a massive pier subjected to ice forces. Montgomery, C.J., et al, [1980, p.432-441, fre] **35-835**

Ice action on Nanisivik wharf, Strathcona Sound, N.W.T., winter 1978-1979. Frederking, R.M.W., [1980, p.558-563, fre] **35-836**

Bibliography on northern sea ice and related subjects. Bradford, J.D., comp, [1980, 194p., eng] **35-890**

Dynamic models of sea ice. Ovsienko, S.N., [1978, p.64-69, rus] **35-997**

Horizontal coherency of the motion of summer Arctic sea ice. Colony, R., et al, [1980, p.1281-1289, eng] **35-1052**

Mechanical properties of sea ice. Shapiro, L.H., et al, [1979, p.196-202, eng] **35-1111**

Oil and ice in the Beaufort Sea. Wadhams, P., [1980, p.23-35, eng] **35-1114**

Ice age theory and a climatic model. Pollard, D., et al, [1980, p.301-319, eng] **35-1167**

Measurements of restitution coefficients of ice. Araoka, K., et al, [1978, p.55-65, jap] **35-1175**

Limiting mechanisms of dislocation motion in ice. Lee, S., [1979, 118p., eng] **35-1186**

Assessing several characteristics of antarctic ice. Botnikov, V.N., et al, [1980, p.88-92, rus] **35-1458**

Development of a new type of model ice for refrigerated towing basins. Timco, G.W., et al, [1980, 31p., eng] **35-1588**

Mathematical model for dynamics of pack ice. Pai, S.I., et al, [1977, 23p., eng] **35-1592**

Determining ice viscosity under field conditions. Kozitskii, I.E., [1980, p.107-109, rus] **35-1595**

Flow of ice, water and ice. Eichelberger, C., et al, [1978, p.39-72, eng] **35-1685**

Measurement of the shear stress on the underside of simulated ice covers. Calkins, D.J., et al, [1980, 11p., eng] **35-1723**

Ice transport in Great Lakes. Rumer, R.R., Jr., et al, [1979, 275p., eng] **35-1773**

Steady motion of ice sheets. Morland, L.W., et al, [1980, p.229-246, eng] **35-1819**

Time-dependent surface elevation of an ice slope. Hutter, K., [1980, p.247-266, eng] **35-1820**

Last ice sheet retreat in NE British Columbia and Alberta. Mathews, W.H., [1980, 22p., eng] **35-1906**

Tangential stresses on the lower surface of ice with wind drift. Kheisin, D.E., et al, [1980, 7p., eng] **35-1909**

Variation in ice sheet thickness at Vostok and Vostok-1. Shumskii, P.A., et al, [1980, p.49-53, rus] **35-2031**

Borehole compression in antarctic ice cover. Shumskii, P.A., et al, [1980, p.54-58, rus] **35-2032**

Flexural cracks in deep ice sheets from Kamb, Skilton. Portnov, V.G., [1980, p.75-79, rus] **35-2036**

Ice drift forecasting in the Bay and Sea of Bothnia. Udin, I., et al, [1976, 40p., eng] **35-2056**

Numerical reconstruction of paleo-ice sheets. Hughes, T.J., [1981, p.221-261, eng] **35-2067**

Last great ice sheets: a global view. Hughes, T.J., et al, [1981, p.263-317 + 10 sheets, eng] **35-2068**

Arctic ice sheet: an outrageous hypothesis. Denton, G.H., et al, [1981, p.437-467 + 4 sheets, eng] **35-2070**

Proceedings of the 1980 conference on the use of icebergs. [1980, 136p., eng] **35-2196**

Frazil ice in rivers and oceans. Martin, S., [1981, p.379-397, eng] **35-2240**

Uniqueness of steady state flows of glaciers and ice sheets. Fowler, A.C., et al, [1980, p.333-345, eng] **35-2243**

Movement of continental ice. Bagrov, N.A., [1980, p.54-62, rus] **35-2249**

Physics and mechanics of ice. Tryde, P., [1980, p.556-559, eng] **35-2421**

Geodetic and glaciological activities in East Antarctica, 1962-1978. Meier, S., [1980, p.24-31, ger] **35-2431**

Proceedings of Workshop on Hydraulic Resistance of River Ice, Sep. 1980. [1981, 301p., eng] **35-2539**

Freezeup ice jams on the Peace River near Taylor. Keenhan, T., et al, [1981, p.162-181, eng] **35-2549**

Ice structure anisotropies and ice flow. Baker, R.W., [1981, p.1043-1044, eng] **35-2716**

Some basic experiments with a vertically-integrated ice sheet model. Oerlemans, J., [1981, p.1-11, eng] **35-2799**

Viscoelastic constitutive laws for ice. Morland, L.W., et al, [1980, 56p., eng] **35-3076**

River diversion effect on ice conditions in estuaries. Nalimov, Iu.V., et al, [1980, p.87-89, rus] **35-3119**

Modeling the geostrophic drag coefficient for AIDJEX. Brown, R.A., [1981, p.1989-1994, eng] **35-3273**

Mechanism for the formation of large icebergs. Holdsworth, G., et al, [1981, p.3210-3222, eng] **35-3371**

Ice-sheet dynamics in Greenland and Antarctica. Thomas, R.H., et al, [1981, p.1012-1022, eng] **35-3593**

Effect of pile-ups and rubble fields on ice-structure interaction forces. Bercha, F.G., et al, [1980, p.297-305, eng] **35-3634**

Research in sea ice mechanics. [1981, 80p., eng] **35-3657**

Fundamentals of cold regions engineering (Pt.9). Higashi, A., [1980, p.33-48, jap] **35-3662**

Steady state velocities and temperatures in cold ice-sheets. Lliboutry, L., [1979, p.135-148, eng] **35-3723**

Electrostatics and the Arctic environment (1). Davey, C.T., [1976, p.1-8, eng] **35-3792**

Spring ice breakup at pipeline river crossing. Grey, B.J., [1978, 22p., eng] **35-3795**

Relationship of stress and strain in sea ice. Denner, W.W., [1980, p.5-32, eng] **35-3836**

Measurements and analysis on the ice movement of Batura Glacier. Wang, W., [1980, p.28-41, chi] **35-4028**

Eastern Bering Sea ice dynamics and thermodynamics. Pease, C.H., [1980, p.213-222, eng] **35-4141**

Ice gouging on the subarctic Bering shelf. Thor, D.R., et al, [1980, p.279-302, eng] **35-4145**

Creep of fresh water ice at high homologous temperatures. Leppavuori, E.K.M., [1976, 162p., eng] **35-4176**

Changes in pack ice density due to dynamic processes. Gudkovich, Z.M., [1979, p.73-81, rus] **35-4190**

Fundamentals of cold regions engineering (Pt.9). Higashi, A., [1981, p.29-40, jap] **35-4205**

Physical mechanics of aufeis growth. Kane, D.L., [1981, p.186-195, eng] **35-4219**

Field experiments on antarctic tabular icebergs. Kristensen, M., et al, [1981, p.445-448, eng] **35-4342**

Ice melting

Calculating thickness of melting ice covers. Ergin, V.P., [1980, p.51-55, rus] **35-454**

Power line deicing. Vavilova, I.V., et al, [1979, p.40-44, rus] **35-607**

Point source bubbler systems to suppress ice. Sekton, G.D., [1979, p.93-100, eng] **35-695**

Effect of morainal deposits on glacier melting. Denisov, Iu.M., [1980, p.67-80, rus] **35-717**

Mathematical model of ice melting. Khvorostov, K.A., [1978, p.70-74, rus] **35-998**

Effect of bubbles released from a melting antarctic ice. Josberger, E.G., [1980, p.474-477, eng] **35-1053**

Melting of ice in cold stratified water. Huppert, H.E., et al, [1980, p.953-960, eng] **35-1060**

Heat and mass transfer at the lower surface of the Ross Ice Shelf. Zotikov, I.A., et al, [1980, p.27-36, rus] **35-1223**

Obtaining drinking water from glacier ice. Gus'kov, A.S., et al, [1980, p.260-264, rus] **35-1255**

Ice melting in organic solvents. Naumov, S.V., et al, [1979, p.78, rus] **35-1274**

Construction of reference points for pack ice melting studies. Nazintsev, Iu.L., [1980, p.102-103, rus] **35-1461**

Peculiar melt pattern in fresh-water ice. Timco, G.W., et al, [1980, p.499-501, eng] **35-1512**

Investigation of the heat transfer at the liquid-solid interface of rapidly melting ice. Fredley, J.E., [1980, 87p., eng] **35-1591**

Liquid figures of high-pressure ice VI. Yamamoto, K., [1980, p.2291-2292, eng] **35-1673**

Major findings of the IBP study about arctic ponds. Hobbie, J.E., [1980, p.1-18, eng] **35-1748**

Naled disintegration by water streams. Markov, M.L., [1980, p.46-52, rus] **35-1868**

Heat, mass and momentum transfer during ice sheet melting. Srivastava, P.K., [1979, 110p., eng] **35-1987**

Annual report No.12, Contract N00014-76-C-0234, NR 307-252. [1980, 26p., eng] **35-2055**

Ice lobes during the deglaciation in Finland. Punkari, M., [1980, p.307-310, eng] **35-2143**

Melting of a vertical ice wall by free convection into fresh water. Wilson, N.W., et al, [1981, p.13-17, eng] **35-2147**

Continuum sea ice model for a global climate model. Ling, C.H., et al, [1980, p.187-196, eng] **35-2169**

Physical processes involved in the melting of icebergs. Huppert, H.E., [1980, p.97-101, eng] **35-2213**

Antarctic iceberg melt rate. Budd, W.F., et al, [1980, p.103-112, eng] **35-2214**

Melting of free-drifting icebergs. Russell-Head, D.S., [1980, p.119-122, eng] **35-2216**

Maximum thickness and subsequent decay of lake, river and fast sea ice in Canada and Alaska. Bilello, M.A., [1980, 160p., eng] **35-2588**

Ice melting during the Quaternary Period of Hei-lung-chiang River. Chiao, K., et al, [1979, p.61-66, chi] **35-2904**

Why does the road turn to melting. Wang, C., [1979, p.81, chi] **35-2908**

If West Sheet melts rapidly what then. Bentley, C.R., [1980, p.20-21, eng] **35-2954**

Corona discharge from hailstones in electrical fields. Diachuk, V.A., [1980, p.107-118, rus] **35-2994**

Antarctic sea ice growth and oceanic heat flux. Allison, I., [1981, p.161-170, eng] **35-3027**

Circumpolar water masses. Gordon, A.L., [1980, p.89-90, eng] **35-3190**

Crust behavior in simultaneous melting on a submerged flat plate. Ganguli, A., et al, [1979, p.40-53, eng] **35-3348**

Forced convection melting heat transfer in a tube. Lee, D.O., et al, [1979, p.55-68, eng] **35-3349**

Stefan-like problems in finite geometry. El-Genk, M.S., et al, [1979, p.69-80, eng] **35-3350**

Heat transfer during solidification around a cooled horizontal cylinder. Bathelt, A.G., et al, [1979, p.103-111, eng] **35-3353**

Winter ice removal from stock water ponds. Garton, J.E., et al, [1980, 34p., eng] **35-3406**

Lateral melting effect on the closeness of pack ice. Appel', I.L., et al, [1980, p.29-44, rus] **35-3491**

Growth and decay of hoarfrost over a heat generating liquid layer. Cheung, F.B., [1981, p.369-375, eng] **35-3517**

Melting electrification of single ice particles in simulated free fall. Martin, P.F., et al, [1977, p.302-308, eng] **35-3778**

Ice sheets and ice melts. Emiliani, C., [1980, p.82-91, eng] **35-3905**

Seasonality of Southern Ocean sea ice. Gordon, A.L., (1981, p.4193-4197, eng) **35-3910**

Ocean circulation, fronts and ice melting in the Chukchi Sea. Paquette, R.G., et al, (1981, p.4215-4230, eng) **35-3911**

Methods of determining ice deterioration. Komov, N.I., (1981, p.51-55, rus) **35-3944**

Ice deterioration in the Dickson Island area. Komov, N.I., (1981, p.59-64, rus) **35-3946**

Complex full-scale experiment "Ekspa". Gudkovich, Z.M., et al, (1979, p.7-15, rus) **35-4183**

Calculating heat spent for sea ice melting. Gudkovich, Z.M., (1979, p.21-27, rus) **35-4186**

Ice melting in Lake Harutori, April 1973. Toukairin, A., (1981, p.9-13, jap) **35-4202**

Forecasting maximum water level during ice jamming in the pinch-out area of the Novosibirsk water reservoir (Ob' River). Liser, I.I.A., (1981, p.11-20, rus) **35-4300**

Equation for calculating melting ice cover on water bodies. Ergin, V.P., (1981, p.29-38, rus) **35-4302**

Lakes on George VI Ice Shelf, Antarctica. Reynolds, J.M., (1981, p.425-432, eng) **35-4340**

Ice models

Reflections of pulses from polar ice sheets. Sivaprasad, K., (1979, p.96-97, eng) **35-668**

Development of a new type of model ice for refrigerated towing basins. Timco, G.W., et al, (1980, 31p., eng) **35-1588**

Mathematical model for dynamics of pack ice. Pan, S.I., et al, (1977, 23p., eng) **35-1592**

Last great ice sheets: a global view. Hughes, T.J., et al, (1981, p.263-317 + 10 sheets, eng) **35-2068**

West antarctic ice sheet during the last glaciation. Stuiver, M., et al, (1981, p.319-436 + 5 sheets, eng) **35-2069**

Proceedings of the 1980 conference on the use of icebergs, (1980, 136p., eng) **35-2196**

Iceberg dynamical modelling. Mauviel, F., (1980, p.123-127, eng) **35-2217**

Some basic experiments with a vertically-integrated ice sheet model. Oerlemans, J., (1981, p.1-11, eng) **35-2799**

Antarctic precipitation and global sea level. Oerlemans, J., (1981, p.770-772, eng) **35-3364**

Field-controlled ionic charging of ice crystals. Richards, W.G., et al, (1981, p.3199-3202, eng) **35-3370**

Ice navigation

Atlases of hydrometeorological phenomena especially dangerous for sea navigation. Kornushin, O.G., et al, (1980, p.3-7, rus) **35-27**

Calculating ship icing conditions. Kornushin, O.G., (1980, p.8-13, rus) **35-28**

Ice distribution in the Danish Strait. Kogan, B.A., et al, (1980, p.54-60, rus) **35-31**

Break-up dates for the Yukon River: Pt.1. Rampart to Whitehorse, 1896-1978. Stephens, C.A., et al, (1979, c50 leaves, eng) **35-133**

Radar data for navigation of coastal and ice covered areas. Worsfold, R.D., et al, (1979, p.83-98, eng) **35-165**

Positioning in polar regions. Osterholt, P.A., (1979, p.125-137, eng) **35-167**

Research priorities for Arctic ships. Voelker, R.P., (1979, p.571-581, eng) **35-181**

Deep Freeze 1980 Cruise Report, (1980, 72p., eng) **35-184**

First Soviet-built Arctic icebreakers. Stefanovich, A.N., (1980, p.55-58, rus) **35-318**

Military air-cushion ships. Korytov, N., (1980, p.10-12, rus) **35-351**

Acoustic effects of breaking sea ice. Bogorodskii, P.V., et al, (1980, p.67-70, rus) **35-372**

Determining ice cover morphology by acoustic measurements. Bogorodskii, P.V., et al, (1980, p.71-73, rus) **35-373**

Ice conditions of the Yenisey River. Chernov, I.M., (1980, p.38-44, rus) **35-452**

Cargo ships for ice navigation. Miroshnichenko, I.P., et al, (1979, p.3-14, rus) **35-536**

Pathfinder for Arctic exploitation, (1980, p.346-347, eng) **35-743**

Icebreaker equipped for scientific studies. Pak, V., et al, (1980, p.43-46, rus) **35-789**

Model of the atomic icebreaker *Arktika*. Kostychev, V., (1980, p.72-74, rus) **35-790**

Extending river navigation in winter. Aleksandrov, V., (1979, p.35-37, rus) **35-902**

Extending river navigation periods in the North. Protasov, G., (1980, p.5-6, rus) **35-903**

Extending ice navigation on rivers. Ovchinnikov, E., (1980, p.6-7, rus) **35-904**

Ice navigation on rivers. Fronin, V., et al, (1980, p.10-11, rus) **35-906**

Operation of icebreakers. Lapin, Iu., et al, (1980, p.29-30, rus) **35-907**

Testing river icebreakers. Fronin, V., et al, (1980, p.14-16, rus) **35-908**

Icebreaker operation. Trashchenko, V., (1980, p.17, rus) **35-909**

Results of icebreaker operation. Erokhov, I., (1980, p.18, rus) **35-910**

Ice navigation on rivers. Popov, V., (1980, p.22, rus) **35-911**

Tug-boats for ice navigation. Grinbaum, A., et al, (1980, p.46-47, rus) **35-913**

Device for deicing ship's propellers, (1980, p.29, rus) **35-916**

Ice navigation qualifications of raft tugs. Gorbunov, Iu., (1980, p.33-35, rus) **35-917**

Maneuverability of icebreakers. Smirnov, V.V., (1980, p.31-32, rus) **35-921**

Automated systems of icebreakers. Martynov, V., (1980, p.49, rus) **35-942**

Calculating ice edge movements in seas. Nikolaev, S.G., (1978, p.75-82, rus) **35-999**

Calculating ice conditions in the Caspian Sea. Kruglov, A.A., (1978, p.92-98, rus) **35-1001**

Ice formation in the Gulf of Finland. Prokhorova, T.M., (1978, p.139-143, rus) **35-1003**

Multi-purpose icebreakers. Peschanskii, A., (1980, p.40-41, rus) **35-1138**

Assessing several characteristics of antarctic ice. Botnikov, V.N., et al, (1980, p.88-92, rus) **35-1458**

Computational error during navigation among icebergs. Utusikov, Iu.D., (1980, p.125-129, rus) **35-1464**

Icy routes. Nikolaeva, A.G., et al, (1980, 128p., rus) **35-1574**

Stepping up ship passage through sluices. Kliuev, V., et al, (1980, p.38-39, rus) **35-1604**

Determining propulsive performance of ships in ice. Maly, P., et al, (1980, p.45, rus) **35-1605**

Extending the navigation period on rivers. Vinogradova, N., (1980, p.24-25, rus) **35-1606**

Determining icing conditions from satellite data. Bezuglyi, I., et al, (1980, p.28, rus) **35-1644**

Calculation of the basic components of the ice balance in the Denmark Strait. Antropova, L.V., et al, (1980, 16p., eng) **35-1727**

Hull resistance test in floe of synthetic ice, (1980, p.1-6, jap) **35-1963**

Clearing ice-clogged shipping channels. Vance, G.P., (1980, 13p., eng) **35-2000**

Evaluation of ice deflectors on the USCG icebreaker *Polar Star*. Vance, G.P., (1980, 37p., eng) **35-2595**

Cost of ice damage to shoreline structures during navigation. Carey, K.L., (1980, 33p., eng) **35-2599**

Research icebreaker *Otto Schmidt*. Oliger, B.A., et al, (1980, p.3-6, rus) **35-2634**

Modeling icebreaker movement in continuous and in broken ice. Nogid, L.M., (1959, p.45-62, rus) **35-2764**

Subglacial towing of a drift vessel. Pikul', V., (1981, p.24-26, rus) **35-2854**

River transport of the Baykal Amur railroad area. Degtarev, V.V., et al, (1980, 89p., rus) **35-2966**

Environmental aspects of winter navigation into Lake Melville. Gill, R.J., et al, (1980, p.287-306, eng) **35-3099**

Lake Melville ice research. Smith, P.N., (1980, p.398-410, eng) **35-3102**

All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers. Treshnikov, A.F., ed, (1980, 147p., rus) **35-3103**

Flow diversion effect on winter navigation river. Kovrigin, I.M., et al, (1980, p.142-143, rus) **35-3135**

Routes in the ice. Chubakov, K., et al, (1980, p.104-111, rus) **35-3231**

Pipe transportation by the Northern Sea Route. Agapkin, V.M., et al, (1981, p.16-17, rus) **35-3345**

Cook Inlet environment; a background study of available knowledge. Evans, C.D., et al, (1972, 136p., eng) **35-3359**

Icebreaking procedures on the upper Chesapeake Bay. Gamp, H.W., (1981, p.71-78, eng) **35-3361**

Iceberg detection for Canadian frontier production. Lewis, J.C., et al, (1981, p.115-122, eng) **35-3447**

Equations for calculating breakup dates of fast ice. Arikainen, A.I., (1980, p.68-76, rus) **35-3495**

Ice conditions in the Arctic Ocean. Arikainen, A.I., et al, (1980, p.83-88, rus) **35-3497**

What is the future of the Northwest Passage. Pharand, D., (1980, p.2-7, fre) **35-3640**

Cruise report of ice feature observations from the *CCGS Franklin*, summer 1979. Winsor, W.D., et al, (1980, 104p., eng) **35-3701**

Mixing oil with ice. Manning, A.P., Jr., (1981, p.185-189, eng) **35-3737**

Seasonal ice outlook eastern Arctic, 1981, (1981, 2 pieces (15 + 3p.), eng) **35-3769**

Glacier threatens shipping lanes, (1980, p.10-16, eng) **35-3854**

Arctic navigation past, present and future. Mayhourn, R., (1981, p.1-18, eng) **35-3906**

Use of radar in polar areas. Biskopshaun, B., (1981, p.303-305, eng) **35-3907**

Ice surveying methods and results. Borodachev, V.E., ed, (1981, 144p., rus) **35-3933**

Aerial surveying for ice navigation. Lebedev, V.P., et al, (1981, p.5-13, rus) **35-3934**

Ice surveys of the Caspian Sea. Valler, F.I., et al, (1981, p.14-18, rus) **35-3935**

Plotting courses for aerial ice surveys. Shil'nikov, V.I., (1981, p.22-24, rus) **35-3937**

Barrage technique of leading ships through sea ice. Shil'nikov, V.I., (1981, p.32-37, rus) **35-3939**

Ice surveying from helicopters. Shatalin, N.V., (1981, p.32-40, rus) **35-3940**

Deterioration of ice of different age. Gushchenkov, F.M., et al, (1981, p.56-58, rus) **35-3945**

Time dependence and optimal discreteness of ice packing observations. Bulavkin, V.M., (1981, p.72-75, rus) **35-3948**

Peculiarities of sea ice breaking by icebreakers. Kupetskii, V.N., (1981, p.89-91, rus) **35-3952**

Measuring ice cover thickness in summer. Lazarev, E.I., (1981, p.113-116, rus) **35-3957**

Radar measurements of ice cover thickness in the Arctic Ocean. Finkel'shtein, M.I., et al, (1981, p.117-119, rus) **35-3958**

Peculiarities of spatial variations in ice packing. Losev, S.M., (1981, p.120-128, rus) **35-3959**

Scientific information to icebreakers in the Arctic Ocean. Arikainen, A.I., (1981, p.137-139, rus) **35-3961**

Maritime services to support polar resource development, (1981, 78p., eng) **35-4042**

Proceedings. Volume 2, (1981, p.711-1378, eng) **35-4164**

Modeling hydrologic impacts of winter navigation. Daly, S.F., et al, (1981, p.1073-1080, eng) **35-4166**

Ice problems on the middle Mississippi River. Lovelace, J.T., et al, (1981, p.1081-1087, eng) **35-4167**

Ice control at navigation locks. Hanamoto, B., (1981, p.1058-1095, eng) **35-4168**

Ice control arrangement for winter navigation. Perham, R.E., (1981, p.1096-1103, eng) **35-4169**

Economics of ice navigation in the northern Gulf of Bothnia. Johansson, B.M., (1977, 8p. + appens., eng) **35-4177**

Ice-induced stresses in the shell of an icebreaker. Varsta, P., (1977, 26p. + figs., eng) **35-4178**

On plastic design of an ice-strengthened frame. Varsta, P., et al, (1978, 54p., eng) **35-4179**

Ice pressure and ice-induced stresses on an icebreaker. Vuorio, J., et al, (1979, 50p., eng) **35-4180**

Grounded ice hummocks in Arctic seas. Gorbunov, Iu.A., (1979, p.107-110, rus) **35-4193**

Forecasting ice cover thickness on rivers. Chernov, I.M., (1981, p.21-28, rus) **35-4301**

Bibliography of continental shelf development, Alaska. Rosier, K., (1977, 415p., eng) **35-4317**

Ice nuclei

Cloud chamber for measuring ice nuclei concentration. Aksenov, M.IA., et al, (1980, p.118-122, rus) **35-23**

SALIA-1 cloud chamber for measuring ice nuclei concentration. Aksenov, M.IA., et al, (1980, p.123-127, rus) **35-24**

Measuring ice nuclear concentrations in clouds. Potapov, E.I., (1980, p.128-132, rus) **35-25**

Ice nuclei concentrations measured from helicopters. Vychuzhanina, M.V., et al, (1980, p.133-137, rus) **35-26**

Airborne equipment for sampling ice forming aerosols. Berezinskii, N.A., et al, (1980, p.105-110, rus) **35-771**

Numerical simulation of ice-phase convective cloud seeding. Hsie, E.-Y., et al, (1980, p.950-977, eng) **35-885**

Ice crystal formation on AgI particles. Medahev, Kh.Kh., et al, (1975, p.107-113, rus) **35-1618**

Studying hail nuclei in wind tunnels. Tlisov, M.I., et al, (1975, p.122-139, rus) **35-1620**

Seeding of thunderclouds. Zimin, B.I., (1980, p.30-36, rus) **35-2694**

Ice forming properties of 1,5-dioxynaphthalene and phloroglucinol. Aksenov, M.IA., et al, (1980, p.68-75, rus) **35-2695**

Ice-forming ability of calcium iodide and ammonium fluoride. Plaude, N.O., (1980, p.76-81, rus) **35-2696**

Ice forming properties of copper acetylacetonate. Aksenov, M.IA., et al, (1980, p.82-88, rus) **35-2697**

Ice forming properties of AgI. Kim, N.S., (1980, p.89-98, rus) **35-2698**

Formation of hailstone nuclei. Khorguani, V.G., (1980, p.638-643, eng) **35-2838**

Effect of hail nuclei concentration on their coagulation growth. Kartsivadze, A.I., et al, (1980, p.5-17, rus) **35-2869**

Influence of vapor supersaturation on heterogeneous nucleation. Kartsivadze, A.I., et al, (1980, p.18-30, rus) **35-2870**

Factors affecting the ice nucleation temperature in water pipes. Gilpin, R.R., (1978, p.466-471, eng) **35-2945**

Mathematical model of ice aerosol evolution. Bakhanov, V.P., et al, (1980, p.41-50, rus) **35-2990**

Ice crystal shape effect on mixed clouds. Bunkov, M.V., et al, (1980, p.51-63, rus) **35-2991**

Turbulence in stratiform clouds in an artificial crystallization zone. Kudriavtseva, S.K., (1980, p.124-137, rus) **35-2995**

Ice thermal diffusion chamber for observing various nucleations. Tomlinson, E.M., (1980, 108p., eng) **35-3468**

Interaction of the water molecule with a rigid prism face of ice. Hale, B.N., et al, (1981, p.1991-1995, eng) **35-4155**

Ice openings

Arctic Canada sea ice and weather conditions, summer 1978 — Dey, B., (1980, p 2092-2097, eng) **35-3654**

Ice optics

Modeling of anisotropic electromagnetic reflection from sea ice — Golden, K M., et al, (1980, p 247-294, eng) **35-554**

Scattering and absorption by thin flat aerosols — Weil, H., et al, (1980, p 2066-2071, eng) **35-2409**

Net shortwave radiation model for glacierized basins — Munro, D S., et al, (1980, p 159-169, eng) **35-3155**

Some characteristics of the antarctic aerosols — Hogan, A., et al, (1980, p 78-86, eng) **35-3411**

Measurement of finite strain in sea ice by impulse radar techniques — Stander, E., et al, (1980, p 127-164, eng) **35-3841**

New observations on the daily variation of natural ice albedo — Bolsenga, S J., (1980, 36p., eng) **35-3921**

Scattering of light by ice crystals — Volkovitskii, O A., et al, (1980, p 98-102, eng) **35-4158**

Ice cover reflectivity in the Laptev Sea — Appel', I I., et al, (1979, p 27-31, rus) **35-4185**

Ice passing

Passing ice over stone linings of spillways — Pravdivets, Iu P., (1981, p 43-46, rus) **35-2099**

Ice physics

Sea ice: its characteristics, distribution and role in human affairs — Ferguson, N B., (1980, p 169-176, eng) **35-49**

Structure and composition of natural ice — Savel'ev, B A., (1980, 280p., rus) **35-149**

Kink velocities on dislocations in ice — Frost, H J., et al, (1976, p 951-961, eng) **35-151**

Coal loading pier in Svea, Svalbard — Instanes, B., (1979, p 217-232, eng) **35-172**

Overview on the seasonal sea ice zone — Weeks, W F., et al, (1979, p 320-337, eng) **35-178**

Conference on Computer and Physical Modeling in Hydraulic Engineering, 1980 — Ashton, G D., ed, (1980, 492p., eng) **35-255**

Laws and mechanisms of apparent brittle fracture of river and lake ice — Carter, D., et al, (1971, 393p., fre) **35-330**

Sea ice properties and ice core analysis, Beaufort Sea, 1979 — Langhorne, P J., et al, (1980, 172p., eng) **35-335**

Electrical properties of Arctic sea ice — Bogorodskii, V V., et al, (1980, p 6-14, rus) **35-361**

Deformation, electric and acoustic properties of glacier ice — Bogorodskii, V V., et al, (1980, p 51-55, rus) **35-369**

Matrices of light scattering in ice — Volodin, E S., et al, (1980, p 119-128, rus) **35-381**

Phase relations of ice under pressure — Mishima, O., et al, (1980, p 2454-2456, eng) **35-442**

Heat and mass transfer from freely falling drops at low temperatures — Zarling, J P., (1980, 14p., eng) **35-594**

Molar volume of NaCl in an H2O-D2O mixture at different temperatures — Dutta-Choudhury, M K., et al, (1980, p 2735-2740, eng) **35-995**

Ice — Physical properties — Modern methods of glaciology — Bogorodskii, V V., et al, (1980, 384p., rus) **35-1123**

Limiting mechanisms of dislocation motion in ice — Lee, S., (1979, 118p., eng) **35-1186**

Polarizability derivative of the O-D bond in ice — Bertie, J E., et al, (1980, p 6352-6353, eng) **35-1696**

Simple ice phase parametrization — Stephens, M A., (1979, 122p., eng) **35-1899**

Numerical reconstruction of paleo-ice sheets — Hughes, T J., (1981, p 221-261, eng) **35-2067**

Arctic ice sheet: an outrageous hypothesis — Denton, G H., et al, (1981, p 437-67 + 4 sheets, eng) **35-2070**

Airborne impulse radar sounding of sea ice — Rossiter, J R., et al, (1980, p 187-191, eng) **35-2244**

Physics and mechanics of ice — Tryde, P., (1980, p 556-559, eng) **35-2421**

Preliminary research on ultrasonic measurement of frozen soil and ice — Fu, R., et al, (1980, p 44-48, chi) **35-2665**

SEASAT imagery of Bering Sea ice — Martin, S., (1980, 17p., eng) **35-2708**

Ice thermal diffusion chamber for observing various nucleations — Tomlinson, E M., (1980, 108p., eng) **35-3468**

Eastern Bering Sea ice processes — Pease, C H., (1980, p 2015-2023, eng) **35-3647**

Paleoclimate model of Northern Hemisphere ice sheets — Birchfield, G E., et al, (1981, p 126-142, eng) **35-3676**

Electron solvation in crystalline ice on a subnanosecond timescale — Warman, J M., et al, (1981, p 43-46, eng) **35-4013**

Physical mechanics of aufeis growth — Kane, D L., (1981, p 186-195, eng) **35-4219**

Protons rush through ice — (1981, p 20, eng) **35-4251**

Ice pileup

Effect of pile-ups and rubble fields on ice-structure interaction forces — Bercha, F G., et al, (1980, p 297-305, eng) **35-3634**

Ice engineering design of boat harbors and ports — Wortley, C A., (1981, p 1104-1113, eng) **35-4170**

Ice plasticity

Fundamentals of cold regions engineering (Pt 9) — Higashi, A., (1980, p 33-48, jap) **35-3662**

Ice pressure

Pressure distribution in frozen soils — Groenevelt, P H., et al, (1979, p 582-591, eng) **35-436**

Working group on ice forces on structures — Carstens, T., ed, (1980, 146p., eng) **35-507**

Thermal ice forces — Kjeldgaard, J H., et al, (1980, p 1-33, eng) **35-508**

Ice forces on fixed, rigid structures — Croasdale, K R., (1980, p 34-106, eng) **35-509**

Ice forces on fixed, flexible structures — Maattanen, M., (1980, p 107-130, eng) **35-510**

Review of buckling analyses of ice sheets — Sodhi, D S., et al, (1980, p 131-146, eng) **35-511**

Ship resistance in thick brash ice — Mellor, M., (1980, p 305-321, eng) **35-748**

Comment on "pressure melting" — Martin, R T., (1980, p 89, eng) **35-822**

Design of hydrostatically supported sand islands for Arctic drilling — Dowse, B E W., (1980, p 49-54, eng) **35-1106**

Measurements of sea-ice stresses near grounded obstacles — Sackinger, W M., et al, (1981, p 144-147, eng) **35-1107**

Ice force measurement on the Yukon River bridge — McFadden, T., et al, (1981, p 749-777, eng) **35-2536**

Cost of ice damage to shoreline structures during navigation — Carey, K L., (1980, 33p., eng) **35-2599**

Ice and steep slopes present design challenges for arctic production islands, (1980, p 24-28, eng) **35-2858**

Responses of ice sheets to environmental changes — Young, N W., (1981, p 331-360, eng) **35-3038**

Shore morphology and stratigraphy of Lake Hoytiamen, Finland — Vesajoki, H., (1980, 30p., eng) **35-3209**

Resistance of concrete walls to high concentrated ice loads — Gerwick, B C., et al, (1981, p 425-436, eng) **35-3450**

Steel production structure for the Alaskan Beaufort Sea — Boaz, I B., et al, (1981, p 449-458, eng) **35-3452**

Ice force prediction using a limited driving force approach — Vivatrat, V., et al, (1981, p 471-485, eng) **35-3454**

Some perspectives on frost shattering — McGreevy, J P., (1981, p 56-75, eng) **35-3564**

What is the temperature change in pressure melting — Offenbacher, E L., (1981, p 155-156, eng) **35-3672**

Reply to a comment on "pressure melting" — Spring, U., (1981, p 157, eng) **35-3673**

Proceedings of the Workshop on Sea ice Field Measurement, St. John's, 1980 — (1980, 360p., eng) **35-3835**

Ice loads acting on the ship's hull during interaction with ice — Edwards, R., et al, (1980, p 237-274, eng) **35-3845**

Instrumentation of a small island to measure pack ice forces — Jones, J M., (1980, p 323-342, eng) **35-3848**

Ice force measurements in Finnish lighthouses — Maattanen, M., (1980, p 343-355, eng) **35-3849**

Shape and size of ice ridges in the Baltic Sea — Kermonen, A., (1976, 11p. + append., eng) **35-4175**

Ice-induced stresses in the shell of an icebreaker — Varsta, P., (1977, 26p + figs., eng) **35-4178**

On plastic design of an ice-strengthened frame — Varsta, P., et al, (1978, 54p., eng) **35-4179**

Ice pressure and ice-induced stresses on an icebreaker — Vuorio, J., et al, (1979, 50p., eng) **35-4180**

Experiments for marine structures in ice infested waters — Oshima, M., et al, (1981, p 21-28, jap) **35-4204**

Small prototype cone tests, winter 1974-75 — Verity, P H., (1975, 95p + appends., eng) **35-4214**

Ice prevention

Wintertime deicing: let the pavement do the work — (1980, p 37-40, eng) **35-524**

Rubber in asphalt may cut skidding, tests to gage road icing reduction, (1980, p 24, eng) **35-701**

Icing on structures — Minsk, I D., (1980, 18p., eng) **35-2003**

Preventing ice formation in tunnels — Tetel'baum, A N., et al, (1981, p 48-49, rus) **35-2090**

Prevention of road pavement icing — Rudakov, L M., et al, (1980, p 11, 21, rus) **35-3005**

Using rock salt byproducts for preventing road pavement icing — Ermolenko, V A., et al, (1980, p 15-16, rus) **35-3009**

Design, testing, and shipboard evaluation of a heat pipe de-icing system — Okihara, T., et al, (1980, 6p., eng) **35-3770**

De-icing radar scanners — Hickman, D., (1980, 7p + 7 appends., eng) **35-3772**

Automobiles designed for the Far North — Anopchenko, V., (1981, p 16, rus) **35-3800**

Use of similitude in analyzing aircraft windshield anti-icing performance — Ross, R., (1980, p 830-832, eng) **35-3852**

Criteria for ice prevention in counterflow natural draft cooling towers — Cooper, J W., Jr., (1980, p 47-53, eng) **35-3862**

Thermal regime of current-conducting deicing coating — Avrutov, E A., (1981, p 90-101, eng) **35-4135**

Trawler icing, a compilation of work done at N R C — Stallabrass, J R., (1980, 103p., eng) **35-4222**

Ice rafting

Studying coastal plains and shelves of Arctic seas — Danilov, I D., ed, (1979, 135p., rus) **35-64**

Moraine-like deposits in northern plains — Danilov, I D., (1979, p 97-135, rus) **35-67**

Geological survey of east antarctic continental margin — Anderson, J B., et al, (1979, p 142-144, eng) **35-678**

Proceedings, (1980, 460p., eng) **35-2957**

Shore erosion by ice — Dionne, J C., (1980, p 80-92, fre) **35-2958**

Sea ice shaping of Arctic shores and sediments — Martini, I P., (1980, p 93-102, fre) **35-2959**

Ice removal

Handbook for winter road service — Ahlbrecht, H., et al, (1978, 319p., ger) **35-152**

Sodium chloride solutions used to prevent highway icing — Beretta, M., (1980, p 17-19, ita) **35-222**

Winter maintenance of road pavements, (1980, p 12-25, eng) **35-529**

Point source bubbler systems to suppress ice — Ashton, G D., (1979, p 93-100, eng) **35-695**

Device for deicing ship's propellers, (1980, p 29, rus) **35-916**

Deicing of airfields — Laumann, M., (1980, 27p., eng) **35-992**

Practical experience with ice-inhibiting pavements — Blumer, M., (1980, p 414-420, ger) **35-1131**

Ice removal from frozen salt solutions — Telegina, I I., et al, (1979, p 80, rus) **35-1276**

Method for snow and ice removal — Manzano, B B., (1974, 61p., eng) **35-1563**

Rail transit winterization technology and systems operations study — LaMarca, J J., et al, (1980, 157p., eng) **35-1848**

Clearing ice-clogged shipping channels — Vance, G P., (1980, 13p., eng) **35-2000**

Icing on fishing vessels, some solutions, (1974, p 5, eng) **35-2248**

Five stage program beats snow with Toledo's mobilized forces, (1980, p 9-11, eng) **35-3207**

Salt institute's sensible salting program provides winter guidelines, (1980, p 12-14, eng) **35-3208**

Controlling iceberg roll stability during towing around drillships — Benedict, C P., et al, (1981, p 109-114, eng) **35-3446**

Chemicals and abrasives for snow and ice control — Keyser, J H., (1981, p 580-612, eng) **35-3759**

Guideway snow and ice control and roadside maintenance, (1980, 27p., eng) **35-3783**

Thermal removal of snow and ice on guideways — Kramer, I J., (1980, p 1-8, eng) **35-3784**

Alternatives to sodium chloride for highway deicing (Abridgment) — Dunn, S A., et al, (1980, p 12-15, eng) **35-3786**

Minimizing roadway salt problems in Maine (Abridgment) — Jacobs, K M., et al, (1980, p 25-27, eng) **35-3789**

Nation's highest road is opened to top of Colorado's Mt Evans, (1981, p 6, eng) **35-4160**

Ice reporting

Ice distribution in the Danish Strait — Kogan, B A., et al, (1980, p 54-60, rus) **35-31**

Ice conditions on the Danube River — Chapunova, I B., (1980, p 100-112, rus) **35-1019**

Determining icing conditions from satellite data — Bezuglyi, I., et al, (1980, p 28, rus) **35-1644**

North Atlantic ice conditions, 1979, (1979, 64p., eng) **35-1759**

International ice patrol, (1981, p 20-31, eng) **35-2884**

Ice conditions of the Aral Lake from satellite data — Temnikov, S N., (1980, p 44-51, rus) **35-2973**

Forecasting dates of ice appearance on seas — Sheremetevskaia, O I., et al, (1980, p 69-76, rus) **35-3000**

Mathematical model for forecasting ice formation dates on seas — Moskal', I N., (1980, p 45-54, rus) **35-3492**

Equations for long-range forecasts of sea ice conditions — Kovalev, E G., (1980, p 55-60, rus) **35-3493**

Development and prospects of space glaciology — Kotliakov, V M., (1981, p 7-15, rus) **35-3539**

Ice surveying methods and results — Borodachev, V I., ed, (1981, 144p., rus) **35-3933**

Aerial surveying for ice navigation — Lebedev, V P., et al, (1981, p 5-13, rus) **35-3934**

Ice surveys of the Caspian Sea — Valler, F I., et al, (1981, p 14-18, rus) **35-3935**

Ice surveying from helicopters — Shatalin, N V., (1981, p 32-40, rus) **35-3940**

MI-2 helicopters for Arctic ice surveys — Shatalin, N V., et al, (1981, p 41-45, rus) **35-3941**

Reporting ice observations from helicopters — Kupetskii, V N., (1981, p 46-68, rus) **35-3942**

Time dependence and optimal discreteness of ice packing observations — Bulavkin, V M., (1981, p 72-75, rus) **35-3948**

Optimal intervals between ice surveys in the Arctic — Bulavkin, V M., (1981, p 76-78, rus) **35-3949**

Peculiarities of spatial variations in ice packing — Losev, S M., (1981, p 120-128, rus) **35-3959**

Scientific information to icebreakers in the Arctic Ocean — Arikainen, V I., (1981, p 137-139, rus) **35-3961**

Ice conditions in Laptev Sea — Gudkovich, Z M., et al, (1979, p 16-19, rus) **35-4184**

Ice transfer through the New Siberian straits — Gorbunov, Iu A., (1979, p 66-72, rus) **35-4189**

Grounded ice hummocks in Arctic seas — Gorbunov, Yu. A., (1979, p.107-110, rus) **35-4193**

Dimensions of ice fields — Romanov, I.P., (1979, p.111-115, rus) **35-4194**

Ice roads

Design and operation of airfields — Glushkov, G.I., et al, (1980, 441p., eng) **35-703**

Improving the system of cargo transportation on winter roads — Dmitrievskii, V.A., (1981, p.15, rus) **35-3344**

Travel over snow — Adam, K.M., (1981, p.521-561, eng) **35-3757**

Effectiveness of road facilities in Yakutia — Shtyrev, I.N., (1978, p.112-114, rus) **35-4116**

Pipeline construction in swampy taiga — Karpenko, M.P., (1981, p.29-31, rus) **35-4239**

Alaska roadbuilding just add water (1981, p.44, eng) **35-4253**

Ice runways

Public works, Deep Freeze '79 — Evans, R.L., (1979, p.235-237, eng) **35-683**

Equation for calculating melting ice cover on water bodies — Ergin, V.P., (1981, p.29-38, rus) **35-4302**

Ice salinity

[illegible] (1978, p.85-91, jap) **35-1544**

Ice properties in the Beaufort Sea, winter 1979-80 — Frederking, R.M.W., et al, (1980, 11p. + 54 figs., eng) **35-1881**

Video-pulse radar for measuring ice thickness — Finkel'shtein, M.I., et al, (1981, 16p., eng) **35-2590**

Multi-year sea ice investigation in the East Greenland Current — Overgaard, S., (1980, 69p., eng) **35-3082**

Dielectric properties and passive remote sensing of low-salinity sea ice — Hallikainen, M., (1980, 78p., eng) **35-3559**

Ice sampling

Gas in ice from Allan Hills and Byrd Station — Fireman, E.L., (1979, p.85-86, eng) **35-662**

Preparation of polycrystalline ice specimens for laboratory experiments — Cole, D.M., (19[illegible], p.153-159, eng) **35-700**

Ice scoring

Shore crossing techniques for offshore pipelines in Arctic regions — Marcellus, R.W., et al, (1979, p.201-215, eng) **35-171**

Theory of aufeis and streambed erosion — Carlson, R.F., (1979, p.197-205, eng) **35-413**

Land forms of subglacial origin — Makkaveev, A.N., (1980, p.17-20, rus) **35-788**

Floating platforms and excavations to protect subsea equipment from icebergs — Duval, J., et al, (1980, p.81-86, eng) **35-831**

Sediment displacement in the Ottauquechee River 1975-1978 — Martinson, C., (1980, 14p., eng) **35-974**

Report of the Workshop on Arctic Oil and Gas Recovery, 1980 — Sackinger, W.M., (1980, 38p., eng) **35-1062**

Geologic processes of the Beaufort Sea shelf (April-June 1979) — Barnes, P., et al, (1980, p.130-188, eng) **35-1156**

Geologic processes on the Beaufort Sea shelf (July-Sep 1979) — Barnes, P., et al, (1980, p.189-192, eng) **35-1157**

Hibernia and Ben Nevis seabed study, Polaris V Cruise report, June 1980 — Amos, C.L., et al, (1980, 40p., eng) **35-1846**

Overconsolidated surficial deposits on the Beaufort Sea shelf — Reimnitz, E., et al, (1980, 37p., eng) **35-1914**

[illegible] — Barrie, J.V., (1980, p.71-76, eng) **35-2209**

Hydrodynamic effects on iceberg gouging — Lopez, R., et al, (1981, p.55-61, eng) **35-2418**

Geological, geochemical and geotechnical observations on the Bering Shelf, Alaska — Larsen, M.C., et al, (1980, Var.p., eng) **35-2538**

Distribution and features of bottom sediments in Alaskan coastal waters — Sellmann, P.V., (1980, 50p., eng) **35-2598**

Ice scour studies on the Labrador shelf — Lewis, C.F.M., et al, (1980, p.264-265, eng) **35-3097**

Ice gouging on the subarctic Bering shelf — Thor, D.R., et al, (1981, p.286-314, eng) **35-3243**

Sand waves and ice scoring potential on the Norton Basin sea floor — Nelson, H., et al, (1981, p.315-331, eng) **35-3244**

Bottom sediment in the northern Bering Sea — Olsen, H.W., et al, (1981, p.389-419, eng) **35-3247**

[illegible] Vol.4 — Hazards (1981, 677p., eng) **35-3255**

Ice scoring on the inner shelf of the Beaufort Sea, Alaska — Reimnitz, D., et al, (1981, p.318-332, eng) **35-3264**

Break in gouge character related to ice ridges — Barnes, P., et al, (1981, p.333-343, eng) **35-3265**

Periglacial forms produced by shore ice at Hornsund (Spitsbergen) — Jahn, A., (1977, p.19-29, eng) **35-3619**

Scourge of surging glaciers — Croot, D.G., et al, (1976, p.328-334, eng) **35-3708**

Ice-scored topography and glacier movement, N Scotland [illegible] — [illegible] (1981, p.85-[illegible], eng) **35-4020**

Sedimentation in the northern Bering Sea — Larsen, M.C., et al, (1980, p.247-261, eng) **35-4143**

Ice gouging on the subarctic Bering shelf — Thor, D.R., et al, (1980, p.279-302, eng) **35-4145**

Ice sheets

Focus on polar research — Washburn, A.L., (1980, p.643-652, eng) **35-250**

Sedimentation on the Antarctic continental slope — Anderson, J.B., et al, (1979, p.265-283, eng) **35-327**

Tales the ice can tell, (1978, p.15-21, eng) **35-401**

Review of buckling analyses of ice sheets — Sodhi, D.S., et al, (1980, p.131-146, eng) **35-511**

Axi-symmetric element formulation of non-homogeneous floating ice sheets — Murat, J.R., (1976, 45p., eng) **35-575**

Former glaciation of the Orville Coast region — Carrara, P., (1979, p.45-46, eng) **35-639**

Ross Sea glaciations: events in the Lower Victoria Valley — Borns, H.W., Jr., (1979, p.52-53, eng) **35-643**

Glaciology and glaciogeomorphology in Victoria Land and Queen Maud Mountains — Mayewski, P.A., (1979, p.53, eng) **35-644**

Glacial history of the Byrd-Darwin Glacier area — Denton, G.H., (1979, p.57-58, eng) **35-646**

Glaciological studies in Allan Hills, 1978-79 — Annexstad, J.O., et al, (1979, p.87-88, eng) **35-663**

Airborne geophysical investigations of ice sheet and bedrock, 1978-79 — Drewry, D.J., et al, (1979, p.95-96, eng) **35-667**

Reflections of pulses from polar ice sheets — Sivaprasad, K., (1979, p.96-97, eng) **35-668**

Research workshop on radio echo sounding of ice — Sivaprasad, K., (1979, p.98, eng) **35-669**

Glaciology of dome C area — Bolzan, J.F., et al, (1979, p.100-101, eng) **35-671**

Land forms of subglacial origin — Makkaveev, A.N., (1980, p.17-24, rus) **35-788**

Studies in the Lateglacial of north-west Europe — Lowe, J.J., ed, (1980, 205p., eng) **35-796**

Impending climatic change and the fate of glaciers — Grosval'd, M.S., et al, (1980, p.65-78, eng) **35-1006**

Glacio-geomorphological observations at Cape Omega — Moriwaki, K., (1980, p.1-14, eng) **35-1054**

Field operation of explosion seismic experiment in Antarctica — Ikami, A., et al, (1980, p.158-182, jap) **35-1056**

Pleistocene bimodal response of antarctic ice — Drewry, D.J., (1980, p.214-216, eng) **35-1075**

Ice age theory and a climatic model — Pollard, D., et al, (1980, p.301-319, eng) **35-1167**

Simple parameterization for ice sheet ablation rate — Pollard, D., (1980, p.384-388, eng) **35-1168**

Soviet glaciological studies in 1979 — Kotlyakov, V.M., et al, (1980, p.5-13, rus) **35-1219**

Resolutions of the Working Session of the Section of Glaciology, Feb. 18-20, 1980 (1980, p.20-22, rus) **35-1221**

Specific features in the formation of chemical composition of natural waters in East Antarctica — Bardin, V.I., et al, (1980, p.166-171, rus) **35-1251**

Research activities at Mizuho Station, 1977 — Fujii, Y., (1980, p.2-10, jap) **35-1268**

Problem of a glacier inventory of Antarctica — Swithinbank, C., (1980, p.229-236, eng) **35-1284**

Role of the Southern Hemisphere in global climate change — Henderson-Sellers, A., (1980, p.373-374, eng) **35-1311**

World of ice: the natural history of the frozen regions — John, B.S., (1979, 120p., eng) **35-1348**

Development of the antarctic ice sheet — Meier, S., (1980, p.348-351, 373-376, ger) **35-1415**

Future of the environment and global glaciological problems — Kotlyakov, V.M., (1980, p.5-16, rus) **35-1531**

Origin and mechanism of large-scale climatic oscillations — Sergin, V.IA., (1980, p.1477-1482, eng) **35-1535**

Cl-36 in polar ice, rainwater and seawater — Finkel, R.C., et al, (1980, p.983-986, eng) **35-1536**

Satellite experiments on SHF earth radiation — Basharinov, A.E., et al, (1979, p.263-267, eng) **35-1690**

Rapid ice-sheet growth and initiation of the last glaciation — Johnson, R.G., et al, (1979, p.119-134, eng) **35-1776**

Steady motion of ice sheets — Morland, L.W., et al, (1980, p.229-246, eng) **35-1819**

Time-dependent surface elevation of an ice slope — Hutter, K., (1980, p.247-266, eng) **35-1820**

Last ice sheet retreat in NE British Columbia and Alberta — Mathews, W.H., (1980, 22p., eng) **35-1908**

Report of radio echo sounding of ice workshop, Durham, NH, 1978 — Sivaprasad, K., ed, (1978, 15p. + Append., eng) **35-1915**

Heat, mass and momentum transfer during ice sheet melting — Srivastava, P.K., (1979, 110p., eng) **35-1987**

Morphometric features of the antarctic ice cover — Aver'ianov, V.G., (1980, p.5-9, rus) **35-2024**

Determining the components of antarctic ice cover mass exchange with the atmosphere — Aver'ianov, V.G., (1981, p.10-16, rus) **35-2025**

Thermal regime of ice cover during thaw — Klokov, V.D., (1980, p.23-28, rus) **35-2027**

Preliminary estimate of ice cover flow in Antarctica using [illegible] — [illegible] (1980, 16 [illegible], eng) **35-2029**

Variation in ice sheet thickness at Vostok and Vostok-1 — Shumskii, P.A., et al, (1980, p.49-53, rus) **35-2031**

Last great ice sheets — Denton, G.H., ed, (1981, 484p., eng) **35-2062**

Late Weichselian ice sheets in Eurasia and Greenland — Andersen, B.G., (1981, p.1-65 + 5 sheets, eng) **35-2063**

Late Wisconsin ice sheets in North America — Mayewski, P.A., et al, (1981, p.67-178 + 3 sheets, eng) **35-2064**

Late Wisconsin-Weichselian mountain glaciers and ice caps — Hollin, J.T., et al, (1981, p.179-206, eng) **35-2065**

Numerical reconstructions of valley glaciers and small ice caps — Schilling, D.H., et al, (1981, p.207-220, eng) **35-2066**

Numerical reconstruction of paleo-ice sheets — Hughes, T.J., (1981, p.221-261, eng) **35-2067**

Last great ice sheets: a global view — Hughes, T.J., et al, (1981, p.263-317 + 10 sheets, eng) **35-2068**

West antarctic ice sheet during the last glaciation — Stuiver, M., et al, (1981, p.319-436 + 5 sheets, eng) **35-2069**

Arctic ice sheet: an outrageous hypothesis — Denton, G.H., et al, (1981, p.437-467 + 4 sheets, eng) **35-2070**

Ice lobes during the deglaciation in Finland — Punkari, M., (1980, p.307-310, eng) **35-2143**

Glaciological research in the Arctic — Aver'ianov, V.G., (1980, p.85-89, rus) **35-2182**

Uniqueness of steady state flows of glaciers and ice sheets — Fowler, A.C., et al, (1980, p.333-345, eng) **35-2243**

Movement of continental ice — Bagrov, N.A., (1980, p.54-62, rus) **35-2249**

Geodetic and glaciological activities in East Antarctica, 1962-1978 — Meier, S., (1980, p.24-31, ger) **35-2431**

Geodetic-astronomical activities during the 8th and 17th SAE — Liebert, J., (1980, p.51-53, ger) **35-2434**

Meteorological processes in the antarctic atmosphere — Helbig, A., (1980, p.64-79, ger) **35-2435**

Research on environmental nuclides in Antarctica — Fröhlich, K., et al, (1980, p.122-144, ger) **35-2437**

Historical record of global atmospheric pollution revealed in polar ice sheets — Boutron, C., et al, (1980, p.210-215, eng) **35-2470**

Energy balance climate models — North, G.R., et al, (1981, p.91-121, eng) **35-2579**

Heat budget of the Greenland ice sheet — Ambach, W., (1979, p.44-54, ger) **35-2643**

Ablation in a vertical ice profile in Greenland — Ambach, W., (1979, p.55-62, ger) **35-2644**

Glacial transport in Finnish Lapland — Hirvas, H., (1977, p.128-136, eng) **35-2732**

Ice sheet, subglacial basalts and uplift of the Transantarctic Mts. — Stump, E., et al, (1980, p.757-759, eng) **35-2792**

Some basic experiments with a vertically-integrated ice sheet model — Oerlemans, J., (1981, p.1-11, eng) **35-2799**

Glaciological and geocryological field studies on King George Island during the 25th Soviet antarctic expedition — Vtyurin, B.I., (1980, p.30, rus) **35-2811**

Polarization of radio waves in ice sheets — Doake, C.S.M., (1981, p.539-558, eng) **35-2883**

Use of radio-echo measurements in determining the thickness and velocity of an antarctic ice sheet — Bogorodskii, V.V., et al, (1979, p.60-74, eng) **35-2886**

Atmospheric aerosols over the antarctic ice sheet — Shaw, G.E., (1981, p.911-921, eng) **35-2892**

If West Sheet melts rapidly, what then — Bentley, C.R., (1980, p.20-21, eng) **35-2954**

Atmospheric CO2 accumulation and the Antarctic ice sheet — Bentley, C.R., (1980, p.24-29, eng) **35-2963**

[illegible] — [illegible], F., et al, (1980, p.1-13, eng) **35-2964**

Sea level, ice and climatic change, Proceedings of the Symposium, 7-8 Dec. during the 17th General Assembly of IUGG, Canberra — Allison, I., ed, (1981, 471p., eng) **35-3017**

Climate into ice: the isotopic record in polar ice sheets — Robin, G. de Q., (1981, p.207-216, eng) **35-3031**

Climatic evidence from Dome C ice core — Lorius, C., et al, (1981, p.217-225, eng) **35-3032**

Temperature profiles at Mizuho Station — Nishio, F., et al, (1981, p.239-246, eng) **35-3035**

Mass balance studies in East Antarctica — Morgan, V.I., et al, (1981, p.253-260, eng) **35-3037**

Responses of ice sheets to environmental changes — Young, N.W., (1981, p.331-360, eng) **35-3038**

Climatic change, ice sheets and sea level — Flohn, H., (1981, p.431-440, eng) **35-3041**

Oceanic mechanisms for amplification of the 23,000-year [illegible] — [illegible], W.F., et al, (1981, p.617-627, eng) **35-3136**

Miocene stable isotope record — Woodruff, F., et al, (1981, p.665-668, eng) **35-3137**

Sakami moraine, Quebec: a 500-km-long moraine without climate control — Hillaire-Marcel, C., et al, (1981, p.210-214, eng) **35-3138**

Earth sciences research in the McMurdo Sound region, 1979-1980 — Nagata, T., (1980, p.12, eng) **35-3167**

Antarctic search for meteorites, 1979-80 — Cassidy, W.A., (1980, p.49-50, eng) **35-3171**

[illegible] — [illegible], R.H., et al, (1980, p.56-57, eng) **35-3172**

Glaciological studies in Allan Hills, 1979-80 — Annexstad, J.O., et al, (1980, p.65-66, eng) **35-3176**

Ice sheets *(cont.)*

Deep geoelectric and electromagnetic soundings at Dome C. Thyssen, F., et al. (1980, p.69-71, eng) **35-3179**

Shallow-depth temperature models for Dome C. Ewing, R.E. (1980, p.75-76, eng) **35-3181**

Late Quaternary geology of the George V and Adelie continental shelf. Domack, E.W. (1980, p.127-128, eng) **35-3192**

Isotope methods of studying natural waters. Ferronskii, V.I., ed. (1981, 260p., rus) **35-3296**

Variations of the oxygen isotope ratio in glacier ice. Vaikmae, R.A., et al. (1981, p.25-30, rus) **35-3298**

Time-sequential multispectral observation of the Greenland ice sheet. Gloersen, P., et al. (1981, p.79-81, eng) **35-3434**

Surface meteorological processes in the Antarctic. Helbig, A. (1979, p.111-122, ger) **35-3488**

International Geoscience and Remote Sensing Symposium, 1981. Vol.2. (1981, p.755-1461, eng) **35-3585**

Satellite laser altimeter for measurement of ice sheet topography. Button, J.L., et al. (1981, p.1003-1011, eng) **35-3592**

Ice-sheet dynamics in Greenland and Antarctica. Thomas, R.H., et al. (1981, p.1012-1022, eng) **35-3593**

Sedimentary and geomorphological consequences of the naled occurrence. Cegla, J., et al. (1977, p.63-84, eng) **35-3622**

Naled type of ice in front of some Spitsbergen glaciers. Baranowski, S. (1977, p.85-89, eng) **35-3623**

Polar processes and world climate (a brief overview). Goody, R. (1980, p.1935-1942, eng) **35-3643**

Paleoclimate model of Northern Hemisphere ice sheets. Birchfield, G.E., et al. (1981, p.126-142, eng) **35-3676**

Continental ice sheets and the planetary radiation budget. Oerlemans, J. (1980, p.349-359, eng) **35-3678**

Under-ice circulation in a shallow lagoon, Beaufort Sea. Matthews, J.B. (1981, p.223-234, eng) **35-3698**

Modeling of Pleistocene European ice sheets: some experiments with simple mass-balance parameterizations. Oerlemans, J. (1981, p.77-85, eng) **35-3713**

Steady state velocities and temperatures in cold ice-sheets. Lliboutry, L. (1979, p.135-148, eng) **35-3723**

Thermal energy exchange in East Antarctica. Aver'ianov, V.G. (1981, p.32-39, eng) **35-3903**

Ice sheets and ice melts. Emiliani, C. (1980, p.82-91, eng) **35-3905**

Antarctic glacial chronology reflected in Ross Sea sediments. Balshaw, K.M. (1981, 140p., eng) **35-3915**

Physics of glaciers. Paterson, W.S.B. (1981, 380p., eng) **35-4009**

Ice shelves

Structure and composition of natural ice. Savel'ev, B.A., (1980, 280p., rus) **35-149**

Sedimentation on the Antarctic continental slope. Anderson, J.B., et al. (1979, p.265-283, eng) **35-327**

Freezing on the undersurface of the Ross Ice Shelf, Antarctica. Zotikov, I.A., et al. (1979, p.1454-1457, rus) **35-437**

Ross Ice Shelf Project 1978-79. Clough, J.W. (1979, p.60, eng) **35-648**

Hot water drilling and coring on Ross Ice Shelf. Browning, J.A., et al. (1979, p.60-61, eng) **35-649**

Conditions under Ross Ice Shelf, winter 1979. Kvinge, T., et al. (1979, p.61-63, eng) **35-650**

Core drilling through Ross Ice Shelf. Zotikov, I.A., et al. (1979, p.63-64, eng) **35-651**

Ross Ice Shelf glaciology. Thomas, R.H., et al. (1979, p.66-67, eng) **35-653**

Surface accumulation on Ross Ice Shelf. Clausen, H.B., et al. (1979, p.68-72, eng) **35-654**

Temporal variations and correlations of Ross Ice Shelf snow chemistry. Molenar, J.V., et al. (1979, p.72-74, eng) **35-655**

Geological survey of east antarctic continental margin. Anderson, J.B., et al. (1979, p.142-144, eng) **35-678**

Relief-forming activity of the Ross and McMurdo Shelf glaciers, Antarctica. Miagkov, S.M. (1980, p.84-91, rus) **35-951**

Drilling through shelf ice near Novolazarevskaya Station. Korotkevich, E.S., et al. (1979, 11p., eng) **35-1057**

Heat and mass transfer at the lower surface of the Ross Ice Shelf. Zotikov, I.A., et al. (1980, p.27-36, rus) **35-1223**

Bottom sediments under the Novolazarevskaya ice shelf. Kolobov, D.D., et al. (1980, p.93-96, rus) **35-1459**

Ice-shelf grounding: ice and bedrock temperature changes. MacAyeal, D.R., et al. (1980, p.397-400, eng) **35-1503**

Glaciological work on the Shackleton Ice Shelf (Jan.-Apr. 1978). Savatiugin, L.M. (1980, p.114-118, rus) **35-2044**

West antarctic ice sheet during the last glaciation. Stuiver, M., et al. (1981, p.319-436. + 5 sheets, eng) **35-2069**

Arctic ice sheet: an outrageous hypothesis. Denton, G.H., et al. (1981, p.437-467. + 4 sheets, eng) **35-2070**

Sonar studies of icebergs, ice fronts and ice walls. Klepsvik, J.O., et al. (1980, p.31-36, eng) **35-2202**

Viscoelastic analysis of calving glaciers. Reddy, D.V., et al. (1980, p.37-41, eng) **35-2203**

New data on the dynamics of ice shelves in the Weddell Sea. Zakharov, V.G., et al. (1980, p.181-185, rus) **35-2828**

Responses of ice sheets to environmental changes. Young, N.W. (1981, p.331-360, eng) **35-3038**

Physics of glaciers. Paterson, W.S.B. (1981, 380p., eng) **35-4009**

Primary production under Ross Ice Shelf. Horrigan, S.G., (1981, p.378-382, eng) **35-4298**

Ice sintering

Cohesion of snow at temperature gradients. Marbouty, D., et al. (1980, p.291-295, fre) **35-1371**

Ice solid interface

Working group on ice forces on structures. Carstens, T., ed. (1980, 146p., eng) **35-507**

Ice forces on fixed, flexible structures. Maattanen, M., (1980, p.107-130, eng) **35-510**

Volcano-ice interactions on Mars. Allen, C.C., (1979, p.8048-8059, eng) **35-1102**

Friction between sea ice and other objects. Tushima, K., et al. (1978, p.141-161, jap) **35-1550**

Nature of the ice-rock interface. Vivian, R., (1980, p.267-277, eng) **35-1821**

Wire regelation at low temperatures. Gilpin, R.R., (1980, p.435-448, eng) **35-2153**

Research in sea ice mechanics. (1981, 80p., eng) **35-3657**

Proceedings of the Workshop on Sea ice Field Measurement, St. John's, 1980. (1980, 360p., eng) **35-3835**

Ice loads acting on the ship's hull during interaction with ice. Edwards, R., et al. (1980, p.237-274, eng) **35-3845**

Field measurement of kinematic friction between ice and rigid structures. Comfort, G., et al. (1980, p.303-321, eng) **35-3847**

Coefficient of ice-solid friction. Oksanen, P., (1980, 73p., eng) **35-3883**

Breakage of granitic detritus by ice and water. Moss, A.J., et al. (1981, p.261-272, eng) **35-4024**

Ice gouging on the subarctic Bering shelf. Thor, D.R., et al. (1980, p.279-302, eng) **35-4145**

Small prototype cone tests, winter 1974-75. Verity, P.H., (1975, 95p. + appends., eng) **35-4214**

Ice spectroscopy

Polarizability derivative of the O-D bond in ice. Bertie, J.E., et al. (1980, p.6352-6353, eng) **35-1696**

Time-sequential multispectral observation of the Greenland ice sheet. Gloersen, P., et al. (1981, p.79-81, eng) **35-3434**

Ice strength

General introduction [to Resistance to flow in ice covered rivers]. Davar, K.S., (1979, p.32-51, eng) **35-405**

Ice forces on fixed, rigid structures. Croasdale, K.R., (1980, p.34-106, eng) **35-509**

Review of buckling analyses of ice sheets. Sodhi, D.S., et al. (1980, p.131-146, eng) **35-511**

Review of impulse radar sounding of sea ice. Rossiter, J.R., (1980, p.77-107, eng) **35-549**

Physical properties of sea ice and under-ice current orientation. Kovacs, A., et al. (1980, p.109-153, eng) **35-550**

Sustained loading and temperature effects on ice strength. Zanegin, V.G., et al. (1978, p.85-87, rus) **35-754**

Ice platform design related to strain measurements. Gold, L.W., (1980, p.564-565, fre) **35-837**

Craters in ice and ice-saturated sand on Mars. Croft, S.K., et al. (1979, p.8023-8032, eng) **35-1101**

Fracture strength of polycrystalline ice containing KCl. Ogawa, K., et al. (1978, p.1-9, jap) **35-1171**

Arctic sea ice research, 4: measurements of uniaxial compressive strength. Nohguchi, Y., et al. (1978, p.131-139, jap) **35-1549**

Ice properties in the Beaufort Sea, winter 1979-80. Frederking, R.M.W., et al. (1980, 11p. + 54 figs., eng) **35-1881**

Sea ice anisotropy, electromagnetic properties and strength. Kovacs, A., et al. (1980, 18p., eng) **35-1891**

Cyclic loading and fatigue in ice. Mellor, M., et al. (1981, p.41-53, eng) **35-2417**

Flexural strength of ice grown from chemically impure melts. Timco, G.W., (1981, p.81-92, eng) **35-3665**

Proceedings of the Workshop on Sea ice Field Measurement, St. John's, 1980. (1980, 360p., eng) **35-3835**

Surface strain measuring instruments for use on sea ice. Goodman, D.G., (1980, p.75-96, eng) **35-3839**

Tubular transducer for in situ stress measurements in sea ice. Frederking, R., (1980, p.165-192, eng) **35-3842**

OSI ice stress sensor. Johnson, J.B., et al. (1980, p.193-207, eng) **35-3843**

Dimensions of ice fields. Romanov, I.P., (1979, p.111-115, rus) **35-4194**

Uniaxial compressive strength of segregated ice in soil. Ohrai, T., et al. (1981, p.83-96, eng) **35-4267**

Ice structure

Sea ice: its characteristics, distribution and role in human affairs. Ferguson, N.B., (1980, p.169-176, eng) **35-49**

Structure and composition of natural ice. Savel'ev, B.A., (1980, 280p., rus) **35-149**

Glaciation of the Kuznetskiy Alatau. Shpin', P.S., (1980, 84p., rus) **35-307**

Ross Ice Shelf bottom ice structure. Zotikov, I.A., et al. (1979, p.65-66, eng) **35-652**

Preparation of polycrystalline ice specimens for laboratory experiments. Cole, D.M., (1979, p.153-159, eng) **35-700**

Fracture toughness of sea ice. Urabe, N., et al. (1980, p.29-37, eng) **35-816**

Biology of the Central Arctic Basin. Vinogradov, M.E., ed. (1980, 260p., rus) **35-1312**

Organic admixtures in frozen water-salt systems. Kovalev, O.I., et al. (1980, p.377-379, rus) **35-1388**

Buried glacier ice in West Siberia. Solomatin, V.I., et al. (1921, p.66-77, rus) **35-1422**

Peculiar melt pattern in fresh-water ice. Timco, G.W., et al. (1980, p.499-501, eng) **35-1512**

Dynamics and structure of Griesgletscher, Switzerland. Hambrey, M.J., et al. (1980, p.215-228, eng) **35-1818**

Optical axis orientation in continental ice. Portnov, V.G., et al. (1980, p.70-74, rus) **35-2035**

Morphology of ice structure in a pipe at or near transition Reynolds numbers. Gilpin, R.R., (1979, p.89-94, eng) **35-2238**

Ice structure in a pipe at or near transition Reynold numbers. Gilpin, R.R., (1979, p.89-94, eng) **35-3351**

Correlation function studies for microwave remote sensing of snow and ice. Vallese, F., et al. (1981, p.685-690, eng) **35-3443**

Ice formation in a pipe with transition and turbulent flows. Gilpin, R.R., (1981, p.363-368, eng) **35-3516**

Bering Sea ice edge properties. Bauer, J., et al. (1980, p.2045-2055, eng) **35-3650**

Research in sea ice mechanics. (1981, 80p., eng) **35-3657**

Flexural strength of ice grown from chemically impure melts. Timco, G.W., (1981, p.81-92, eng) **35-3665**

Temporal and spatial variability of ice-foot morphology. Wiseman, W.J., et al. (1981, p.69-80, eng) **35-4021**

Statistical features of sea ice ridging in the Gulf of Bothnia. Lepparanta, M., (1980, 46p., eng) **35-4181**

Ice sublimation

Electrical conductivity of ice from a pond near Showa Station. Nishimura, J., et al. (1978, p.67-76, jap) **35-1176**

Research activities at Mizuho Station, 1977. Fujii, Y., (1980, p.2-10, jap) **35-1268**

Calculating sublimation weathering of perennially frozen fines. Kuz'min, G.P., (1981, p.70-80, rus) **35-3286**

Ice surface

Review of flow resistance of consolidated smooth and rough ice covers. Pratte, B.D., (1979, p.52-92, eng) **35-406**

Ice freeboard determination by satellite altimetry. Stanley, H.R., et al. (1980, p.295-303, eng) **35-555**

Glaciological studies in Allan Hills, 1978-79. Annexstad, J.O., et al. (1979, p.87-88, eng) **35-663**

Glaciology of mountain regions (snow cover, avalanches and glaciers). Suslov, V.F., ed. (1980, 144p., rus) **35-709**

Heat exchange at surface of built-up ice platform during construction. Nakawo, M., (1980, p.323-333, eng) **35-749**

Interpretation of Alberta ice jams data. Michel, B., (1980, 15p., eng) **35-839**

Dependence of polar ice albedo on air temperature. Strokina, L.A., (1980, p.57-60, rus) **35-1004**

Transition layer on the surface on ice. Beaglehole, D., et al. (1980, p.357-363, eng) **35-1063**

Measurements of restitution coefficients of ice. Araoka, K., et al. (1978, p.55-65, jap) **35-1175**

Biology of the Central Arctic Basin. Vinogradov, M.E., ed. (1980, 260p., rus) **35-1312**

Surface morphology of Arctic Ocean ice. Grishchenko, V.D., (1980, p.33-35, rus) **35-1315**

Ecosystem of Arctic drift ice. Mel'nikov, I.A., (1980, p.61-97, rus) **35-1317**

Cryopelagic fauna of the Central Arctic Basin. Mel'nikov, I.A., et al. (1980, p.97-111, rus) **35-1318**

Cryopelagic biocenoses of the Central Arctic Basin. Kulikov, A.S., (1980, p.111-118, rus) **35-1319**

Assessing several characteristics of antarctic ice. Botnikov, V.N., et al. (1980, p.88-92, rus) **35-1458**

Arctic ice trafficability, Arctic Islands area. Hammond, C.W., (1972, 10p., eng) **35-1847**

Arctic ice trafficability, Beaufort Sea area. Hammond, C.W., (1972, 9p., eng) **35-1958**

Video-pulse radar for measuring ice thickness. Finkel'shtein, M.I., et al. (1981, 16p., eng) **35-2590**

Ice surface roughness effect on its microwave emission. Nikitin, P.A., (1980, p.93-97, rus) **35-2984**

Albedo of melting ice cover. Beilinson, M.M., et al. (1979, p.108-112, rus) **35-2986**

Antarctic search for meteorites, 1979-80. Cassidy, W.A., (1980, p.49-50, eng) **35-3171**

Break in gouge character related to ice ridges. Barnes, P., et al. (1981, p.333-343, eng) **35-3265**

Design and construction of sea ice roads in the Alaskan Beaufort Sea. Potter, R.E., et al. (1981, p.135-140, eng) **35-3449**

Equations for calculating breakup dates of fast ice. Arikainen, A.I., (1980, p.68-76, rus) **35-3495**

Mobile water phase on ice surfaces. Kvlividze, V.I., et al. (1974, p.60-68, eng) **35-3628**

Measure of Arctic sea ice characteristics using microwave scatterometry Jackson, B L , et al. (1979, p 278-280, eng) 35-3707

Surface strain measuring instruments for use on sea ice Goodman, D G , (1980, p 75-96, eng) 35-3839

Deterioration of ice of different age Gushchenkov, E M , et al. (1981, p 56-58, rus) 35-3945

Radiation balance at the physical surface of mountain glaciers during ablation Cherkasov, P A , (1980, 143p , rus) 35-3963

Equation for calculating melting ice cover on water bodies Ergin, V P , (1981, p 29-38, rus) 35-4302

Ice surveys

Glaciological research at Trent University and a bibliography, 1968-1980 Adams, W P , (1980, p 178-193, eng) 35-50

Recent research of snow and ice in the world, Pt 1 Zhang, X , (1980, p 54-58, chi) 35-90

Recent research of snow and ice in the world, Pt 2 Zhang, X , (1980, p 48-52, chi) 35-126

Review of research on snow and ice Nishimura, H , et al. (1980, p 33-69, jap) 35-1066

Outline of glaciological research in the USSR Kusunoki, K , (1980, p 71-73, jap) 35-1067

Resolutions of the Working Session of the Section of Glaciology, Feb 18-20, 1980 (1980, p 20-22, rus) 35-1221

Iceberg distribution in the Atlantic sector of East Antarctica (1977-78) Kuznetsov, I M , (1980, p 82-87 rus) 35-1457

Ice research program of the Great Lakes Environmental Research Laboratory Quinn, F H , (1980, p 1-4, eng) 35-2157

Great Lakes ice - a selected bibliography Hoffman, C S , ed. (1980, p 39-71, eng) 35-2161

Radar methods of studying the earth Mel'nik, H A , et al. (1980, 161p , rus) 35-2250

Video-pulse radar for measuring ice thickness Finkel'shtein, M I , et al. (1981, 16p , eng) 35-2590

Recent research of snow and ice in the World (3) Zhang, X , (1980, p 61-65, chi) 35-2922

Proceedings of the 37th annual meeting, June 5 and 6, 1980 (1980, 224p , eng) 35-3142

Microwave remote sensing of earth terrain (snow, ice, vegetation) Zuniga, M Z , et al. (1981, p 691-695, eng) 35-3444

Mathematical model of ice clearance from Lake Baykal Moskalets, V F , et al. (1980, p 137-143, rus) 35-3475

Relations between electrical and physical properties of ice Nikitin, P A , (1980, p 108-110, rus) 35-3547

Alaska coastal bibliography and index statewide (1980, 407p , eng) 35-3553

Application of microwave remote sensing for snow and ice properties Campbell, W J , et al. (1981, p 951-957, eng) 35-3587

Accuracy of operational snow and ice charts Kukla, G , et al. (1981, p 974-987, eng) 35-3589

Aerial surveying for ice navigation Lebedev, V P , et al. (1981, p 5-13, rus) 35-3934

Ice surveys of the Caspian Sea Valler, F L , et al. (1981, p 14-18, rus) 35-3935

Airborne radar for ice surveys Balandin, V N , et al. (1981, p 19-21, rus) 35-3936

Plotting courses for aerial ice surveys Shil'nikov, V I , (1981, p 22-24, rus) 35-3937

Airplane operation in ice surveys Shil'nikov, V I , (1981, p 25-31, rus) 35-3938

Ice surveying from helicopters Shatalin, N V , (1981, p 32-40, rus) 35-3940

MI-2 helicopters for Arctic ice surveys Shatalin, N V , et al. (1981, p 41-45, rus) 35-3941

Reporting ice observations from helicopters Kupetskii, V N , (1981, p 46-68, rus) 35-3942

Detailed ice surveys in the Arctic Gushchenkov, E M , (1981, p 49-50, rus) 35-3943

Visual evaluation of sea ice packing Borodachev, V E , (1981, p 65-71, rus) 35-3947

Time dependence and optimal discreteness of ice packing observations Bulavkin, V M , (1981, p 72-75, rus) 35-3948

Optimal intervals between ice surveys in the Arctic Bulavkin, V M , (1981, p 76-78, rus) 35-3949

Peculiarities of sea ice breaking by icebreakers Kupetskii, V N , (1981, p 89-91, rus) 35-3952

Relationship between ice drift and atmospheric pressure Gorbunov, R A , (1981, p 97-103, rus) 35-3954

Studying stationary polynyas from satellite photographs Karelin, I D , (1981, p 104-109, rus) 35-3955

Measuring ice cover thickness in summer Lazarev, E L , (1981, p 113-116, rus) 35-3957

Radar measurements of ice cover thickness in the Arctic Ocean Finkel'shtein, M I , et al. (1981, p 117-119, rus) 35-3958

Peculiarities of spatial variations in ice packing Losev, S M , (1981, p 120-128, rus) 35-3959

Morphometric characteristics of drifting ice in Long Strait Gorbunov, R A , et al. (1981, p 129-136, rus) 35-3960

Scientific information to icebreakers in the Arctic Ocean Arikainen, A I , (1981, p 137-139, rus) 35-3961

Polex-North-76 (scientific results) Part 2 Treshnikov, A F , ed. (1979, 194p , rus) 35-4182

Ice conditions in Laptev Sea Gudkovich, Z M , et al. (1979, p 16-19, rus) 35-4184

Ice drift in the Laptev Sea Gorbunov, R A , et al. (1979, p 45-65, rus) 35-4188

Ice transfer through the New Siberian straits Gorbunov, R A , (1979, p 66-72, rus) 35-4189

Meltwater areas on ice covers Buznev, A I A , et al. (1979, p 92-106, rus) 35-4192

Dimensions of ice fields Romanov, I P , (1979, p 111-115, rus) 35-4194

Canadian field activities in ice engineering, Pt 1 Nakawo, M , (1981, p 107-114, jap) 35-4270

Glaciological research in eastern Queen Maud Land Higashi, A , (1981, p 129-130, jap) 35-4273

Ice temperature

Horizontal temperature gradients in ice Volodin, E S , et al. (1980, p 153-157, rus) 35-383

Glaciology of dome Carea Bolzan, J F , et al. (1979, p 100-101, eng) 35-671

Mathematical model of ice melting Efromson, V A , (1978, p 70-74, rus) 35-998

Drilling through shelf ice near Novolazarevskaya Station Korotkevich, E S , et al. (1979, 11p , eng) 35-1057

Electrical conductivity of ice from a pond near Showa Station Nishimura, J , et al. (1978, p 67-76, jap) 35-1176

Temperature profiles in the Barnes Ice Cap, Canada Hooke, R L , et al. (1980, p 1174-1188, eng) 35-1266

Study on ice on Lake Tofutsu Kawamura, T , et al. (1978, p 85-91, jap) 35-1544

Development of a long-term temperature recorder Akitaya, E , (1978, p 167-169, jap) 35-1552

Ice fabrics in a vertical flow plane, Barnes Ice Cap, Canada Hooke, R L , et al. (1980, p 195-214, eng) 35-1817

Ice properties in the Beaufort Sea, winter 1979-80 Frederking, R M W , et al. (1980, 11p + 54 figs , eng) 35-1881

Age of ice in drill holes at Vostok and Vostok-1 Shumskii, P A , et al. (1980, p 41-48, rus) 35-2030

Physical characteristics and life expectancy of tabular antarctic icebergs Orheim, O , (1980, p 11-18, eng) 35-2198

Iceberg melt-driven convection Josberger, E G , et al. (1980, p 113-117, eng) 35-2215

Studies of the temperature-dependence of the brine content of sea ice by the pulse NMR method Mel'nichenko, N A , et al. (1981, 6p , eng) 35-2589

Ablation in a vertical ice profile in Greenland Ambach, W , (1979, p 55-62, ger) 35-2644

Mass balance and its relationship with characteristics of glaciers Xie, Z , (1980, p 1-10, chi) 35-2910

Climate into ice: the isotopic record in polar ice sheets Robin, G de Q , (1981, p 207-216, eng) 35-3031

Temperature profiles at Mizuho Station Nishio, F , et al. (1981, p 239-246, eng) 35-3035

Responses of ice sheets to environmental changes Young, N W , (1981, p 331-360, eng) 35-3038

Multi-year sea ice investigation in the East Greenland Current Overgaard, S , (1980, 69p , eng) 35-3082

Shallow-depth temperature models for Dome C Ewing, R E , (1980, p 75-76, eng) 35-3181

Temperature dependence of brine content in sea ice Mel'nichenko, N A , et al. (1980, p 535-537, eng) 35-3304

Observation of sea ice properties with the NIMBUS-7 SMMR Cavalieri, D J , et al. (1981, p 69-78, eng) 35-3433

Interpretation of monopulse ice radar soundings on two Peruvian glaciers Jezek, K C , et al. (1981, p 958-973, eng) 35-3588

Contribution to the geochemical study of the ice cover on James Ross Island, Antarctic Peninsula Aristarain, A J , et al. (1980, p 113-126, spa) 35-3774

Relationship of stress and strain in sea ice Denner, W W , (1980, p 5-32, eng) 35-3836

Measurement of sea ice microwave properties Troy, B E , et al. (1981, p 4283-4289, eng) 35-3914

Ice thermal properties

Infiltration and freezing of sea water in coastal glaciers Dubrovin, I I , et al. (1980, p 104-108, rus) 35-1462

Winter thermal structure, ice conditions and climate of Lake Champlain Bates, R E , (1980, 26p , eng) 35-2585

Studies of the temperature-dependence of the brine content of sea ice by the pulse NMR method Mel'nichenko, N A , et al. (1981, 6p , eng) 35-2589

Observation of sea ice properties with the NIMBUS-7 SMMR Cavalieri, D J , et al. (1981, p 69-78, eng) 35-3433

Ice vapor interface

Albedo variations of ice on Lake Simcoe, Canada, March 1978 Reid, J D , et al. (1980, p 168-176, eng) 35-2458

Ice veins

Badland topography in the Arctic Kozhuev, S S , (1978, p 95-96, rus) 35-15

Faulting and plastic deformation of frozen fines Ermolin, E D , (1979, p 42-66, rus) 35-188

Periglacial phenomena in the Chaglinka River valley Meshchikhin, D A , (1979, p 131-140, rus) 35-195

Podsolization in northern taiga Vasil'evskaia, V D , et al. (1980, p 94-101, rus) 35-501

Geocryological conditions of formation of Upper Pleistocene and Holocene deposits in the northern eastern USSR Novoseletskii, R N , ed. (1976, 88p , rus) 35-1143

Ice bearing loess in the Yana-Omolov Interfluve Tomirdiaro, S V , et al. (1976, p 3-11, rus) 35-1144

Surface glaciation and permafrost of West Siberia Kaplianskaia, F A , et al. (1978, p 18-28, rus) 35-1421

Mechanism of ice vein pseudomorphism Khrutskii, S F , (1979, p 163-171, rus) 35-1837

Marine sediments and permafrost structure in Severnaya Zemlya Kostaev, A G , et al. (1981, p 183-187, rus) 35-2767

Origin of perennially frozen fines (Edoma deposits) Gasanov, Sh Sh , et al. (1979, p 143-156, rus) 35-3047

Cryolithologic analysis Gasanov, Sh Sh , (1981, 195p , rus) 35-3211

Origin of frozen loess (Edoma) formation in Yakutia Viturin, B , et al. (1980, p 265-271, rus) 35-3232

Ground ice development in East Yakutia Gordeev, P P , (1980, p 141-147, rus) 35-3329

Mining excavations in ice-bearing granites Gol'dman, V G , (1976, p 73-76, rus) 35-3832

Ice volume

Passive microwave imagery of sea ice at 33 GHz Ketchum, R D , et al. (1980, p 211-223, eng) 35-1128

Morphometric features of the antarctic ice cover Aver'ianov, V G , (1980, p 5-9, rus) 35-2024

Late Wisconsin-Weichselian mountain glaciers and ice caps Hollin, J T , et al. (1981, p 179-206, eng) 35-2065

Protection of the environment in northern Siberia Gerasimov, I P , (1980, p 191-202, eng) 35-2626

Role of naleds in water balance of river basins Lebedev, V M , et al. (1980, p 86-93, rus) 35-2879

Oceanic mechanisms for amplification of the 23,000-year ice-volume cycle Ruddiman, W F , et al. (1981, p 617-627, eng) 35-3136

Antarctic precipitation and global sea level Oerlemans, J , (1981, p 770-772, eng) 35-3364

Ice water interface

Free convection heat transfer characteristics in a melt water layer Yen, Y -C , (1980, p 550-556, eng) 35-103

Sea ice properties and ice core analysis, Beaufort Sea, 1979 Langhorne, P J , et al. (1980, 172p , eng) 35-335

On the rebound of supercooled droplets colliding with ice plate (2) Kajikawa, M , et al. (1979, p 93-102, eng) 35-516

Wave formation and heat transfer at an ice water interface Gilpin, R R , et al. (1980, p 619-640, eng) 35-521

Proceedings (1980, 505p , eng) 35-545

Modeling of anisotropic electromagnetic reflection from sea ice Golden, K M , et al. (1980, p 247-294, eng) 35-554

Ice freeboard determination by satellite altimetry Stanley, H R , et al. (1980, p 295-304, eng) 35-555

Effect of bubbles released from a melting antarctic ice Josberger, E G , (1980, p 474-477, eng) 35-1053

Biology of the Central Arctic Basin Vinogradov, M E , ed. (1980, 260p , rus) 35-1312

Cryopelagic fauna of the Central Arctic Basin Mel'nikov, I A , et al. (1980, p 97-111, rus) 35-1318

New approach to the morphological stability of the Stefan problem Lièvre, C , et al. (1980, p 119-133, eng) 35-1497

Phase transitions of high pressure ice and water Yamamoto, K , (1980, p 1841-1845, eng) 35-1672

Heat, mass and momentum transfer during ice sheet melting Srivastava, P K , (1979, 110p , eng) 35-1987

Nonsteady ice drift in the Strait of Belle Isle Sodhi, D S , et al. (1980, p 177-186, eng) 35-2168

Oil in sea ice Lewis, E L , (1976, 26p , eng) 35-2247

Mathematic-thermodynamic analysis of the anomalies of water Trincher, K , (1981, p 433-448, eng) 35-2460

Lake overflow - a hazard to winter travel in northern regions Nelson, W G , (1981, p 264-277, eng) 35-2508

Hydraulic resistance generated by frazil ice formation Gosink, J P , et al. (1981, p 192-194, eng) 35-2551

Wave-ice interaction Evans, D V , et al. (1968, 102p , eng) 35-2647

Model of rotating convective rolls in water over a freezing front Azoumi, M A , (1981, p 450-454, eng) 35-3521

Mobile water phase on ice surfaces Kvlividze, V I , et al. (1974, p 60-68, eng) 35-3628

What is the temperature change in pressure melting Offenbacher, E L , (1981, p 155-156, eng) 35-3672

Reply to 'a comment on "pressure melting"' Spring, I , (1981, p 157, eng) 35-3673

Interaction of the water molecule with a rigid prism face of ice Hale, B N , et al. (1981, p 1991-1995, eng) 35-4155

Ice (water storage)

Fluvio-glacial balance of the Arctic Kotlakov, V M , et al. (1980, p 11-21, rus) 35-1565

Role of naleds in water balance of river basins Lebedev, V M , et al. (1980, p 86-93, rus) 35-2879

Ice wedges

Permafrost and relation between glaciation and periglaciation. Cui, Z., [1980, p 1-6, chi] **35-117**

Sub-surface processes related to ground water and ice. Embleton, C., et al, [1979, p 187-212, eng] **35-1687**

Frost fracturing processes. Tumel', N.V., [1979, p 26-49, rus] **35-1829**

Material composition of Edoma series. Kuznetsov, IU.V., [1979, p 136-144, rus] **35-1834**

Structure and growth of ice wedges. Solomatin, V.I., [1979, p 157-162, rus] **35-1836**

Wedge-shaped deformations in alassy complexes. Velikotskii, M.A., [1979, p 172-182, rus] **35-1838**

Segregated ice, frost heave and thermokarst in permafrost. Pissart, A., [1975, p 89-96, fre] **35-1994**

Ground ice distribution maps. Ivanov, M.S., [1980, p 58-75, rus] **35-2191**

Buried soils in the Edoma formation of Yakutia. Gubin, S.V., [1980, p 171-173, rus] **35-2308**

Development of polygonal wedge microrelief. Romanovskii, N.N., [1974, p 67-78, rus] **35-2397**

Correlation of perennially frozen rocks. Kaplina, T.N., et al, [1980, p 74-81, rus] **35-2454**

Lake drainage, Richards Island, N.W.T. Mackay, J.R., [1981, p 63-68, eng] **35-3084**

Vegetation and ice-wedge polygons through the thaw-lake cycle in N. Alaska. Billings, W.D., et al, [1980, p 413-432, eng] **35-3197**

Cryolithologic analysis. Gasanov, Sh.Sh., [1981, 195p., rus] **35-3211**

Thermodelapsing formations: deposits of young thermokarst basins. Ivanov, M.S., [1980, p 132-140, rus] **35-3328**

Ground ice development in East Yakutia. Gordeev, P.P., [1980, p 141-147, rus] **35-3329**

Physical framework for describing the genesis of ground ice. Pavlik, H.F., [1980, p 531-548, eng] **35-3555**

Recent processes which formed the present surface of the Yana-Indigirka Plain. Egorova, G.N., [1976, p 55-65, rus] **35-3830**

Late Cenozoic permafrost of Yakutia. Kaplina, T.N., [1981, p 153-181, rus] **35-4078**

On ice-wedge polygons in Oland. Svensson, H., [1979, p 110-112, swe] **35-4215**

Iceberg towing

Iceberg water: an assessment. Weeks, W.F., [1980, p 5-10, eng] **35-2197**

Some environmental questions: an after-dinner address. Holdgate, M.W., [1980, p 135-136, eng] **35-2219**

Icebergs

Geophysical survey of Greenland continental shelf. Brett, C.P., et al, [1979, 29p., eng] **35-111**

Sea ice and icebergs. Peters, G.R., [1979, p 41-59, eng] **35-162**

On the drift ice conditions in the Atlantic sector of the Antarctic. Vinje, T.E., [1979, p 75-82, eng] **35-164**

Eastern Arctic marine environmental study program. Loken, O.H., [1979, p 139-152, eng] **35-168**

Underground technology for offshore hydrocarbon development in Antarctica. Splettstoesser, J.F., [1979, p 233-245, eng] **35-173**

Overview on the seasonal sea ice zone. Weeks, W.F., et al, [1979, p 320-337, eng] **35-178**

Ice and iceberg studies using state-of-the-art remote sensing. Lowry, R.T., et al, [1979, p 551-569, eng] **35-180**

Physics of ice and ocean. Bogorodskii, V.V., ed, [1980, 157p., rus] **35-360**

Underwater acoustic emission of Antarctic icebergs. Gusev, A.V., et al, [1980, p 62-66, rus] **35-371**

Geological survey of east antarctic continental margin. Anderson, J.B., et al, [1979, p 142-144, eng] **35-678**

Deflection of icebergs by anchors. Mellor, D.C., [1980, p 87-88, eng] **35-821**

Floating platforms and excavations to protect subsea equipment from icebergs. Duval, J., et al, [1980, p 81-86, eng] **35-831**

Melting of ice in cold stratified water. Huppert, H.E., et al, [1980, p 953-960, eng] **35-1060**

Characteristics of iceberg drift. Eskin, L.I., [1980, p 68-76, rus] **35-1455**

Iceberg drift in the Antarctic Circumpolar Current. Eskin, L.I., [1980, p 77-81, rus] **35-1456**

Iceberg distribution in the Atlantic sector of East Antarctica (1977-78). Kuznetsov, I.M., [1980, p 82-87, rus] **35-1457**

Computational error during navigation among icebergs. Utusikov, IU.D., [1980, p 125-129, rus] **35-1464**

Sediment-laden icebergs in antarctic waters. Anderson, J.B., et al, [1980, p 387-396, eng] **35-1502**

North Atlantic ice conditions, 1979. [1979, 64p., eng] **35-1759**

Ice blocks melting into a salinity gradient. Huppert, H.E., et al, [1980, p 367-384, eng] **35-1910**

Preliminary estimate of ice cover flow in Antarctica using seismic data. Sytinskii, A.D., et al, [1980, p 36-40, rus] **35-2029**

Island design proposed for "iceberg alley" fields. Robertson, F.P., et al, [1981, p 85-88, 93, eng] **35-2072**

Proceedings of the 1980 conference on the use of icebergs. [1980, 136p., eng] **35-2196**

Iceberg water: an assessment. Weeks, W.F., [1980, p 5-10, eng] **35-2197**

Physical characteristics and life expectancy of tabular antarctic icebergs. Orheim, O., [1980, p 11-18, eng] **35-2198**

Temperature of antarctic icebergs and the surrounding water. Foldvik, A., et al, [1980, p 19-22, eng] **35-2199**

Measurements of oscillations and flexure of icebergs. Foldvik, A., et al, [1980, p 29-30, eng] **35-2201**

Sonar studies of icebergs, ice fronts and ice walls. Klepsvik, J.O., et al, [1980, p 31-36, eng] **35-2202**

Stability of icebergs. Bass, D.W., [1980, p 43-47, eng] **35-2204**

Catastrophe theory for analyzing iceberg stability. Nye, J.F., et al, [1980, p 49-54, eng] **35-2205**

Iceberg oscillations and ocean waves. Schwerdtfeger, P., [1980, p 63-65, eng] **35-2207**

Flow around icebergs. Foldvik, A., et al, [1980, p 67-70, eng] **35-2208**

Iceberg-seabed interaction (northern Labrador Sea). Barrie, J.V., [1980, p 71-76, eng] **35-2209**

Prediction of an iceberg drift trajectory during a storm. Sodhi, D.S., et al, [1980, p 77-82, eng] **35-2210**

Some satellite-tracked iceberg drifts in the Antarctic. Vinje, T.E., [1980, p 83-87, eng] **35-2211**

Investigations on the currents influencing iceberg motion. Dhallum, M., [1980, p 89-93, eng] **35-2212**

Physical processes involved in the melting of icebergs. Huppert, H.E., [1980, p 97-101, eng] **35-2213**

Antarctic iceberg melt rate. Budd, W.F., et al, [1980, p 103-112, eng] **35-2214**

Iceberg melt-driven convection. Josberger, E.G., et al, [1980, p 113-117, eng] **35-2215**

Melting of free-drifting icebergs. Russell-Head, D.S., [1980, p 119-122, eng] **35-2216**

Iceberg dynamical modelling. Mauviel, F., [1980, p 123-127, eng] **35-2217**

South African iceberg power and water project. DeMarle, D.J., [1980, p 129-133, eng] **35-2218**

Hydrodynamic effects on iceberg gouging. Lopez, R., et al, [1981, p 55-61, eng] **35-2418**

Icebergs threaten offshore oil industry. Goblot, R., [1977, p 9-11, fre] **35-2422**

On the estimation of antarctic iceberg melt rate. Neshyba, S., et al, [1980, p 1681-1685, eng] **35-2471**

New data on the dynamics of ice shelves in the Weddell Sea. Zakharov, V.G., et al, [1980, p 181-185, rus] **35-2828**

International ice patrol. [1981, p 20-31, eng] **35-2884**

Icebergs. Wang, C., [1979, p 82-83, chi] **35-2909**

Observation of the east wind drift current using tracked icebergs. Tchernia, P., [1980, p 83, eng] **35-3187**

USCGC *Glacier* Deep Freeze 80. Anderson, J.B., et al, [1980, p 58-75, eng] **35-3191**

Mechanism for the formation of large icebergs. Holdsworth, G., et al, [1981, p 3210-3222, eng] **35-3371**

Controlling iceberg roll stability during towing around drillships. Benedict, C.P., et al, [1981, p 109-114, eng] **35-3446**

Iceberg detection for Canadian frontier production. Lewis, J.C., et al, [1981, p 115-122, eng] **35-3447**

Final SURSAT Ice Workshop, Toronto, 1980. [1981, 7 sections, eng] **35-3656**

Glacier threatens shipping lanes. [1980, p 10-16, eng] **35-3854**

Icebergs on the Grand Banks: oil and gas considerations. Lewis, J., et al, [1981, p 109-114, eng] **35-4014**

Field experiments on antarctic tabular icebergs. Kristensen, M., et al, [1981, p 435-448, eng] **35-4342**

Icebound lakes

Winter oxygen loss in three southern Ontario lakes. Jackson, M.B., [1980, p 149-159, eng] **35-47**

Pipeline construction on ice with subsequent sinking. Kamyshev, M.A., et al, [1980, p 36-37, rus] **35-316**

Radar technique of studying peat and sapropel deposits. Bogorodskii, V.V., et al, [1980, p 27-29, rus] **35-365**

Sewage disposal and environmental impact in winter. Slaughter, R., et al, [1979, p 547-558, eng] **35-433**

Calculating thickness of melting ice covers. Ergin, V.P., [1980, p 51-55, rus] **35-454**

Factors controlling oxygen depletion in ice-covered lakes. Mathias, J.A., et al, [1980, p 185-194, eng] **35-1164**

Hydrology and hydrochemistry of water bodies in different climatic zones. Ivanov, A.V., ed, [1980, 159p., rus] **35-2331**

Vertical temperature distribution in lakes during subglacial warming of water in the spring. Ivanov, A.V., et al, [1980, p 3-14, rus] **35-2332**

WREL, Water Resources Engineering, Lulea: the activities of the division. [1980, 46p., eng] **35-3793**

Horizontal mixing in water quality modelling. Bengtsson, L., [1980, p 401-416, eng] **35-3794**

Water seepage from Lake Syrdakh. Tishin, M.I., [1980, p 90-97, rus] **35-3998**

Behavior of a polar ice-dammed lake, Ellesmere Island, Canada. Blachut, S.P., et al, [1981, p 63-74, eng] **35-4084**

Forecasting maximum water level during ice jamming in the pinch-out area of the Novosibirsk water reservoir (Ob' River). Liser, I.IA., [1981, p 11-20, rus] **35-4300**

Equation for calculating melting ice cover on water bodies. Ergin, V.P., [1981, p 29-38, rus] **35-4302**

Lake Erie in mid-winter. Burns, N.M., et al, [1978, p 134-141, eng] **35-4320**

Icebound rivers

Winter variations in water quality of arctic and subarctic rivers. Schreier, H., et al, [1980, p 1345-1351, eng] **35-113**

Microbial dynamics of two sub-Arctic Canadian rivers. Albright, L.J., et al, [1980, p 1353-1362, eng] **35-114**

Microbial activities and Canadian river-bank materials and sediments. Albright, L.J., et al, [1980, p 1363-1366, eng] **35-115**

Construction of underwater pipelines from ice cover. Vil'danov, R.T., [1980, p 34-35, rus] **35-315**

Pipeline construction on ice with subsequent sinking. Kamyshev, M.A., et al, [1980, p 36-37, rus] **35-316**

River crossing in freezing weather. Kachanov, P., [1980, p 31-33, rus] **35-339**

Forecasting ice-breakup water levels. Liser, I.IA., [1980, p 3-8, rus] **35-451**

Sustained loading and temperature effects on ice strength. Zanegin, V.G., et al, [1978, p 85-87, rus] **35-754**

Calculating ice cover strength on rivers. Zabelina, E.F., [1980, p 77-84, rus] **35-787**

Icebreaker operation. Trashchenko, V., [1980, p 17, rus] **35-909**

Ice navigation on rivers. Popov, V., [1980, p 22, rus] **35-911**

Calculating discharge of icebound rivers. Riazanov, V.S., [1980, p 68-77, rus] **35-1005**

Investigations, calculations and forecasts of ice conditions on rivers. Donchenko, R.V., ed, [1980, 118p., rus] **35-1009**

Changes in river ice conditions due to runoff diversion. Buzin, V.A., et al, [1980, p 20-32, rus] **35-1012**

Evaluating ice jam water levels. Buzin, V.A., [1980, p 33-39, rus] **35-1013**

Problems in meteorology and hydrology of Siberia. [1976, 218p., rus] **35-1189**

Classification of floods and their effects on natural environments and economic development of the Ob' and Chul'im river floodplains. Krasheninnikov, M.V., [1976, p 128-136, rus] **35-1191**

Study and preservation of water resources (1971-1975). Shablevskaia, V.A., ed, [1976, 128p., rus] **35-1366**

Calculating flooding during ice jams. Orlova, T.B., [1976, p 87-89, rus] **35-1368**

Calculating subglacial passage capacity of rivers. Marusenko, IA.I., [1976, p 89-91, rus] **35-1369**

Extending the navigation period on rivers. Vinogradova, N., [1980, p 24-25, rus] **35-1606**

Freeze-up of rivers in the Baykal-Amur railroad zone. Liubimov, G.A., [1980, p 64-73, rus] **35-1796**

Temporary bridges in permafrost areas. Rasskazov, I.D., et al, [1981, p 6-8, rus] **35-2843**

Forecasting ice breakup in rivers. Lobovikova, Z.P., [1980, p 29-34, rus] **35-2876**

Formulas for calculating ice breakup on rivers. Shilina, L.I., [1980, p 63-68, rus] **35-2877**

Permafrost effect on the length of river freeze/up period. Riabova, L.I., [1980, p 77-85, rus] **35-2878**

Ice cover thickness from radar data. Chizhov, A.N., et al, [1980, p 112-124, rus] **35-2982**

Ice loads on bridge piers. Koren'kov, V.A., [1980, p 10-11, rus] **35-3004**

Spring ice jams in stream channels: physical principles and quantitative analysis. Deev, IU.A., et al, [1981, 175p., eng] **35-3278**

Equation for calculating melting ice cover on water bodies. Ergin, V.P., [1981, p 29-38, rus] **35-4302**

Icebreakers

Research priorities for Arctic ships. Voelker, R.P., [1979, p 571-581, eng] **35-181**

First Soviet-built Arctic icebreakers. Stefanovich, A.N., [1980, p 55-58, rus] **35-318**

Designing ice-breaking cargo ships. Kashtelian, V.I., et al, [1979, p 4-6, rus] **35-319**

Acoustic effects of breaking sea ice. Bogorodskii, P.V., et al, [1980, p 67-70, rus] **35-372**

Determining ice cover morphology by acoustic measurements. Bogorodskii, P.V., et al, [1980, p 71-73, rus] **35-373**

Ship operations, Deep Freeze '79. Eckman, J.F., [1979, p 234-235, eng] **35-682**

Pathfinder for Arctic exploitation. [1980, p 346-347, eng] **35-743**

Icebreaker equipped for scientific studies. Pak, V., et al, [1980, p 43-46, rus] **35-789**

Model of the atomic icebreaker *Arktika*. Kostychev, A., [1980, p 72-74, rus] **35-790**

Extending river navigation in winter. Aleksandrov, V., [1979, p 35-37, rus] **35-902**

Extending ice navigation on rivers. Ovchinnikov, F., [1980, p 6-7, rus] **35-904**

Operation of icebreakers. Lapin, IU., et al, [1980, p 29-30, rus] **35-907**

Testing river icebreakers. Tronin, V., et al, [1980, p 14-16, rus] **35-908**

Icebreaker operation. Trashchenko, V., [1980, p 17, rus] **35-909**

Automated systems of icebreakers — Martynov, V., (1980, p.49, rus) **35-942**

Present and future utilization of icebreakers — Garrett, J.M., (1980, p.101-103, eng) **35-1072**

Breaking ice with gravity waves — Bates, H.F., et al, (1980, p.148-153, eng) **35-1108**

Multi-purpose icebreakers — Peschanskii, A., (1980, p.40-41, rus) **35-1138**

Discussions of paper on excessive propeller shaft vibration in icebreakers, (1980, p.70-85, 100-110, eng) **35-1383**

Icy routes — Nikolaeva, V.G., et al, (1980, 128p., rus) **35-1574**

Pressure ridges and ice resistance to moving ships — Sergeev, G.N., et al, (1980, p.100-104, rus) **35-1594**

Extending the navigation period on rivers — Vinogradova, N., (1980, p.24-25, rus) **35-1606**

Frictional characteristics of materials sliding against ice — Calabrese, S.J., et al, (1980, p.283-289, eng) **35-1953**

Corrosion of welds in ice breaking ships - a review — Gilmour, J.B., (1980, 10p., eng) **35-2166**

Marine transportation system analysis in Alaskan waters — Macpherson, M.D., (1980, 486p., eng) **35-2575**

Icebreaking concepts — Mellor, M., (1980, 18p., eng) **35-2593**

Evaluation of ice deflectors on the USCG icebreaker *Polar Star* — Vance, G.P., (1980, 37p., eng) **35-2595**

Research icebreaker *Otto Schmidt* — Oliger, B.A., et al, (1980, p.3-6, rus) **35-2634**

Electrical installations of the "Kapitan M. Izmailov" type icebreakers — Bykov, A.S., et al, (1980, p.31-33, rus) **35-2635**

Modeling icebreaker movement in continuous and in broken ice — Nogid, L.M., (1959, p.45-62, rus) **35-2764**

Subglacial towing of a drift vessel — Pikul', V., (1981, p.24-26, rus) **35-2854**

Ship operations, *Deep Freeze* 80 — Taylor, P.R., (1980, p.230-232, eng) **35-3195**

Routes in the ice — Chubakov, K., et al, (1980, p.104-111, rus) **35-3231**

Icebreaking proceedings on the upper Chesapeake Bay — Gamp, H.W., (1981, p.71-78, eng) **35-3361**

Longitudinal stiffness analyses for the propulsion shafting systems of the polar class icebreakers — Vassilopoulos, L., et al, (1921, p.179-195, eng) **35-3561**

What is the future of the Northwest Passage — Pharand, D., (1980, p.2-7, fre) **35-3640**

Wartsila's new icebreaking laboratory, (1981, p.176, 179, eng) **35-3694**

Quadruple-screw river icebreakers for USSR, (1981, p.181, eng) **35-3695**

Arctic bulk carriers from the GDR, (1981, p.182, 184-185, eng) **35-3696**

Observed growth of brash ice in ship's tracks — Sandkvist, J., (1980, 23p. + 42 figs., eng) **35-3710**

Measurements of ice breaking loads — Iyer, S.H., (1980, p.275-302, eng) **35-3846**

Ice surveying methods and results — Borodachev, V.E., ed, (1981, 144p., rus) **35-3933**

Peculiarities of sea ice breaking by icebreakers — Kupetskii, V.N., (1981, p.89-91, rus) **35-3952**

Radar measurements of ice cover thickness in the Arctic Ocean — Finkel'shtein, M.I., et al, (1981, p.117-119, rus) **35-3958**

Scientific information to icebreakers in the Arctic Ocean — Arikainen, A.I., (1981, p.137-139, rus) **35-3961**

Economics of ice navigation in the northern Gulf of Bothnia — Johansson, B.M., (1977, 8p. + appens., eng) **35-4177**

Ice-induced stresses in the shell of an icebreaker — Varsta, P., (1977, 26p. + figs., eng) **35-4178**

Ice pressure and ice-induced stresses on an icebreaker — [illegible] **35-4180**

Forecasting ice cover thickness on rivers — Chernov, I.M., (1981, p.21-28, rus) **35-4301**

Icefoot

Temporal and spatial variability of ice-foot morphology — Wiseman, W.J., et al, (1981, p.69-80, eng) **35-4021**

Iceland

Consequences for Iceland and Europe of the Arctic cooling trend — Schunke, E., (1979, p.282-291, eng) **35-357**

Avalanche activity in Iceland, climatic conditions, and terrain features — Bjornsson, H., (1980, p.13-23, eng) **35-2343**

Forecasting flooding of glacial rivers — Rist, S., (1980, p.110-111, 178-179, rus) **35-2827**

Icequakes

Earth sciences research in the McMurdo Sound region, 1979-1980 — Nagata, T., (1980, p.12, eng) **35-3167**

Seismotectonic studies of western Alaska and sea ice studies in Beaufort Sea — Biswas, N.N., et al, (1981, p.575-618, eng) **35-3250**

Observations of natural ice-micro-tremors of the Hans Glacier — Gorski, M., (1975, p.95-100, eng) **35-3612**

Results of investigations into microquakes on the Hans Glacier — Czajkowski, R., (1977, p.119-138, eng) **35-3625**

Icing

Activities of the Norwegian Meteorological Institute in polar regions — Haland, L., (1979, p.153-178, eng) **35-169**

Protecting water intakes from icing — Minidin, V.I., (1980, p.64-65, rus) **35-605**

Review of technology for Arctic offshore oil and gas recovery. Vol.1 — Sackinger, W.M., (1980, 95p., eng) **35-1061**

Report of the Workshop on Arctic Oil and gas Recovery, 1980 — Sackinger, W.M., (1980, 38p., eng) **35-1062**

Seminar on the studies of naleds — Alekseev, V.R., et al, (1980, p.272, rus) **35-1258**

Deformation compensator performance in freezing pipelines — Danilova, N.P., (1980, p.111-115, rus) **35-1365**

Winter performance of hydraulic piston pumps — Kazak, A.S., (1980, p.44-45, rus) **35-1607**

Preventing the icing of stationary gas-turbine plants — Kuznetsov, V.I., et al, (1980, 120p., rus) **35-1655**

Observation of rime and glaze deposits in Quebec — Fehn, B., (1976, 53p. + Appends., eng) **35-1907**

Icing on structures — Minsk, I.D., (1980, 18p., eng) **35-2003**

Preventing ice formation in tunnels — Tetel'baum, A.N., et al, (1981, p.48-49, rus) **35-2090**

Attack under winter conditions — Georgiev, E., (1980, 6p., eng) **35-2152**

Superstructure icing study — Wise, J.L., et al, (1980, 10p. + figs., eng) **35-2582**

Operating water intakes in freezing weather — Medvedev, T.A., (1981, p.4-5, rus) **35-2773**

Computing ice loads on television towers — Degtiarev, A.D., (1980, p.57-62, rus) **35-2985**

Using liquid fuels at low temperatures — Engim, B.A., (1980, 207p., rus) **35-2998**

Using rock salt byproducts for preventing road pavement icing — Ermolenko, V.A., et al, (1980, p.15-16, rus) **35-3009**

De-icing radar scanners — Hickman, D., (1980, 7p. + appends., eng) **35-3772**

Superstructure icing in Alaskan waters — Wise, J.L., et al, (1980, 30p., eng) **35-3791**

Automobiles designed for the Far North — Anopchenko, V., (1981, p.16, rus) **35-3800**

Atmospheric ice accretion on stationary structures — Makkonen, L., (1981, p.595-600, eng) **35-4156**

Icing rate

Atlases of hydrometeorological phenomena especially dangerous for sea navigation — Kornushin, O.G., et al, (1980, p.3-7, rus) **35-27**

Igneous rocks

Mining excavations in ice-bearing granites — Gol'dtman, V.G., (1976, p.73-76, rus) **35-3832**

Impact

Proceedings — Volume 2, (1981, p.711-1378, eng) **35-4164**

Modeling hydrologic impacts of winter navigation — Daly, S.F., et al, (1981, p.1073-1080, eng) **35-4166**

Impact strength

Dynamic structural response of a massive pier — Lipsett, A.W., et al, (1979, 47p., eng) **35-116**

Impact properties of St. Lawrence River ice — Michel, B., et al, (1971, 78p., fre) **35-329**

Impact strength of frozen soils — Vovk, A.A., et al, (1980, p.64-69, eng) **35-497**

Ship resistance in thick brash ice — Mellor, M., (1980, p.305-321, eng) **35-748**

Calculating strength of ice floe impact against separate supports — Khrapaty, N.G., et al, (1978, p.81-85, rus) **35-753**

Dynamic tests and analyses of a massive pier subjected to ice forces — Montgomery, C.J., et al, (1980, p.432-441, fre) **35-835**

Numerical simulation of snow avalanche impact on structures — Lang, T.E., et al, (1980, 21p., eng) **35-849**

Snow-avalanche impact on structures — Lang, T.E., et al, (1980, p.445-455, eng) **35-1507**

Impact fuse performance in snow (Initial evaluation of a new test technique) — Aitken, G.W., et al, (1980, p.31-45, eng) **35-1584**

Hull resistance test in floe of synthetic ice, (1980, p.1-6, jap) **35-1963**

Symposium on snow in motion, (1980, 527p., eng) **35-2342**

Study on high-speed avalanches in the Kurobe Canyon, Japan — Shimizu, H., et al, (1980, p.141-151, eng) **35-2357**

Seismic and impact-pressure monitoring of flowing avalanches — Schaerer, P.A., et al, (1980, p.179-187, eng) **35-2360**

Scale modeling of snow-avalanche impact on structures — Lang, T.E., et al, (1980, p.189-196, eng) **35-2361**

Threshold wind-speeds and elastic impact in snow transport — Schmidt, R.A., (1980, p.453-467, eng) **35-2386**

Ice force measurement on the Yukon River bridge — McFadden, T., et al, (1981, p.749-777, eng) **35-2536**

Cost of ice damage to shoreline structures during navigation — Carey, K.L., (1980, 33p., eng) **35-2599**

Resistance of concrete walls to high concentrated ice loads — Gerwick, B.C., et al, (1981, p.425-436, eng) **35-3450**

Avalanche movement, impact and wind — Moskalev, I.U.D., (1980, p.13-22, rus) **35-3571**

Design of avalanche protection structures — Bilialov, K.B., (1980, p.79-84, rus) **35-3577**

Avalanche dynamics - what has to be measured — Kotnei, H.J., (1979, p.165-175, ger) **35-3725**

Avalanches — Schaerer, P.A., (1981, p.475-518, eng) **35-3756**

Ice loads acting on the ship's hull during interaction with ice — Edwards, R., et al, (1980, p.267-274, eng) **35-3845**

Measurements of ice breaking loads — Iyer, S.H., (1980, p.275-302, eng) **35-3846**

Instrumentation of a small island to measure pack ice forces — Jones, J.M., (1980, p.323-342, eng) **35-3848**

Ice force measurements in Finnish lighthouses — Maattanen, M., (1980, p.343-353, eng) **35-3849**

Icebergs on the Grand Banks: oil and gas considerations — Lewis, J., et al, (1981, p.109-114, eng) **35-4014**

Ice-induced stresses in the shell of an icebreaker — Varsta, P., (1977, 26p. + figs., eng) **35-4178**

Methods for calculating the travel distance and impact pressure of flowing avalanches — Laatsch, W., et al, (1981, 125p., ger) **35-4211**

Small prototype cone tests, winter 1974-75 — Verity, P.H., (1975, 95p. + appends., eng) **35-4214**

Impact tests

Plastic deformation of fresh-water ice — Bogorodskii, V.V., et al, (1980, p.43-50, rus) **35-368**

Fracture behavior of ice in Charpy impact testing — Itagaki, K., et al, (1980, 13p., eng) **35-973**

Dynamic testing of free field stress gages in frozen soil — Aitken, G.W., et al, (1980, 26p., eng) **35-2601**

Impurities

Tales the ice can tell, (1978, p.15-21, eng) **35-401**

Microparticle deposition at South Pole — Mosley-Thompson, E., et al, (1979, p.91-93, eng) **35-665**

Formation of moraine deposits — Lavrushin, IU.A., (1980, p.123-135, rus) **35-809**

Speed of movement of fluid crystallization fronts — Zhekamukhov, M.K., (1980, p.40-46, rus) **35-1200**

Global emissions of trace metals into the atmosphere — Nriagu, J.O., (1979, p.409-411, eng) **35-1217**

Trace metals in remote Arctic snows: natural or anthropogenic — Landy, M.P., et al, (1980, p.574-576, eng) **35-1218**

Analysis of Cl-36 in environmental water samples using an electrostatic accelerator — Elmore, D., et al, (1979, p.22-25, eng) **35-1593**

Historical record of global atmospheric pollution revealed in polar ice sheets — Boutron, C., et al, (1980, p.210-215, eng) **35-2470**

Microparticle concentration in the 905-meter Dome C core — Mosley-Thompson, E., et al, (1980, p.71-75, eng) **35-3180**

Formation of sediment-laden sea ice — Osterkamp, T.E., et al, (1981, p.641-662, eng) **35-3268**

Short-term fluctuations in heavy metal concentrations in antarctic snow — Landy, M.P., et al, (1981, p.144-146, eng) **35-3368**

Ice core drilling on Dome C — Lorius, C., et al, (1979, p.26-34, eng) **35-3369**

Model of rotating convective rolls in water over a freezing front — Azouni, M.A., (1981, p.450-454, eng) **35-3521**

Flexural strength of ice grown from chemically impure melts — Timco, G.W., (1981, p.81-92, eng) **35-3665**

Spectral albedos of an alpine snowpack — Grenfell, T.C., et al, (1981, p.121-127, eng) **35-3668**

911 years of microparticle deposition at the South Pole — Mosley-Thompson, E., (1980, 134p., eng) **35-3809**

Deposition of trace metals and sulfates onto arctic snow — Davidson, C.I., (1981, 59p., eng) **35-4248**

[illegible] — [illegible] **35-4297**

Indicating instruments

Construction of reference points for pack ice melting studies — Nazintsev, IU.L., (1980, p.102-103, rus) **35-1461**

Industrial buildings

Modular construction in Siberia — Grech, V.I., (1980, p.32-33, rus) **35-1**

Modular construction in Permafrost areas — L'vov, B.L., (1980, p.5-9, rus) **35-445**

Modular construction in West Siberia — Granaturova, I.P., et al, (1980, p.5-7, rus) **35-448**

External walls of buildings erected on permafrost — Zlatinskaia, T.V., (1980, p.20-22, rus) **35-460**

Building construction in the North — Sergeev, A.F., et al, (1980, p.7-10, rus) **35-461**

Calculating optimal thermal insulation levels for buildings — Boguslavskii, L.D., et al, (1979, p.15-16, rus) **35-464**

Sand-concrete panels for building partitions — Isaenko, A.G., et al, (1980, p.19-21, rus) **35-502**

Modern design of modular buildings — Gel'man, E.A., (1980, p.61-66, rus) **35-604**

Exhibition: Foundation construction in the USSR — Smirnov, L.V., (1980, p.42-45, rus) **35-608**

Science assists the builders of Siberia and the Far East — Chentemirov, M.G., (1980, 192p., rus) **35-1136**

Improving watertightness of large panel buildings — Omel'chenko, A.A., et al, (1980, 95p., rus) **35-1575**

Industrial buildings *(cont.)*
Construction of hydroelectric developments in the North Beliakov, A.A., et al. (1980, p.68-72, rus) **35-1636**
Modern foundation design for buildings and underground structures (1980, p.7-9, rus) **35-1647**
Urban planning in Siberia. Pertsik, E.N. (1980, 286p., rus) **35-1898**
Urban construction in Siberia. Ogly, B.I. (1980, 272p. (Pertinent p.174-269), rus) **35-2685**
Economic effectiveness of optimizing the amount of thermal insulation of buildings. Bogoslavskii, L.D. (1981, 102p., rus) **35-3965**
Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, F.V., ed. (1979, 133p., rus) **35-4055**
Thermal and physical properties of cellular concrete enclosures. Tachkova, N.A., et al. (1979, p.72-76, rus) **35-4058**

Inflatable structures
Designing inflatable structures for cold regions. Kozhevnikov, N.N. (1979, p.125-127, rus) **35-244**
From nomadic to mobile architecture. Maidar, D., et al. (1980, 215p. (Pertinent p.174-213), rus) **35-2864**
Inflatable structures in power engineering. Kul'nev, A.N. (1981, p.32-36, rus) **35-4230**

Infrared equipment
Combined method of cloud separation against snow background. Naidenova, K.A. (1980, p.163-169, rus) **35-2442**
Building envelope performance testing. Harrje, D.T. (1981, p.39-41, eng) **35-2802**
Detection of thermal insulation defects in buildings by infrared thermography. Venuti, G. (1980, p.1025-1032, eng) **35-3987**
Simple snowfall detector employing infrared rays reflection. Tsubata, T., et al. (1981, p.77-82, jap) **35-4266**

Infrared photography
Infrared images of North Water during polar darkness. Dey, B. (1980, 425-438, eng) **35-1505**
Thermography control of heat insulation and tightness of buildings. Aven, B., et al. (1980, 214p., eng) **35-2004**
Combined method of cloud separation against snow background. Naidenova, K.A. (1980, p.163-169, rus) **35-2442**
Soil and bedrock as reflected in Arctic vegetation. Paarma, H., et al. (1977, p.25-29, eng) **35-2721**
Snow hydrology studies using data from the Heat Capacity Mapping Mission. Barnes, J.C., et al. (1981, p.1211-1217, eng) **35-3594**

Infrared reconnaissance
Oceanology from space. Burnitskii, V.Kh., ed. (1980, 167p., rus) **35-1343**
Processing the infrared satellite reconnaissance data. Staritsyn, D.K. (1980, p.112-118, rus) **35-1347**
Infrared images of North Water during polar darkness. Dey, B. (1980, 425-438, eng) **35-1505**
Geophysical methods of studying permafrost in the USSR. Akimov, A.F., et al. (1980, 51p., rus) **35-1928**
Hand-held infrared systems for detecting roof moisture. Tobiasson, W., et al. (1977, p.261-271, eng) **35-2494**
Snow hydrology studies using data from the Heat Capacity Mapping Mission. Barnes, J.C., et al. (1981, p.1211-1217, eng) **35-3594**

Infrared spectroscopy
Infrared scattering and extinction in water and ice clouds. Sassen, K. (1981, p.185-193, eng) **35-4250**

Insulation
Roofs in cold regions. Tobiasson, W., (1980, 21p., eng) **35-2713**

Interfaces
Wave-wave and wave-current interactions in deep water. Kjeldsen, S.P. (1979, p.179-200, eng) **35-170**
Summary of AMOP oil-ice-gas interaction studies. Thornton, D.E., (1980, p.3-5, eng) **35-3868**
Studies of oil spill behaviour under ice. Malcolm, J.D., (1980, p.47-54, eng) **35-3874**
Disposition of gas-oil mixtures trapped under ice. Topham, D.R. (1980, p.55-73, eng) **35-3875**
Solutions of the Stefan problem. Meirmanov, A.M., (1981, p.547-549, rus) **35-4274**

Internal friction
Internal friction of Antarctic Mizuho ice at low frequency. Nakamura, T., et al. (1979, p.165-171, eng) **35-520**
Limiting mechanisms of dislocation motion in ice. Lee, S., (1979, 118p., eng) **35-1186**

International cooperation
International and national developments in land treatment of wastewater. McKim, H.L., et al. (1979, 28p., eng) **35-2794**

Introduced plants
Theories and methods of plant introduction and landscaping. Proceedings of a republican conference, Kiev, 1978. Grodzinskii, A.M., ed. (1980, 220p., rus) **35-2444**
Winter hardiness of introduced plants. Doroshenko, A.K., (1980, p.35-37, rus) **35-2445**
Introduced trees in recreation areas of Novosibirsk. Taran, I.V., (1980, p.174-176, rus) **35-2446**
Cultivation of meadows in central taiga. Koiushev, I.A., (1971, p.16-17, rus) **35-2607**
Introduced plant adaptation in the North. Shtan'ko, A.V., ed. (1977, 176p., rus) **35-2690**
Maple trees introduced in the North. Lantratova, A.S., (1977, p.3-13, rus) **35-2691**
Larch introduced in Karelian forests. Valiaev, V.N., (1977, p.75-84, rus) **35-2692**
Introduction of useful plants in Yakutia (collection of papers). Andreev, V.N., ed. (1980, 100p., rus) **35-3048**
Decorative plants for landscaping residential areas in Yakutia. Krotova, Z.E., ed. (1980, 106p., rus) **35-4098**
Testing decorative plants introduced in Yakutia. Krotova, Z.E., (1980, p.4-14, rus) **35-4099**
Shrubs introduced in the Yakut Botanical Garden. Nazarova, E.I., (1980, p.15-24, rus) **35-4100**
Root systems of trees and shrubs introduced in Yakutia. Dokhunaev, V.N., (1980, p.25-32, rus) **35-4101**
Using the Daurskaya larch in landscaping. Timofeev, P.A., (1980, p.59-63, rus) **35-4102**
Trees and shrubs in Yakutsk. Kornienko, V.A., (1980, p.64-69, rus) **35-4103**
Physiological aspects of plant adaptation in polar regions. Konovalov, I.N., (1980, p.3-12, rus) **35-4312**

Ion density (concentration)
Snow effect on cations within a small watershed. Pierson, D.C., et al. (1980, p.182-184, eng) **35-3158**
Effect of electric currents on ice crystal nucleation. Shichiri, T., et al. (1981, p.207-210, eng) **35-3850**

Ionization
Field-controlled ionic charging of ice crystals. Richards, W.G., et al. (1981, p.3199-3202, eng) **35-3370**

Ions
Electron solvation in crystalline ice on a subnanosecond timescale. Warman, J.M., et al. (1981, p.43-46, eng) **35-4013**

Irrigation
Frost resistant concretes for meliorative structures. Nevskii, V.A., et al. (1980, p.9-11, rus) **35-780**
Dynamics of NH4 and NO3 in cropped soils irrigated with wastewater. Iskandar, I.K., et al. (1980, 20p., eng) **35-872**
Regionalization of the Non-chernozem zone. Panov, E.P., et al. (1980, 231p., rus) **35-2439**
Land treatment of wastewaters for rural communities. Reed, S.C., et al. (1975, p.23-39, eng) **35-2568**
Forage grass growth on overland flow systems. Palazzo, A.J., et al. (1980, p.347-354, eng) **35-2573**
Seminar on Effluent Irrigation under Prairie Conditions, 1979. (1979, var.p., eng) **35-2793**
International and national developments in land treatment of wastewater. McKim, H.L., et al. (1979, 28p., eng) **35-2794**
Effluent irrigation developments in Canada. Oldham, W.K., (1979, 6p., eng) **35-2795**
Irrigation of cryogenic meadow soils. Ugarov, I.S., et al. (1980, p.53-59, rus) **35-3315**
Seasonal growth and accumulation of N, P, and K by grass irrigated with wastes. Palazzo, A.J., (1981, p.64-68, eng) **35-3515**
Effectiveness of land application for P removal from waste water. Iskandar, I.K., et al. (1980, p.616-621, eng) **35-3705**
Snow and agriculture. Steppuhn, H., (1981, p.60-125, eng) **35-3748**

Isostasy
Glaciation, erosion and uplift over part of East Antarctica. Wellman, P., et al. (1981, p.142-144, eng) **35-3367**

Isotherms
Mean winter temperature anomalies over the U.S., 1895-1979. Diaz, H.F., (1980, 88p., eng) **35-707**

Isotope analysis
Stable isotope and radio echo sounding investigations in Taylor Valley. Drewry, D.J., (1979, p.93-94, eng) **35-666**
Molar volume of NaCl in an H2O-D2O mixture at different temperatures. Dutta-Choudhury, M.K., et al. (1980, p.2735-2740, eng) **35-995**
Studying ice cores from glacier boreholes. Kotlakov, V.M., et al. (1980, p.22-26, rus) **35-1222**
Isotope and chemical composition of snow cover in East Antarctica (Studies along the Mirnyy-Vostok profile). Gordienko, F.G., et al. (1980, p.36-48, rus) **35-1224**
Tritium in ice near Molodezhnaya Station. Herbert, D., et al. (1980, p.91-94, rus) **35-2039**
Research on environmental nuclides in Antarctica. Fröhlich, K., et al. (1980, p.122-144, ger) **35-2437**
Isotope content and electric properties of glacial runoff. Oerter, H., et al. (1980, p.86-92, 157-161, rus) **35-2822**
Miocene stable isotope record. Woodruff, F., et al. (1981, p.665-668, eng) **35-3137**
Isotope methods of studying natural waters. Ferronskii, V.I., ed. (1981, 260p., rus) **35-3296**
Oxygen isotope balance in the Issyk-Kul' glacial basin. Brezgunov, V.S., et al. (1981, p.10-14, rus) **35-3297**
Variations of the oxygen isotope ratio in glacier ice. Vaikmae, R.A., et al. (1981, p.25-30, rus) **35-3298**
Isotope method of studying permafrost hydrology. Afanasenko, V.E., et al. (1981, p.85-90, rus) **35-3299**
Heat and mass transfer in freezing ground. Kaliuzhnyi, I.L., et al. (1981, p.164-170, rus) **35-3301**
Uranium and plutonium isotopes in glacier ice. Bondarev, L.G., et al. (1981, p.198-200, rus) **35-3302**

Isotopes
Analysis of Cl-36 in environmental water samples using an electrostatic accelerator. Elmore, D., et al. (1979, p.22-25, eng) **35-1593**
Oxygen and hydrogen isotope effects on freezing of soil water. Michel, F., et al. (1978, 43p., eng) **35-2537**

Italy
Reports on the 1979 glaciological survey. (1980, p.80-128, ita) **35-2561**

Japan
Glacial and periglacial geomorphology in Japan. Ono, Y., (1980, p.149-160, eng) **35-3556**

Joints (junctions)
Improving watertightness of large panel buildings. Omel'chenko, A.A., et al. (1980, 95p., rus) **35-1575**
Panel joint structures for cold regions. Cheremisov, K.M., et al. (1980, p.68-70, rus) **35-2102**
Blast treatment for increased strength of welded joints. Petushkov, V.G., et al. (1980, p.11-12, rus) **35-3015**
Strength of welded pipeline joints at low temperatures. Kuchuk-IAtsenko, S.I., et al. (1980, p.1-3, rus) **35-3212**
Frost resistance of butt-welded steel joints. Sil'vestrov, A.V., et al. (1981, p.24-26, rus) **35-3338**
Strength of mortars with antifreeze admixtures. Kuntsevich, O.V., et al. (1980, p.26-34, rus) **35-3527**
Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, F.V., ed. (1979, 133p., rus) **35-4055**
Asbestos-cement panels for buildings in cold regions. Kozhevnikov, I.G., (1979, p.77-80, rus) **35-4059**
Two layer panels for buildings. Shcherbakov, A.V., et al. (1979, p.81-87, rus) **35-4060**
Controlling stresses in concrete dams. Epifanov, A.P., et al. (1981, p.5-8, rus) **35-4227**
Cranes used in arch dam construction in the North. Kuperman, V.L., et al. (1981, p.12-15, rus) **35-4281**

Karst
Karst development in limestones of permafrost zones. Filippov, A.G., et al. (1980, p.942-944, rus) **35-305**
Karst waters in ice caves. Ezhov, R.A., et al. (1976, p.35-40, rus) **35-1296**
Hydrogeology of karst in the Rawil region. Wildberger, A., (1981, 175p. + maps, ger) **35-4162**

Kenya
Kenya, Mount
Late Quaternary rock glaciers, Mount Kenya, Kenya. Mahaney, W.C., (1980, p.492-497, eng) **35-1511**
Ice core studies from Mt. Kenya, Africa. Thompson, L.G., (1981, p.55-62, eng) **35-3021**
Lewis Glacier (Mt. Kenya) and possible links tropical climate. Vincent, C.E., et al. (1981, p.63-78, eng) **35-3022**

—Lewis Glacier
Variations of Lewis Glacier, Mount Kenya, 1974-78. Hastenrath, S., et al. (1979, p.292-297, eng) **35-358**
Radiation measurements on Lewis Glacier, Kenya. Hastenrath, S., et al. (1980, p.439-444, eng) **35-1506**

Laboratories
Commemorative monument of the birthplace of the first artificial snow crystals. Higashi, A., (1980, p.61-62, jap) **35-3664**
Wartsila's new icebreaking laboratory. (1981, p.176, 179, eng) **35-3694**

Laboratory techniques
Analyzing humus substances in taiga soils. Sloboda, A.V., (1974, p.50-57, rus) **35-692**
Preparation of polycrystalline ice specimens for laboratory experiments. Cole, D.M., (1979, p.153-159, eng) **35-700**
Melting of free-drifting icebergs. Russell-Head, D.S., (1980, p.119-122, eng) **35-2216**
Weathering of sandstone by the combined action of frost and salt. Williams, R.B.G., et al. (1981, p.1-9, eng) **35-2338**
Charge transfer during ice crystal collisions. Gaskell, W., et al. (1980, p.841-854, eng) **35-2339**
Effect of nuclei size on ice nucleation. Prodi, F., et al. (1980, p.1448-1450, eng) **35-2423**

Lacustrine deposits
Moraine-like deposits in northern plains. Danilov, I.D., (1979, p.97-135, rus) **35-67**
Faulting and plastic deformation of frozen fines. Ermolin, E.D., (1979, p.42-66, rus) **35-188**
Development of cryogenic relief in Pamirs and Tien Shan. Ermolin, E.D., (1979, p.88-105, rus) **35-191**
Types of tundra soils. Elovskaia, L.G., et al. (1980, p.158-194, rus) **35-292**
Glacial history and stratigraphy of the Kananaskis Lakes area, Alberta. Jackson, L.E., Jr., (1980, p.459-477, eng) **35-1264**
Glacial Lake Coppermine, N.W.T. St-Onge, D.A., (1980, p.1310-1315, eng) **35-1267**
International geological congress, 26th, 1979. Hydrogeology, engineering geology and construction materials. Reports of soviet geologists. Kulikov, G.V., ed. (1980, 247p., rus) **35-1349**
Physical properties of weak grounds. Bocharova, I.S., et al. (1980, p.167-175, rus) **35-1351**

Palynology of Pinedale sediments, Devlins Park, Boulder County, Colorado Legg, I.E., et al, (1980, p.319-333, eng) 35-1668

Lake effects

Role of the winter land breeze in the formation of Great Lake snow storms Passarelli, R.E., Jr., et al, (1981, p.482-491, eng) 35-4005

Lake ice

Characteristics of snow cover on a lake near Peterborough, Ontario McCaskell, P.C., (1980, p.71-88, eng) 35-41

Black ice on Elizabeth Lake, Labrador Russell, B., (1980, p.100-109, eng) 35-43

Ice cover characteristics of two small lakes in the Peterborough area Heron, R., (1980, p.121-132, eng) 35-45

Relationship between a lake ice and snowcover and zooplankton distribution Roulet, N.T., et al, (1980, p.133-148, eng) 35-46

Methodology of forecasting natural phenomena in Siberia Dzuzhmin, I.P., ed, (1980, 144p., rus) 35-148

Structure and composition of natural ice Savel'ev, B.A., (1980, 280p., rus) 35-149

Thermal cracks in lake ice Metge, M., (1976, 204p., eng) 35-275

Laws and mechanisms of apparent brittle fracture of river and lake ice Carter, D., et al, (1971, 393p., fre) 35-330

Plastic deformation of fresh-water ice Bogorodskii, V.V., et al, (1980, p.43-50, rus) 35-368

Investigations, calculations and forecasts of ice conditions on rivers Donchenko, R.V., ed, (1980, 118p., rus) 35-1009

Calculating ice cover thickness on rivers and lakes Chizhov, A.N., (1980, p.40-55, rus) 35-1014

Ice Physical properties Modern methods of glaciology Bogorodskii, V.V., et al, (1980, 384p., rus) 35-1123

Glacial hydrology of an ice-dammed lake, Ellesmere Island, N.W.T. Blachut, S.P., (1976, 202p., eng) 35-1466

Study on ice on Lake Tofutsu Kawamura, T., et al, (1978, p.85-91, jap) 35-1544

Hydrology of a small lake in the Canadian high Arctic Woo, M.-K., (1980, p.227-235, eng) 35-1664

Ice transport in Great Lakes Rumer, R.R., Jr., et al, (1979, 275p., eng) 35-1773

Ice research program of the Great Lakes Environmental Research Laboratory Quinn, F.H., (1980, p.1-4, eng) 35-2157

Great Lakes ice data archive Hoffman, C.S., (1980, p.5-20, eng) 35-2158

Summary of satellite observations of Great Lakes ice: 1974-1980 Clark, J.W., (1980, p.21-33, eng) 35-2159

Ice formation and ice control programs for St. Lawrence Seaway Hung, S.C., (1980, p.35-37, eng) 35-2160

Great Lakes ice: a selected bibliography Hoffman, C.S., ed, (1980, p.39-71, eng) 35-2161

Albedo variations of ice on Lake Simcoe, Canada, March 1978 Reid, J.D., et al, (1980, p.168-176, eng) 35-2458

Winter thermal structure, ice conditions and climate of Lake Champlain Bates, R.E., (1980, 26p., eng) 35-2585

Maximum thickness and subsequent decay of lake, river and fast sea ice in Canada and Alaska Bilello, M.A., (1980, 160p., eng) 35-2588

Proceedings of the workshop on research in the Labrador region, 1980 (1980, 410p., eng) 35-3090

Patterns of freeze-up in lake Melville Bobbitt, J., et al, (1980, p.266-286, eng) 35-3098

Environmental aspects of winter navigation into Lake Melville Gill, R.J., et al, (1980, p.287-306, eng) 35-3099

Lake Melville ice research Smith, P.N., (1980, p.398-410, eng) 35-3102

Illustrations of biological roles of winter lake cover. Adams, W.P., (1980, p.1-18, eng) 35-3143

Ice formation and breakup on Lake Champlain. Bates, R.E., (1980, p.125-143, eng) 35-3153

Role of the lake winter cover in the phosphorous budget. Wolfe, B.R., (1980, p.170-178, eng) 35-3156

Mechanical device for measuring the lake ice thickness. Adams, W.P., et al, (1980 p.189-192, eng) 35-3160

Freeze-out of nutrients from lake ice. Jones, R., et al, (1980, p.193-195, eng) 35-3161

Earth sciences research in the McMurdo Sound region, 1979-1980 Nagata, T., (1980, p.12, eng) 35-3167

Measuring solar radiation in ice on Lake Syrdakh. Tishin, M.I., et al, (1980, p.38-40, rus) 35-3312

Satellite observation of Great Lakes ice winter 1978-79 Wartha-Clark, J., (1980, 36p., eng) 35-3409

Algae in lagoon ice Takahashi, E., (1981, p.49-56 + 5 plates, eng) 35-3597

Snow and ice on lakes Adams, W.P., (1981, p.437-474, eng) 35-3755

Cracks in stationary sea and lake ice Kalesnik, S.I., (1981, p.85-89, rus) 35-3951

Ice melting in Lake Ikkaluktuk, April 1971 Tsukanova, A., (1981, p.9-13, jap) 35-4202

Modelling ice dissipation in eastern Lake Erie Rumer, R.R., Jr., et al, (1978, p.194-200, eng) 35-4321

Lake water

Runoff and water balance in Arctic lake basins Newbury, R.W., et al, (1979, p.516-535, eng) 35-437

Specific features in the formation of chemical comp. of natural waters in East Antarctica Bardin, V.I., (1980, p.166-171, rus) 35-[illegible]

Climatic changes of Harding Lake, Alaska Nakao, K., ed, (1980, 77p., eng) 35-1557

Water budget and lake-level stability of Harding Lake Nakao, K., et al, (1980, p.9-15, eng) 35-1559

Hydrology and hydrochemistry of water bodies in different climatic zones Ivanov, A.V., ed, (1980, 150p., rus) 35-2331

Effect of snowmelt on water quality Sigel, D.I., (1980, p.238-242, eng) 35-2797

Role of the lake winter cover in the phosphorous budget Wolfe, B.R., (1980, p.170-178, eng) 35-3156

Freeze-out of nutrients from lake ice Jones, R., et al, (1980, p.193-195, eng) 35-3161

Wintertime temperature inversion in Kootenay Lake, British Columbia Wiegand, R.C., et al, (1981, p.2024-2034, eng) 35-3275

Measuring evaporation from thermokarst lakes Skachkov, Iu.B., et al, (1980, p.36-38, rus) 35-3311

Potential and developed water-supply sources in Alaska Dearborn, L.L., (1981, p.1-11, eng) 35-3682

Horizontal mixing in water quality modelling Bengtsson, L., (1980, p.401-416, eng) 35-3794

Water seepage from Lake Syrdakh Tishin, M.I., (1980, p.90-97, rus) 35-3998

Runoff of deicing salt in Buffalo, New York Rumer, R.R., Jr., et al, (1974, p.407-411, eng) 35-4257

Lakes

Remote sensing for earth dam site selection and construction materials Merry, C.J., et al, (1980, p.158-170, eng) 35-153

Phytoplankton composition and cropping power in different lake types of the Karelian Isthmus Trifonova, I.S., (1979, 168p., rus) 35-201

Phytoplankton in arctic and subarctic lakes Moore, J.W., (1979, p.485-499, eng) 35-246

Boguchany artificial lake Ground water and engineering geology of the area Odintsov, M.M., ed, (1979, 157p., rus) 35-278

Artificial lakes in permafrost areas Kronik, Ia.A., et al, (1980, p.120-129, rus) 35-766

Hydrologic studies and land reclamation in Siberia Morozov, G.A., ed, (1977, 86p., rus) 35-1289

Hydrologic regime of lakes and rivers in Central Siberia Ershova, L.M., (1977, p.3-11, rus) 35-1290

Influence of water runoff redistribution on the natural conditions of Siberia Saks, V.N., ed, (1980, 184p., rus) 35-1331

Shore erosion in artificial lakes of permafrost areas Savkin, V.M., (1980, p.77-84, rus) 35-1335

Influence of high water stage on shores of deep reservoirs of Siberia (the Krasnoyarsk reservoir taken as an example Kuskovskii, V.S., (1980, p.140-143, rus) 35-1341

Climatic changes of Harding Lake, Alaska Nakao, K., ed, (1980, 77p., eng) 35-1557

Climatic changes in the interior Alaska Nakao, K., et al, (1980, p.16-23, eng) 35-1560

Sedimental process in Harding Lake. Kajihara, M., et al, (1980, p.24-35, eng) 35-1561

Quaternary geology and geomorphology of Harding Lake Yokoyama, T., et al, (1980, p.45-53, eng) 35-1562

Studies in ecology and environmental protection in East Siberia Kozhova, O.M., (1980, p.96-104, rus) 35-1706

SUNDAY, a simulation model of an arctic Daphnia population Stross, R.G., et al, (1979, p.349-362, eng) 35-1785

Topographic map of the Lake Saysar Basin in Yakutsk Solov'ev, P.A., (1980, p.127-134, rus) 35-2194

Cryogenic soils of tundra lake landscapes Evseev, A.V., (1980, p.173-174, rus) 35-2309

Thermal regime in lakes of the Kodar Range. Glavatskii, N.S., et al, (1980, p.15-28, rus) 35-2333

Relation of lake-sediment composition to mineralization Nichol, I., et al, (1975, p.112-125, eng) 35-2739

Lake drainage, Richards Island, N.W.T. Mackay, J.R., (1981, p.63-68, eng) 35-3084

Lake sediment coring along Smith Sound, Ellesmere Island and Greenland. Blake, W., Jr., (1981, p.191-200, eng) 35-3086

Water runoff redistribution in the European USSR Berezner, A.S., et al, (1980, p.12-16, rus) 35-3106

Changes in river ice conditions due to powerplant construction. Bakhtin, N.P., (1980, p.45-46, rus) 35-3114

Vegetation and ice-wedge polygons through the thaw-lake cycle in N. Alaska. Billings, W.D., et al, (1980, p.413-432, eng) 35-3197

Geology and geomorphology of the Beaufort Sea coastal plain. Cannon, P.J., (1981, p.619-634, eng) 35-3251

Permafrost conditions in the Yubileynaya kimberlite pipe area Chistilin, V.N., et al, (1980, p.79-82, rus) 35-3319

Lakes in the northeastern part of the Siberian Platform. Parmuzin, Iu.P., et al, (1981, 190p., rus) 35-3412

Proposed ecological natural landmarks in the Brooks Range, Alaska Bliss, L.C., et al, (1981, 175p., eng) 35-3554

Analytical method of calculating runoff storage Kiktenko, V.A., et al, (1980, 200p., rus) 35-3641

Algae in waters of the Kuznetskiy Alatau Safonova, T.A., (1981, p.4-16, rus) 35-3890

Land surface and lake storage during snowmelt runoff, Subarctic areas Fitz/Gibbon, J.E., et al, (1981, p.277-285, eng) 35-4260

Lakes on George VI Ice Shelf, Antarctica Reynolds, J.M., (1981, p.425-432, eng) 35-4340

Laminar flow

Air flow through snow during laminar flow of a fluid over snow Yoshida, Z., (1978, p.29-40, jap) 35-1173

Melting of a vertical ice wall by free convection into fresh water Wilson, N.W., et al, (1981, p.13-17, eng) 35-2147

Slip-velocity hypothesis of wind flow over a snow cover Bergen, J.D., (1980, p.447-452, eng) 35-2385

Complex turbulent flow and the processes of heat and mass transfer Nikitin, I.K., (1980, 238p., rus) 35-2956

Crust behavior in simultaneous melting on a submerged flat plate Ganguli, A., et al, (1979, p.40-53, eng) 35-3348

Ice structure in a pipe at or near transition Reynold numbers Gilpin, R.R., (1979, p.89-94, eng) 35-3351

Land development

Student science training program, Juneau icefield, Alaska, 1979 Miller, M.M., et al, (1979, 15p., eng) 35-2016

Land ice

Relations between polar ice and climatic changes Zakharov, V.F., (1980, p.70-79, rus) 35-136

Structure and composition of natural ice Savel'ev, B.A., (1980, 280p., rus) 35-149

Specific features in the formation of chemical composition of natural waters in East Antarctica Bardin, V.I., et al, (1980, p.166-171, rus) 35-1251

Fluvio-glacial balance of the Arctic Kotliakov, V.M., et al, (1980, p.11-21, rus) 35-1565

Movement of continental ice Bagrov, N.A., (1980, p.54-62, rus) 35-2249

Snow cover Getker, M.I., (1980, p.8-20, rus) 35-2805

Atmospheric precipitation Struzer, L.R., et al, (1980, p.24-25, rus) 35-2807

Glaciation effect on migration and accumulation of hydrocarbons Tsarev, V.P., (1980, 213p., rus) 35-2955

Continental ice sheets and the planetary radiation budget Oerlemans, J., (1980, p.349-359, eng) 35-3678

Land reclamation

Avalanche control in forested mountains Chagelishvili, R.G., (1976, p.71-75, rus) 35-72

Land reclamation in cold regions Sevost'ianov, M.I., et al, (1980, p.2-4, rus) 35-444

Drainage induced changes in thermal regime of peat Khimin, N.M., et al, (1980, p.92-100, rus) 35-769

Scraper for frozen ground Bezruchko, N.P., et al, (1980, p.33-34, rus) 35-779

Frost resistant concretes for meliorative structures Nevskii, V.A., et al, (1980, p.9-11, rus) 35-780

Forest-strip method of reclaiming eroded soils Budaev, Kh.R., ed, (1976, 159p., rus) 35-799

Land reclamation in Transbaikal Budaev, Kh.R., (1976, p.10-17, rus) 35-800

Landscape-climatic charts of Buryatiya Ivanov, G.M., et al, (1976, p.18-36, rus) 35-801

Soil studies in Siberia and Kazakhstan Orlovskii, N.V., (1979, 326p., rus) 35-878

Surface coal mining control and reclamation act in Alaska, 1977 (1980, 328p., eng) 35-948

Drainage effect on paluded north taiga soils Varfolomeev, L.A., et al, (1980, p.44-51, rus) 35-957

Land reclamation in non-chernozem areas Aleksankin, A.V., et al, (1980, 288p., rus) 35-996

Hydrologic studies and land reclamation in Siberia Morozov, G.A., ed, (1977, 86p., rus) 35-1289

Hydrothermal melioration of northern swamps Starkov, V.M., (1977, p.68-80, rus) 35-1294

Swamp-forest systems of Karelia and their dynamics P'iavchenko, N.I., ed, (1980, 184p., rus) 35-1324

Drainage effect on northern swampy forests P'iavchenko, N.I., et al, (1980, p.52-77, rus) 35-1325

Geographic studies related to the river-channel diversion project. Malik, I.K., (1980, p.47-51, rus) 35-1333

Study and preservation of water resources (1971-1973) Shablevskaia, V.A., ed, (1976, 128p., rus) 35-1366

Reclamation of paluded lands in permafrost areas Kulikov, Iu.N., (1976, p.6-8, rus) 35-1367

Preservation of northern land resources Mikhailov, I.S., et al, (1980, p.35-41, rus) 35-1424

Significance of swamps in the biosphere (hydrologic aspects) P'iavchenko, N.I., ed, (1980, 176p., rus) 35-1442

Woody plants development in northern swamps Romanova, E.A., (1980, p.147-152, rus) 35-1446

Specific geographic data for land reclamation Vostokova, E.A., et al, (1980, p.159-167, rus) 35-1447

Subsurface drainage systems in soil freezing zones Shtykov, V.I., (1980, p.53-56, rus) 35-1638

Land reclamation *(cont.)*

ETTs-163M drain-laying equipment. Korshikov, A.A., et al, (1980, p.46-47, rus) **35-1640**

Land reclamation work in freezing weather. Cherniak, M.B., (1980, p.59-61, rus) **35-1641**

Land application of sludge. Johnson, R.A., et al, (1981, p.8-9, eng) **35-1692**

Cryogenic soils of Lake Baykal area. Parshikov, V.P., (1980, p.18-20, rus) **35-2258**

Controlling hydrothermal regime of cryogenic soils. Konstantinov, V.D., et al, (1980, p.122-124, rus) **35-2294**

Regionalization of the Non-chernozem zone. Panov, E.P., et al, (1980, 231p., rus) **35-2439**

Proceedings, National Conference on Environmental Engineering, (1980, 707p., eng) **35-2570**

Energy and costs for agricultural reuse of wastewater. Sletten, R.S., et al, (1980, p.339-346, eng) **35-2572**

Forage grass growth on overland flow systems. Palazzo, A.J., et al, (1980, p.347-354, eng) **35-2573**

Spray application of waste-water effluent in a cold climate. Cassell, E.A., et al, (1980, p.620-626, eng) **35-2574**

Overland flow: removal of toxic volatile organics. Jenkins, T.F., et al, (1981, 16p., eng) **35-2581**

Revegetation at two construction sites in New Hampshire and Alaska. Palazzo, A.J., et al, (1980, 21p., eng) **35-2586**

Municipal sludge management: environmental factors. Reed, S.C., ed, (1977, Var. p., eng) **35-2715**

Land treatment systems and the environment. McKim, H.L., et al, (1979, p.201-225, eng) **35-2752**

Design of liquid-waste land application. Iskandar, I.K., (1979, p.65-88, 790) **35-2757**

EPA policy on land treatment and the Clean Water Act of 1977. Thomas, R.E., et al, (1980, p.452-460, eng) **35-2759**

Land treatment: present status, future prospects. Pound, C.E., et al, (1978, p.98-102, eng) **35-2760**

Seminar on Effluent Irrigation under Prairie Conditions, 1979, (1979, var.p., eng) **35-2793**

International and national developments in land treatment of wastewater. McKim, H.L., et al, (1979, 28p., eng) **35-2794**

Effluent irrigation developments in Canada. Oldham, W.K., (1979, 6p., eng) **35-2795**

Problems of utilization and preservation of natural resources in Siberia. Saks, V.N., ed, (1980, 136p., rus) **35-3042**

Changes in radiation and heat balance due to human activities. Potapova, L.S., (1980, p.82-90, rus) **35-3051**

Development of agriculture in Siberia and the Far East. Kashtanov, A.N., ed, (1980, 352p., rus) **35-3055**

Land reclamation in Siberia and the Far East. Shumakov, B.B., (1980, p.89-96, rus) **35-3056**

Methods and equipment for the development of cryogenic saline soils. Kulebakin, P.G., (1980, p.145-148, rus) **35-3057**

Drainage methods in permafrost areas. Stepanov, A.N., (1980, p.247-250, rus) **35-3059**

Seasonal growth and accumulation of N, P, and K by grass irrigated with wastes. Palazzo, A.J., (1981, p.64-68, eng) **35-3515**

Building subsurface drainage in freezing weather. Viksne, A.A., et al, (1981, p.22-24, rus) **35-3536**

Land reclamation developments in permafrost areas. Chernenok, V.N., (1980, p.10-12, rus) **35-3537**

Drainage construction in freezing weather. Gontarenko, M.F., et al, (1980, p.43-45, rus) **35-3538**

Saline soils of West Siberia. Kurachev, V.M., et al, (1981, 152p., rus) **35-3568**

Bioengineering for land reclamation and conservation. Schiechtl, H., (1980, 404p., eng) **35-3595**

Enrichment of perennially frozen ore and placer deposits. Emel'ianov, V.I., ed, (1977, p.175, rus) **35-3805**

Land reclamation in mining areas of the North. Sulin, G.A., et al, (1977, p.111-125, rus) **35-3808**

Landforms

Final environmental impact statement, Prudhoe Bay, Eid Field Waterflood Project, (1980, 3 Vols., eng) **35-798**

Periglacial landforms and processes in the Kenai Mts., Alaska. Bailey, P.K., (1980, 159p., eng) **35-949**

Behavior of thawing slopes in permafrost. Pufahl, D.E., (1976, 323p., eng) **35-1468**

Glacier bed landforms of North American prairies. Moran, S.R., et al, (1980, p.457-476, eng) **35-1508**

Deglaciation and glacial lakes in Finnish Lapland. Seppala, M., (1980, p.311-319, eng) **35-2144**

Geobotanical atlas of the Prudhoe Bay region, Alaska. Walker, D.A., et al, (1980, 69p., eng) **35-2150**

Distribution of rock glaciers and permafrost, based on freezing and thawing indices. Harris, S.A., (1981, p.376-381, eng) **35-3513**

Landform development on moraines of the Klutlan Glacier, Canada. Watson, R.A., (1980, p.50-59, eng) **35-3717**

Ice-scored topography and glacier movement, N Scotland and W Greenland. Gordon, J.E., (1981, p.55-65, eng) **35-4020**

Land surface and lake storage during snowmelt runoff, Subarctic areas. FitzGibbon, J.E., et al, (1981, p.277-285, eng) **35-4260**

LANDSAT

Summary of satellite observations of Great Lakes ice, 1974-1980. Clark, J.W., (1980, p.21-33, eng) **35-2159**

Remote sensing of revegetation of burned tundra, Kokolik River, Alaska. Hall, D.K., et al, (1980, p.263-272, eng) **35-2462**

Landscape development

Nivation and nival niches. Vyrkin, V.B., (1978, p.152-154, rus) **35-21**

Development of bald mountain landscapes. Nikonova, R.I., et al, (1978, p.154-155, rus) **35-22**

Geomorphology and neotectonics of mountain areas in the Far East. Sizikov, A.I., ed, (1977, 132p., rus) **35-57**

Formation of rock streams in the Far East. Skryl'nik, G.P., (1977, p.86-88, rus) **35-59**

Forecasting landscape development in cold regions. Kozhevnikov, Iu.P., (1980, p.243-248, rus) **35-343**

Surge moraines of the Klutlan Glacier, Yukon Territory, Canada. Wright, H.E., Jr., (1980, p.2-18, eng) **35-3714**

Landform development on moraines of the Klutlan Glacier, Canada. Watson, R.A., (1980, p.50-59, eng) **35-3717**

Vegetation on moraines of the Klutlan Glacier, Canada. Birks, H.J.B., (1980, p.60-86, eng) **35-3718**

Landscape types

Nivation and nival niches. Vyrkin, V.B., (1978, p.152-154, rus) **35-21**

Development of bald mountain landscapes. Nikonova, R.I., et al, (1978, p.154-155, rus) **35-22**

Structure and plant communities in East European forest tundra. Norin, B.N., (1979, 200p., rus) **35-150**

Vegetation and soils of subarctic tundra. Andreev, V.N., ed, (1980, 209p., rus) **35-282**

Vegetation of the lower Kolyma tundra. Andreev, V.N., et al, (1980, p.5-43, rus) **35-283**

Micromycete fungi of northeastern Yakutia, Pt.1. Shkarupa, A.G., (1980, p.105-123, rus) **35-289**

Bushy lichens of tundra. Rykova, I.V., (1980, p.124-139, rus) **35-290**

Types of tundra soils. Elovskaia, L.G., et al, (1980, p.158-194, rus) **35-292**

Podsol soils of taiga. Korsunov, V.M., et al, (1980, p.104-128, rus) **35-303**

Forecasting landscape development in cold regions. Kozhevnikov, Iu.P., (1980, p.243-248, rus) **35-343**

Formation of ground water balance in the USSR. Lebedev, A.V., (1980, 287p., rus) **35-345**

Taiga vegetation and environmental protection. Krauklis, A.A., et al, (1979, p.1674-1681, rus) **35-347**

Taiga vegetation in the European USSR. Gusev, Iu.D., (1980, p.249-255, rus) **35-394**

Yamal tundra vegetation. Konstantinova, N.A., et al, (1980, p.76-82, rus) **35-499**

Peat deposits in forest tundra swamps. Turkina, O.S., (1980, p.67-71, rus) **35-500**

Determining strength of peat soils from aerial photographs. Pirogov, A.G., et al, (1980, p.4-6, rus) **35-620**

Gley-podsol soils of northern taiga. Tsypanova, A.N., (1974, p.25-30, rus) **35-689**

Microbiology of tundra and taiga soils. Stenina, T.A., (1974, p.35-42, rus) **35-690**

Geochemical processes in taiga geosystems. Nechaeva, E.G., (1971, p.3-31, rus) **35-755**

Geobotanical photointerpretation of northern landscapes. Viktorov, S.V., et al, (1971, p.23-28, rus) **35-756**

Large scale map of taiga vegetation. Medvedev, Iu.O., (1971, p.47-57, rus) **35-758**

Heat balance in taiga forests. Trofimova, I.E., et al, (1973, p.37-47, rus) **35-762**

Moisture dynamics of tagia soils. Sazonov, A.G., (1973, p.55-62, rus) **35-763**

Geographic structures of Angara River taiga. Krauklis, A.A., (1973, p.3-16, rus) **35-764**

Water transfer of chemical elements in taiga landscapes. Kuz'min, V.A., (1973, p.23-32, rus) **35-765**

Permafrost conditions in West Siberia. Shamanova, I.I., et al, (1980, p.94, rus) **35-772**

Transpiration of taiga vegetation. Antipova, N.D., et al, (1975, p.55-62, rus) **35-795**

Landscape-climatic charts of Buryatiya. Tailov, C.M., et al, (1976, p.18-36, rus) **35-801**

Botanical geography of Altai. Ogureeva, G.N., (1980, 192p., rus) **35-876**

Podsol soils of Central and Eastern European USSR (developed on loams). Rode, A.A., ed, (1980, 304p., rus) **35-877**

Forestry in northern taiga. Mikhailov, Iu.P., et al, (1980, p.5-50, rus) **35-881**

Taiga soils with second humus layer. Nechaeva, E.G., (1980, p.169-206, rus) **35-882**

Virgin spruce forests of southern taiga. Orlov, A.IA., et al, (1980, p.38-45, rus) **35-955**

Environmental protection in tundra. Liverovskii, Iu.A., et al, (1979, p.512-520, eng) **35-961**

Central Siberian tundra soils. Vasil'evskaia, V.D., (1980, 235p., rus) **35-1281**

Soil maps of tundra and forest tundra. Liverovskaia, I.I., (1980, p.18-22, rus) **35-1287**

Hydrothermal melioration of northern swamps. Starkov, V.M., (1977, p.68-80, rus) **35-1294**

Drainage effect on northern swampy forests. P'iavchenko, N.I., et al, (1980, p.52-77, rus) **35-1325**

Landscapes of northern taiga and swamps. Mikhailov, N.I., (1980, p.95-101, rus) **35-1337**

Landscape types of the Ob' River floodplain. Kolomiets, G.E., (1980, p.101-110, rus) **35-1338**

Diversion of a part of the Irtysh River waters. Petrov, I.B., (1980, p.110-114, rus) **35-1339**

Forest tundra swamps. Neishtadt, M.I., (1980, p.121-124, rus) **35-1340**

Lake effect on North Baykal shore forests. Vykhristiuk, M.M., (1980, 215p., rus) **35-1372**

Microclimatology of mountain taiga. Moloko, V.A., (1972, p.268-275, rus) **35-1382**

Classification of taiga forests. Shcherbakov, I.P., (1971, p.3-33, rus) **35-1391**

Biogeocenoses of the Taymyr Tundra. Tomilin, B.A., ed, (1989, 256p., rus) **35-1401**

Research projects of the *Tareia* station in Taymyr tundra. Tomilin, B.A., (1980, p.3-25, rus) **35-1402**

Seasonal development of tundra plants. Deeva, N.M., (1980, p.59-96, rus) **35-1405**

Relation between plant growth and thermal regime in tundra. Vital', A.D., (1980, p.97-104, rus) **35-1406**

Photosynthesis of tundra plants. Gerasimenko, T.V., et al, (1980, p.145-164, rus) **35-1410**

Fungi of Taymyr tundra. Stepanova, I.V., et al, (1980, p.165-192, rus) **35-1411**

Larch in taiga and forest tundra of Siberia. Il'ina, I.S., (1980, p.28-44, rus) **35-1426**

Forecasting induced changes in different landscapes. Voronov, A.G., et al, (1980, p.82-89, rus) **35-1429**

Complex geographic studies and the development of mountainous regions. Gvozdetskii, N.A., ed, (1980, 150p., rus) **35-1435**

Environmental protection of mountain landscapes. Makunina, A.A., et al, (1980, p.107-119, rus) **35-1441**

Water retaining role of northern swamps. Prozorov, IU.S., (1980, p.128-133, rus) **35-1445**

Spaceborne photography data for land reclamation. Vostokova, E.A., et al, (1980, p.159-167, rus) **35-1447**

Climatic evaluations in the Baykal Amur railroad area. Kormilova, R.P., et al, (1980, p.60-69, rus) **35-1450**

Migration and biological activity of natural radionuclides in northern biogeocenoses. Popova, O.N., ed, (1980, 179p., rus) **35-1514**

Tundra and taiga soils of Stanovoy Range. Ershov, IU.I., (1979, p.112-131, rus) **35-1523**

Hydrochemistry of northern peatlands. Ivanov, A.V., et al, (1979, p.156-180, rus) **35-1524**

Chukotskiy Peninsula soils and vegetation. Galanin, A.V., (1980, p.1174-1187, rus) **35-1566**

Studying soil geography and landscape geochemistry in the Baykal Amur railroad zone. Snytko, V.A., ed, (1980, 184p., rus) **35-1627**

Regionalization of the Baykal Amur railroad zone. Nechaeva, E.G., et al, (1980, p.3-11, rus) **35-1628**

Landscape types of the Baykal Amur railroad area. Kuz'min, V.A., (1980, p.11-98, rus) **35-1629**

Landscape types in the Muya River Basin. Neled'eva, L.G., (1980, p.125-139, rus) **35-1631**

Studies in ecology and environmental protection in East Siberia. Kozhova, O.M., (1980, p.96-104, rus) **35-1706**

Mapping vegetational resources of permafrost areas. Geleta, I.F., et al, (1980, p.114-124, rus) **35-1707**

Slope orientation factor in landscape development. Shcherbakov, IU.A., (1975, p.24-34, rus) **35-1788**

Cryogenic landscapes of Mars. Kuz'min, R.O., (1979, p.50-65, rus) **35-1830**

Age and restoration dynamics of forests in the Ural Mountains and east of the Urals. Kolesnikov, B.P., ed, (1976, 168p., rus) **35-1916**

Genetic classification of mountain forests. Makhunin, A.S., et al, (1976, p.3-91, rus) **35-1917**

Physical properties of mountain taiga soils. Zubareva, R.S., et al, (1976, p.114-123, rus) **35-1920**

Environmental protection in permafrost area. Grave, N.A., (1980, p.6-12, rus) **35-2185**

Thermal balance and environmental protection of northern landscapes. Pavlov, A.V., (1980, p.13-31, rus) **35-2186**

Regime of disturbed tundra soils. Shmakin, P.N., (1980, p.32-36, rus) **35-2187**

Cryogenic processes in mountain and lowland soils. Khavkina, N.V., et al, (1980, p.51-53, rus) **35-2268**

Thermal regime of deeply freezing forest soils. Gorbachev, V.N., (1980, p.69-70, rus) **35-2274**

Cryogenic Alpine soils of Mongolia. Maksimovich, S.V., (1980, p.83-85, rus) **35-2281**

Biological processes in Transbaikal soils. Kerzhentsev, A.S., (1980, p.100-102, rus) **35-2286**

Controlling hydrothermal regime of cryogenic soils. Konstantinov, V.D., et al, (1980, p.122-124, rus) **35-2294**

Evaluating the landscape conditions of soil formation. Uchvatov, V.P., (1980, p.152-154, rus) **35-2303**

Origin and evolution of Bol'shezemel'skaya Tundra soils. Fominykh, I.A., et al, (1980, p.159-161, rus) **35-2305**

Research center for the study of river course redirection. Mikheev, V.S., et al, (1979, p.3-16, rus) **35-2321**

Geochemistry of taiga soils. Nechaeva, E.G., et al, (1979, p.51-62, rus) **35-2323**

Floodplain biomass of northern rivers. Druzhinina, N.P., (1979, p.76-89, rus) **35-2325**

Forecasting landscape changes from river flow control. Popov, B.A., (1979, p.89-94, rus) **35-2326**

Partial redirection of Siberian rivers. Neishtadt, M.I., et al, (1979, p.114-120, rus) **35-2328**

River flow redirection and environmental protection. Mikhailov, N.I., et al, (1979, p.121-127, rus) **35-2329**

Soils of mountain *Pinus sibirica* forests in Central Siberia. Zueva, K.G., (1980, 172p., rus) **35-2330**

Theories and methods of plant introduction and landscaping. Proceedings of a republican conference, Kiev, 1978. Grodzinskii, A.M., ed. (1980, 220p., rus) **35-2444**

Dynamics of forest biogeocenoses in Siberia. Smagin, V.N., ed. (1980, 208p., rus) **35-2474**

Taiga vegetation development in Holocene. Savina, I.N., (1980, p.28-53, rus) **35-2476**

New terms "dynamics" and "ecogenesis" of biogeocenoses. Smagin, V.N., (1980, p.201-205, rus) **35-2484**

Radiation regime of southern taiga. Grigor'ev, G.N., (1980, p.49-109, rus) **35-2488**

Climate and microclimate of taiga. Trofimova, I.E., (1980, p.144-182, rus) **35-2490**

Meadows of the forest tundra river Yuri'-Yakhi. Bratenkova, E.S., et al, (1971, p.5-7, rus) **35-2605**

Scientific conference of Karelian biologists. Komulainen, A.A., ed. (1970, 167p., rus) **35-2613**

Paludification of northern moraine landscapes. Kozlova, R.P., (1970, p.46-47, rus) **35-2614**

Peat deposits in northern bogs. Belova, A.A., (1970, p.49-50, rus) **35-2615**

Introduced plant adaptation in the North. Shtan'ko, A.V., ed. (1977, 176p., rus) **35-2690**

Calculating maximum river discharge during spring floods. Korniagin, S.V., (1978, p.64-69, rus) **35-2704**

Soil processes in tundra. Sloboda, A.V., (1980, p.29-40, rus) **35-2762**

Geographic aspects of Siberian taiga. Sochava, V.B., (1980, 256p., rus) **35-2951**

Problems of utilization and preservation of natural resources in Siberia. Saks, V.N., ed. (1980, 136p., rus) **35-3042**

Evolution of taiga soils. Gadzhiev, I.M., (1980, p.128-131, rus) **35-3044**

Mycorhiza fungi and mycorhizae of forest-forming species in the North. Shubin, V.I., ed. (1980, 185p., rus) **35-3054**

River diversion effect on meteorological conditions of Arctic landscapes. Kurbatova, A.V., et al, (1980, p.104-106, rus) **35-3124**

Computer mapping of a snow cover. Roulet, N.T., (1980, p.185-188, eng) **35-3159**

Grass communities in northern meadows. Dymina, G.D., (1980, p.1392-1403, rus) **35-3213**

Development of tundra science in the USSR. Aleksandrova, V.D., (1980, p.1513-1522, rus) **35-3214**

Cells of leaf chlorenchyma in Arctic plants. Miroslavov, E.A., et al, (1980, p.1523-1530, rus) **35-3215**

Vegetation distribution in Chukotskiy Peninsula tundras. Balandin, S.A., et al, (1980, p.1719-1733, rus) **35-3219**

Creeping plants of the White Sea islands. Zabotina, I.N., et al, (1980, p.1779-1784, rus) **35-3220**

Vegetation of a hot spring area. Il'tsev, B.A., ed. (1981, 141p., rus) **35-3226**

Landscape indicators of engineering and hydrogeological conditions on plains east of Altai. Vinokurov, Il.I., (1980, 191p., rus) **35-3229**

Lakes in the northeastern part of the Siberian Platform. Parmuzin, Il.P., et al, (1981, 190p., rus) **35-3412**

Climate and waters of Siberia. Bachurin, G.V., ed. (1980, 232p., rus) **35-3413**

Water resources of small river basins. Antipov, A.N., (1980, p.175-184, rus) **35-3424**

Urban construction norms for the North. Shubert, A.A., (1981, p.58-62, rus) **35-3457**

Changes in terminology of tundra vegetation. Il'tsev, B.A., et al, (1980, p.99-106, rus) **35-3459**

Self-cleaning of polluted soils in cold regions. Shchetnikov, A.I., (1980, p.84-89, rus) **35-3477**

Results of studying thermal balance of landscapes under northern conditions. Pavlov, A.V., (1980, p.104-112, rus) **35-3478**

Classification of mountain taiga soils. Molokov, V.A., et al, (1980, p.163-170, rus) **35-3480**

Vegetation along the gas pipeline route, Yukon Territory. Stanek, W., (1980, 47p., eng) **35-3486**

Plant communities of spruce taiga. Dyrenkov, S.A., et al, (1981, p.26-33, rus) **35-3508**

Physiological processes in plants of Central Yakutia. Kononov, K.E., (1981, p.39-45, rus) **35-3509**

Snow and firn patches between Hornsund and Werenskiold Glacier. Glowicki, B., (1975, p.139-146, eng) **35-3615**

Soil heat-balance regime in the north of the USSR. Pavlov, A.V., (1981, p.129-135, eng) **35-3669**

Regularities governing the formation of elementary geosystems (the central taiga structures of Sos'vinskoe Proob'e as an example). Mikheev, V.S., ed. (1978, 124p., rus) **35-3819**

Relations between different components of taiga geosystems. Kuz'menko, E.I., (1978, p.9-21, rus) **35-3820**

Density of taiga stand and the young growth. Kuz'menko, E.I., (1978, p.22-42, rus) **35-3821**

Elementary structures of taiga geosystems. Mikheev, V.S., (1978, p.42-69, rus) **35-3822**

Typification of central taiga facies in West Siberia according to thermal conditions and the structure of radiation-meteorological fields. Trofimova, I.E., (1978, p.97-123, rus) **35-3824**

Runoff characteristics in polar regions. Nasybulin, Sh.S., (1976, p.32-41, rus) **35-3827**

Heat and water balance in western Siberia. Zhukov, V.M., (1981, p.55-67, rus) **35-3969**

Radiation balance of west Siberian taiga. Potapova, I.S., (1981, p.68-81, rus) **35-3970**

Microelement migration in waters of permafrost areas. Makarov, V.N., (1980, p.114-127, rus) **35-4001**

Decorative plants for landscaping residential areas in Yakutia. Krotova, Z.E., ed. (1980, 106p., rus) **35-4098**

Shrubs introduced in the Yakut Botanical Garden. Nazarova, E.I., (1980, p.15-24, rus) **35-4100**

Organization of spruce ecosystems in southern taiga. Isakov, Il.A., ed. (1979, 220p., rus) **35-4117**

Transition zone between taiga and swamps. Armand, A.D., (1979, p.194-213, rus) **35-4125**

Regionalization by environmental protection demands. Chepurko, N.I., et al, (1981, p.44-50, rus) **35-4277**

Biologic investigations in the Far East. Zhirmunskii, A.V., ed. (1979, 183p., rus) **35-4307**

Economic development of mountain taiga. Samoilov, T.P., et al, (1979, p.25-35, rus) **35-4308**

Landscape evolutions in the Far East. Ivanov, G.I., (1979, p.48-59, rus) **35-4309**

Biological cycle in forest tundras of the southern Magadan area. Ignatenko, I.V., ed. (1979, 164p., rus) **35-4323**

Altitudinal variations of tundra biomass. Ignatenko, I.V., et al, (1979, p.5-15, rus) **35-4324**

Humification processes in soils of the Okhotsk Sea area. Andreev, D.P., (1979, p.146-149, rus) **35-4331**

Alpine tundras of the Bol'shoy Annachag Range (upper course of the Kolyma River). Berman, D.I., ed. (1980, 178p., rus) **35-4332**

Landscape structure of the Sibit-Tyellakh River basin. Egorova, G.N., (1980, p.32-53, rus) **35-4334**

Alpine tundra vegetation in the Bol'shoy Annachag Range. Dokuchaeva, V.B., (1980, p.93-109, rus) **35-4338**

Landslides

Methodology of forecasting natural phenomena in Siberia. Druzhinin, I.P., ed. (1980, 144p., rus) **35-148**

Landslide formation on clay slopes. Demchishin, M.G., (1980, p.34-38, rus) **35-226**

Calculating slope stability. Kas'ianov, V.V., (1980, p.47-50, rus) **35-228**

Methods of engineering-geological investigations of high slopes susceptible to cave-ins and landslides. Zolotarev, G.S., ed. (1980, 184p. + append., rus) **35-344**

Regularities governing landslide processes in the European USSR and regional landslide forecasting. Kiunttsel', V.V., (1980, 213p., rus) **35-386**

Stability of slopes in permafrost. McRoberts, E.C., (1973, 370p., eng) **35-708**

Forecasting regional landslides. Kiunttsel', V.V., et al, (1980, p.193-199, rus) **35-1353**

Railroad embankments on unstable slopes. Basistov, M.A., (1980, p.5-7, rus) **35-1525**

Boring core of ice taken from beneath the soil of a landslide. Huzioka, T., et al, (1978, p.179-180, jap) **35-1555**

Natural-hazard maps for land-use planning in Norway. Hestnes, E., et al, (1980, p.331-343, eng) **35-2376**

Avalanche hazard mapping and zoning in the Rocky Mts. Ives, J.D., et al, (1980, p.363-375, eng) **35-2379**

Rock glacier formation in Colorado. Vick, S.G., (1981, p.75-84, eng) **35-2459**

Mud-rock flows in the vicinity of Batura Glacier. Cai, X., et al, (1980, p.146-152, chi) **35-4035**

Large panel buildings

Residential buildings in Arctic regions. Samukhnin, P.N., (1979, p.26-27, rus) **35-465**

Improving watertightness of large panel buildings. Omel'chenko, A.A., et al, (1980, 95p., rus) **35-1575**

Using lightweight concretes in cold regions. Rogatin, Il.A., et al, (1980, p.37-38, rus) **35-1653**

Precast lightweight concrete for cold regions. Vasil'ev, N.F., et al, (1981, p.20-23, rus) **35-2080**

Panel joint structures for cold regions. Cheremisov, K.M., et al, (1980, p.68-70, rus) **35-2102**

Cranes and excavators for permafrost areas. (1981, p.12-14, rus) **35-2848**

Multi-story stone buildings in the North. Kalinin, M.S., et al, (1980, 153p., rus) **35-2882**

Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, F.V., ed. (1979, 133p., rus) **35-4055**

Thermal and physical properties of cellular concrete enclosures. Tachkova, N.A., et al, (1979, p.72-76, rus) **35-4058**

Asbestos-cement panels for buildings in cold regions. Kozhevnikov, I.G., (1979, p.77-80, rus) **35-4059**

Two layer panels for buildings. Shcherbakov, A.V., et al, (1979, p.81-87, rus) **35-4060**

Lasers

Satellite laser altimeter for measurement of ice sheet topography. Bufton, J.L., et al, (1981, p.1003-1011, eng) **35-3592**

Ice-sheet dynamics in Greenland and Antarctica. Thomas, R.H., et al, (1981, p.1012-1022, eng) **35-3593**

Intensity fluctuations of a laser beam in falling snow. Zhukov, A.F., et al, (1980, p.103-107, eng) **35-4159**

Latent heat

Comment on "pressure melting". Martin, R.I., (1980, p.89, eng) **35-822**

Effect of latent heat on frost penetration in moist soil. Hooper, F.C., et al, (1979, p.789-790, eng) **35-2889**

Polex-North-76 (scientific results) Part 2. Treshnikov, A.F., ed. (1979, 194p., rus) **35-4182**

Complex full-scale experiment "Lena". Gudkovich, Z.M., et al, (1979, p.7-15, rus) **35-4183**

Leaching

Genesis of gray forest soils. Akhtyrtsev, B.P., (1979, p.521-531, eng) **35-962**

Leakage

Arctic pipeline operation, a different world. Hale, D., ed. (1980, p.22-30, eng) **35-1874**

Legislation

Environmental impact of WW II debris cleanup in southern Alaska. (1979, 272p. + 1 Vol. of append., eng) **35-1816**

Lessons learned from constructing the Trans-Alaska oil pipeline. (1978, 56p., eng) **35-2013**

North Slope Borough comprehensive policy plan, Haul Road area. (1980, 34p., eng) **35-2015**

Legalization of avalanche zoning in Switzerland. Frutiger, H., (1980, p.313-324, eng) **35-2374**

Avalanche zoning in France: regulation and technical bases. Crecy, L. de, (1980, p.325-330, eng) **35-2375**

Snow-avalanche hazard zoning in British Columbia, Canada. Freer, G.L., et al, (1980, p.345-354, eng) **35-2377**

Avalanche zoning in four western U.S. communities. Mears, A.I., (1980, p.355-362, eng) **35-2378**

Avalanche hazard mapping and zoning in the Rocky Mts. Ives, J.D., et al, (1980, p.363-375, eng) **35-2379**

Avalanche zoning in Alaska, U.S.A. Hackett, S.W., et al, (1980, p.377-392, eng) **35-2380**

Avalanche warning system and public education program for Alaska. Hackett, S.W., et al, (1980, p.497-500, eng) **35-2390**

Construction in an arctic environment without adequate inspection. Hoar, C.L., (1981, p.348-361, eng) **35-2513**

EPA policy on land treatment and the Clean Water Act of 197-. Thomas, R.E., et al, (1980, p.452-460, eng) **35-2759**

Land treatment: present status, future prospects. Pound, C.E., et al, (1978, p.98-102, eng) **35-2760**

Snowmobile noise regulations. Bumpass, D., (1980, 11p + append., eng) **35-2856**

Wastewater treatment ponds. (1975, 21p. + append., eng) **35-2862**

Federal monitoring of Trans-Alaska oil pipeline operations. (1981, 139p., eng) **35-3560**

United States Arctic science policy. Hickok, D.M., et al, (1981, 62p., eng) **35-3738**

Leveling

Shape and size of ice ridges in the Baltic Sea. Kennonen, V., (1976, 11p. + append., eng) **35-4175**

Lichens

Seasonal dynamics of tundra cotton grass. Spodobtseva, N.I., (1980, p.73-84, rus) **35-286**

Bushy lichens of tundra. Rykova, Il.V., (1980, p.124-139, rus) **35-290**

Grazing effect on tundra lichens. Andreev, V.N., (1980, p.201-205, rus) **35-294**

Moss and lichen vegetation in northern forest steppes. Afonina, O.M., et al, (1980, p.66-82, rus) **35-393**

Grazing effect on tundra vegetation. Polezhaev, A.N., (1980, p.5-13, rus) **35-1036**

Microclimatology of northern forests. Ipatov, V.S., et al, (1980, p.14-20, rus) **35-1037**

Epiphyte algae of peat mosses. Antipina, G.S., (1980, p.167-175, rus) **35-1330**

Lichenometric dating of Holocene glaciers, Brooks Range, Alaska. Calkin, P.E., et al, (1980, p.245-264, eng) **35-1665**

Vegetation features in the N.W.T., Canada. Johnson, E.A., (1981, p.200-215, eng) **35-2800**

Adenosine triphosphate, chlorophyll, and organic nitrogen in the dry valleys. Friedmann, E.I., et al, (1980, p.164-166, eng) **35-3193**

Lichens of Arctic landscapes. Andreev, M.P., (1981, p.31-41, rus) **35-3221**

Vegetation of a hot spring area. Il'tsev, B.A., ed. (1981, 141p., rus) **35-3226**

Lichens of the Alaskan Arctic slope. Thomson, J.W., (1979, 314p., eng) **35-3523**

Ecologic and geographic distribution of taiga plants. Beglianova, M.I., et al, (1981, p.37-52, rus) **35-3892**

Glacier margin fluctuations in West Greenland. Gordon, J.E., (1981, p.47-62, eng) **35-4083**

Structure and biomass of larch taiga. Moskaliuk, I.A., (1979, p.16-27, rus) **35-4325**

Light scattering
Light attenuation and visibility in drifting snow. Takeuchi, M., et al, (1976, p.165-170, jap) 35-258
Matrices of light scattering in ice. Volodin, E.S., et al, (1980, p.119-128, rus) 35-381
Scattering and absorption by thin flat aerosols. Weil, H., et al, (1980, p.2066-2071, eng) 35-2409
Translational Raman spectrum of hexagonal monocrystalline ice. Faure, P., et al, (1981, p.120-126, fre) 35-3882
Scattering of light by ice crystals. Volkovitskii, O.A., et al, (1980, p.98-102, eng) 35-4158
Infrared scattering and extinction in water and ice clouds. Sassen, K., (1981, p.185-193, eng) 35-4250

Light transmission
Relationship between a lake ice and snowcover and zooplankton distribution. Roulet, N.T., et al, (1980, p.133-148, eng) 35-46
Illustrations of biological roles of winter lake cover. Adams, W.P., (1980, p.1-18, eng) 35-3143
Intensity fluctuations of a laser beam in falling snow. Zhukov, A.F., et al, (1980, p.103-107, eng) 35-4159

Lightning
Lightning protection in permafrost areas. Erofeev, A.A., et al, (1980, p.77, rus) 35-606
Electrical grounding in gas field installations. Men'shov, B.G., et al, (1980, p.33-36, rus) 35-628
Design of electrical grounding for permafrost areas. Men'shov, B.G., et al, (1980, p.35-37, rus) 35-629
Problems in meteorology and hydrology of Siberia, (1976, 218p., rus) 35-1189
Studying thunderstorms along buried communication cables in permafrost areas with lightning flash counters. Par'ev, N.S., et al, (1976, p.26-31, rus) 35-1190
Lightning from ice crystals and colliding raindrops. Crabb, J.A., et al, (1977, p.618-622, eng) 35-3781

Lightweight concretes
Steam permeability of concretes and bricks. Shamaeva, A.P., et al, (1979, p.110-113, rus) 35-241
Using lightweight concretes in cold regions. Rogatin, IU.A., et al, (1980, p.37-38, rus) 35-1653
Precast lightweight concrete for cold regions. Vasil'ev, N.F., et al, (1981, p.20-23, rus) 35-2080
Concrete and reinforced concrete work. Construction manual. Topchii, V.D., ed, (1980, 201p., rus) 35-2880
Thermal and physical properties of cellular concrete enclosures. Tachkova, N.A., et al, (1979, p.72-76, rus) 35-4058

Limnology
Climatic changes of Harding Lake, Alaska. Nakao, K., ed, (1980, 77p., eng) 35-1557
Limnology of tundra ponds. Hobbie, J.E., ed, (1980, 514p., eng) 35-1747
Major findings of the IBP study about arctic ponds. Hobbie, J.E., (1980, p.1-18, eng) 35-1748
Description of tundra ponds. Hobbie, J.E., (1980, p.19-50, eng) 35-1749
Physics of tundra ponds. Miller, M.G., et al, (1980, p.51-75, eng) 35-1750
Chemistry of sediments in tundra ponds. Prentki, R.T., et al, (1980, p.76-178, eng) 35-1751
Sedimentation in proglacial Sunwapta Lake, Alberta. Gilbert, R., et al, (1981, p.81-93, eng) 35-2707
Ecosystem models of an arctic pond. Hobbie, J.E., et al, (1978, p.105-109, eng) 35-2890
Lakes in the northeastern part of the Siberian Platform. Parmuzin, IU.P., et al, (1981, 190p., rus) 35-3412
Limnology of the Klutlan moraines, Yukon Territory, Canada. Whiteside, M.C., et al, (1980, p.130-148, eng) 35-3721
Paleolimnology of the Klutlan Glacier area, Canada. Bradbury, J.P., et al, (1980, p.149-168, eng) 35-3722

Linings
Asphalt-polymer concrete linings of hydraulic structures in the North. Stabnikov, N.V., (1980, 176p., rus) 35-1122
Bridges across large rivers in the North. Rasskazov, I.D., et al, (1981, p.23-24, rus) 35-2081
Passing ice over stone linings of spillways. Prasdivets, IU.P., (1981, p.43-46, rus) 35-2099

Liquefied gases
Large underground reservoirs for liquefied gases. Novikov, I.P., (1980, p.38-39, rus) 35-619
Petroleum resources of Alaska and Canada. Lachininskii, V.A., et al, (1979, p.95-101, rus) 35-751
Heat transfer in liquefied gas reservoirs. Bronfenbrener, L.E., (1980, p.25-26, rus) 35-1306
Geological, geochemical and geotechnical observations on the Bering Shelf, Alaska. Larsen, M.C., et al, (1980, Var.p., eng) 35-2538
Artificial freezing of rocks when sinking shafts. Kachur, V.D., et al, (1980, p.17-18, rus) 35-2636

Liquid cooling
Cooling of a horizontal cylinder of water through its maximum density. Gilpin, R.R., (1975, p.1307-1315, eng) 35-2943
One-dimensional melting problem. Yuen, W.W., et al, (1979, p.120-126, eng) 35-3355

Liquid phases
Formation and properties of fluidized snow. Maeno, N., et al, (1978, p.77-92, jap) 35-1177
Viscosity and heat transfer of fluidized snow. Nishimura, K., et al, (1978, p.93-102, jap) 35-1178
Water content values of ice hydrometeors from aircraft and radar data. Plank, V.G., et al, (1980, p.1293-1299, eng) 35-3865

Liquid solid interfaces
Investigation of the heat transfer at the liquid solid interface of rapidly melting ice. Fredley, J.E., (1980, 87p., eng) 35-1591
Solidification in two-phase flow. Petrie, D.J., et al, (1980, p.784-786, eng) 35-1680
Liquid distribution and the dielectric constant of wet snow. Colbeck, S.C., (1980, p.21-39, eng) 35-1735
Convection-controlled and conduction-controlled freezing. Sparrow, E.M., et al, (1981, p.7-12, eng) 35-2146
Molecular theory for the solid-liquid interface. Haymet, A.D.J., et al, (1981, p.2559-2565, eng) 35-2709
Mathematical model of nozzle blockage by freezing. Sampson, P., et al, (1981, p.231-241, eng) 35-3269
Stefan problem with mixed boundary condition. Gupta, R.S., et al, (1981, p.251-259, eng) 35-3270
Tube freezing for conduction- or convection-controlled heat transfer. Sparrow, E.M., et al, (1981, p.273-284, eng) 35-3272
Heat Transfer. San Diego, 1979, (1979, 315p., eng) 35-3347
Crust behavior in simultaneous melting on a submerged flat plate. Ganguli, A., et al, (1979, p.40-53, eng) 35-3348
Heat transfer during solidification around a cooled horizontal cylinder. Bathelt, A.G., et al, (1979, p.103-111, eng) 35-3353
Boundary system with convection at the solid-liquid interface. Nansteel, M.W., et al, (1979, p.112-119, eng) 35-3354
One-dimensional melting problem. Yuen, W.W., et al, (1979, p.120-126, eng) 35-3355
Thermal performance of a phase-change material. Godfrey, R.D., et al, (1979, p.127-133, eng) 35-3356
Surface ablation by melting or sublimation on a submerged rotating disc. Condiff, D.W., et al, (1979, p.134-147, eng) 35-3357
Oil, ice and gas, (1980, 169p., eng) 35-3867
Aspects of oil-ice interaction subsequent to the Kurdistan spill. Reimer, E., (1980, p.75-86, eng) 35-3876
Observations of oil behaviour in ice floes and the 1977 *Ethel* H. spill. Deslauriers, P.C., (1980, p.87-94, eng) 35-3877
U.S. Coast Guard Arctic oil spill research program. Tebeau, P.A., et al, (1980, p.111-128, eng) 35-3880
Transient freezing of liquids in tube flow. Cheung, F.B., et al, (1976, p.1-9, eng) 35-3922
Anticipated oil-ice interactions in the Bering Sea. Martin, S., (1980, p.223-243, eng) 35-4142

Liquids
Surface widths of simple liquids and an empirical law of freezing. Mon, K.K., et al, (1981, p.2078-2080, eng) 35-2461

Lithology
Glacial Lake Coppermine, N.W.T. St-Onge, D.A., (1980, p.1310-1315, eng) 35-1267
Cryolithogenesis as an independent type of lithogenesis. Popov, A.I., (1979, p.7-25, rus) 35-1828
Climatic paleolithology of the Far ... Kozlov, S.P., ed, (1978, 144p., rus) 35-1850
Topography development under monsoon and continental climates. Korotkii, A.M., et al, (1976, p.124-138, rus) 35-1857
Slope processes in cold environment of northern Finland. Soderman, G., (1980, p.83-152, eng) 35-2105
Geochemical prospecting in stratified till in Finland. Kokkola, M., (1975, p.149-154, eng) 35-2740
Palynologic proof of glacier advances and retreats. Sopoeva, A.S., (1980, p.173-176, rus) 35-3335
Erosion and deposition on Arctic shelves. Pavlidis, IU.A., et al, (1981, p.33-96, rus) 35-3887

Litter
Forest strip effect on snow distribution. Savin, E.N., ed, (1978, 96p., rus) 35-1091
Chemical composition of litter decaying in northern swamps. Egorova, R.A., et al, (1980, p.135-155, rus) 35-1329
Conference of young scientists, 3rd, Krasnoyarsk, 1971. Studies of the nature of Siberian forests, (1972, 325p., rus) 35-1373
Thermal effect of radiation on forest litter. Konev, V.A., (1972, p.230-235, rus) 35-1379
Rate of flame propagation in pine litter. Sukhinin, A.I., (1972, p.236-242, rus) 35-1380
Modeling pine needle burning in air flow. Kisiliakhov, E.K., (1972, p.242-248, rus) 35-1391
Fire danger in different Far North landscapes. Snytkin, G.V., (1971, p.83-93, rus) 35-1394
Amount of litter produced by different taiga trees. Karpel', B.A., (1971, p.94-102, rus) 35-1395
Litter formation in seasonally freezing forest soils. Krupskaia, L.T., (1980, p.85-86, rus) 35-2282
Microbiology of sedge-pine forest soils. Vishniakova, Z.V., (1980, p.130-144, rus) 35-2479
Proceedings of a scientific conference of the Institute of Biology. Zaboeva, I.V., ed, (1971, 124p., rus) 35-2604
Annual chemical element cycle of central taiga. Rusanova, G.V., et al, (1971, p.62-63, rus) 35-2612
Organization of spruce ecosystems in southern taiga. Isakov, IU.A., ed, (1979, 220p., rus) 35-4117
Vegetation of the Valday taiga. Glazov, M.V., (1979, p.10-29, rus) 35-4118

Loading
Coal loading pier in Svea, Svalbard. Instanes, B., (1979, p.217-232, eng) 35-172

Loads (forces)
Dynamic structural response of a massive pier. Tupsett, A.W., et al, (1979, 47p., eng) 35-116
Frost heave and frost heaving forces. Chen, X., (1980, p.36-40, chi) 35-124
Pressure distribution in frozen soils. Groenevelt, P.H., et al, (1979, p.582-591, eng) 35-436
Working group on ice forces on structures. Carstens, T., ed, (1980, 146p., eng) 35-507
Dynamic properties of frozen silt under cyclic loading. Czajkowski, R.L., et al, (1980, p.963-980, eng) 35-526
Load bearing capacity test on a freshwater ice cover. Laidley, T.E., et al, (1980, 50p., eng) 35-565
Incremental formulation of constitutive equations for deposited snow. Desrues, J., et al, (1980, p.289-307, eng) 35-1823
Mechanics of cutting and boring in permafrost. Mellor, M., (1980, 82p., eng) 35-1892
Plate loading and vane-cone test measurements for fresh and sintered snow. Yong, R.N., et al, (1980, 32p., eng) 35-2010
Scale modeling of snow-avalanche impact on structures. Lang, T.E., et al, (1980, p.189-196, eng) 35-2361
Ice force prediction using a limited driving force approach. Vivatrat, V., et al, (1981, p.471-485, eng) 35-3454
Marine geology and geotechnical engineering. OTC, 13th, 1981, (1981, 514p., eng) 35-3455
Investigation of the snow adjacent to Dye-2, Greenland. Ueda, H.T., et al, (1981, 23p., eng) 35-3651
Strain measurements in floating ice platforms. Anderson, K.G., et al, (1980, p.33-53, eng) 35-3837
Measurements of ice breaking loads. Iyer, S.H., (1980, p.275-302, eng) 35-3846
Wind and snow load statistics for probabilistic design. Ellingwood, B., (1981, p.1345-1350, eng) 35-4004
Uniaxial compressive strength of segregated ice in soil. Ohrai, T., et al, (1981, p.83-96, eng) 35-4267

Loams
Soil formation on paleocryogenic fines. Gorbunova, I.A., (1979, p.122-130, rus) 35-194
Deformation of cemented clayey soils. Petrus, V.P., et al, (1980, p.51-57, eng) 35-496
Podsol soils of Central and Eastern European USSR (developed on loams). Rode, A.A., ed, (1980, 304p., rus) 35-877
Experimental investigation of the distribution of stresses in large bored ice cast piles. Grigoriev, A.A., et al, (1980, p.102-106, eng) 35-1384
Water soluble substances in podsolized sandy and loam soils. Strelkova, A.A., (1979, p.3-22, rus) 35-1418
Cryogenic soils of Karelia. Perevozchikova, E.M., et al, (1979, p.149-168, rus) 35-1419
Effect of pH on Ra absorption in soils. Gil', T.V., (1980, p.58-64, rus) 35-1516
Strength of frozen saline loams. Alekseev, V.P., (1974, p.50-54, rus) 35-1601
Strength of frozen sandy loam. Artemov, Z.P., (1973, p.55-61, rus) 35-1602
Material composition of Edoma series. Kuznetsov, IU.V., (1979, p.136-144, rus) 35-1834
Cryogenic structure of the Edoma frozen loess series. Arkhangelov, A.A., et al, (1979, p.145-156, rus) 35-1835
Origin of loams in Vorkuta tundra. Archegova, I.B., (1980, p.37-39, rus) 35-2265
Origin of perennially frozen fines (Edoma deposits). Gasanov, Sh.Sh., et al, (1979, p.143-156, rus) 35-3047

Locks (waterways)
Ice control at navigation locks. Hanamoto, B., (1981, p.1088-1095, eng) 35-4168

Loess
Designing pile foundations for sagging grounds. Klepikov, S.N., et al, (1980, p.53-58, rus) 35-229
Deformation of loess beneath foundations. Tugaenko, IU.F., et al, (1980, p.85-97, rus) 35-231
Types of tundra soils. Elovskaia, I.G., et al, (1980, p.158-194, rus) 35-292
Formation of Siberian loesses. Koliago, S.A., (1980, p.5-20, rus) 35-296
Origin of the ice-bearing loess in the Northern Hemisphere. Tomirdiaro, S.V., (1975, p.170-197, rus) 35-1137
Geocryological conditions of formation of Upper Pleistocene and Holocene deposits in the northern eastern USSR. Novoseletskii, R.N., ed, (1976, 88p., rus) 35-1143
Ice bearing loess in the Yana-Omoloy Interfluve. Tomirdiaro, S.V., et al, (1976, p.3-11, rus) 35-1144
Effect of pH on Ra absorption in soils. Gil', T.V., (1980, p.58-64, rus) 35-1516
Heat treatment of unstable clay slopes. Rudanov, A.P., (1980, p.39-40, rus) 35-1530

Origin of the Edoma series in Yakutia. Arkhangelov, A.A., et al, [1979, p.110-135, rus] 35-1833
Material composition of Edoma series. Kuznetsov, IU.V., [1979, p.136-144, rus] 35-1834
Cryogenic structure of the Edoma frozen loess series. Arkhangelov, A.A., et al, [1979, p.145-156, rus] 35-1835
Chemical stabilization of soils. Sokolovich, V.E., [1980, 119p., rus] 35-2952
Origin of perennially frozen fines (Edoma deposits). Gasanov, Sh.Sh., et al, [1979, p.143-156, rus] 35-3047
Origin of frozen loess (Edoma) formation in Yakutia. Vtiurin, B., et al, [1980, p.265-271, rus] 35-3232
Cements for stabilizing loess and clay soils. Zgadzai, L.K., et al, [1981, p.113-117, rus] 35-3461
Utilization of explosive energy in construction. Danilenko, I.I., [1981, 167p., rus] 35-3531
Late Cenozoic permafrost of Yakutia. Kaplina, T.N., [1981, p.153-181, rus] 35-4078
Screw pile foundations for drilling rigs. Kolomeltsev, V.T., et al, [1921, p.14-15, rus] 35-4286

Logistics

Deep Freeze 1980 Cruise Report. [1980, 72p., eng] 35-184
CNSFA Operation Order (OPORD) No.1-Yr [1980-1981]. [1980, ç.100 leaves, eng] 35-328
Stressing military training under winter conditions. [1980, p.2-4, rus] 35-338
Reinforcing fast ice for unloading military equipment. Zemlin, S., [1980, p.70-71, rus] 35-969
Geotechnical conditions during the trans-Alaska pipeline construction. Luscher, U., et al, [1979, p.128-133, eng] 35-1112
Environmental impact of WW II debris cleanup in southern Alaska. [1979, 272p. + 1 Vol. of appends., eng] 35-1816
Winter military training in polar regions. Lutoshkin, A., [1977, p.25-29, rus] 35-2449
Military winter training in taiga. Titov, A., [1978, p.31-35, rus] 35-2450
Construction of bulk plants and gasoline stations. Groznov, G.A., et al, [1980, 332p. (Pertinent p.56-147), rus] 35-2873

Long range forecasting

Long range forecasts of ice formation on rivers. Shanochkin, S.V., [1980, p.92-99, rus] 35-1018
Forecasting dates of ice formation in Arctic seas. Zakharov, V.F., [1980, p.61-67, rus] 35-3494
Forecasting ice conditions in the Anadyr Bay. Arikainen, A.I., et al, [1980, p.77-82, rus] 35-3496
Forecasting ice cover thickness on rivers. Chernov, I.M., [1981, p.21-28, rus] 35-4301

Low temperature research

Institute of Low Temperature Science, Hokkaido Univeriaty. Wang, C., et al, [1980, p.62 + figs., chi] 35-93
Polar Research Board report 1979. [1980, 39p., eng] 35-112
Low temperature RKU-114M X-ray equipment. Prokhvatilov, A.I., [1979, p.916-917, rus] 35-340
Projects for transportation technology in Canada, 1979. [1980, 83p., eng] 35-840

Low temperature tests

Concrete and cryogenics; Part 2. Turner, F.H., [1980, p.31. eng] 35-251
Viscosity and low temperature fracture strain in asphalt mixtures. Ruth, B.E., et al, [1979, p.221-237, eng] 35-332
Thermal properties of liquid D2O at low temperatures and high pressures. Kanno, H., et al, [1980, p.1940-1947, eng] 35-441
Phase relations of ice under pressure. Mishima, O., et al, [1980, p.2454-2456, eng] 35-442
Heat and mass transfer from freely falling drops at low temperatures. Zarling, J.P., [1980, 14p., eng] 35-594
Behavior of H2O and D2O at low temperatures. Stanley, H.E., et al, [1980, p.3404-3422, eng] 35-842
Low temperature study of airplanes. Alley, B.J., Jr., [1980, p.77-90, eng] 35-1585
Steels for Arctic pipelines. Krishnadev, M.R., et al, [1979, p.1941-1944, eng] 35-1780
Simple structure insulating material properties for multilayer insulation. Matsuda, A., et al, [1980, p.135-138, eng] 35-1782
Field cooling rates of asphalt concrete overlays at low temperatures. Eaton, R.A., et al, [1980, 11p., eng] 35-2002
Wire regelation at low temperatures. Gilpin, R.R., [1980, p.435-448, eng] 35-2153

Lubricants

Adhesive shear strength of ice to bonded solid lubricants. Jones, J.R., et al, [1972, p.464-471, eng] 35-274
Winterizing railroad equipment and machines. Golovinov, G.G., et al, [1980, p.57-58, rus] 35-457
Operation of the lubrication, hydraulic and pneumatic systems of construction machines under northern conditions. Garkavi, N.G., et al, [1979, 111p., rus] 35-814
Winter operation of military transportation vehicles. Simonov, A., [1980, p.69-71, rus] 35-970
Arctic lubrication. [1981, p.186, 189, eng] 35-3697

Lumbering

Heat and water balance variations in taiga due to lumbering. Fedorov, S.F., et al, [1979, p.185-193, rus] 35-4124

Luminescence

Fluorescent boxes help spot hydrants in Alaskan snow. Mulvihill, C.E., [1981, p.110-111, eng] 35-3861

Machinery

Arctic lubrication. [1981, p.186, 189, eng] 35-3697

Macquarie Island

Tundra and analogous soils. Everett, K.R., et al, [1981, p.139-179, eng] 35-2705

Magnetic properties

Magnetic susceptibility and its anisotropy in studying glacial transport. Puranen, R., [1977, p.111-119, eng] 35-2730

Maintenance

Young larch forests in Yakutia. Pozdniakov, L.K., [1980, p.46-55, rus] 35-956
Ground freezing halts sewer collapse. [1980, p.85, eng] 35-1698
Permafrost and human activities in the Arctic and Subarctic. Péwé, T.L., [1979, p.333-344, eng] 35-1952
Excavation of frozen materials. Moore, H.E., et al, [1980, p.323-345, eng] 35-1985
Operation, maintenance and management of sanitation facilities in the North. Sargent, J.W., [1980, p.248-259, eng] 35-2122
Ice and steep slopes present design challenges for arctic production islands. [1980, p.24-28, eng] 35-2858
Several reasons for failure of field welded oil pipeline. [1980, p.8-9, eng] 35-3358

Manpower

Five stage program beats snow with Toledo's mobilized forces. [1980, p.9-11, eng] 35-3207

Manuals

Ice. Physical properties. Modern methods of glaciology. Bogorodskiĭ, V.V., et al, [1980, 384p., rus] 35-1123
Handbook of snow: principles, processes, management and use. Gray, D.M., ed, [1981, 776p., eng] 35-3745
Field manual for cold-climate oil spills. Deslauriers, P.C., [1980, p.95-101, eng] 35-3878
Manual of engineering geology. Churinov, M.V., ed, [1981, 325p., rus] 35-4305

Manufacturing

Mineral insulation—a critical study. Winer, A.A., et al, [1980, 25p., eng] 35-2165

Mapping

Cryogenic phenomena in Kazakhstan and Central Asia. Gorbunov, A.P., ed, [1979, 145p., rus] 35-185
Calculating vertical air temperature gradients in mountains. Blagoveshchenskiĭ, V.P., [1979, p.83-87, rus] 35-190
Large scale mapping of cryogenic phenomena. Severskiĭ, E.V., [1979, p.105-112, rus] 35-192
Classification of Arctic vegetation. Aleksandrova, V.D., [1979, p.1715-1730, rus] 35-341
Computer enhanced snow cover analysis of satellite data. Hogg, W.D., et al, [1979, p.414-423, eng] 35-427
Climatic maps for road construction. Efimenko, V.N., et al, [1980, p.19-21, rus] 35-481
Classification of geocryological conditions. Bobov, N.G., [1980, p.90-97, rus] 35-775
Surveying construction sites of the Baykal Amur railroad. Sochava, V.B., et al, [1975, p.3-12, rus] 35-791
Botanical geography of Altai. Ogureeva, G.N., [1980, 192p., rus] 35-876
Geomorphologic analysis of Arctic continental shelf. Patyk-Kara, N.G., et al, [1980, p.91-98, rus] 35-952
Soviet glaciological studies in 1979. Kotliakov, V.M., et al, [1980, p.5-13, rus] 35-1219
Problem of a glacier inventory of Antarctica. Swithinbank, C., [1980, p.229-236, eng] 35-1284
Weather-forming factors and their role in bioclimatology. Pogosian, Kh.P., ed, [1980, 108p., rus] 35-1448
Regionalization of the Baykal Amur railroad zone. Nechaeva, E.G., et al, [1980, p.3-11, rus] 35-1628
Mapping vegetational resources of permafrost areas. Geleta, I.F., et al, [1980, p.114-124, rus] 35-1707
Morphologic peculiarities of mudflow foci. Khonin, R.V., [1980, p.27-33, rus] 35-1803
Mapping the areas of glacial mudflows. Khonin, R.V., [1980, p.34-41, rus] 35-1804
Snow survey of the Northern Hemisphere. Taylor, R.A.H., [1980, p.75-76, eng] 35-2163
Mapping snow surface temperature from satellite data, Sierra Nevada. Frampton, M., et al, [1980, p.88-96, eng] 35-2231
Winter soil temperature maps of the Northeastern USSR. Mikhailov, V.M., [1980, p.90-93, rus] 35-2283
Natural-hazard maps for land-use planning in Norway. Heatnes, E., et al, [1980, p.331-343, eng] 35-2376
Avalanche zoning in four western U.S. communities. Mears, A.I., [1980, p.355-362, eng] 35-2378
Avalanche hazard mapping and zoning in the Rocky Mts. Ives, J.D., et al, [1980, p.363-375, eng] 35-2379
Regionalization of the Non-chernozem zone. Panov, E.P., et al, [1980, 231p., rus] 35-2439
Application of remote sensing data in the glacial mapping work. Wu, H., [1980, p.60-61, chi] 35-2670
Preparation of glacier distribution maps. Yin, S., [1980, p.67-70, chi] 35-2673
Preparation of synthetic image map of permafrost in the north of Tuo-Tuo River. Luo, X., et al, [1980, p.70-71, chi] 35-2674
Method of showing naked bed rock on glacial maps. Yin, S., [1980, p.74-76, chi] 35-2676
Conductive ground effects on electromagnetic survey methods. Peltoniemi, M., [1977, p.89-103, eng] 35-2728
Regional geochemical mapping in Finland. Kauranne, L.K., [1975, p.71-81, eng] 35-2738
Resolutions of the Editorial Board of the World Atlas of Snow and Ice Resources (The fifth meeting, 21 February, 1980). [1980, p.7-8, rus] 35-2804
Snow cover. Getker, M.I., [1980, p.8-20, rus] 35-2805
Regime of glaciers. Krenke, A.N., [1980, p.20-23, rus] 35-2806
Atmospheric precipitation. Struzer, L.R., et al, [1980, p.24-25, rus] 35-2807
Snowmelt and glacial runoff. Dreier, N.N., [1980, p.25-26, rus] 35-2808
Workshop session of the authors of avalanche maps, prepared for the World Atlas of Snow and Ice resources. Glazovskaia, T.G., et al, [1980, p.26-27, rus] 35-2809
Snow surveys in Spitsbergen. Troitskiĭ, L.S., et al, [1980, p.185-192, rus] 35-2829
Information content of glacier measurements. Grakovich, V.F., et al, [1980, p.213-215, rus] 35-2836
Stereophotogrammetric surveys and mapping of the Batura Glacier. Wang, W., et al, [1980, p.22-28, chi] 35-2914
Mapping snow cover distribution from satellite data. Usachev, V.F., et al, [1980, p.21-29, rus] 35-2970
Accuracy of mapping snow cover boundaries from satellite data. Prokacheva, V.G., et al, [1980, p.35-43, rus] 35-2972
Identification of naleds on satellite photographs. Abakumenko, V.P., et al, [1980, p.75-82, rus] 35-2977
Snow cover distribution in the St. John River basin. Trivett, N.B.A., et al, [1980, p.19-35, eng] 35-3144
Computer mapping of a snow cover. Roulet, N.T., [1980, p.185-188, eng] 35-3159
Two low Arctic vegetation maps near Atkasook, Alaska. Komárková, V., et al, [1980, p.447-472, eng] 35-3199
Characteristics of permafrost beneath the Beaufort Sea. Sellmann, P.V., et al, [1981, p.125-157, eng] 35-3256
Cryogenic and climatic parameters in paleoclimatology. Nechaev, V.P., [1981, p.211-220, rus] 35-3295
Frost heave intensities and thaw depth in northern cities. Solov'ev, P.A., [1980, p.60-63, rus] 35-3316
NOAA/NESS satellite snowmapping techniques. Schneider, S.R., et al, [1981, p.133-140, eng] 35-3439
Compiling a medium-scale vegetation map of the northern Baykal area from space survey data. Belov, A.V., [1980, p.97-102, rus] 35-3543
Remarks to the orthophoto map "Langtaler Ferner 1971", Scale 1:7500. Brunner, K., [1979, p.195-199, ger] 35-3728
Elementary structures of taiga geosystems. Mikheev, V.S., [1978, p.42-69, rus] 35-3822
Drainage in the faulted Aldan Plateau zone. Lygin, A.M., [1980, p.22-30, rus] 35-3991
Geocryologic mapping of East Siberian mountains. Lomovtseva, N.S., [1980, p.127-134, rus] 35-4002
Chart of ground water movement in East Siberia. Piguzova, V.M., [1980, p.135-138, rus] 35-4003
Cartographic methods of the map of Batura Glacier. Wang, Y., et al, [1980, p.221-228, chi] 35-4041
U.S. Geological Survey in Alaska; 1981 programs. Reed, K.M., ed, [1981, 111p., eng] 35-4225
Regionalization by environmental protection demands. Chepurko, N.L., et al, [1981, p.44-50, rus] 35-4277
Use of satellites in surveying for urban construction. Krest'iashin, S.I., et al, [1981, 159p., rus] 35-4310

Maps

Aerial photography in soil mapping. Monakhov, A.K., [1980, p.355-356, rus] 35-109
Methods of engineering-geological investigations of high slopes susceptible to cave-ins and landslides. Zolotarev, G.S., ed, [1980, 184p. + append., rus] 35-344
Cryogenic structure and ice content of perennially frozen rocks in the West Siberian Platform. Trofimov, V.T., et al, [1980, 246p., rus] 35-385
Regularities governing landslide processes in the European USSR and regional landslide forecasting. Kiuntsel', V.V., [1980, 213p., rus] 35-386
Climatic maps for road construction. Efimenko, V.N., et al, [1980, p.19-21, rus] 35-481
Compiling avalanche cadasters. Akif'eva, K.V., et al, [1980, p.25-34, rus] 35-712
Large scale map of taiga vegetation. Medvedev, IU.O., [1971, p.47-57, rus] 35-758
Structural geology map of the Baykal Amur railroad area. Kuskov, A.P., et al, [1979, p.56-63, rus] 35-777
Geobotanical maps of West Siberian Plain. Il'ina, I.S., [1975, p.19-25, rus] 35-793
Climatic regionalization of the Baykal Amur railroad area. Gol'tsberg, I.A., et al, [1980, p.3-15, rus] 35-1194
Working session of the Section of glaciology in February 1980. Glazovskiĭ, A.F., [1980, p.13-20, rus] 35-1220

Maps *(cont.)*
Resolutions of the Working Session of the Section of Glaciology, Feb 18-20, 1980 [1980, p.20-22, rus] **35-1221**
Maps for protection of northern vegetation Karpenko, A.S., et al, [1980, p.1192-1202, rus] **35-1534**
Geothermal conditions of sedimentary mantle in the Siberian Platform Slavin, V.I., et al, [1980, p.5-13, rus] **35-1570**
North Atlantic ice conditions, 1979 [1979, 64p., eng] **35-1759**
Legends for detailed engineering-geological maps of permafrost areas Dostovalov, V.B., [1981, p.42-43, rus] **35-2088**
Geobotanical atlas of the Prudhoe Bay region, Alaska Walker, D.A., et al, [1980, 69p., eng] **35-2150**
Ground ice distribution maps Ivanov, M.S., [1980, p.58-75, rus] **35-2191**
Maps of engineering-geocryologic regionalization of the central Yamal Peninsula Parmuzin, S.IU., et al, [1980, p.108-127, rus] **35-2193**
Land erosion maps of the Central Region for environmental protection Kosov, B.F., et al, [1979, p.95-101, rus] **35-2327**
Sea ice atlas of Arctic Canada 1969-1974. Lindsay, D.G., [1977, 219p., eng] **35-2630**
Fifth meeting of the editorial board of the World Atlas of Snow and Ice Resources. Dreter, N.N., [1980, p.5-6, rus] **35-2803**
Recommendations of the working session of the authors of avalanche maps. [1980, p.27-30, rus] **35-2810**
Eastern-western Arctic sea ice analysis. [1979, 104p., eng] **35-2928**
Problems of Pleistocene paleogeography in glacial and periglacial regions Velichko, A.A., ed, [1981, 251p., rus] **35-3293**
Vegetation along the gas pipeline route, Yukon Territory, Stanek, W., [1980, 47p., eng] **35-3486**
Spectral brightness of northern landscapes Kondrat'ev, K.IA., et al, [1980, p.72-83, rus] **35-3804**
Soil cover structure in Alpine tundras. Ignatenko, I.V., et al, [1980, p.54-67, rus] **35-4335**

Marine biology
Environmental studies (1974); James Bay territory and surrounding area. [1975, 108p. + 14 figs., eng] **35-566**
Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979 [1980, 595p., eng] **35-846**
Bibliography of the publications on the Alaskan continental shelf [1980, 177p., eng] **35-847**
Microbiology of an ice associated antarctic diatom. Whitaker, T.M., et al, [1980, p.250-257, eng] **35-1285**
Pelagic zone ecosystems of the Arctic Basin. Vinogradov, M.E., et al, [1980, p.5-14, rus] **35-1313**
Marine life and biogeography of the Canadian Eastern Arctic Dunbar, M.J., et al, [1980, 119p., eng] **35-1760**
Environments of the Alaskan Continental Shelf, [1980, 313p., eng] **35-1827**
Hibernia and Ben Nevis seabed study; Polaris V Cruise report, June 1980 Amos, C.L., et al, [1980, 40p., eng] **35-1846**
James Bay hydro-electric project; environmental concerns [1981, 45p., eng] **35-1882**
Oceanography of the northern Gulf of St. Lawrence. Lewis, J.B., et al, [1980, 52p., eng] **35-2011**
Environmental assessment of the Alaskan continental shelf, TDP, FY81 Hameedi, J., coord, [1980, 130p., eng] **35-2020**
Arctic animal ecology Remmert, H., [1980, 250p., eng] **35-2023**
West antarctic ice sheet during the last glaciation. Stuiver, M., et al, [1981, p.319-436 + 5 sheets, eng] **35-2069**
Marine mammals inhabiting the Baffin Bay North Water in winter Finley, K.J., et al, [1980, p.724-738, eng] **35-2171**
Volatile content of crude oil treated under different weathering conditions Riley, R.G., et al, [1981, p.109-119, eng] **35-2937**
Estuarine perspectives Kennedy, V.S., ed, [1980, 533p., eng] **35-3078**
Arctic marine diatoms and sea ice. Lichti-Federovich, S., [1981, p.57-62, eng] **35-3083**
Marine benthos of the Mackenzie Bay and Darnley Bight regions Barrie, J., et al, [1980, p.154-173, eng] **35-3094**
Effects of long term crude oil exposure on marine fish. Kiceniuk, J.W., [1980, p.212-222, eng] **35-3095**
Biological studies on the Alaskan continental shelf, 1980 [1981, 359p., eng] **35-3252**
Environmental assessment of the Alaskan continental shelf, Vol.7 Biological studies [1981, 678p., eng] **35-3253**
Bibliography of the engineering and environments of Arctic coasts and seas. [1977, 11p., eng] **35-3360**
Environmental geology of Shelikof Strait, OCS state area 60, Alaska Hampton, M.A., et al, [1981, p.19-34, eng] **35-3456**
Bristol Bay environment, a background study of available knowledge [1974, 858p., eng] **35-3550**
Deep-sea traces from the central Arctic, an analysis of diversity Kitchell, J.A., [1979, p.1185-1198, eng] **35-4224**
Primary production under Ross Ice Shelf Horrigan, S.G., [1981, p.378-382, eng] **35-4298**

Marine deposits
Studying coastal plains and shelves of Arctic seas. Danilov, I.D., ed, [1979, 135p., rus] **35-64**
Moraine-like deposits in northern plains Danilov, I.D., [1979, p.97-135, rus] **35-67**
Pleistocene geology of Amchitka Island, Aleutian Islands, Alaska Gard, L.M., Jr., [1980, 38p., eng] **35-990**
Geologic processes of the Beaufort Sea shelf (April-June 1979) Barnes, P., et al, [1980, p.130-188, eng] **35-1156**
Stratigraphy and glacial sediments of central Arctic Ocean. Clark, D.L., et al, [1980, 57p. + maps, eng] **35-1844**
Hibernia and Ben Nevis seabed study; Polaris V Cruise report, June 1980. Amos, C.L., et al, [1980, 40p., eng] **35-1846**
Overconsolidated surficial deposits on the Beaufort Sea shelf Reimnitz, E., et al, [1980, 37p., eng] **35-1914**
Marine sediment core descriptions IWSOE 68, 69, 70; Deep Freeze 79 Anderson, J.B., et al, [1981, 60p., eng] **35-2148**
Environmental assessment of the Alaskan continental shelf, Vol.7. Biological studies. [1981, 678p., eng] **35-3253**
Formation of sediment-laden sea ice. Osterkamp, T.E., et al, [1981, p.641-662, eng] **35-3268**
Late Weichselian ice in West Norway Sindre, E., [1980, 16p., eng] **35-3407**
Soil and permafrost conditions in the Alaskan Beaufort Sea. Miller, D.L., et al, [1980, p.325-338, eng] **35-3637**
Antarctic glacial chronology reflected in Ross Sea sediments Balshaw, K.M., [1981, 140p., eng] **35-3915**

Marine geology
Underground technology for offshore hydrocarbon development in Antarctica. Splettstoesser, J.F., [1979, p.233-245, eng] **35-173**
Earth beneath the poles [1980, p.4-14, eng] **35-400**
Bibliography of the publications on the Alaskan continental shelf [1980, 177p., eng] **35-847**
Report of the Workshop on Arctic Oil and gas Recovery, 1980. Sackinger, W.M., [1980, 38p., eng] **35-1062**
Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979. [1980, 534p., eng] **35-1150**
Distribution and features of bottom sediments in Alaskan coastal waters. Sellmann, P.V., [1980, 50p., eng] **35-2598**
Quaternary sedimentation and inferred glacier fluctuations, Scotland. Boulton, G.S., et al, [1981, p.39-51, eng] **35-2938**
Glaciations and marine transgressions, Kennedy Channel, N.W.T. England, J., et al, [1981, p.71-89, eng] **35-2939**
Synthesis report: environmental geology of Kodiak Shelf Hampton, M.A., [1981, p.49-58, eng] **35-3236**
Marine geology and geotechnical engineering, OTC, 13th, 1981. [1981, 514p., eng] **35-3455**

Marine transportation
Oilspill risk analysis for the Kodiak Island (proposed sale 46). Samuels, W.B., et al, [1980, 40p. + 22 appends., eng] **35-155**
Research priorities for Arctic ships Voelker, R.P., [1979, p.571-581, eng] **35-181**
Projects for transportation technology in Canada, 1979 [1980, 83p., eng] **35-840**
Marine transportation system analysis in Alaskan waters. Macpherson, M.D., [1980, 486p., eng] **35-2575**
Maritime services to support polar resource development. [1981, 78p., eng] **35-4042**
Economies of ice navigation in the northern Gulf of Bothnia Johansson, B.M., [1977, 8p. + appens., eng] **35-4177**

Marion Island
Observations on the stone-banked lobes of Marion Island Hall, K., [1981, p.129-131, eng] **35-4296**

Markers
Construction of reference points for pack ice melting studies. Nazintsev, IU.L., [1980, p.102-103, rus] **35-1461**
Snowplowable raised pavement markers. Liptak, R.E., [1979, 16p., eng] **35-2054**
Use of pseudo-colors in the research on glaciology and geocryology Liu J., [1980, p.63-67, chi] **35-2672**

Mars (planet)
Depth and distribution of permafrost on Mars Kuz'min, R.O., [1980, p.1445-1448, rus] **35-76**
Craters in ice and ice-saturated sand on Mars. Croft, S.K., et al, [1979, p.8023-8032, eng] **35-1101**
Volcano-ice interactions on Mars Allen, C.C., [1979, p.8048-8059, eng] **35-1102**
Thermodynamical study of the Martian permafrost Coradini, M., et al, [1979, p.8115-8130, eng] **35-1103**
Mars south polar spring and summer temperatures: a residual CO2 frost Kieffer, H.H., [1979, p.8263-8288, eng] **35-1104**
Cryogenic landscapes of Mars Kuz'min, R.O., [1979, p.50-65, rus] **35-1830**
Analysis of water in the Martian regolith Anderson, D.M., et al, [1979, p.33-38, eng] **35-2756**
Martian outflow channels related to ice streams Lucchitta, B.K., et al, [1981, p.759-763, eng] **35-3363**
H2O frost point detection on Mars Ryan, J.A., et al, [1981, p.503-511, eng] **35-3602**

Masonry
Building codes for winter construction (SNiP III-17-80) Kamelko, V.A., et al, [1980, p.16-18, rus] **35-613**
Local construction materials in the North Knigma, G.I., [1980, p.79-83, rus] **35-1087**
Bridges across large rivers in the North Rasskazov, I.D., et al, [1981, p.23-24, rus] **35-2081**
Passing ice over stone linings of spillways Pravdivets, IU.P., [1981, p.43-46, rus] **35-2099**
Multi-story stone buildings in the North. Kalmin, M.S., et al, [1980, 153p., rus] **35-2882**
Evaluation of Ontario shoreline protection materials Carmichael, T.J., et al, [1980, p.248-262, fre] **35-2962**

Mass balance
Water, ice, and heat balance of mountain glacier basins Suslov, V.F., et al, [1980, 206p., rus] **35-232**
Location, morphology, mass balance and ablation of snow on Hakusan Mount Matsuoka, H., et al, [1979, p.171-180, jap] **35-265**
Ross Ice Shelf glaciology. Thomas, R.H., et al, [1979, p.66-67, eng] **35-653**
Morphometric features of the antarctic ice cover Aver'ianov, V.G., [1980, p.5-9, rus] **35-2024**
Determining the components of antarctic ice cover: mass exchange with the atmosphere Aver'ianov, V.G., [1981, p.10-16, rus] **35-2025**
Use of water balance method to evaluate precipitation measurement in Antarctica. Aver'ianov, V.G., [1980, p.17-22, rus] **35-2026**
Polar ice and atmospheric fluctuations Wiese, W., [1981, 22p., eng] **35-2050**
Annual report No.12, Contract N00014-76-C-0234, NR 307-252 [1980, 26p., eng] **35-2055**
Energy and mass balance of a deep alpine snow cover Davis, R., et al, [1980, p.62-67, eng] **35-2227**
Mass balance studies in East Antarctica Morgan, V.I., et al, [1981, p.253-260, eng] **35-3037**
Paleoclimate model of Northern Hemisphere ice sheets Birchfield, G.E., et al, [1981, p.126-142, eng] **35-3676**
Continental ice sheets and the planetary radiation budget Oerlemans, J., [1980, p.349-359, eng] **35-3678**
Shape and size of ice ridges in the Baltic Sea Keinonen, A., [1976, 11p. + append., eng] **35-4175**

Mass flow
Two-parameter model of snow-avalanche motion Perla, R., et al, [1980, p.197-207, eng] **35-2362**

Mass movements (geology)
Temperature variation effects on rock debris movements Zhemerichko, M.I., [1980, p.91-94, rus] **35-1766**

Mass transfer
Heat and mass transfer in a freezing unsaturated porous medium. Jame, Y.-W., et al, [1980, p.811-819, eng] **35-440**
Heat and mass transfer from freely falling drops at low temperatures. Zarling, J.P., [1980, 14p., eng] **35-594**
Model for frost heave including overburden Hopke, S.W., [1980, p.111-127, eng] **35-726**
Effect of wind on heat transfer in snow Reimer, A., [1980, p.129-137, eng] **35-727**
Numerical solution of soil freezing problems Goodrich, L.E., [1980, p.237-242, eng] **35-740**
Heat, mass and momentum transfer during ice sheet melting Srivastava, P.K., [1979, 110p., eng] **35-1987**
On the theory of frost heave Forland, T., et al, [1980, p.45-48, eng] **35-1993**
Prediction of growth parameters of frost deposits in forced convection. White, J.E., et al, [1981, p.3-6, eng] **35-2145**
Convection-controlled and conduction-controlled freezing Sparrow, E.M., et al, [1981, p.7-12, eng] **35-2146**
Estimation of heat and mass fluxes over Arctic leads Andreas, E.L., [1980, p.2057-2063, eng] **35-2754**
Complex turbulent flow and the processes of heat and mass transfer. Nikitin, I.K., [1980, 238p., rus] **35-2956**
Heat and mass transfer in freezing ground Kaliuzhnyi, I.L., et al, [1981, p.164-170, rus] **35-3301**
Heat transfer in cold climates Lunardini, V.J., [1981, 731p., eng] **35-3429**
Transport of matter, impulse and heat in porous media Diersch, H.-J., [1980, p.351-407, ger] **35-3563**
Solution of the Stefan problem Mermakin, A.M., [1981, p.547-549, rus] **35-4274**

Mathematical models
Model of the planetary boundary layer over a snow surface Halberstam, I., et al, [1979, p.431-452, eng] **35-158**
Heat and mass transfer in rocks during phase transformations Melamed, V.G., [1980, 228p., rus] **35-253**
Bedrock and topography effects on taiga soils Molokov, V.A., [1980, p.53-57, rus] **35-299**
Ice crystal collection of atmospheric aerosols Martin, J.J., et al, [1980, p.1628-1638, eng] **35-485**
Physical kinetics and transfer processes in phase transformations Pavlukevich, N.V., et al, [1980, 208p., rus] **35-806**
Numerical simulation of ice-phase convective cloud seeding Hsie, E.-Y., et al, [1980, p.950-972, eng] **35-885**

Numerical modeling of ice drift — Taran, B.M., [1980, p.81-85, rus] **35-931**

Mathematical model of snowfall — Prokop'eva, I.P., [1980, p.18-24, rus] **35-1360**

Snow accumulation and ablation: a stochastic model — Cary, L.E., et al, [1979, p.32-43, eng] **35-1398**

Firn densification: an empirical model — Herron, M.M., et al, [1980, p.375-385, eng] **35-1501**

Reflectance of snow at millimeter wavelengths — Anderson, R.C., et al, [1980, 40p., eng] **35-1582**

Several properties of the radio emission of land surfaces — Gurvich, A.S., [1973, 29p., eng] **35-1895**

Variation in ice sheet thickness at Vostok and Vostok-1 — Shumskii, P.A., et al, [1980, p.49-53, rus] **35-2031**

Ice drift forecasting in the Bay and Sea of Bothnia — Udin, I., et al, [1976, 40p., eng] **35-2056**

Numerical reconstruction of paleo-ice sheets — Hughes, T.J., [1981, p.221-261, eng] **35-2067**

Last great ice sheets: a global view — Hughes, T.J., et al, [1981, p.263-317 + 10 sheets, eng] **35-2068**

Nonsteady ice drift in the Strait of Belle Isle — Sodhi, D.S., et al, [1980, p.177-186, eng] **35-2168**

Continuum sea ice model for a global climate model — Ling, C.H., et al, [1980, p.187-196, eng] **35-2169**

Prediction of an iceberg drift trajectory during a storm — Sodhi, D.S., et al, [1980, p.77-82, eng] **35-2210**

Inertial oscillations in ice floe motion, Beaufort sea — Khandekar, M.L., [1980, p.1-14, eng] **35-2457**

Stochastic dynamic analysis of polar sea ice variability — Lemke, P., et al, [1980, p.2100-2120, eng] **35-2473**

Limitations to numerical modelling of ice in rivers — Petryk, S., et al, [1981, p.243-262, eng] **35-2556**

Recent improvements in numerical modelling of river ice — Petryk, S., et al, [1981, p.263-280, eng] **35-2557**

Ice forming properties of AgI — Kim, N.S., [1980, p.89-98, rus] **35-2698**

Derivation of past climate changes from observed changes of glaciers — Smith, I.N., et al, [1981, p.31-52, eng] **35-3020**

Effect of sea ice on a general circulation model of the Southern Hemisphere — Simmonds, I., [1981, p.193-206, eng] **35-3030**

Growth and retreat of ice sheets — Budd, W.F., et al, [1981, p.369-409, eng] **35-3040**

Seismic velocity measurement in the Arctic Archipelago — Acheson, C.H., [1981, p.707-716, eng] **35-3061**

Shallow-depth temperature models for Dome C — Ewing, R.E., [1980, p.75-76, eng] **35-3181**

Mathematical model of nozzle blockage by freezing — Sampson, P., et al, [1981, p.231-241, eng] **35-3269**

Modeling the geostrophic drag coefficient for AIDJEX — Brown, R.A., [1981, p.1989-1994, eng] **35-3273**

Sensitivity of a global circulation model to an oceanic ice cover — Warshaw, M., et al, [1972, 26p., eng] **35-3465**

Ice thermal diffusion chamber for observing various nucleations — Tomlinson, E.M., [1980, 108p., eng] **35-3468**

Modeling of Pleistocene European ice sheets: some experiments with simple mass-balance parameterizations — Oerlemans, J., [1981, p.77-85, eng] **35-3713**

Plane waves in a viscoelastic floating ice sheet — Bates, H.F., et al, [1981, p.4269-4273, eng] **35-3912**

Problems of the Arctic and the Antarctic, collection of articles, Vol 48, 1976 — Treshnikov, A.F., ed, [1981, 173p., eng] **35-4129**

Calculation of air temperature in numerical models of redistribution of ice — Appel', I.L., [1981, p.23-28, eng] **35-4130**

On the possibility of determining water exchange of the Arctic Basin caused by wind over it — Gusarova, S.P., [1981, p.40-51, eng] **35-4131**

Method of determining water exchange of the Arctic Basin with a random wind field: barotropic model — Gusarova, S.P., [1981, p.52-59, eng] **35-4132**

Mathematical models on ecological systems — Tiwari, J.L., [1979, p.167-193, eng] **35-4234**

Modelling ice dissipation in eastern Lake Erie — Rumer, R.R., Jr, et al, [1978, p.194-200, eng] **35-4321**

Meadow soils

Revegetation of burned-out areas in tundra — Galaktionova, T.F., et al, [1980, p.66-72, rus] **35-285**

Seasonal dynamics of tundra cotton grass — Spodobiseva, N.I., [1980, p.73-84, rus] **35-286**

Photosynthesis of alpine meadow plants — Goryshina, T.K., et al, [1980, p.21-26, rus] **35-1038**

Physiology of Alpine meadow plants — Bannikova, I.A., et al, [1980, p.27-35, rus] **35-1039**

Carbon and nutrient budgets and their control in coastal tundra — Chapin, F.S., III, et al, [1980, p.458-482, eng] **35-1941**

Physical properties and moisture regime of meadow soils — Khudiakov, O.I., et al, [1980, p.102-104, rus] **35-2287**

Changes in cryogenic soil temperature due to cultivation — Khudiakov, O.I., et al, [1980, p.134-136, rus] **35-2298**

High altitude vegetation of West Sayan Mountains — Vlasenko, V.I., [1980, p.175-200, rus] **35-2483**

Grass communities in northern meadows — Dymina, G.D., [1980, p.1392-1403, rus] **35-3213**

Physiological processes in plants of Central Yakutia — Kononov, K.E., [1981, p.39-45, rus] **35-3509**

Thermal balance of meadow vegetation and the climate of cryogenic flood-plain soils — Savvinov, D.D., et al, [1981, 176p., rus] **35-3567**

Saline soils of West Siberia — Kurachev, V.M., et al, [1981, 152p., rus] **35-3568**

Soils of the Konda-Sos'va Priob'e — Sazonov, A.G., [1978, p.70-96, rus] **35-3823**

Productivity of high altitude grass communities in the central Caucasus — Nakhutsrishvili, G.Sh., et al, [1980, 159p., rus] **35-3899**

Meadows

Landscapes of northern taiga and swamps — Mikhailov, N.I., [1980, p.95-101, rus] **35-1337**

Meadows of the forest tundra river Yuri-Yakhi — Bratenkova, E.S., et al, [1971, p.5-7, rus] **35-2605**

Utilization of forest tundra meadows — Kotelina, N.S., [1971, p.14-16, rus] **35-2606**

Cultivation of meadows in central taiga — Koushev, I.A., [1971, p.16-17, rus] **35-2607**

Biocenotic role of animals in the Yamal forest tundra — Danilov, N.N., ed, [1977, 146p., rus] **35-2866**

Influence of rodents on forest tundra grasses — Peshkova, N.V., [1977, p.134-145, rus] **35-2868**

Geographic aspects of Siberian taiga — Sochava, V.B., [1980, 256p., rus] **35-2951**

Biologic-floristic studies related to environmental protection in polar regions — Shlikov, R.N., ed, [1980, 149p., rus] **35-3062**

Plant communities of the White Sea shores — Breslina, I.P., [1980, p.132-143, rus] **35-3075**

Measurement

U.S. research options in polar regions — Nagler, R.G., et al, [1979, 94 leaves, eng] **35-1309**

Coastal ice sheet in Enderby Land, Antarctica — relief, movement and mass balance — Meier, S., [1977, 104p., ger] **35-1413**

Measuring instruments

SALIA-1 cloud chamber for measuring ice nuclei concentration — Aksenov, M.IA., et al, [1980, p.123-127, rus] **35-24**

Measuring ice nuclear concentrations in clouds — Potapov, E.I., [1980, p.128-132, rus] **35-25**

Ice nuclei concentrations measured from helicopters — Vychuzhanina, M.V., et al, [1980, p.133-137, rus] **35-26**

Gamma-ray densimeters for mudflows — Stepanova, I.S., [1980, p.136-140, rus] **35-217**

Techniques for measuring soil surface temperature — Smirnov, S.A., [1972, 11p., eng] **35-247**

Snowmelt and water equivalent guage for British conditions — Waring, E.A., et al, [1980, p.129-134, eng] **35-484**

Impulse radars — Van Etten, P., [1980, p.421-437, eng] **35-564**

Instrument to measure the quantity of melting agents on the roads — Della Faille, G., [1980, p.75-81, fre] **35-946**

Problems in meteorology and hydrology of Siberia [1976, 218p., rus] **35-1189**

Radiation measurements on Lewis Glacier, Kenya — Hastenrath, S., et al, [1980, p.439-444, eng] **35-1506**

Radio echo sounding equipment for glaciers — Sverrisson, M., et al, [1980, p.477-486, eng] **35-1509**

Development of a long-term temperature recorder — Akitaya, E., [1978, p.167-169, jap] **35-1552**

Development of a portable albedometer — Aburakawa, H., et al, [1978, p.171-174, jap] **35-1553**

Report of radio echo sounding of ice workshop, Durham, H.H., 1978 — Sivaprasad, K., ed, [1978, 15p + Append., eng] **35-1915**

Proposed metric snow samplers — Farnes, P.E., et al, [1980, p.107-119, eng] **35-2233**

Measuring and testing techniques in glaciology and geocryology, China — Wang, W., et al, [1980, p.1-2, chi] **35-2648**

Underground thermal current meter and its application in permafrost — Zhu, G., et al, [1980, p.15-18, chi] **35-2653**

Thermometer used during permafrost drilling — Zhu, G., et al, [1980, p.18-20, chi] **35-2654**

Application of thermal resistor in measuring temperature of frozen soil — He, J., et al, [1980, p.20-23, chi] **35-2655**

Tentative study of transistor direct numerical reading thermometer — Feng, J., et al, [1980, p.23-26, chi] **35-2656**

Numerical tester in the study of frozen soils — Li, G., et al, [1980, p.26-28, chi] **35-2657**

Analysis of property of temperature measuring crystal — Wang, L., et al, [1980, p.28-29, chi] **35-2658**

Electronic device for permafrost studies — Liu, G., [1980, p.29-30, chi] **35-2659**

Designing and making of snow densitometer — Li, W., et al, [1980, p.30-31, chi] **35-2660**

Method of determining the horizontal frost heave force *in situ* — Ding, J., et al, [1980, p.33-36, chi] **35-2662**

Precipitation in the atmosphere and on the earth's surface — Litvinov, I.V., [1980, 208p., rus] **35-2948**

Proceedings of the 37th annual meeting, June 5 and 6, 1980 — [1980, 224p., eng] **35-3142**

Mechanical device for measuring the lake ice thickness — Adams, W.P., et al, [1980, p.189-192, eng] **35-3160**

AES Nipher shields for recording precipitation gauges: an assessment — Goodison, B.E., et al, [1980, p.196-198, eng] **35-3162**

Electrical methods of measuring low temperatures — Vepřek, J., [1980, 184p., cze] **35-3506**

Methods and equipment for temperature measurements in subsea permafrost — Osterkamp, T.E., et al, [1981, 32p., eng] **35-3549**

Surface strain measuring instruments for use on sea ice — Goodman, D.G., [1980, p.75-96, eng] **35-3839**

Recent developments in strainmeter design — Moore, S., et al, [1980, p.97-125, eng] **35-3840**

OSI ice stress sensor — Johnson, J.B., et al, [1980, p.193-207, eng] **35-3843**

Set of instruments for determining the elements of the heat balance of the surface layer of the atmosphere — Makshtas, A.P., [1981, p.71-74, eng] **35-4133**

Simple snowfall detector employing infrared rays reflection — Tsubata, I., et al, [1981, p.77-81, jap] **35-4266**

Mechanical properties

Frost action on immature cement paste: effects on mechanical behavior — Zaman, M.S., et al, [1980, p.386, eng] **35-825**

Steels for Arctic pipelines — Krishnadev, M.R., et al, [1979, p.1941-1944, eng] **35-1780**

Mechanics of skis — Glenne, B., [1981, p.741-765, eng] **35-3765**

Meetings

First International Symposium of Ground Freezing — Chen, X., [1980, p.59, chi] **35-91**

POAC '79, Trondheim, Norway, Aug 1979, Vol 3 — [1979, 608p., eng] **35-161**

Lightning protection in permafrost areas — Erofeev, V.A., et al, [1980, p.77, rus] **35-606**

Research workshop on radio echo sounding of ice — Sivaprasad, K., [1979, p.98, eng] **35-669**

Working session of the Section of glaciology in February 1980 — Glazovskii, A.F., [1980, p.13-20, rus] **35-1220**

Resolutions of the Working Session of the Section of Glaciology, Feb 18-20, 1980 — [1980, p.20-22, rus] **35-1221**

International symposium on glacial hydrology — Korzun, V.E., [1980, p.89-90, rus] **35-1232**

Seminar on the studies of naleds — Alekseev, V.R., et al, [1980, p.272, rus] **35-1258**

Winter maintenance — [1980, p.10-15, eng] **35-1262**

Proceedings, Vol.1 — [1980, 516p., eng] **35-1583**

Oil and gas field development in permafrost areas — Skorobogatov, V.A., [1980, p.70-71, rus] **35-1610**

Report of radio echo sounding of ice workshop, Durham, H.H., 1978 — Sivaprasad, K., ed, [1978, 15p + Append., eng] **35-1915**

U.S.-Soviet seminar on building under cold climates and on permafrost — [1980, 365p., eng] **35-1965**

Symposium on Sea Ice Processes and Models, Seattle, Wa., 1977 — Pritchard, R.S., ed, [1980, 474p., eng] **35-2167**

Antarctic climatic research — Dolgin, I.M., ed, [1980, 206p., rus] **35-2178**

Proceedings of the 1980 conference on the use of icebergs — [1980, 136p., eng] **35-2196**

Proceedings of the 48th Western Snow Conference, 1980 — [1980, 137p., eng] **35-2220**

All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct 29-31, 1980 — Abstracts, [1980, 203p., rus] **35-2251**

Abstracts of the 4th Canadian Permafrost Conference, Mar 2-6, 1981 — [1981, 172p., eng] **35-2465**

Proceedings of Workshop on Hydraulic Resistance of River Ice, Sep 1980 — [1981, 301p., eng] **35-2539**

Prospecting in areas of glaciated terrain, 1977 — [1977, 140p., eng] **35-2719**

Prospecting in areas of glaciated terrain, 1975 — Jones, M.J., ed, [1975, 154p., eng] **35-2733**

Prospecting in areas of glaciated terrain, 1973 — Jones, M.J., ed, [1973, 138p., eng] **35-2741**

Sea level, ice and climatic change, Proceedings of the Symposium, 7-8 Dec during the 17th General Assembly of IUGG, Canberra — Allison, I., ed, [1981, 471p., eng] **35-3017**

Review of papers presented at the first CLIMANZ conference — Salinger, M.J., [1981, p.106-107, eng] **35-3365**

International forum of geocryologists — Mel'nikov, P.I., et al, [1979, p.109-119, rus] **35-3470**

Construction and operation of electrical installations in permafrost regions — Korzh, N.A., [1981, p.74-76, rus] **35-3484**

International Geoscience and Remote Sensing Symposium, 1981, Vol 2 — [1981, p.755-1461, eng] **35-3585**

Offshore Technology Conference, 12th, 1980 Proceedings, Vol 4 — [1980, 646p., eng] **35-3632**

Proceedings of the Symposium on High-Latitude Climate Systems — [1980, p.1935-2091, eng] **35-3642**

Oil, ice and gas — [1980, 169p., eng] **35-3867**

Problems of the Arctic and the Antarctic, collection of articles, Vol 48, 1976 — Treshnikov, A.F., ed, [1981, 173p., eng] **35-4129**

Melting

Comment on "pressure melting" — Martin, R.T., [1980, p.89, eng] **35-822**

Convection in the melting region around a heated cylinder — Yao, L.S., et al, [1980, p.667-672, eng] **35-1677**

Melting *(cont.)*

Ice blocks melting into a salinity gradient. Huppert, H.E., et al. (1980, p.367-384, eng) **35-1910**

On the estimation of antarctic iceberg melt rate. Neshyba, S., et al. (1980, p.1681-1685, eng) **35-2471**

Molecular theory for the solid-liquid interface. Haymet, A.D.J., et al. (1981, p.2559-2565, eng) **35-2709**

Stefan problem with mixed boundary condition. Gupta, R.S., et al. (1981, p.251-259, eng) **35-3270**

Heat Transfer. San Diego, 1979. (1979, 315p., eng) **35-3347**

One-dimensional melting problem. Yuen, W.W., et al. (1979, p.120-126, eng) **35-3355**

Thermal performance of a phase-change material. Godfrey, R.D., et al. (1979, p.127-133, eng) **35-3356**

Surface ablation by melting or sublimation on a submerged rotating disc. Condiff, D.W., et al. (1979, p.134-147, eng) **35-3357**

Heat transfer during melting on tubes with a convective boundary. Saxena, S., et al. (1981, p.155-165, eng) **35-3627**

Melting points

What is the temperature change in pressure melting. Offenbacher, E.L. (1981, p.155-156, eng) **35-3672**

Reply to 'a comment on "pressure melting"'. Spring, U. (1981, p.157, eng) **35-3673**

Interface study of rubber-ice friction. Roberts, A.D., et al. (1981, p.55-69, eng) **35-4157**

Meltwater

Development of gullies under different climatic conditions. Lubimov, B.P. (1978, p.71-73, rus) **35-13**

Free convection heat transfer characteristics in a melt water layer. Yen, Y.-C. (1980, p.550-556, eng) **35-103**

Mudflow phenomena in the USSR. Raushenbakh, I.O. (1980, p.90-102, rus) **35-212**

Design of snow-gauge using photoelectric effects. Tanaka, K., et al. (1976, p.171-177, jap) **35-259**

Canadian Hydrology Symposium: 70 Cold Climate Hydrology. (1979, 597p., eng) **35-403**

Separation of runoff components in glacierized alpine watersheds. Collins, D.N., et al. (1979, p.570-581, eng) **35-435**

Snowpack and mine drainage in a western surface mine. Farmer, E.E., et al. (1980, p.79-100, eng) **35-582**

Reclamation of acid-producing spoils on a western surface mine. Richardson, B.Z. (1980, p.101-112, eng) **35-583**

Revegetation-restoration for the Trans-Alaska pipeline system. Hubbard, G.E. (1980, p.113-125, eng) **35-584**

Occurrence of salt and lead in snow dump sites. Scott, W.S. (1980, p.187-195, eng) **35-706**

Glacio-geomorphological observations at Cape Omega. Moriwaki, K. (1980, p.1-14, eng) **35-1054**

Melting of ice in cold stratified water. Huppert, H.E., et al. (1980, p.953-960, eng) **35-1060**

Chemical composition of glacier meltwaters. Vilesov, E.N., et al. (1980, p.162-166, rus) **35-1250**

Specific features in the formation of chemical composition of natural waters in East Antarctica. Bardin, V., et al. (1980, p.166-171, rus) **35-1251**

Quantitative evaluation of nivation in the Colorado Front Range. Thorn, C.E. (1976, p.1169-1178, eng) **35-1901**

Extent of meltwater areas in Antarctica. Klokov, V.D. (1980, p.29-35, rus) **35-2028**

Glaciological work on the Shackleton Ice Shelf (Jan.-Apr. 1978). Savatugin, L.M. (1980, p.114-118, rus) **35-2044**

Wastage features of the inland ice sheet in central South Norway. Gjessing, K., et al. (1980, p.251-269, eng) **35-2140**

Hydrology. Grushevskii, M.S., ed. (1978, 224p., rus) **35-2699**

Calculating spring flood hydrographs. Polishchuk, O.N. (1978, p.16-28, rus) **35-2701**

Seepage alimentation of glaciers. Bazhev, A.B. (1980, p.73-81, 147-154, rus) **35-2820**

Dynamics of melt waters on the Abramov glacier. Akbarov, A.A., et al. (1980, p.92-96, 161-165, rus) **35-2823**

Stream-melting theory of glacier ablation. Kazanskii, A.B., et al. (1980, p.203-206, rus) **35-2833**

Research on glacial hydrology in the Mount Tuomer region. Kang, E., et al. (1980, p.18-21, chi) **35-2913**

Some cognizance of the formation of glacial melt-water sedimentation. Zhang, H. (1980, p.59-60, chi) **35-2921**

Determining the content of anion of SO4 in snow meltwater. Cheng, W. (1980, p.70-71, chi) **35-2924**

Forecasting mountain river runoff from satellite data. Vostrakova, N.V. (1980, p.52-58, rus) **35-2974**

Isotope methods of studying natural waters. Ferronskii, V.I., ed. (1981, 260p., rus) **35-3296**

Uranium and plutonium isotopes in glacier ice. Bondarev, L.G., et al. (1981, p.198-200, rus) **35-3302**

Naled type of ice in front of some Spitsbergen glaciers. Baranowski, S. (1977, p.85-89, eng) **35-3623**

Glacial mudflows in Pamirs. Kemmerikh, A.O. (1978, p.307-309, eng) **35-3686**

Meltwater movement through the firn in an alpine glacier. Behrens, H., et al. (1979, p.219-228, ger) **35-3731**

Meltwater flow in the water table of a temperate glacier. Ambach, W., et al. (1979, p.229-234, ger) **35-3732**

Basic features of the meltwater of Batura Glacier. Li, J., et al. (1980, p.111-132, chi) **35-4033**

Sedimentation in a glacier-fed lake. Smith, N.D. (1981, p.75-82, eng) **35-4085**

Occurrence of ice layers at the base of high arctic snowpacks. Woo, M.-K., et al. (1981, p.225-230, eng) **35-4095**

Meltwater areas on ice covers. Buzuev, A.IA., et al. (1979, p.92-106, rus) **35-4192**

Snow surface energy exchange. Male, D.H., et al. (1981, p.609-627, eng) **35-4212**

Formation of meltwater losses. Kaluzhnyi, I.L., et al. (1981, 160p., rus) **35-4311**

Lakes on George VI Ice Shelf, Antarctica. Reynolds, J.M. (1981, p.425-432, eng) **35-4340**

Metal ice friction

Ice characteristics in Whitefish Bay and St. Marys River in winter. Vance, G.P. (1980, 27p., eng) **35-488**

Ship resistance in thick brash ice. Mellor, M. (1980, p.305-321, eng) **35-748**

Ice friction against ship's body. Vinogradov, E.S. (1976, p.86-90, rus) **35-935**

Frictional characteristics of materials sliding against ice. Calabrese, S.J., et al. (1980, p.283-289, eng) **35-1953**

Hull resistance test in floe of synthetic ice. (1980, p.1-6, jap) **35-1963**

Metal snow friction

Conditions of snow sliding on metal sheet roofs. Maeda, H. (1979, p.199-204, jap) **35-267**

Ice characteristics in Whitefish Bay and St. Marys River in winter. Vance, G.P. (1980, 27p., eng) **35-488**

Metals

Mining perennially frozen placers and ore deposits. Emel'ianov, V.I., ed. (1978, 136p., rus) **35-1077**

Thirtieth anniversary of the All-Union Scientific Research Institute of Gold and Rare Metals. Emel'ianov, V.I. (1978, p.3-8, rus) **35-1078**

Sources of twelve trace metals in antarctic snows. Boutron, C., et al. (1980, p.5631-5638, eng) **35-1118**

Strength of materials and structural elements under extreme conditions. Vol.I. Pisarenko, G.S., et al. (1980, 536p., rus) **35-1490**

Strength of materials and structural elements under extreme conditions. Vol. II. Pisarenko, G.S., et al. (1980, 771p., rus) **35-2396**

Problems of geochemical contrasts in Finnish soils. Kauranne, L.K., et al. (1977, p.34-44, eng) **35-2723**

Geochemical evaluation of ore potential. Björklund, A. (1977, p.56-62, eng) **35-2725**

Case history of a Swedish uranium deposit. Gustafsson, B., et al. (1977, p.72-79, eng) **35-2726**

Short-term fluctuations in heavy metal concentrations in antarctic snow. Landy, M.P., et al. (1981, p.144-146, eng) **35-3368**

Metamorphism (snow)

Structure and composition of natural ice. Savel'ev, B.A. (1980, 280p., rus) **35-149**

Isotope and chemical composition of snow cover in East Antarctica (Studies along the Mirnyy-Vostok profile). Gordienko, F.G., et al. (1980, p.36-48, rus) **35-1224**

Sublimation and metamorphism of snow. Kolomyts, E.G. (1978, p.37-76, rus) **35-1433**

Transitional forms of glaciation. Ivanov, N.I. (1970, p.245-263, rus) **35-1573**

Study of gradient metamorphism by simulation in a cold chamber. Delsol, F., et al. (1978, 42p., fre) **35-1890**

Compressive strain in a natural snow cover. Armstrong, R.L. (1980, p.283-289, eng) **35-2371**

Thermodynamics of snow metamorphism due to variations in curvature. Colbeck, S.C. (1980, p.291-301, eng) **35-2372**

Experimental study of temperature-gradient metamorphism. Marbouty, D. (1980, p.303-312, eng) **35-2373**

Physics and properties of snowcover. Langham, E.J. (1981, p.275-337, eng) **35-3752**

Snow crystals. 2. Evolution. Pahaut, E., et al. (1981, p.3-42, fre) **35-4045**

Meteorites

Progress of Japanese glaciological research in Antarctica. Kusunoki, K. (1981, p.55-61, eng) **35-4207**

Meteorological charts

Antarctic ice charts, 1977-1978. (1978, 105p., eng) **35-532**

Wind condition charts for the BAM area. Romanova, E.N. (1980, p.23-34, rus) **35-1196**

Microclimatology of the Chara Basin. Kalashnikov, A.V. (1980, p.35-42, rus) **35-1197**

Air temperature variations in the Chara Basin. Vasil'eva, L.G. (1980, p.43-54, rus) **35-1198**

General circulation model for arctic and antarctic climatology. Herman, G.F., et al. (1980, p.1974-1991, eng) **35-3645**

Mean 500 millibar contour charts of the large-scale atmospheric processes (elementary circulation mechanisms of the northern hemisphere). Vitvitskii, G.N., ed. (1980, 67p., rus) **35-3966**

Persistence of winters in plains of the Soviet Union. Il'icheva, E.M., et al. (1981, p.24-44, rus) **35-3968**

Meteorological data

Climate and snowcover in Schefferville, Quebec, winter 1978-1979. Strickland, N., (1980, p.17-22, eng) **35-36**

Water budget and lake-level stability of Harding Lake. Nakao, K., et al. (1980, p.9-15, eng) **35-1559**

Summary of satellite observations of Great Lakes ice 1974-1980. Clark, J.W., (1980, p.21-33, eng) **35-2159**

Ice formation and ice control programs for St. Lawrence Seaway. Hung, S.C., (1980, p.35-37, eng) **35-2160**

Winter thermal structure, ice conditions and climate of Lake Champlain. Bates, R.E., (1980, 26p., eng) **35-2585**

Climatic changes in the Northern Hemisphere. Gruza, G.V., et al. (1980, 72p., rus) **35-2950**

Point Barrow, Alaska, USA. Brown, J., (1981, p.775-776, eng) **35-3400**

Far North air temperature and wind velocity variations in winter. Sorokina, L.P., (1980, p.41-51, rus) **35-3415**

Physical environment of the eastern Bering Sea March 1979. Salo, S.A., et al. (1980, 119p., eng) **35-3469**

Energy exchange at the surface of the alpine tundra. Skartveit, A., (1976, 147p., eng) **35-3522**

Meteorology and hydrology in the Hornsund region, Spitsbergen, 1970. Baranowski, S., et al. (1975, p.35-59, eng) **35-3610**

Study of the large scale cooling in the Bay of Bothnia. Sahlberg, J., et al. (1980, 32p., eng) **35-3699**

Defense meteorological satellite program data. (1981, 4p., eng) **35-3900**

Ice jams and meteorological data for three winters, Ottauquechee River, Vt. Bates, R.E., et al. (1981, 27p., eng) **35-3926**

Meteorological factors

Meteorological conditions and mudflow forecasting in Tibet. Zhang, S., (1980, p.41-47, chi) **35-125**

Probable maximum flood for the Peace River at site C. Fawkes, P.E., (1979, p.239-250, eng) **35-417**

Snow static loads on roofs in relation to weather conditions in Piedmont. Balzaretti, P., (1980, p.36-40, ita) **35-945**

Differences in snow-melting rate between urban and rural areas in Sapporo. Aburakawa, H., et al. (1978, p.155-168, jap) **35-1183**

Climatic problems of mountainous regions in the USSR. Bagdasarian, A.B., (1980, p.29-36, rus) **35-1436**

POLEX-South data, Part 2. Micrometeorological data at Mizuho Station, Antarctica in 1979. Wada, M., et al. (1981, 321p., eng) **35-3598**

Meteorological and seasonal effects of snow chemistry of Ross Ice Shelf, Antarctica. Warburton, J.A., et al. (1981, p.17-37, eng) **35-4147**

Meteorology

Oases in Antarctica. Solopov, A.V., (1969, 146p., eng) **35-898**

Leningrad. Main Geophysical Observatory. Research projects. (1977, 914p., rus) **35-900**

Meteorological consequences of natural or deliberate changes in the surface environment. Vowinckel, E., et al. (1980, p.87-110, eng) **35-1008**

Symposium on Sea Ice Processes and Models, Seattle, Wa., 1977. Pritchard, R.S., ed. (1980, 474p., eng) **35-2167**

Antarctic climatic research. Dolgin, I.M., ed. (1980, 206p., rus) **35-2178**

Winter climatic conditions in the Somov Sea. Petrov, L.S., et al. (1980, p.72-78, rus) **35-2181**

Cold Regions Science and Technology Bibliography. Cummings, N.H., (1981, p.73-75, eng) **35-2420**

Oceanographic investigations in polar regions of the World Ocean. Blinov, N.I., et al. (1980, 239p., rus) **35-2888**

Annual report 1979-80, Univ. of Alaska, Geophysical Institute. (1980, 208p., eng) **35-3430**

Surface meteorological processes in the Antarctic. Heibig, A., (1979, p.111-122, ger) **35-3488**

Microanalysis

Microparticle concentrations in the Dome C core. Thompson, L.G., et al. (1981, p.227-234, eng) **35-3033**

Microbiology

Microbial activities and Canadian river-bank materials and sediments. Albright, L.J., et al. (1980, p.1363-1366, eng) **35-115**

Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979. (1980, 595p., eng) **35-846**

Mite from a Signy Island glacier. Block, W., (1980, p.173-176, eng) **35-1073**

Microorganisms in the rhizosphere of Arctic grasses. Evdokimova, G.A., (1974, p.98-103, rus) **35-1209**

Microflora in sea ice. Tsurikov, V.L., (1980, p.118-132, rus) **35-1320**

Sea ice microalgae in the Canadian Arctic. Hsiao, S.I.C., (1980, p.768-793, eng) **35-2172**

Microbial ecology and decomposition in Arctic tundra and Subarctic taiga ecosystems. Flanagan, P.W., (1978, p.161-168, eng) **35-2177**

Mixing and microorganism survival in the Slave River, N.W.T. Smith, D.W., et al. (1981, p.449-470, eng) **35-2518**

Microclimatology

Microclimatology of northern forests. Ipatov, V.S., et al. (1980, p.14-20, rus) **35-1037**

Differences in snow-melting rate between urban and rural areas in Sapporo — Aburakawa, H., et al. (1978, p.155-168, jap) 35-1183
Lake effect on North Baykal shore forests — Vykhristiuk, M.M. (1980, 215p., rus) 35-1372
Microclimatology of mountain taiga — Molokov, V.A., (1972, p.268-275, rus) 35-1382
Climatic evaluations in the Baykal-Amur railroad area — Kornilova, R.P., et al. (1980, p.60-69, rus) 35-1450
Insects on snowfields of Mt. Rainier, Washington — Mann, D.H., et al. (1980, p.359-368, eng) 35-1671
Climate, snow cover, microclimate and hydrology at Barrow, Alaska — Dingman, S.L., et al. (1980, p.30-65, eng) 35-1931
Climatic conditions and microclimate of taiga geosystems in Siberia — Bufal, V.V., ed. (1980, 232p., rus) 35-2485
Climate and microclimate of taiga — Trofimova, I.E., (1980, p.144-182, rus) 35-2490
Climatic role of snow covers — Kukla, G., (1981, p.79-107, eng) 35-3023
All-Union symposium on physical bases of recent climatic changes, Moscow, Apr. 23-25, 1979. Vol. 1 (1980, 108p., rus) 35-3049
Microclimatic changes in taiga geosystems due to human factors — Manas'ev, V.V., et al. (1980, p.90-100, rus) 35-3052
River diversion effect on local subarctic climatic conditions — Zav'talova, I.N., et al. (1980, p.97-100, rus) 35-3122
Geocryological conditions of the Kodar Range. — An, V.V., et al. (1980, p.124-127, rus) 35-3326
Climate and waters of Siberia — Bachurin, G.V., ed. (1980, 232p., rus) 35-3413
Climate forming processes in the Minusinsk Basin — Durnev, V.F., (1980, p.59-77, rus) 35-3417
Microclimatology of the Minusinsk Basin — Durnev, V.F., (1980, p.77-104, rus) 35-3418
Rock weathering in snow field areas — Vytkin, V.B., (1980, p.101-107, rus) 35-3472
Avalanches in the Inyl'chek River basin — Maksimov, N.V., (1980, p.121-126, rus) 35-3583
Typification of central taiga facies in West Siberia according to thermal conditions and the structure of radiation-meteorological fields — Trofimova, I.E., (1978, p.97-123, rus) 35-3824
Microclimate and transpiration of taiga soils — Grishina, I.A., et al. (1979, p.70-85, rus) 35-4120

Microelement content

Problems of geochemical contrasts in Finnish soils — Kauranne, L.K., et al. (1977, p.34-44, eng) 35-2723
Microelement migration in waters of permafrost areas. — Makarov, V.N., (1980, p.114-127, rus) 35-4001

Microrelief

Peat deposits in forest tundra swamps — Turkina, O.S., (1980, p.67-71, rus) 35-500
Cryogenic patterned microrelief — Chigir, V.G., (1979, p.66-101, rus) 35-1831
Development of polygonal wedge microrelief. — Romanovskii, N.N., (1974, p.67-78, rus) 35-2397
Interaction of tundra vegetation and thermal cracking in hummocks — Barrett, P., (1979, p.70-79, ger) 35-2646
Shore erosion by ice — Dionne, J.C., (1980, p.80-92, fre) 35-2958
Landscape indications technique of forecasting permafrost conditions — Moskalenko, N.G., (1980, p.8-18, rus) 35-3307

Microstructure

Observation of snow particles at Hidden Valley, Mukut Himal — Higuchi, K., et al. (1978, p.42-44, eng) 35-54
Snow crystal observations at Mt. Yalung Kang, Kangchenjunga region, east Nepal — Higuchi, K., et al, (1978, p.45-49, eng) 35-55
Frost action on immature cement paste : microstructural features — Kayyah, O.A., et al. (1980, p.264-268, eng) 35-523
Brittle to ductile transition in polycrystalline ice under tension — Schulson, E.M., (1979, p.87-91, eng) 35-694
Measurements of restitution coefficients of ice — Araoka, K., et al. (1978, p.55-65, jap) 35-1175
Microstructure of frozen clay rocks — Shusherina, E.P., et al. (1975, p.84-86, eng) 35-2404
Microband fabric in seasonally frozen soils — Mermut, A.R., et al. (1981, p.578-586, eng) 35-4082
Creep of fresh water ice at high homologous temperatures — Leppaniemi, E.K.M., (1976, 162p., eng) 35-4176

Microwaves

Microwave radiometry of sea ice — Nikitin, P.A., (1980, p.18-22, rus) 35-363
Microwave measurements of salt thickness — Unterberger, R.R., (1980, p.331-347, eng) 35-558
Sea ice reporting from satellite data — Nikitin, P.A., et al, (1980, p.65-68, rus) 35-786
Measurements of radar backscatter from terrain and snow-covered terrain — Stiles, W.H., et al, (1980, 78p. + appends., eng) 35-892
Arctic sea-ice variations from time-lapse passive microwave imagery — Campbell, W.J., et al, (1980, p.99-106, eng) 35-1115
Passive microwave imagery of sea ice at 33 GHz. — Ketchum, R.D., et al, (1980, p.211-223, eng) 35-1128
Microwave remote sensing of snowpack properties (1980, 275p., eng) 35-1732
Remote sensing data on snow properties — Shafer, B.A., (1980, p.1-10, eng) 35-1733
Microwave measurements of snow water equivalence — Boyne, H.S., et al, (1980, p.119-129, eng) 35-1739
Microwave remote sensing of snowpacks — Kong, J.A., et al, (1980, p.147-167, eng) 35-1741
Remote sensing of snow properties — Chang, A.T.C., et al, (1980, p.169-185, eng) 35-1742
Microwave radiometric observations of snowpacks — Ulaby, F.T., et al, (1980, p.187-201, eng) 35-1743
Microwave signatures of the natural snow cover at Weissfluhjoch — Matzler, C., et al, (1980, p.203-223, eng) 35-1744
Studies of microwave radiation from a snow field — Tiuri, M., et al, (1980, p.225-234, eng) 35-1745
Passive microwave sensors for studying snowpack properties — Chang, A.T.C., et al, (1980, p.235-248, eng) 35-1746
Microwave systems for detecting oil slicks in ice-infested waters (1980, 63p., eng) 35-2106
Snow stratigraphy and snow water equivalence. — Ellerbruch, D.A., et al, (1980, p.225-233, eng) 35-2365
Microwave remote sensing of snow and soil moisture. — Tsang, L., et al, (1980, p.3465-3485, eng) 35-2410
Disinfection of wastewater by microwaves — Iskandar, I.K., et al, (1980, 15p., eng) 35-2592
Microwaves for surveying of glaciers and permafrost on Qingzang Plateau. — Wang, J., et al, (1980, p.56-60, chi) 35-2669
Microwave remote sensing of snowpacks — Stiles, W.H., et al, (1980, 404p., eng) 35-2929
Ice surface roughness effect on its microwave emission — Nikitin, P.A., (1980, p.93-97, rus) 35-2984
Proceedings of the International Geoscience and Remote Sensing Symposium, 1981 (1981, 755p., eng) 35-3432
Observation of sea ice properties with the NIMBUS-7 SMMR — Cavalieri, D.J., et al, (1981, p.69-78, eng) 35-3433
Time-sequential multispectral observation of the Greenland ice sheet — Gloersen, P., et al, (1981, p.79-81, eng) 35-3434
Global snow cover of 1978-79 as observed with the NIMBUS-7 SMMR — Kuenzi, K.F., et al, (1981, p.83-84, eng) 35-3435
NORSEX project to study ice-ocean dynamics — Farrally, B.A., et al, (1981, p.86-88, eng) 35-3436
Survey paper on remote sensing techniques to map snow cover — Barnes, J.C., (1981, p.123-132, eng) 35-3438
Microwave emission signatures of snow in Finland — Tiuri, M., (1981, p.670-675, eng) 35-3441
Correlation function studies for microwave remote sensing of snow and ice — Vallese, F., et al, (1981, p.685-690, eng) 35-3443
Microwave remote sensing of earth terrain (snow, ice, vegetation). — Zuniga, M.Z., et al, (1981, p.691-695, eng) 35-3444
Studying microwave emission from a snow cover — Gershenzon, V.E., et al, (1981, p.58-62, rus) 35-3541
Variations in microwave emission of sea ice (numerical modeling) — Nikitin, P.A., (1980, p.56-63, rus) 35-3544
Evaluating fire danger in taiga from microwave radiation — Valendik, E.N., et al, (1980, p.14-19, rus) 35-3545
Dielectric properties and passive remote sensing of low-salinity sea ice — Hallikainen, M., (1980, 78p., eng) 35-3559
International Geoscience and Remote Sensing Symposium, 1981, Vol.2 (1981, p.755-1461, eng) 35-3585
Application of microwave remote sensing for snow and ice properties — Campbell, W.J., et al, (1981, p.951-957, eng) 35-3587
Microwave radiance of early fall sea ice at 1.55 cm. — Carsey, F.D., et al, (1981, p.989-994, eng) 35-3590
Snowpack monitoring using microwave satellite data — Forter, J.L., et al, (1980, 20p., eng) 35-3603
Final SURSAT Ice Workshop, Toronto, 1980 (1981, 7 sections, eng) 35-3656
Inlet current measured with Seasat-1 synthetic aperture radar — Shemdin, O.H., et al, (1980, p.35-37, eng) 35-3704
Measure of Arctic sea ice characteristics using microwave scatterometry — Jackson, B.L., et al, (1979, p.278-280, eng) 35-3707
Measurements of water equivalent of snow — Chang, A.T.C., et al, (1980, p.215-229, eng) 35-3855
Measurement of sea ice microwave properties — Troy, B.E., et al, (1981, p.4283-4289, eng) 35-3914

Migration

Oil in sea ice — Lewis, E.L., (1976, 26p., eng) 35-2247
Transport and deposition of leaves and seeds on tundra — Glaser, P.H., (1981, p.173-182, eng) 35-4090

Military engineering

River crossing in freezing weather — Kachanov, P., (1980, p.31-33, rus) 35-339
Winter maintenance and repair base for the army — Vasil'ev, V., (1980, p.63-66, rus) 35-494

Military equipment

Portable drills for ice and frozen ground — Belokonev, A., et al, (1979, p.78-79, rus) 35-336
Stressing military training under winter conditions (1980, p.2-4, rus) 35-338
River crossing in freezing weather — Kachanov, P., (1980, p.31-33, rus) 35-339
Frozen ground excavators — Revuka, V., et al, (1980, p.9, rus) 35-350
Winter maintenance and repair base for the army — Vasil'ev, V., (1980, p.63-66, rus) 35-494
Preparing rocket gunners for combat duty in winter — Ivanov, R., et al, (1979, p.19-22, rus) 35-495
Reinforcing fast ice for unloading military equipment — Zemlin, S., (1980, p.70-71, rus) 35-969
Winter maintenance of access roads — Bulatkin, R., (1978, p.78-80, rus) 35-2451
Military training in freezing weather — Petrov, V., (1978, p.85-87, rus) 35-2452

Military facilities

Winter maintenance of power stations — Starostin, I., (1980, p.18, rus) 35-349
Military diesel power plants in the Arctic — Kuchuk, I., (1980, p.58-60, rus) 35-972

Military operation

CNSFA Operation Order (OPORD) No.1-Y1 (1980-1981) (1980, c.100 leaves, eng) 35-328
Chemical warfare in polar regions — Kirsanov, V., (1979, p.80-82, rus) 35-337
Stressing military training under winter conditions (1980, p.2-4, rus) 35-338
River crossing in freezing weather — Kachanov, P., (1980, p.31-33, rus) 35-339
Preparing rocket gunners for combat duty in winter — Ivanov, R., et al, (1979, p.19-22, rus) 35-495
Attack under winter conditions — Georgiev, E., (1980, 6p., eng) 35-2152
Winter military training in polar regions — Lutoshkin, V., (1977, p.25-29, rus) 35-2449
Military winter training in taiga — Titov, A., (1978, p.31-35, rus) 35-2450
Winter maintenance of access roads — Bulatkin, R., (1978, p.78-80, rus) 35-2451
Military training in freezing weather — Petrov, V., (1978, p.85-87, rus) 35-2452
History and critique of Operation Highjump — Rose, L.A., (1980, 292p., eng) 35-3630

Military research

Military air-cushion ships — Korytov, N., (1980, p.10-12, rus) 35-351
Icing tests on army helicopters — Hanks, M.L., (1979, 36p., eng) 35-3467

Military transportation

Stressing military training under winter conditions. (1980, p.2-4, rus) 35-338
Reinforcing fast ice for unloading military equipment — Zemlin, S., (1980, p.70-71, rus) 35-969
Winter operation of military transportation vehicles — Simonov, A., (1980, p.69-71, rus) 35-970
Winter maintenance of military airports — Fedosenko, N., (1921, p.33-36, rus) 35-971

Mine shafts

Mining in permafrost areas — Timin, V.P., (1979, p.62-64, rus) 35-197
Mining excavations in permafrost areas — Avksent'ev, I.V., et al, (1979, p.105-106, rus) 35-199
Mine shaft excavation in permafrost areas — Shchukin, V.P., et al, (1980, p.143-145, rus) 35-304
Artificial rock freezing used in mining excavations — Kachur, V.D., et al, (1980, p.24-26, rus) 35-325
Artificial ground freezing in mining — Shparber, P.A., (1980, p.26-27, rus) 35-326
Calculating loads of frozen rocks on timber in mines — Sleptsov, A.E., et al, (1980, p.101-103, rus) 35-634
Calculating sublimation weathering of perennially frozen fines — Kuz'min, G.P., (1981, p.70-80, rus) 35-3286
Calculating the strength and creep of artificially frozen grounds — Vialov, S.S., et al, (1981, 199p., rus) 35-3932

Mineralogy

Weathering in some arctic-alpine soils — Ellis, S., (1980, p.371-385, eng) 35-1709

Minerals

Supply and transport of mineral nutrients in a subarctic mire — Malmer, N., et al, (1980, p.63-95, eng) 35-1474
Migration and biological activity of natural radionuclides in northern biogeocenoses — Popova, O.N., ed. (1980, 179p., rus) 35-1514
Material composition of Edoma series — Kuznetsov, II.V., (1979, p.136-144, rus) 35-1834
Ancient permafrost and its content of clay minerals — Xing, Z., et al, (1980, p.39-44, chi) 35-2664
Application of humus analysis to geotechnical prospecting, some case histories — Nuuttilamen, J., et al, (1977, p.1-5, eng) 35-2720
Till-sampling methods used for sheelite in Kaustinen, Finland — Lindmark, B., (1977, p.44-48, eng) 35-2724
Glacial dispersion of uranium in the District of Keewatin, Canada — Klassen, R.A., et al, (1977, p.80-88, eng) 35-2727
Application of humus to exploration — Kokkola, M., (1977, p.104-110, eng) 35-2729
Geochemical exploration in a glacial ice-dryside region, Finnish Lapland — Nurmi, A., (1975, p.54-59, eng) 35-2737
Relation of lake-sediment composition to mineralization — Nichol, I., et al, (1975, p.112-125, eng) 35-2739
Exploration for uranium through glacial drift in northern Sweden — Lundberg, B., (1973, p.31-43, eng) 35-2743

Minerals *(cont.)*
Sampling of the till-bedrock interface in geochemical exploration Wennervirta, H., (1973, p.67-71, eng) **35-2744**
Modern boulder tracing in prospecting Hyvarinen, L., et al, (1973, p.87-98, eng) **35-2747**
Prospecting for nickel in north Sweden Nilsson, G., (1973, p.97-109, eng) **35-2748**
Exploration for disseminated lead in southern Norway Bjorlykke, A., et al, (1973, p.111-126, eng) **35-2749**
Mineral in antarctic ice cores Miklishanskii, A.Z., et al, (1980, p.152-158, eng) **35-4148**

Mines (excavations)
Rock pressure in main and preparatory shafts Shirokov, A.P., ed, (1977, 170p, rus) **35-68**
Timber for mines in permafrost areas Plesnivtsev, V.V., et al, (1977, p.125-127, rus) **35-69**
Arch sets for mines in permafrost areas Moroz, V.F., (1977, p.154-155, rus) **35-70**
Snowpack and mine drainage in a western surface mine Farmer, E.E., et al, (1980, p.79-100, eng) **35-582**
Reclamation of acid-producing spoils on a western surface mine Richardson, B.Z., (1980, p.101-112, eng) **35-583**
Reclamation process as affected by the surface mining regulations Brown, J.A., (1980, p.148-152, eng) **35-586**
Surface coal mining control and reclamation act in Alaska, 1977 (1980, 328p, eng) **35-948**

Mining
Organizing construction in the Far North Tsaluk, I.G., (1980, p.13-14, rus) **35-3**
Mining problems in seismic permafrost areas Nikolaev, V.V., et al, (1980, p.191-197, rus) **35-143**
Timbering used in mines of permafrost areas Plesnivtsev, V.V., (1979, p.64-67, rus) **35-198**
Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979 Abstracts of the papers (1979, 211p, rus) **35-245**
Artificial ground freezing in mining Shparber, P.A., (1980, p.26-27, rus) **35-326**
Screening effect of tailings under permafrost conditions Pechenin, R.I., et al, (1979, p.6-7, rus) **35-352**
T-74 excavators for frozen ground Pervin, A.S., et al, (1979, p.24-25, rus) **35-353**
Mine shaft excavation in permafrost Volkodav, D.N., (1980, p.6, rus) **35-356**
Studying artificial freezing parameters for driving horizontal workings Nasonov, I.D., et al, (1980, 248p, rus) **35-384**
Low temperature performance of belt conveyors Volotkovskii, V.S., (1980, p.14-17, rus) **35-541**
Stability of mining excavations in permafrost areas Plesnivtsev, V.V., (1980, p.103-106, rus) **35-635**
Electro-thermo-mechanical excavators Rikenglaz, L.E., et al, (1980, p.47-51, rus) **35-636**
Gravel removal guidelines manual for Arctic and Subarctic floodplains (1980, 169p, eng) **35-797**
Digging wheel excavators for the North Kozin, G.R., et al, (1979, p.60-67, rus) **35-808**
Problems of the North, a current bibliography (1980, 3 volumes, rus) **35-858**
Problems of the North, a current bibliography (1980, 198p, rus) **35-859**
Open pit mining in arctic regions Elin, S.N., et al, (1979, p.10-14, rus) **35-865**
Stability of quarry walls in permafrost areas Fisenko, G.L., et al, (1980, p.18-20, rus) **35-869**
Dust control in northern mines Voronov, F.T., (1980, p.54-57, rus) **35-954**
Mining of frozen iron ore in northern Quebec and Labrador Garg, O.P., (1979, p.369-376, eng) **35-1051**
Thirtieth anniversary of the All-Union Scientific Research Institute of Gold and Rare Metals Fine'lianov, V.I., (1978, p.3-8, rus) **35-1078**
Hydraulic jet mining in permafrost areas Grinevich, V.V., et al, (1978, p.34-37, rus) **35-1080**
Explosives for blasting permafrost Egupov, A.A., et al, (1978, p.84-97, rus) **35-1083**
Solar energy for artificial thawing of permafrost Novoseletskii, R.N., et al, (1976, p.63-77, rus) **35-1147**
Theory of forecasting cryogenic processes Izmailov, I.I., et al, (1976, p.78-85, rus) **35-1148**
Hydropneumatic impact systems of working parts of mining and road construction machines Saginov, A.S., et al, (1980, 199p, rus) **35-1149**
Burning coal in Alaska: a winter experience Abegg, F., (1980, 9p, eng) **35-1187**
Open-pit mining in winter Krasnoselskii, E.B., (1980, p.264-268, rus) **35-1256**
River water pollution in permafrost areas Il'ichev, D.N., et al, (1979, p.64-76, rus) **35-1521**
Environmental protection in mining areas El'chaninov, E.A., (1980, p.43-49, rus) **35-2189**
Permafrost stability and human activities Kuznetsova, I.L., (1980, p.75-107, rus) **35-2192**
Snow drifting on phosphate mine dumps in southeastern Idaho Chacho, E., et al, (1980, p.31-42, eng) **35-2224**
Thickness of aeration zones in permafrost Oberman, N.G., (1981, p.127-133, rus) **35-2453**
Stresses on cutting tools in permafrost excavation Misnik, I.M., et al, (1980, p.69-74, rus) **35-2455**
Blasting deeply frozen rocks Pushkin, B.I.A., (1980, p.59-61, rus) **35-2456**
Exploration for disseminated lead in southern Norway Bjorlykke, A., et al, (1973, p.111-126, eng) **35-2749**
Heat and mass transfer in massive rocks and in underground structures Kremnev, O.A., et al, (1980, 383p, rus) **35-2874**
Utilization of explosive energy in construction Danilenko, I.I., (1981, 167p, rus) **35-3531**
Recovery of a stream from iron ore activities, Schefferville area Dubreuil, M.A., (1981, p.39-55, eng) **35-3978**
Production of construction materials in the North Krivoshapkin, A.I., et al, (1978, p.68-71, rus) **35-4113**
Pneumatic tube performance in northern mines Alekseev, P.E., et al, (1978, p.72-80, rus) **35-4114**

Models
Settlement of pile foundations in clayey water-saturated soils Troshkova, N.D., (1979, p.29-30, rus) **35-4**
Modeling seismic stability of bridge piers Murusidze, R.Kh., et al, (1980, p.50-55, rus) **35-146**
Modeling hard rock slope resistance to earthquakes Tselikov, F.I., et al, (1980, p.121-125, rus) **35-147**
Solutions and use of chronofunctions in studying soil development Bockheim, J.G., (1980, p.71-85, eng) **35-220**
Stability of tailing embankments Ogloblin, V.F., et al, (1980, p.68-71, rus) **35-230**
Modeling the strength and stability of roadbeds Akovleva, T.G., et al, (1980, 255p, rus) **35-281**
Methods of engineering-geological investigations of high slopes susceptible to cave-ins and landslides Zolotarev, G.S., ed, (1980, 184p + append., rus) **35-344**
Electrical properties of Arctic sea ice Bogorodskii, V.V., et al, (1980, p.6-14, rus) **35-361**
Studying artificial freezing parameters for driving horizontal workings Nasonov, I.D., et al, (1980, 248p, rus) **35-384**
Weather from the ends of the earth (1978, p.38-46, eng) **35-402**
Estimation of small basin flood flows in the discontinuous permafrost zone Vincent, D.G., et al, (1979, p.229-238, eng) **35-416**
Upward salt movement when ocean surface freezes or melts Parkinson, C.L., (1979, p.103-104, eng) **35-674**
Model of the atomic icebreaker *Arktika* Kostychev, V., (1980, p.72-74, rus) **35-790**
Model of the river freezing process Donchenko, R.V., (1980, p.3-11, rus) **35-1010**
January and July performance of the OSU two-level atmospheric general circulation model Schlesinger, M.E., et al, (1980, p.1914-1943, eng) **35-1074**
Modeling of ice in rivers Ashton, G.D., (1979, p.14-1-14-26, eng) **35-1127**
Resolutions of the Working Session of the Section of Glaciology, Feb. 18-20, 1980 (1980, p.20-22, rus) **35-1221**
Role of snow cover in the modelling of water balance Balek, J., (1980, p.152-157, rus) **35-1248**
Modeling pine needle burning in air flow Kisiliakhov, F.K., (1972, p.242-248, rus) **35-1381**
Origin and mechanism of large-scale climatic oscillations Sergin, V.IA., (1980, p.1477-1482, eng) **35-1535**
Water seepage in flooded dams Ivanov, D.I., (1979, p.60-65, rus) **35-1625**
Modeling in the aquatic program of the tundra biome Tiwari, J.L., et al, (1980, p.407-456, eng) **35-1757**
Mineral nutrition of brown lemmings Barkley, S.A., et al, (1980, p.103-114, eng) **35-1786**
Free drift of sea ice: a comparison of models Gaskill, H.S., et al, (1980, 132p, eng) **35-1845**
Global circulation model of ocean, atmosphere and sea ice Washington, W.M., et al, (1980, p.1887-1908, eng) **35-2472**
Marine transportation system analysis in Alaskan waters Macpherson, M.D., (1980, 486p, eng) **35-2575**
Energy balance climate models North, G.R., et al, (1981, p.91-121, eng) **35-2579**
Model for the spectral albedo of snow. I. Pure snow Wiscombe, W.J., et al, (1980, p.2712-2733, eng) **35-2717**
Model for the spectral albedo of snow. II. Snow containing atmospheric aerosols Warren, S.G., et al, (1980, p.2734-2745, eng) **35-2718**
Ecosystem models of an arctic pond Hobbie, J.E., et al, (1978, p.105-109, eng) **35-2890**
Complex turbulent flow and the processes of heat and mass transfer Nikitin, I.K., (1980, 238p, rus) **35-2956**
Derivation of past climate changes from observed changes of glaciers Smith, I.N., et al, (1981, p.31-52, eng) **35-3020**
Climatic role of snow covers Kukla, G., (1981, p.79-107, eng) **35-3023**
General circulation model for arctic and antarctic climatology Herman, G.F., et al, (1980, p.1974-1991, eng) **35-3645**
Sea ice simulation from a global circulation model Parkinson, C.L., et al, (1980, p.2080-2091, eng) **35-3653**
Ice-free Cretaceous? Results from climate model simulations Barron, E.J., et al, (1981, p.501-508, eng) **35-3687**
Modeling snow cover elements at Crater Lake, Oregon Hamilton, W.L., (1980, 112p, eng) **35-3974**

Modular construction
Use of helicopters in transporting prefabrication components Chernitskii, A.V., (1980, p.26-27, rus) **35-2**
Pile foundations for weak ground Shapiro, V.D., et al, (1980, p.4-6, rus) **35-94**
Modular construction in Permafrost areas Ivov, B.I., (1980, p.5-9, rus) **35-445**
Modular construction in permafrost areas Alekseev, P.D., et al, (1980, p.2-5, rus) **35-447**
Modular construction in West Siberia Gramatunova, I.P., et al, (1980, p.5-7, rus) **35-448**
Modern design of modular buildings Gel'man, E.A., (1980, p.61-66, rus) **35-604**
Modular buildings for cold regions Suslin, V.M., et al, (1980, p.30-31, rus) **35-1307**
Modular construction in cold regions except permafrost areas Boev, A.A., et al, (1980, p.31-32, rus) **35-1308**
Work-camp living complexes for the North Zimin, I.I., et al, (1978, 152p, rus) **35-1699**
Modular construction in permafrost regions Sobchenko, M.S., et al, (1981, p.16-17, rus) **35-2078**
Porous fiberglass insulation used in modular construction Mordukhovich, I.M., et al, (1981, p.17-19, rus) **35-2079**
Modular construction in cold regions Rubinshtein, A.B., (1981, p.24-25, rus) **35-2789**
Prefabricated dismountable buildings in permafrost areas Bardyshev, O.A., et al, (1981, p.17-19, rus) **35-2844**
From nomadic to mobile architecture Mardar, D., et al, (1980, 215p (Pertinent p.174-213), rus) **35-2864**
Developing means of transporting super-blocks Rozhkov, S.V., et al, (1981, p.11-12, rus) **35-3342**
Improvement and wider application of modular construction Polianskii, R.P., (1981, p.9-12, rus) **35-3507**

Moisture
Mudflows in relation to climate and topography, Canadian Rocky Mts Owens, I.F., (1974, p.313-318, eng) **35-1949**
Window performance in extreme cold Flanders, S.N., et al, (1981, p.396-408, eng) **35-2514**
Roofs in cold regions Tobiasson, W., (1980, 21p, eng) **35-2713**
Thermal insulations and moisture retarders in buildings Tenisma, G.J., (1981, p.32, eng) **35-2791**

Moisture detection
Hand-held infrared systems for detecting roof moisture Tobiasson, W., et al, (1977, p.261-271, eng) **35-2494**

Moisture meters
Hand-held infrared systems for detecting roof moisture Tobiasson, W., et al, (1977, p.261-271, eng) **35-2494**

Moisture transfer
Mathematical modeling and experimental study of heat and mass transfer processes Bondarev, E.A., ed, (1979, 136p, rus) **35-233**
Heat and mass transfer in rocks during phase transformations Melamed, V.G., (1980, 228p, rus) **35-253**
Physical kinetics and transfer processes in phase transformations Pavlukevich, N.V., et al, (1980, 208p, rus) **35-806**
Moisture gain and its thermal consequence for common roof insulations Tobiasson, W., et al, (1980, p.4-16, eng) **35-2053**
Salts and moisture migration in cryogenic soils Melesk, Kh.Kh., (1980, p.110-111, rus) **35-2290**
Moisture transfer in freezing soils Sen'kov, A.V., (1980, p.111-113, rus) **35-2291**
Moisture cycles in the lower course of the Ob' River and the Kara Sea and their possible variations due to interzonal redistribution of runoff Burova, I.P., (1980, p.131-135, rus) **35-3132**
Vapor condensation in hydraulically filled tailings Klimov, G.I., et al, (1980, p.57-62, rus) **35-3995**

Molecular energy levels
Interaction of the water molecule with a rigid prism face of ice Hale, B.N., et al, (1981, p.1991-1995, eng) **35-4155**

Molecular structure
Freezing of fine grained rocks Anaman, A.A., (1980, p.130-135, rus) **35-767**
Temperature coefficient of the refractive index for H2O and D2O Abbate, G., et al, (1980, p.1171-1177, eng) **35-1691**
Polarizability derivative of the O-D bond in ice Bertie, J.E., et al, (1980, p.6352-6353, eng) **35-1696**
Mathematic-thermodynamic analysis of the anomalies of water Trincher, K., (1981, p.433-448, eng) **35-2460**

Mongolia
Cryogenic processes related to changes in paleogeographic conditions Gravis, G.F., (1981, p.102-113, rus) **35-4075**

Monitors
Continuous monitoring of snow water equivalent using cosmic ray neutrons Kodama, M., (1980, p.295-303, eng) **35-747**
Bench marks for monitoring landslide slopes Grigor'ev, II.S., et al, (1980, p.80-84, rus) **35-773**

Using cosmic radiation in monitoring mudflows — Dubinchuk, V. T., [1980, p.85-89, rus] **35-774**

Biochemical cycle of carbon dioxide in the Arctic — Kelley, J. J., [1980, p.266-271, rus] **35-1270**

Seismic mudflow-alarm systems — Krasnakov, V. A., [1980, p.95-100, rus] **35-1813**

Seismic signal device for mudflow danger — Kovalenko, P. I., et al, [1980, p.101-110, rus] **35-1814**

Moon

Ice in the polar regions of the moon — Lanzerotti, L. J., et al, [1981, p.3949-3950, eng] **35-3908**

Moorings

Construction of river harbors under severe climatic conditions — Rikhter, O. B., et al, [1980, p.18-20, rus] **35-1299**

Construction of river moorings under severe climatic conditions (a review) — Khaskhachikh, G. D., et al, [1980, 33p., rus] **35-2965**

Mooring systems and rig anchor release in drilling operations, Arctic — Tasch, J. F., et al, [1980, p.339-344, eng] **35-3638**

Sedimentation in Lower Cook Inlet, Alaska — Larrance, J. D., et al, [1979, p.269-282, eng] **35-3810**

Moraines

Studying coastal plains and shelves of Arctic seas — Danilov, I. D., ed, [1979, 135p., rus] **35-64**

Moraine-like deposits in northern plains — Danilov, I. D., [1979, p.97-135, rus] **35-67**

Forecasting glacial mudflows — Chistiaev, V. B., [1978, p.64-84, rus] **35-71**

Studying the formation of mountain glacier moraines — Orlov, A. V., [1980, p.65-68, rus] **35-78**

Aerial photography in soil mapping — Monakhov, A. K., [1980, p.355-356, rus] **35-109**

Quaternary geology of the Narssaq area, South Greenland — Funder, S., [1979, 24p., eng] **35-110**

Mudflows, No.4 — Vinogradov, Iu. B., ed, [1980, 148p., rus] **35-203**

Mudflows caused by breakthrough of morainal lakes — Popov, V. I., et al, [1980, p.57-63, rus] **35-210**

Mudflow phenomena in the USSR — Raushenbakh, I. O., [1980, p.90-102, rus] **35-212**

Mudflows triggered by glacial runoff — Golubovich, V. A., [1980, p.103-106, rus] **35-213**

Formation of glacial mudflows — Markov, I. N., et al, [1980, p.107-112, rus] **35-214**

Glacial mudflows and countermeasures — Mochalov, V. P., et al, [1980, p.113-119, rus] **35-215**

Soil development on moraines of Taylor Glacier, lower Taylor Valley, Antarctica — Pastor, J., et al, [1980, p.341-348, eng] **35-225**

Effect of morainal deposits on glacier melting — Denisov, Iu. M., [1980, p.67-80, rus] **35-717**

Snow accumulation on glaciers — Kuznetsov, N. A., [1980, p.105-111, rus] **35-720**

Formation of morainal deposits — Lavrushin, Iu. A., [1980, p.123-135, rus] **35-809**

Glacial lithogenesis under conditions of active volcanism — Geptner, A. R., [1980, p.136-146, rus] **35-810**

Glacial morphology and hydrology of Kainuu and Perapohjola, Finland — Kurimo, H., [1979, 64p. + 1 map, eng] **35-994**

Glacio-geomorphological observations at Cape Omega — Moriwaki, K., [1980, p.1-14, eng] **35-1054**

Protective measures in glacial mudflow areas — Fleishman, S. M., [1980, p.268-271, rus] **35-1257**

Water soluble substances in podsolized sandy and loam soils — Strelkova, A. A., [1979, p.3-22, rus] **35-1418**

Cryogenic soils of Karelia — Perevozchikova, E. M., et al, [1979, p.149-168, rus] **35-1419**

Glacier-rock glacier transition in the southwest Yukon Territory, Canada — Johnson, P. G., [1980, p.195-204, eng] **35-1661**

Drumlins and large-scale flutings related to glacier folds — Shaw, J., [1980, p.287-298, eng] **35-1666**

Methods of studying end-moraines of mountain glaciers — Serebriannyi, I. R., et al, [1980, p.44-53, rus] **35-1763**

Glacial mudflows in river basins — Laptev, V. L., [1980, p.55-58, rus] **35-1807**

Composition of morainal silt of Spitsbergen Archipelago glaciers — Konishchev, V. N., et al, [1979, p.102-109, rus] **35-1832**

Areas of bottom melting of ice cover in the Transantarctic Mountains — Miagkov, S. M., [1980, p.103-106, rus] **35-2042**

Late Weichselian ice sheets in Eurasia and Greenland — Andersen, B. G., [1981, p.1-65 + 5 sheets, eng] **35-2063**

Wastage features of the inland ice sheet in central South Norway — Garnes, K., et al, [1980, p.251-269, eng] **35-2140**

Problems of moraine morphology. Rogen moraine and Blattnick moraine — Markgren, M., et al, [1980, p.271-274, eng] **35-2141**

Bedrock material in moraine forms in northern Sweden — Minell, H., [1980, p.275-281, eng] **35-2142**

Glacial history of the Kirgiz Ala Tau Range — Maksimov, E. V., [1980, 184p. (pertinent p.116-143), rus] **35-2394**

Scientific conference of Karelian biologists — Komulainen, V. A., ed, [1970, 167p., rus] **35-2613**

Paludification of northern morainal landscapes — Kozlova, R. P., [1970, p.46-47, rus] **35-2614**

Peat deposits in northern bogs — Belova, V. A., [1970, p.49-50, rus] **35-2615**

Grain size of moraines in Tien Shan and Qingzang Plateau — Ma, C., [1980, p.80-83, chi] **35-2678**

Geochemical sampling media useful in glaciated terrain — Boyle, D. R., et al, [1975, p.6-15, eng] **35-2735**

Periglacial lakes in Zailyskiy Alatau — Tokmagambetov, G. A., et al, [1980, p.97-101, 165-170, rus] **35-2824**

Impact of floods from glacier-dammed lakes, Yukon, Canada — Young, G. J., [1980, p.101-107, 170-175, rus] **35-2825**

Glacial mudflows in Central Asia — Nikitin, V. M., et al, [1980, p.107-110, 175-178, rus] **35-2826**

Flank and frontal moraines of surging glaciers — Repp, A. G., [1980, p.209-212, rus] **35-2835**

Lake sediment coring along Smith Sound, Ellesmere Island and Greenland — Blake, W., Jr., [1981, p.191-200, eng] **35-3086**

Aspects of the glacial history of Bylot Island, District of Franklin — Klassen, R. A., [1981, p.317-326, eng] **35-3088**

Deglaciation of the Coppermine River region, District of Mackenzie — St-Onge, D. A., et al, [1981, p.327-331, eng] **35-3089**

Sakami moraine, Quebec: a 500-km-long moraine without climate control — Hillaire-Marcel, C., et al, [1981, p.210-214, eng] **35-3138**

Shore morphology and stratigraphy of Lake Hoytiamen, Finland — Vesajoki, H., [1980, 30p., eng] **35-3209**

Cryogenic structure of moraines in Zailyskiy Alatau — Ermolin, E. D., [1980, p.147-153, rus] **35-3330**

Palynologic proof of glacier advances and retreats — Sopoeva, A. S., [1980, p.173-176, rus] **35-3335**

Genesis of tills and deglaciation in central Lappland — Minell, H., [1979, 83p. + maps, eng] **35-3408**

Polish Scientific Spitsbergen Expeditions, 1970-1974, Vol I — [1975, 196p., eng] **35-3608**

Ablation of ice-moraine ridges of the Hornsund region — Szponar, A., [1975, p.101-125, eng] **35-3613**

Marginal zone of the Arte Glacier — Szponar, A., [1975, p.127-138, eng] **35-3614**

Debris forms on the Skoddefjellet slope — Jania, J., [1977, p.91-117, eng] **35-3624**

Glacial mudflows in Pamirs — Kemmerikh, A. O., [1978, p.307-309, eng] **35-3686**

Surge moraines of the Klutlan Glacier, Yukon Territory, Canada — Wright, H. E., Jr., [1980, p.2-18, eng] **35-3714**

Moraine formation of the Klutlan Glacier, Canada — Driscoll, F. G., Jr., [1980, p.19-30, eng] **35-3715**

Wastage of the Klutlan ice-cored moraines, Yukon Territory, Canada — Driscoll, F. G., Jr., [1980, p.31-39, eng] **35-3716**

Landform development on moraines of the Klutlan Glacier, Canada — Watson, R. A., [1980, p.50-59, eng] **35-3717**

Vegetation on moraines of the Klutlan Glacier, Canada — Birks, H. J. B., [1980, p.60-86, eng] **35-3718**

Soil development on moraines of the Klutlan Glacier, Canada — Jacobson, G. L., et al, [1980, p.87-100, eng] **35-3719**

Pollen and vegetation of moraines of the Klutlan Glacier area, Canada — Birks, H. J. B., [1980, p.101-129, eng] **35-3720**

Limnology of the Klutlan moraines, Yukon Territory, Canada — Whiteside, M. C., et al, [1980, p.130-148, eng] **35-3721**

Paleolimnology of the Klutlan Glacier area, Canada — Bradbury, J. P., et al, [1980, p.149-168, eng] **35-3722**

Glaciers of the Mont Blanc massif (north slope) in 1978, 1979, 1980 — Veyret, P., [1981, p.385-391, fre] **35-3744**

Dating morainal deposits in Arctic regions — Gol'dfarb, R. L., [1976, p.100-106, rus] **35-3834**

Pleistocene glaciations on Svalbard — Punning, IA-M. K., et al, [1981, p.20-26, eng] **35-3901**

Changes of Batura Glacier in the Quaternary and recent times — Zhang, X., et al, [1980, p.173-190, chi] **35-4038**

Mortars

Antifreeze admixtures for winter concreting — Dobshits, I. M., [1979, p.47-55, rus] **35-1278**

Surfactant admixtures for portland cement — Tonka, A. R., et al, [1980, p.71-75, rus] **35-1364**

Manual for earthquake-resistant brick buildings — [1976, 32p., rus] **35-1716**

Multi-story stone buildings in the North — Kalinin, M. S., et al, [1980, 153p., rus] **35-2882**

Prolonging the service life of concrete in transport structures — Sheikin, A. E., ed, [1980, 158p., rus] **35-3524**

Strength of mortars with antifreeze admixtures — Kuntsevich, O. V., et al, [1980, p.26-34, rus] **35-3527**

Mosses

Seasonal dynamics of tundra cotton grass — Spodobiteva, N. I., [1980, p.73-84, rus] **35-286**

Mosses of tundra swamps — Stepanova, N. A., [1980, p.140-157, rus] **35-291**

Moss and lichen vegetation in northern forest steppes — Afonina, O. M., et al, [1980, p.66-82, rus] **35-393**

Grazing effect on tundra vegetation — Polezhaev, A. N., [1980, p.5-13, rus] **35-1036**

Microclimatology of northern forests — Ipatov, V. S., et al, [1980, p.14-20, rus] **35-1037**

Rate of peat accumulation in antarctic moss banks — Fenton, J. H. C., [1980, p.211-228, eng] **35-1170**

Epiphytic algae of peat mosses — Antipina, G. S., [1980, p.167-175, rus] **35-1330**

Biologic cycle in bilberry-peat moss pine forests — Prokhorova, V. IA., [1972, p.30-36, rus] **35-1375**

Microclimatology of mountain taiga — Molokov, V. A., [1972, p.268-275, rus] **35-1382**

Revegetation of felled areas in taiga — Mikhaleva, V. M., [1971, p.34-51, rus] **35-1392**

Reclamation of north taiga lands — P'iavchenko, N. I., [1980, p.7-16, rus] **35-1443**

Swamps of the West Siberian plain — Liss, O. L., et al, [1980, p.95-112, rus] **35-1444**

Photosynthesis of moss in a subarctic mire — Johansson, L.-G., et al, [1980, p.181-190, eng] **35-1480**

Moss growing in relation to environmental factors — Sonesson, M., et al, [1980, p.191-207, eng] **35-1481**

Vegetation features in the N.W.T., Canada — Johnson, F. A., [1981, p.200-215, eng] **35-2800**

Liverworts of Alpine tundra — Konstantinova, N. A., [1980, p.96-107, rus] **35-3072**

Lichens of Arctic landscapes — Andreev, M. P., [1981, p.31-41, rus] **35-3221**

Vegetation of a hot spring area — Rutsev, B. A., ed, [1981, 141p., rus] **35-3226**

Ecologic and geographic distribution of taiga plants — Beglianova, M. L., et al, [1981, p.37-52, rus] **35-3892**

Mosses of the Altai-Sayan highlands — Gudoshnikov, S. V., [1981, p.52-60, rus] **35-3893**

Growth conditions and vitality of *Sphagnum* in a tundra community along the Alaska pipeline haul road — Spatt, P. D., et al, [1981, p.48-54, eng] **35-4050**

Transition zone between taiga and swamps — Armand, A. D., [1979, p.194-213, rus] **35-4125**

Structure and biomass of larch taiga — Moskaluk, I. A., [1979, p.16-27, rus] **35-4325**

Motor vehicles

Transportation development problems and prospects. Economic development of Siberia and the Far East — Pavlovskii, I. G., [1980, 125p., rus] **35-864**

Winter operation of military transportation vehicles — Simonov, A., [1980, p.69-71, rus] **35-970**

Construction machines designed for the North — Shpiller, E. D., et al, [1981, p.54-55, rus] **35-2091**

Winter air pollution at Fairbanks, Alaska — Coutts, H. J., et al, [1981, p.512-528, eng] **35-2522**

Time to end hard wintertime starting — [1981, p.48, eng] **35-2562**

Using liquid fuels at low temperatures — Englin, B. A., [1980, 207p., rus] **35-2998**

Automobiles designed for the Far North — Anopchenkov, V., [1981, p.16, rus] **35-3800**

Performance of modern technical equipment in the North — Skrybykin, A. N., [1978, p.24-31, rus] **35-4111**

Operation of motor vehicles in cold climate — Krestovnikov, G. A., et al, [1981, 11p., eng] **35-4258**

Mountain glaciers

Forecasting glacial mudflows — Chistiaev, V. B., [1978, p.64-84, rus] **35-71**

Studying the formation of mountain glacier moraines — Orlov, A. V., [1980, p.65-68, rus] **35-78**

Cryogenic phenomena in Kazakhstan and Central Asia — Gorbunov, A. P., ed, [1979, 145p., rus] **35-185**

Mudflows, No.4 — Vinogradov, Iu. B., ed, [1980, 148p., rus] **35-203**

Mudflows caused by breakthrough of morainal lakes — Popov, V. I., et al, [1980, p.57-63, rus] **35-210**

Mudflows formed by glacial runoff — Mochalov, V. P., et al, [1980, p.64-67, rus] **35-211**

Mudflow phenomena in the USSR — Raushenbakh, I. O., [1980, p.90-102, rus] **35-212**

Mudflows triggered by glacial runoff — Golubovich, V. A., [1980, p.103-106, rus] **35-213**

Glacial mudflows and countermeasures — Mochalov, V. P., et al, [1980, p.113-119, rus] **35-215**

Water, ice, and heat balance of mountain glacier basins — Suslov, V. F., et al, [1980, 206p., rus] **35-232**

Glaciation of the Kuznetskiy Alatau — Shpin', P. S., [1980, 84p., rus] **35-307**

Glacial runoff control — Krenke, A. N., [1980, p.5-19, rus] **35-466**

Glaciology of mountain regions (snow cover, avalanches and glaciers) — Suslov, V. F., ed, [1980, 144p., rus] **35-709**

Classification of pulsating glaciers — Sannikov, A. G., [1980, p.112-119, rus] **35-721**

Glacial lithogenesis under conditions of active volcanism — Geptner, A. R., [1980, p.136-146, rus] **35-810**

International symposium on glacial hydrology — Kotzin, V. E., [1980, p.89-90, rus] **35-1232**

Energy balance of glacier surfaces — Radok, U., [1980, p.90-92, rus] **35-1233**

Mathematical method of forecasting glacier ablation rates — Shumskii, P. A., et al, [1980, p.92-98, rus] **35-1234**

Calculating radiation balance on glacier surfaces — Cherkasov, P. A., [1980, p.98-104, rus] **35-1235**

Radiation balance of glaciers in the Oetztal Alps — Wagner, H. P., [1980, p.104-107, rus] **35-1236**

Calculating runoff from glaciated areas — Lang, H., [1980, p.107-115, rus] **35-1237**

Methods of calculating mass balance of glaciers — Dreiseitl, E., [1980, p.115-118, rus] **35-1238**

Mountain glaciers *(cont.)*

Snow and glacier contributions in Himalayan catchments Bahadur, J.B., et al. (1980) p.121-125, rus) **35-1240**

Factors affecting discharge of glacial rivers Tsomaia, V.Sh., (1980, p.125-130, rus) **35-1241**

Study of the Central Himalayan glacier Millam Joshi, B.P., (1980, p.130-132, rus) **35-1242**

Mass balance of the Gara Glacier, India Vohra, C., et al, (1980, p.132-136, rus) **35-1243**

Ice and water balance of mountain glaciers Reinwarth, O., (1980, p.137-138, rus) **35-1244**

Comparison of mass balance and runoff at four glaciers in the United States, 1966 to 1977 Meier, M., et al, (1980, p.138-143, rus) **35-1245**

Ice and water balances of South Cascade glacier Krimmel, R.K., et al, (1980, p.143-147, rus) **35-1246**

Dynamics and mass balance of mountain glaciers Golubev, G.N., et al, (1980, p.147-152, rus) **35-1247**

Role of snow cover in the modelling of water balance Balek, J., (1980, p.152-157, rus) **35-1248**

Chemical composition of glacial waters Izrael', Iu.A., et al, (1980, p.157-162, rus) **35-1249**

Role of glaciological investigations in the studies and development of mountainous regions Kotlıakov, V.M., et al, (1980, p.37-40, rus) **35-1437**

Water resources of mountains Lvovich, M.I., et al, (1980, p.50-65, rus) **35-1438**

Glacier systems of the Northeastern USSR Krenke, A.N., et al, (1980, p.17-33, rus) **35-1532**

Glaciers in China Chi, J. ed, (1980, c200p, eng) **35-1564**

Himalayan glacier fluctuations and south Asian monsoons Mayewski, P.A., et al, (1980, p.171-182, eng) **35-1659**

Methods of studying end-moraines of mountain glaciers Serebriannyi, I.R., et al, (1980, p.44-53, rus) **35-1763**

Glacial mudflows in river basins Laptev, V.I., (1980, p.55-58, rus) **35-1807**

Composition of morainal silt of Spitsbergen Archipelago glaciers Komshchev, V.N., et al, (1979, p.102-109, rus) **35-1832**

Climate and topography of Wrangel Island Skryl'nik, G.P., (1976, p.20-43, rus) **35-1851**

Glacial hydrology of Pamirs Kemmerikh, A.O., (1980, p.88-94, rus) **35-1922**

Causes of mountain glacier oscillation in antarctic dry valleys Miagkov, S.M., (1980, p.95-98, rus) **35-2040**

Areas of bottom melting of ice cover in the Transantarctic Mountains Miagkov, S.M., (1980, p.103-106, rus) **35-2042**

Late Wisconsin-Weichselian mountain glaciers and ice caps Hollin, J.T., et al, (1981, p.179-206, eng) **35-2065**

Reports on the 1979 glaciological survey (1980, p.80-128, ita) **35-2561**

Calculating glacial runoff in the Caucasus Krenke, A.N., et al, (1980, p.31-37, 112-118, rus) **35-2812**

Forecasting glacial runoff of mountain rivers Abal'ian, T.S., et al, (1980, p.42-49, 124-129, rus) **35-2815**

Modeling formation of runoff in a basin with widespread glaciation Borovikova, I.N., et al, (1980, p.49-55, 130-134, rus) **35-2816**

Dynamics of melt waters on the Abramov glacier Akbarov, A.A., et al, (1980, p.92-96, 161-165, rus) **35-2823**

Periglacial lakes in Zailiyskiy Alatau Tokmagambetov, G.A., et al, (1980, p.97-101, 165-170, rus) **35-2824**

Glaciation conditions of the Bol'shaya Khadata River Basin Gokhman, V.V., (1980, p.194-200, rus) **35-2831**

Stream-melting theory of glacier ablation Kazanskii, A.B., et al, (1980, p.203-206, rus) **35-2833**

Oscillations of the Bol'shoy Azau Glacier tongue Martyshev, A.P., (1980, p.207-209, rus) **35-2834**

Flank and frontal moraines of surging glaciers Repin, A.G., (1980, p.209-212, rus) **35-2835**

Historical Mu-chia-erh-te Glacier valley and east-west communication Shih, Y., et al, (1979, p.22-26, chi) **35-2898**

Survey of speed of movement of the glacier in the K'o-la-kun-lun Mountain region Sun, T., (1979, p.33-38, chi) **35-2900**

Chiao-li-feng Peak and its glacier Wang, H., (1979, p.72-76, chi) **35-2906**

Data on the glacier of Chi-lien-shan Mountain Fei, C., (1979, p.77-80, chi) **35-2907**

Primary results of the study on modern glaciers in the region of Mt. Tuomuer Wang, I., et al, (1980, p.15-18, chi) **35-2912**

Stereophotogrammetric surveys and mapping of the Batura Glacier Wang, W., et al, (1980, p.22-28, chi) **35-2914**

Using satellite information in glaciology Desinov, L.V., (1980, p.59-65, rus) **35-2975**

Recent fluctuations of glaciers in the eastern part of Nepal Himalayas Fushimi, H., et al, (1981, p.21-29, eng) **35-3019**

Ice core studies from Mt. Kenya, Africa Thompson, L.G., (1981, p.55-62, eng) **35-3021**

Lewis Glacier (Mt. Kenya) and possible links tropical climate Vincent, C.E., et al, (1981, p.63-78, eng) **35-3022**

Isotope methods of studying natural waters Ferronskii, V.I., ed, (1981, 260p, rus) **35-3296**

Oxygen isotope balance in the Issyk-Kul' glacial basin Brezgunov, V.S., et al, (1981, p.10-14, rus) **35-3297**

Uranium and plutonium isotopes in glacier ice Bondarev, L.G., et al, (1981, p.198-200, rus) **35-3302**

Palynologic proof of glacier advances and retreats Sopoeva, A.S., (1980, p.173-176, rus) **35-3335**

Glacial and morphoclimatic indices of the Baykal Highlands Vyrkin, V.B., et al, (1980, p.113-118, rus) **35-3479**

Glaciology of mountainous regions (snow cover, avalanches) Kanaev, I.A., ed, (1980, 144p, rus) **35-3569**

Avalanches in the Inyl'chek River basin Maksimov, N.V., (1980, p.121-126, rus) **35-3583**

Mountain glaciers from SEASAT radar images Ford, J.P., (1981, p.864-869, eng) **35-3586**

Interpretation of monopulse ice radar soundings on two Peruvian glaciers Jezek, K.C., et al, (1981, p.958-973, eng) **35-3588**

Some achievement on mountain glacier researches in China Yafeng, S., (1980, p.13-26, eng) **35-3660**

Selected papers from the Franco-Soviet Symposium on the Alps and Caucasus (1981, p.219-403, fre) **35-3739**

Present glaciation and climate of the Caucasus Kotlıakov, V.M., et al, (1981, p.241-264, fre) **35-3740**

Comparative geomorphology of mountain systems of the Alps and Caucasus Bravard, Y., et al, (1981, p.313-318, fre) **35-3741**

Glaciers of the Mont Blanc massif (north slope) in 1978, 1979, 1980 Veyret, P., (1981, p.385-391, fre) **35-3744**

Dating morainal deposits in Arctic regions Gol'dfarb, I.L., (1976, p.100-106, rus) **35-3834**

Radiation balance at the physical surface of mountain glaciers during ablation Cherkasov, P.A., (1980, 143p, rus) **35-3963**

Observations and research on Batura Glacier, Karakoram Mts (1980, 271p, + figs, chi) **35-4025**

Studies of Batura Glacier, Karakoram Mts Shi, Y., (1980, p.1-7, chi) **35-4026**

General features of Batura Glacier Zhang, X., et al, (1980, p.8-27, chi) **35-4027**

Alpine tundras of the Bol'shoy Annachag Range (upper course of the Kolyma River) Berman, D.I., ed, (1980, 178p, rus) **35-4332**

Landscape structure of the Sibit-Tyellakh River basin, Egorova, G.N., (1980, p.32-53, rus) **35-4334**

Mountain soils

Bedrock and topography effects on taiga soils Molokov, V.A., (1980, p.53-57, rus) **35-299**

Conference of young scientists, 3rd, Krasnoyarsk, 1971 Studies of the nature of Siberian forests (1972, 325p, rus) **35-1373**

Biomass dynamics in green-moss fir forests of different age Kuzikov, I.E., (1972, p.16-21, rus) **35-1374**

Microchmatology of mountain taiga Molokov, V.A., (1972, p.268-275, rus) **35-1382**

Altitudinal zonation of mountain vegetation in the USSR Stanukovich, K.V., (1980, p.74-81, rus) **35-1440**

Studying soil geography and landscape geochemistry in the Baykal Amur railroad zone Snytko, V.A., ed, (1980, 184p, rus) **35-1627**

Landscape types of the Baykal Amur railroad area Kuz'min, V.A., (1980, p.11-98, rus) **35-1629**

Landscape types in the Muya River Basin Nefed'eva, I.G., (1980, p.125-139, rus) **35-1631**

Revegetation of burned areas in North Ural taiga Kirsanov, V.A., (1976, p.104-113, rus) **35-1919**

Soil formation in alpine tundra and taiga Makeev, A.O., et al, (1980, p.30-31, rus) **35-2262**

Cryogenic processes in mountain and lowland soils Khavkina, N.V., et al, (1980, p.51-53, rus) **35-2268**

Cryogenic mountain-forest soils Molokov, V.A., et al, (1980, p.167-169, rus) **35-2306**

Geocryology of the Khangay Mountains (Mongolia) Chigir, V.G., (1980, p.175-177, rus) **35-2310**

Hydrothermal regimes of mountain taiga soils Khudiakov, O.I., (1980, p.177-178, rus) **35-2311**

Soils of mountain *Pinus sibirica* forests in Central Siberia, Zueva, K.G., (1980, 172p., rus) **35-2330**

Mountains

Meteorological conditions and mudflow forecasting in Tibet Zhang, S., (1980, p.41-47, chi) **35-125**

Designing overhead power lines for mountains Tikhanova, O.P., et al, (1980, p.49-53, rus) **35-311**

Mathematical models of snow cover formation Konovalov, V.G., (1980, p.3-10, rus) **35-710**

Landscape-climatic charts of Buryatiya Ivanov, G.M., et al, (1976, p.18-36, rus) **35-801**

Snow surveys for avalanche forecasting Troshkina, E.S., (1980, p.57-61, rus) **35-879**

Mountain forests of the Baykal Amur railroad zone Panarin, I.I., et al, (1980, 224p., rus) **35-936**

Measuring water vapor condensation on snow fields Higuchi, K., et al, (1980, p.118-121, rus) **35-1239**

Complex geographic studies and the development of mountainous regions Gvozdetskii, N.A., ed, (1980, 150p., rus) **35-1435**

Climatic problems of mountainous regions in the USSR Bagdasarian, A.B., (1980, p.29-36, rus) **35-1436**

Role of glaciological investigations in the studies and development of mountainous regions Kotlıakov, V.M., et al, (1980, p.37-40, rus) **35-1437**

Water resources of mountains Lvovich, M.I., et al, (1980, p.50-65, rus) **35-1438**

Altitudinal zonation of mountain vegetation in the USSR Stanukovich, K.V., (1980, p.74-81, rus) **35-1440**

Environmental protection of mountain landscapes Makunina, A.A., et al, (1980, p.107-119, rus) **35-1441**

Observation of snow depth in Tesbio mountainous region Aburakawa, H., (1978, p.175-178, jap) **35-1554**

Insects on snowfields of Mt. Rainier, Washington Mantı, D.H., et al, (1980, p.359-368, eng) **35-1671**

Weathering in some arctic-alpine soils Ellis, S., (1980, p.371-385, eng) **35-1709**

Periglacial levels in high mountains of Europe and North Africa Poser, H., ed, (1977, 354p, ger) **35-1730**

Military winter training in taiga Titov, A., (1978, p.31-35, rus) **35-2450**

Revegetation in mountain taiga Nazimova, D.I., et al, (1980, p.54-87, rus) **35-2477**

Wind velocities in the Asiatic USSR Durnev, V.F., (1980, p.196-210, rus) **35-2492**

Satellite information for studying snow cover dynamics, Tsarev, B.K., (1980, p.15-20, rus) **35-2969**

Snow cover distribution in Transcaucasia Papinashvili, I.K., (1980, p.72-79, rus) **35-2987**

Relationships between snow distribution and climate in mountain areas Yamada, T., et al, (1981, p.109-118, eng) **35-3024**

Mountain alluvium in the Far East Korotkii, A.M., et al, (1979, p.94-117, rus) **35-3046**

Montane periglacial zone and its morphological lower limit Hagedorn, J., (1980, p.96-103, eng) **35-3303**

Space surveying methods for studying exogenic processes Plastinin, L.A., et al, (1981, p.22-26, rus) **35-3540**

Space survey data in flood forecasts Vostriakova, N.V., (1980, p.20-26, rus) **35-3546**

Snow and precipitation measurements in mountains for hydrologic forecasts Shentsis, I.D., (1980, p.103-112, rus) **35-3581**

Resemblances and differences in vegetation of the Alps and Caucasus Grebenshchikov, O.S., et al, (1981, p.333-352, fre) **35-3743**

Artificial taliks in permafrost areas Gol'dtman, V.G., et al, (1976, p.77-84, rus) **35-3833**

Geocryologic mapping of East Siberian mountains Lomovtseva, N.S., (1980, p.127-134, rus) **35-4002**

Forestry problems in permafrost areas Nikolaiuk, V.A., (1981, p.6-11, rus) **35-4276**

Economic development of mountain taiga Samoilov, T.P., et al, (1979, p.25-35, rus) **35-4308**

Biomass of Alaskan black spruce forests Van Cleve, K., (1979, p.28-36, rus) **35-4326**

Mud

Washing construction materials in freezing water Tantsman, M.A., et al, (1981, p.22-23, rus) **35-2845**

Mudflows

Forecasting glacial mudflows Chistiaev, V.B., (1978, p.64-84, rus) **35-71**

Glacial mud-rock flow in Baltbare Gully Cai, X., et al, (1980, p.22-25, chi) **35-83**

Meteorological conditions and mudflow forecasting in Tibet Zhang, S., (1980, p.41-47, chi) **35-125**

Mudflows, No.4 Vinogradov, IU.B., ed, (1980, 148p, rus) **35-203**

Mudflow forming processes Vinogradov, IU.B., (1980, p.3-19, rus) **35-204**

Mechanism of mudflow formation Stepanov, B.S., (1980, p.20-23, rus) **35-205**

Modeling the erosion-shear process Stepanov, B.S., (1980, p.31-35, rus) **35-206**

Forecasting rain-induced mudflows Kirenskaia, I.I., (1980, p.36-45, rus) **35-207**

Mudflow classification Vinogradov, IU.B., (1980, p.46-50, rus) **35-208**

Classification of mudflow formation foci Khomin, R.V., (1980, p.51-56, rus) **35-209**

Mudflows caused by breakthrough of morainal lakes Popov, V.I., et al, (1980, p.57-63, rus) **35-210**

Mudflow phenomena in the USSR Raushenbakh, I.O., (1980, p.90-102, rus) **35-212**

Mudflows triggered by glacial runoff Golubovich, V.A., (1980, p.103-106, rus) **35-213**

Formation of glacial mudflows Markov, I.N., et al, (1980, p.107-112, rus) **35-214**

Glacial mudflows and countermeasures Mochalov, V.P., et al, (1980, p.113-119, rus) **35-215**

Mudflow impact tests Bonarskii, I.IA., (1980, p.120-126, rus) **35-216**

Gamma-ray densimeters for mudflows Stepanova, T.S., (1980, p.136-140, rus) **35-217**

Avalanches and landslides along the Baykal Amur railroad Perov, V.F., ed, (1980, 189p, rus) **35-252**

Mudflow formation in high mountains Vinogradov, V.A., (1980, p.82-85, rus) **35-455**

Avalanche formation in Transbaikal Alekseev, V.R., et al, (1972, p.40-49, rus) **35-761**

Using cosmic radiation in monitoring mudflows Dubinchuk, V.T., (1980, p.85-89, rus) **35-774**

Soviet glaciological studies in 1979 Kotlıakov, V.M., et al, (1980, p.5-13, rus) **35-1219**

Protective measures in glacial mudflow areas Fleishman, S.M., (1980, p.268-271, rus) **35-1257**

Complex geographic studies and the development of mountainous regions. Gvozdetskii, N.A., ed. (1980, 150p., rus) 35-1435
Slope processes control in mountains. Tushinskii, G.K., et al. (1980, p.66-73, rus) 35-1439
Modeling mudflow processes. Stepanov, B.S., et al. (1980, p.3-9, rus) 35-1799
Transportation-shear mudflow process. A model with concentrated parameters. Vinogradov, Iu.B., et al. (1980, p.10-12, rus) 35-1800
Mathematical model of mudflow movement. Stepanov, B.S. (1980, p.13-16, rus) 35-1801
Calculating mudflow density. Stepanova, I.S. (1980, p.17-26, rus) 35-1802
Morphologic peculiarities of mudflow foci. Khomin, R.V. (1980, p.27-33, rus) 35-1803
Mapping the areas of glacial mudflows. Khomin, R.V. (1980, p.34-41, rus) 35-1804
Glacial mudflows produced by volcanic activity. Balabaev, I.G., et al. (1980, p.42-48, rus) 35-1805
Ultimate densities of mudflow masses. Stepanov, B.S. (1980, p.59-63, rus) 35-1808
Experimental site "Chemolgan-78" for mudflow studies. Kirenskaia, I.I., et al. (1980, p.64-71, rus) 35-1809
Motion picture technique of studying mudflow kinematics. Gavrishina, I.N. (1980, p.72-77, rus) 35-1810
Slope and stream erosion in source areas of dispersed mudflows. Golubovich, V.A., et al. (1980, p.78-81, rus) 35-1811
Determining density of loose clastic deposits in outcrops. Tsukerman, I.G. (1980, p.82-94, rus) 35-1812
Seismic mudflow-alarm systems. Krasilnikov, V.A. (1980, p.95-100, rus) 35-1813
Seismic signal device for mudflow danger. Kovalenko, P.I., et al. (1980, p.101-110, rus) 35-1814
Mudflows in relation to climate and topography, Canadian Rocky Mts. Owens, I.F. (1974, p.313-318, eng) 35-1949
Glacial mudflow in Central Asia. Nikitin, A.M., et al. (1980, p.107-110, 175-178, rus) 35-2826
Temporary bridges in permafrost areas. Rasskazov, I.D., et al. (1981, p.7-8, rus) 35-2843
Mudboil pattern disruption due to airstrip construction at North Henik Lake. Eggington, P.A. (1981, p.299-303, eng) 35-3087
Development and prospects of space glaciology. Kotlyakov, V.M. (1981, p.7-15, rus) 35-3539
Glacial mudflows in Pamirs. Kemmerikh, A.O. (1978, p.307-309, eng) 35-3686
Mud-rock flows in the vicinity of Batura Glacier. Cai, X., et al. (1980, p.146-152, chi) 35-4035
Some nonsorted patterned ground types in northern Canada. Zoltai, S.C., et al. (1981, p.139-151, eng) 35-4088
Glacial mudflows in Altai Mountains. Vinogradov, V.A. (1981, p.87-92, rus) 35-4304

Municipal engineering

Utilities delivery in northern regions (1980, 542p., eng) 35-2107
Snow-modelling techniques at Baker Lake, N.W.T. Adam, K.M., et al. (1980, p.394-408, eng) 35-2130
Waterworks systems, Yellowknife, Northwest Territories. Prentice, J.R., et al. (1980, p.409-425, eng) 35-2131
Large scale development of remote housing in subarctic areas. Robertson, W.A., et al. (1980, p.426-438, eng) 35-2132
Water and sewer utilities for Barrow, Alaska. Leman, L.D. (1980, p.484-506, eng) 35-2135
New approaches to water and sewer services in permafrost area. Norman Wells, N.W.T. Irwin, W.W. (1980, p.507-542, eng) 35-2136
Pothole primer, a public administrator's guide to understanding and managing the pothole problem. Eaton, R., coord. (1981, 24p., eng) 35-2758
Earthwork under urban construction conditions. Sadakov, I.P., et al. (1981, 256p., rus) 35-3962

Naleds

Conference on climate, relief and human activities (1978, 155p., rus) 35-11
Spaceborne surveys of naled development. Gavrilov, A.B., et al. (1978, p.101-102, rus) 35-17
Aufeis (overflow ice) in rivers. Grey, B.J., et al. (1979, p.139-163, eng) 35-409
Theory of aufeis and streambed erosion. Carlson, R.F. (1979, p.197-205, eng) 35-413
Measuring peak runoff at culverts on the interior plains. Doyle, P.F. (1979, p.390-402, eng) 35-425
Controlling runoff from naleds. Kemmerikh, A.O. (1980, p.20-25, rus) 35-467
Soviet glaciological studies in 1979. Kotlyakov, V.M., et al. (1980, p.5-13, rus) 35-1219
Seminar on the studies of naleds. Alekseev, V.R., et al. (1980, p.272, rus) 35-1258
Water balance of northern swamps. Ershova, I.M. (1977, p.39-47, rus) 35-1293
Hydrometeorological provisions for the Baykal-Amur railroad. Dobroumov, B.M., et al. (1980, p.3-10, rus) 35-1791
Formation of ground water naleds. Sokolov, B.L. (1980, p.74-90, rus) 35-1797
Topography development under monsoon and continental climates. Kotelkin, V.M., et al. (1976, p.124-138, rus) 35-1857
Hydrology. Grushevskii, M.S., ed. (1980, 177p., rus) 35-1865
Formation of large naleds. Kolotaev, V.N. (1980, p.37-45, rus) 35-1867
Naled disintegration by water streams. Markov, M.L. (1980, p.46-52, rus) 35-1868
Space-time variations of naled albedo. Deikin, B.N. (1980, p.53-60, rus) 35-1869
Calculating development of naleds. Popova, I.I. (1980, p.61-66, rus) 35-1870
Preventing naled formation near hydraulic structures. Merkulov, D.M. (1981, p.38-39, rus) 35-2082
Road construction in naled areas. Nevskii, S.D. (1981, p.41-42, rus) 35-2087
Filter dam-culvert combinations for permafrost areas. Rabukhin, I.G. (1981, p.47-48, rus) 35-2089
Role of naleds in water balance of river basins. Lebedev, V.M., et al. (1980, p.86-93, rus) 35-2879
Identification of naleds on satellite photographs. Abakumenko, V.P., et al. (1980, p.75-82, rus) 35-2977
Evaluating riverbed processes using aerial photographs. Snishchenko, D.V. (1980, p.100-107, rus) 35-2980
Isotope method of studying permafrost hydrology. Afanasenko, V.E., et al. (1981, p.85-90, rus) 35-3299
Utilization of remote sensing in Alaskan permafrost studies. Hall, D.K. (1981, p.676-684, eng) 35-3442
Principles and methods of evaluating naled danger. Alekseev, V.R. (1980, p.117-122, rus) 35-3464
Polish Scientific Spitsbergen Expeditions, 1970-1974, Vol.2. (1977, 138p., eng) 35-3618
Sedimentary and geomorphological consequences of the naled occurrence. Cegla, J., et al. (1977, p.63-84, eng) 35-3622
Naled type of ice in front of some Spitsbergen glaciers. Baranowski, S. (1977, p.85-89, eng) 35-3623
Interrelationship between surface and ground water in the permafrost zone. Piguzova, V.M., ed. (1980, 146p., rus) 35-3988
Relations between ice of different origin. Sheinkman, V.S. (1980, p.97-103, rus) 35-3999
Relationships between different genetic types of ground ice. Khimovskii, I.V., et al. (1980, p.103-114, rus) 35-4000
Physical mechanics of aufeis growth. Kane, D.L. (1981, p.186-195, eng) 35-4219
Forestry problems in permafrost areas. Nikolaiuk, V.A. (1981, p.6-11, rus) 35-4276

Natural gas

Gas dehydration equipment on northern fields. Zibert, G.K., et al. (1980, p.2-3, rus) 35-627
Environmental impact statement, Prudhoe Bay oil field (1980, 27p., eng) 35-1166
Innovation in Arctic pipelining (1981, p.45-46, eng) 35-1961
Seismic evidence for a gas-bearing layer in Prudhoe Bay. Boucher, G., et al. (1981, p.63-71, eng) 35-2419
Improving the reliability of reservoirs, gas tanks and their equipment. Verevkin, S.I., et al. (1980, 288p., rus) 35-2440
Barrow gas fields, N. Slope, Alaska. Lantz, R.J. (1981, p.197-200, eng) 35-2706
Preparation of gas from northern fields for distant transportation. Gukhman, L.M. (1980, 161p., rus) 35-2949
Glaciation effect on migration and accumulation of hydrocarbons. Tsarev, V.P. (1980, 213p., rus) 35-2955
Gas permeability of permafrost in the Vilyuy watershed area. Olovin, B.A., et al. (1980, p.83-90, rus) 35-3320
[illegible] of AMOP physical gas extraction studies. Thornton, D.E. (1980, p.3-5, eng) 35-3868
Proposed study of oil and gas under ice. Pistruzak, W.M. (1980, p.37-46, eng) 35-3873
Disposition of gas oil mixtures trapped under ice. Topham, D.R. (1980, p.55-73, eng) 35-3875

Natural resources

Research priorities for Arctic ships. Voelker, R.P. (1979, p.571-581, eng) 35-181
Report to POAC 79 from the SRLCOR on offshore activities in Labrador. Denner, W.W. (1979, p.583-602, eng) 35-182
Bibliography of the publications on the Alaskan continental shelf. (1980, 177p., eng) 35-847
Problems of the North; a current bibliography (1980, 3 volumes, rus) 35-858
Problems of the North; a current bibliography. (1980, 198p., rus) 35-859
Petroleum industry impact on Alaska's south shore. Jackson, J.B., et al. (1980, 78p., eng) 35-861
Forestry resources in the Baykal-Amur Railroad region. Il'ina, L.N. (1980, 12p., eng) 35-978
Control of recoverable natural resources of the Far North, USSR. Gel'berg, M.G., et al. (1980, 45p., eng) 35-979
Review of technology for Arctic offshore oil and gas recovery, Vol.1. Sackinger, W.M. (1980, 95p., eng) 35-1061
Report of the Workshop on Arctic Oil and gas Recovery, 1980. Sackinger, W.M. (1980, 38p., eng) 35-1062
Environmental impact statement, Prudhoe Bay oil field (1980, 27p., eng) 35-1166
Burning coal in Alaska: a winter experience. Abegg, J. (1980, 9p., eng) 35-1187
Economic development of the Far North. Krasnopol'skii, B.Kh. (1980, 145p., rus) 35-1280
Changes induced by stream flow diversion in Siberia. Bachurin, G.V. (1980, p.52-56, rus) 35-1334
Abstracts of papers from the 31st Alaska Science Conference, 1980 (1980, 148p., eng) 35-1469
Marine glaciology of Greenland and prospects of oil production. Brochu, M. (1980, p.77-81, ita) 35-1674
Engineering geology of East Siberia. Leshchikov, F.N., et al. (1980, p.45-53, rus) 35-1704
Developments in Alaska in 1979. Jones, B.C. (1980, p.1345-1353, eng) 35-1775
Environmental impact of WW II debris cleanup in southern Alaska (1979, 272p. + 1 Vol. of appends., eng) 35-1816
Environments of the Alaskan Continental Shelf (1980, 313p., eng) 35-1827
Offshore engineering information sources. Whittick, J.A. (1980, 34p., eng) 35-1879
Canadian Arctic: the promise. Edmiston, K. (1981, p.35-37, eng) 35-1959
Student science training program, Juneau icefield, Alaska, 1979. Miller, M.M., et al. (1979, 15p., eng) 35-2016
Implications of alternative national energy policies for tundra ecosystems. Schofield, E.A. (1980, p.274-296, eng) 35-2316
Partial redirection of Siberian rivers. Neishtadt, M.I., et al. (1979, p.114-120, rus) 35-2328
Seismic evidence for a gas-bearing layer in Prudhoe Bay. Boucher, G., et al. (1981, p.63-71, eng) 35-2419
Changes in Arctic natural conditions due to human activities. Treshnikov, A.F. (1980, p.4-7, rus) 35-3104
Environmental assessment of the Alaskan continental shelf, Vol.7: Biological studies (1981, 678p., eng) 35-3253
Cook Inlet environment, a background study of available knowledge. Evans, C.D., et al. (1972, 136p., eng) 35-3359
Current extractive industrial development, North America. Bliss, L.C., et al. (1981, p.751-771, eng) 35-3399
United States Arctic science policy. Hickok, D.M., et al. (1981, 62p., eng) 35-3738
Icebergs on the Grand Banks, oil and gas considerations. Lewis, J., et al. (1981, p.109-114, eng) 35-4014
Development of natural resources in the North. Vdovina, I.I. (1978, p.32-38, rus) 35-4112
Production of construction materials in the North. Krivoshapkin, A.I., et al. (1978, p.68-71, rus) 35-4113
U.S. Geological Survey in Alaska, 1981 programs. Reed, K.M., ed. (1981, 111p., eng) 35-4225

Navigation

Forecasting wind conditions in the North Atlantic Ocean. Birman, B.A., et al. (1980, p.14-37, rus) 35-29
Extreme winds in the North Pacific. Gorbach, I.V. (1980, p.38-53, rus) 35-30
Southcentral region of Alaska deep-draft navigation study (1981, c140p. + 10 appends., eng) 35-3674

Neutrons

Continuous monitoring of snow water equivalent using cosmic ray neutrons. Kodama, M. (1980, p.295-303, eng) 35-747

New Zealand

Winter avalanche activity and weather in a Canterbury alpine basin. McNulty, D., et al. (1980, p.103-111, eng) 35-2341
Adjustment to avalanche hazard in New Zealand. Prowse, T.D., et al. (1981, p.25-31, eng) 35-4299

Nival relief

Nivation cirques and rivers as self-organizing systems. Armand, A.D. (1980, p.3-15, rus) 35-778

Nivation

Conference on climate, relief and human activities (1978, 155p., rus) 35-11
Problems of the relations between climatic zones and exogenic relief formation. Aseev, A.A., et al. (1978, p.9-21, rus) 35-12
Development of gullies under different climatic conditions. Liubimov, B.P. (1978, p.71-73, rus) 35-13
Formation and movements of rock streams. Tiurin, A.I., et al. (1978, p.104-106, rus) 35-19
Nivation and nival niches. Vyrkin, V.B. (1978, p.152-154, rus) 35-21
Development of bald mountain landscapes. Nikonova, R.I., et al. (1978, p.154-155, rus) 35-22
Nivation cirques and rivers as self-organizing systems. Armand, A.D. (1980, p.3-15, rus) 35-778
Heat and mass transfer in the glacier-snow field system. Mazo, V.L. (1980, p.74-79, rus) 35-1229
Measuring water vapor condensation on snow fields. Higuchi, K., et al. (1980, p.118-121, rus) 35-1239
Role of glaciological investigations in the studies and development of mountainous regions. Kotlyakov, V.M., et al. (1980, p.37-40, rus) 35-1437
Transitional forms of glaciation. Ivanov, N.I. (1970, p.245-263, rus) 35-1573
Freeze-thaw activity at a nivation site in northern Norway. Hall, K. (1980, p.183-194, eng) 35-1660

Nivation (cont.)

Process in geomorphology. Embleton, C., ed. (1979, 436p. eng) **35-1684**

Nival processes. Embleton, C. (1979, p.307-324, eng) **35-1689**

Climatic geomorphology of the Far East. Kapitsa, A.P., ed. (1978, 144p., rus) **35-1850**

Climate and topography of Wrangel Island. Skryl'nik, G.P. (1976, p.20-43, rus) **35-1851**

Erosion of northern sea shores. Archikov, E.I., et al. (1976, p.50-56, rus) **35-1852**

Topography developing processes in northern taiga. Nikol'skaia, V.V., et al. (1976, p.81-85, rus) **35-1854**

Cryogenic processes in Sikhote-Alin. Korotkii, V.M. (1976, p.100-123, rus) **35-1856**

Topography development under monsoon and continental climates. Korotkii, V.M., et al. (1976, p.124-138, rus) **35-1857**

Geoecology of the Colorado Front Range. Ives, J.D., ed. (1980, 484p., eng) **35-1900**

Quantitative evaluation of nivation in the Colorado Front Range. Thorn, C.E. (1976, p.1169-1178, eng) **35-1901**

Geomorphological processes under different climatic conditions. Poser, H., ed. (1974, 439p., ger) **35-1942**

Some observations concerning nivation and snow melt in Swedish Lapland. Rudberg, S. (1974, p.263-273, eng) **35-1945**

Formation processes on snow patches in the Icelandic highlands. Schunke, E. (1974, p.274-286, ger) **35-1946**

Glacial and morphoclimatic indices of the Baykal Highlands. Vyrkin, V.B., et al. (1980, p.113-118, rus) **35-3479**

Glacial mudflows in Altai Mountains. Vinogradov, V.A. (1981, p.87-92, rus) **35-4304**

Noise (sound)

Inherent noise of the Antarctic glacier in the Novolazarevskaya Station area and acoustic attenuations. Gavrilo, V.P., et al. (1980, p.56-61, rus) **35-370**

Underwater acoustic emission of Antarctic icebergs. Gusev, A.V., et al. (1980, p.62-66, rus) **35-371**

Acoustic effects of breaking sea ice. Bogorodskii, P.V., et al. (1980, p.67-70, rus) **35-372**

Snowmobile noise regulations. Bumpass, D. (1980, 11p + appends., eng) **35-2856**

Acoustic emissions from unstable snow slopes. Sommerfeld, R.A. (1980, p.319-329, eng) **35-3141**

LNG carrier underwater noise study for Baffin Bay. Leggat, L.J., et al. (1981, 14p + 14 figs., eng) **35-4223**

Nomographs

Vessel icing - know where to expect it. Comiskey, A. (1976, p.6-7, eng) **35-3924**

Vessel icing forecasts. Ball, J. (1979, p.10-11, eng) **35-3925**

North Atlantic Ocean

Cooling tendency in the surface water of the North Atlantic Ocean. (1980, 3p., eng) **35-1729**

North Water

Infrared images of North Water during polar darkness. Dey, B. (1980, 425-438, eng) **35-1505**

Northwest Passage

What is the future of the Northwest Passage. Pharand, D. (1980, p.2-7, fre) **35-3640**

Norway

Wastage features of the inland ice sheet in central South Norway. Garnes, K., et al. (1980, p.251-269, eng) **35-2140**

Natural-hazard maps for land-use planning in Norway. Hestnes, E., et al. (1980, p.331-343, eng) **35-2376**

Exploration for disseminated lead in southern Norway. Bjorlykke, A., et al. (1973, p.111-126, eng) **35-2749**

—Spitsbergen

Radar sounding of Spitsbergen glaciers. Macheret, Iu.IA., et al. (1980, p.279-286, rus) **35-1260**

Trends in ice cover development in the Arctic Basin. Vasil'ev, S.V. (1972, p.69-70, rus) **35-2425**

Snow surveys in Spitsbergen. Troitskii, L.S., et al. (1980, p.185-192, rus) **35-2829**

Chemical composition of arctic haze Ny-Alesund, Spitzbergen. Heintzenberg, J., et al. (1981, p.162-171, eng) **35-3487**

Polish Scientific Spitsbergen Expeditions, 1970-1974. Vol 1. (1975, 196p., eng) **35-3608**

Climatic changes and the response of glaciers, W Spitsbergen. Baranowski, S. (1975, p.21-34, eng) **35-3609**

Meteorology and hydrology in the Hornsund region, Spitsbergen, 1970. Baranowski, S., et al. (1975, p.35-59, eng) **35-3610**

Polish Scientific Spitsbergen Expeditions, 1970-1974. Vol 2. (1977, 138p., eng) **35-3618**

Pleistocene glaciations on Svalbard. Punning, IA.-M.K., et al. (1981, p.20-26, eng) **35-3901**

—Svalbard

Airborne radio echo sounding of glaciers in Svalbard. Drewry, D.J., et al. (1980, p.261-266, eng) **35-943**

Flora of Svalbard. Ronning, O.I. (1979, 128p., nor) **35-4210**

Nuclear magnetic resonance

Studies of the temperature-dependence of the brine content of sea ice by the pulse NMR method. Mel'nichenko, N.A., et al. (1981, 6p., eng) **35-2589**

Unfrozen water content of subsea permafrost. Tice, A.R., et al. (1980, p.400-412, eng) **35-2755**

Nuclear power

Ice surveying methods and results. Borodachev, V.E., ed. (1981, 144p., rus) **35-3933**

Radar measurements of ice cover thickness in the Arctic Ocean. Finkel'shtein, M.I., et al. (1981, p.117-119, rus) **35-3958**

Scientific information to icebreakers in the Arctic Ocean. Aitkanen, A.I. (1981, p.137-139, rus) **35-3961**

Nucleating agents

Ice formation on silver iodide particles. Gorbunov, B.Z., et al. (1980, p.57-63, rus) **35-768**

Numerical simulation of ice-phase convective cloud seeding. Hsie, E.-Y., et al. (1980, p.950-977, eng) **35-885**

Hail cloud dissipation. Volkova, N.A., et al. (1980, p.4-50, rus) **35-1701**

Crystallization of precipitation droplets. Kovankova, ., P. (1975, p.72-76, rus) **35-1617**

Ice crystal formation on AgI particles. Medaliev, Kh.Kh., et al. (1975, p.107-113, rus) **35-1618**

Effect of aerosols on the ice-forming activity. Baklanov, A.M., et al. (1980, p.61-65, eng) **35-1778**

Ice forming properties of copper acetylacetonate. Aksenov, M.IA., et al. (1980, p.82-88, rus) **35-2697**

Assembly for measuring the size of ice-forming particles. Bchaev, S.F., et al. (1980, p.57-63, rus) **35-2865**

Ice forming properties of copper acetylacetonate. Chochishvili, K.M., et al. (1980, p.31-36, rus) **35-2871**

Mathematical model of ice aerosol evolution. Bakhanova, V.P., et al. (1980, p.41-50, rus) **35-2890**

Using silver iodide in cloud seeding. Bakhanova, R.V., et al. (1980, p.98-101, rus) **35-2992**

Free silver separating on AgI particles under ultraviolet irradiation. Bakhanova, R.A. (1980, p.102-106, rus) **35-2993**

Nucleation

Airborne equipment for sampling ice forming aerosols. Berezinskii, N.A., et al. (1980, p.105-110, rus) **35-771**

Effect of electric currents on ice crystal nucleation. Shichiri, T., et al. (1981, p.207-210, eng) **35-3850**

Nutrient cycle

Nitrogen and ash elements in taiga soils. Zaboloiskaia, T.G. (1974, p.64-69, rus) **35-693**

Nitrogen in cryogenic meadow soils. Korobtsev, I.I., et al. (1976, p.136-144, rus) **35-804**

Response to fertilization of Alaskan tundra plants. Shaver, G.R., et al. (1980, p.662-675, eng) **35-830**

Dynamics of NH4 and NO3 in cropped soils irrigated with wastewater. Iskandar, I.K., et al. (1980, 20p., eng) **35-872**

Forest-floor nitrogen dynamics in a birch ecosystem, Alaska. Van Cleve, K., et al. (1980, p.359-381, eng) **35-988**

Seasonal movement of nutrients in tundra plants. Chapin, F.S., III, et al. (1980, p.189-209, eng) **35-1169**

Chemical composition of litter decaying in northern swamps. Egorova, R.A., et al. (1980, p.135-155, rus) **35-1329**

Biologic cycle in bilberry-peat moss pine forests. Prokhorova, A.IA. (1972, p.30-36, rus) **35-1375**

Amount of litter produced by different taiga trees. Karpel', B.A. (1971, p.94-102, rus) **35-1395**

Water soluble substances in podsolized sandy and loam soils. Strelkova, A.A. (1979, p.3-22, rus) **35-1418**

Ecology of subarctic mire. Sonesson, M., ed. (1980, 313p., eng) **35-1479**

Supply and transport of mineral nutrients in a subarctic mire. Malmer, N., et al. (1980, p.63-95, eng) **35-1474**

Diurnal dry weight variation in some tundra plants. Flower-Ellis, J.G.K. (1980, p.139-162, eng) **35-1478**

Diurnal dry weight and matter variations in some tundra plants. Flower-Ellis, J.G.K. (1980, p.163-179, eng) **35-1479**

Nitrogen cycling in a subarctic ombrotrophic mire. Rosswall, T., et al. (1980, p.209-234, eng) **35-1482**

Biochemistry of cryogenic taiga soils. Nechaeva, E.G., et al. (1980, p.152-162, rus) **35-1632**

Description of tundra ponds. Hobbie, J.E. (1980, p.19-50, eng) **35-1749**

Chemistry of sediments in tundra ponds. Prentki, R.T., et al. (1980, p.76-178, eng) **35-1751**

Modeling in the aquatic program of the tundra biome. Tiwari, J.L., et al. (1980, p.407-456, eng) **35-1757**

Mineral nutrition of brown lemmings. Barkley, S.A., et al. (1980, p.103-114, eng) **35-1786**

Arctic ecosystem: the coastal tundra at Barrow, Alaska. Brown, J., ed. (1980, 571p., eng) **35-1929**

Photosynthesis of tundra plants. Tieszen, L.L., et al. (1980, p.102-139, eng) **35-1933**

Control of tundra plant allocation patterns and growth. Chapin, F.S., III, et al. (1980, p.140-185, eng) **35-1934**

Detritus-based trophic system in coastal tundra. MacLean, S.F., Jr. (1980, p.411-457, eng) **35-1940**

Carbon and nutrient budgets and their control in coastal tundra. Chapin, F.S., III, et al. (1980, p.458-482, eng) **35-1941**

Biologic productivity and nutrient cycles of cryogenic soils. Gershevich, E.G. (1980, p.183-186, rus) **35-2312**

Chemistry of pine forest soils. Kulagina, M.A. (1980, p.98-112, rus) **35-2481**

Nitrogen regimes of taiga soils. Il'dinseva, L.I. (1971, p.61-62, rus) **33-2611**

Annual chemical element cycle of central taiga. Rusanova, G.V., et al. (1971, p.62-63, rus) **35-2612**

Nitrogen and ash-elements in northern forest soils. Morozova, R.M., et al. (1970, p.93-94, rus) **35-2618**

Nutrient allocation and responses to defoliation in tundra plants. Chapin, F.S., III. (1980, p.553-563, eng) **35-3205**

Biological studies on the Alaskan continental shelf, 1980. (1981, 359p., eng) **35-3252**

Analysis of processes of primary production in tundra growth forms. Tieszen, L.L., et al. (1981, p.285-356, eng) **35-3384**

Nutrients in tundra ecosystems. Dowding, P., et al. (1981, p.647-683, eng) **35-3395**

Plant growth on a gravel soil: greenhouse studies. Palazzo, A.J., et al. (1981, 8p., eng) **35-3692**

Modeling nitrogen transport and transformations in soils: 2. Validation. Iskandar, I.K., et al. (1981, p.303-312, eng) **35-4080**

Modeling N transport and transformations in soils. Selim, H.M., et al. (1981, p.233-241, eng) **35-4081**

Growth and phosphate absorption in tundra plants. Chapin, F.S., III. (1981, p.83-94, eng) **35-4086**

Ocean bottom

Geophysical survey of Greenland continental shelf. Brett, C.P., et al. (1979, 29p., eng) **35-111**

Marine environments in Boca de Quadra and Smeaton Bay, Alaska, 1979. Burrell, D.C., et al. (1980, 134p., eng) **35-490**

Hydrodynamic effects on iceberg gouging. Lopez, R., et al. (1981, p.55-61, eng) **35-2418**

Seismic evidence for a gas-bearing layer in Prudhoe Bay. Boucher, G., et al. (1981, p.63-71, eng) **35-2419**

Ice scour studies on the Labrador shelf. Lewis, C.F.M., et al. (1980, p.264-265, eng) **35-3097**

Gases in sediments of Norton Sound, Alaska. Kvenvolden, K.A., et al. (1981, p.244-250, eng) **35-3240**

Thermogenic gases in near surface sediments of Norton Sound, Alaska. Nelson, H., et al. (1981, p.251-260, eng) **35-3241**

Distribution of gas-charged sediments in Norton Basin, Bering Sea. Holmes, M.L., et al. (1981, p.261-287, eng) **35-3242**

Deposition and erosion on the inner shelf, N.E. Bering Sea. Hunter, R.E., et al. (1981, p.332-267, eng) **35-3245**

Bottom sediment in the northern Bering Sea. Olsen, H.W., et al. (1981, p.389-419, eng) **35-3247**

Faulting in Norton Sound and Chirikov Basin, Alaska. Johnson, J.L., et al. (1981, p.420-444, eng) **35-3248**

Distribution of trace elements in bottom sediments, northern Bering Sea. Larsen, B.R., et al. (1981, p.445-567, eng) **35-3249**

Prediction of offshore permafrost conditions. Smit., P.A., et al. (1981, p.159-255, eng) **35-3257**

Ice scoring on the inner shelf of the Beaufort Sea, Alaska. Reanc, D., et al. (1981, p.318-332, eng) **35-3264**

Super sea-ice kettles in the arctic nearshore zone, Reindeer Island. Reimnitz, E., et al. (1981, p.344-355, eng) **35-3266**

Ocean basins and margins. Volume 5: The Arctic Ocean. Nairn, A.E.M., ed. (1981, 672p., eng) **35-3431**

Environmental geology of Shelikof Strait, OCS state area 60, Alaska. Hampton, M.A., et al. (1981, p.19-34, eng) **35-3456**

Ocean currents

Passive radiometry of the ocean from space - an overview. McClain, E.P. (1980, p.7-24, eng) **35-160**

On the drift ice conditions in the Atlantic sector of the Antarctic. Vinje, T.E. (1979, p.75-82, eng) **35-164**

Wave-wave and wave-current interactions in deep water. Kjeldsen, S.P. (1979, p.179-200, eng) **35-170**

Temperature fluctuations in the Central Arctic Basin. Bogorodskii, P.V., et al. (1980, p.101-104, rus) **35-378**

Marine environments in Boca de Quadra and Smeaton Bay, Alaska, 1979. Burrell, D.C., et al. (1980, 134p., eng) **35-490**

Circulation studies in Kachemak Bay and Lower Cook Inlet. Burbank, D.C. (1977, 207p., eng) **35-491**

Physical properties of sea ice and under-ice current orientation. Kovacs, A., et al. (1980, p.109-153, eng) **35-550**

Oceanic boundary-layer features and oscillation at drift stations. McPhee, M.G. (1980, p.870-884, eng) **35-1059**

Nearshore hydrodynamics of an Arctic barrier island-lagoon system. Matthews, J.B. (1980, p.67-72, eng) **35-1152**

Subsurface currents in the Arctic Ocean. Belikov, I.N., et al. (1980, p.752-754, rus) **35-1386**

Slow waves at the surface of the Arctic Ocean. Fedorov, E.K., et al. (1980, p.1466-1468, rus) **35-1387**

Thermal regime of surface waters in the subarctic zone of the Pacific Ocean — Pokudov, V V , et al, [1980, 173p , rus] **35-1798**

Free drift of sea ice: a comparison of models — Gaskill, H S , et al, [1980, 132p , eng] **35-1845**

Hibernia and Ben Nevis seabed study, Polaris V Cruise report, June 1980 — Amos, C L , et al, [1980, 40p , eng] **35-1846**

Sea ice anisotropy, electromagnetic properties and strength — Kovacs, A , et al, [1980, 18p , eng] **35-1891**

Proceedings of the 1980 conference on the use of icebergs [1980, 136p , eng] **35-2196**

Variations in Southern Ocean surface circulation — Gordon, A L , [1980, p 57-61, eng] **35-2206**

Flow around icebergs — Foldvik, A , et al, [1980, p 67-70, eng] **35-2208**

Some satellite-tracked iceberg drifts in the Antarctic Ymje, J E , [1980, p 83-87, eng] **35-2211**

Investigations on the currents influencing iceberg motion — Dhaliwal, M , [1980, p 89-93, eng] **35-2212**

Global circulation model of ocean, atmosphere and sea ice — Washington, W M , et al, [1980, p 1887-1908, eng] **35-2472**

Geological, geochemical and geotechnical observations on the Bering Shelf, Alaska — Larsen, M C , et al, [1980, Var p , eng] **35-2538**

Topographic control of the polar front off southern Greenland — Sommerhoff, G , et al, [1979, p 63-69, ger] **35-2645**

Review of sea-ice weather relationships in the Southern Hemisphere — Ackley, S F , [1981, p 127-159, eng] **35-3026**

Observation of the east wind drift current using tracked icebergs — Ichchima, P , [1980, p 83, eng] **35-3187**

Interdisciplinary investigations in antarctic oceanography — Jacobs, S S , [1980, p 87-89, eng] **35-3189**

Circumpolar water masses — Gordon, A L , [1980, p 80-90, eng] **35-3190**

Oceanographic and geologic processes on the Beaufort Sea coast — Truett, J C , [1981, p 52-108, eng] **35-3254**

NORSEX project to study ice-ocean dynamics — Farrally, B A , et al, [1981, p 86-88, eng] **35-3436**

Marine geology and geotechnical engineering, OTC, 13th, 1981 [1981, 514p , eng] **35-3455**

Ice distribution and winter surface circulation, Kachemak Bay, Alaska — Gatto, L W , [1981, p 995-1001, eng] **35-3591**

Under-ice circulation in a shallow lagoon, Beaufort Sea — Matthews, J B , [1981, p 223-234, eng] **35-3698**

Ocean circulation, fronts and ice melting in the Chukchi Sea — Paquette, R G , et al, [1981, p 4215-4230, eng] **35-3911**

Polex-North-76 (scientific results) Part 2 — Treshnikov, A F , ed, [1979, 194p , rus] **35-4182**

Hydrologic observations in Laptev Sea — Gudkovich, Z M , et al, [1979, p 38-44, rus] **35-4187**

Ice transfer through the New Siberian straits — Gorbunov, R A , [1979, p 66-72, rus] **35-4189**

Turbulent structure of the Arctic Ocean — Behakov, I N , et al, [1979, p 116-120, rus] **35-4195**

Subarctic hydrologic front in the Pacific Ocean — Nadelnaev, A G , [1979, p 161-171, rus] **35-4198**

Geostrophic water circulation in the northeastern part of the Pacific Ocean — Kholmanov, V B , [1979, p 172-177, rus] **35-4199**

Currents in the northwestern Pacific Ocean — Khlopov, V V , et al, [1979, p 184-193, rus] **35-4200**

Ocean environments

Marine environments in Boca de Quadra and Smeaton Bay, Alaska, 1979 — Burrell, D C , et al, [1980, 134p , eng] **35-490**

Circulation studies in Kachemak Bay and Lower Cook Inlet — Burbank, D C , [1977, 207p , eng] **35-491**

Report of the Workshop on Arctic Oil and gas Recovery, 1980 — Sackinger, W M , [1980, 38p , eng] **35-1062**

Environmental assessment of the Alaskan continental shelf, TDP, FY81 — Weller, G , coord, [1980, 166p , eng] **35-2018**

Proceedings of the 9th Environmental Workshop on Offshore Hydrocarbon Development, 1980 [1980, 440p , eng] **35-3081**

Oceanic mechanisms for amplification of the 23,000-year ice-volume cycle — Ruddiman, W F , et al, [1981, p 617-627, eng] **35-3136**

Ocean waves

POAC '79, Trondheim, Norway, Aug 1979, Vol 3 [1979, 608p , eng] **35-161**

Wave-wave and wave-current interactions in deep water — Kjeldsen, S P , [1979, p 179-200, eng] **35-170**

Design of mound breakwaters in Arctic waters — Brunn, P , et al, [1979, p 265-274, eng] **35-176**

Random waves attack on a composite breakwater — Yamamoto, M , et al, [1979, p 275-288, eng] **35-177**

Flexural response of a tabular ice island to ocean swell — Goodman, D J , et al, [1980, p 23-27, eng] **35-2200**

Iceberg oscillations and ocean waves — Schwerdtfeger, P , [1980, p 63-65, eng] **35-2207**

Geological, geochemical and geotechnical observations on the Bering Shelf, Alaska — Larsen, M C , et al, [1980, Var p , eng] **35-2538**

Wave-ice interaction — Evans, D V , et al, [1968, 102p , eng] **35-2647**

Steel production structure for the Alaskan Beaufort Sea — Boaz, I B , et al, [1981, p 449-458, eng] **35-3452**

Ice force prediction using a limited driving force approach — Vivatrat, V , et al, [1981, p 471-485, eng] **35-3454**

Marine geology and geotechnical engineering, OTC, 13th, 1981 [1981, 514p , eng] **35-3455**

Bering Sea ice edge properties — Bauer, J , et al, [1980, p 2045-2055, eng] **35-3650**

Bering Sea ice-edge phenomena — Martin, S , et al, [1980, p 189-211, eng] **35-4140**

Oceanographic ships

Geostrophic water circulation in the northeastern part of the Pacific Ocean — Kholmanov, V B , [1979, p 172-177, rus] **35-4199**

Oceanographic surveys

Marine environments in Boca de Quadra and Smeaton Bay, Alaska, 1979 — Burrell, D C , et al, [1980, 134p , eng] **35-490**

Oceanic physics data report from Cambridge Bay, N W T , Sep 15 - Apr 1972 [1973, 267p , eng] **35-889**

Oceanography of the d'Iberville Fiord, N W T , Mar - Apr 1974 [1975, 139p , eng] **35-1058**

Oceanographic measurements in the Chukchi Sea, April- August 1977 — Garrison, G R , et al, [1979, 131p , eng] **35-1581**

Marine glaciology of Greenland and prospects of oil production — Brochu, M , [1980, p 77-81, ita] **35-1674**

Heat budgets of the Southeast Beaufort Sea for the years 1974 and 1975 — Lammers, E L , [1980, 204p , eng] **35-1777**

Cook Inlet environment: a background study of available knowledge — Evans, C D , et al, [1972, 136p , eng] **35-3359**

Physical environment of the eastern Bering Sea March 1979 — Salo, S A , et al, [1980, 119p , eng] **35-3469**

Radiophysical methods of sounding atmosphere and ocean surface from space — Gurvich, A S , et al, [1981, p 63-70, rus] **35-3542**

Eastern Bering Sea ice processes — Pease, C H , [1980, p 2015-2023, eng] **35-3647**

Calculating heat balance of the ocean surface — Zakabukovskii, A P , et al, [1979, p 136-138, rus] **35-4197**

Geostrophic water circulation in the northeastern part of the Pacific Ocean — Kholmanov, V B , [1979, p 172-177, rus] **35-4199**

Currents in the northwestern Pacific Ocean — Khlopov, V V , et al, [1979, p 184-193, rus] **35-4200**

Oceanography

Focus on polar research — Washburn, A L , [1980, p 643-652, eng] **35-250**

Sea Ice-75: Dynamical report — Udin, I , et al, [1976, 64p , eng] **35-531**

Bibliography of the publications on the Alaskan continental shelf [1980, 177p , eng] **35-847**

Environmental assessment of the Alaskan continental shelf, Apr-Dec 1979 [1980, 534p , eng] **35-1150**

Major physiographic features of the Arctic and Southern Oceans — Treshnikov, A F , et al, [1979, p 37-54, rus] **35-1399**

Oceanography of the northern Gulf of St Lawrence — Lewis, J B , et al, [1980, 52p , eng] **35-2011**

Environmental assessment of the Alaskan continental shelf, IDP, FY81 — Calder, J A , coord, [1980, 209p , eng] **35-2019**

Great Lakes ice data archive — Hoffman, C S , [1980, p 5-20, eng] **35-2158**

Symposium on Sea Ice Processes and Models, Seattle, Wa , 1977 — Pritchard, R S , ed, [1980, 474p , eng] **35-2167**

Oceanographic investigations in polar regions of the World Ocean — Blinov, N I , et al, [1980, 239p , rus] **35-2888**

Bibliography of the engineering and environments of Arctic coasts and seas [1977, 11p , eng] **35-3360**

Bristol Bay environment, a background study of available knowledge [1974, 858p , eng] **35-3550**

Arctic Ocean temperature, salinity and density, March-May 1979 — McPhee, M G , [1981, 20p , eng] **35-3706**

Oceanography of Canadian waters — LeBlond, P H , comp, [1978, p 207-233, eng] **35-3927**

Eastern Bering Sea shelf: oceanography and resources — Hood, D W , ed, [1980, 625p , eng] **35-4136**

Turbulent structure of the Arctic Ocean — Behakov, I N , et al, [1979, p 116-120, rus] **35-4195**

Subarctic hydrologic front in the Pacific Ocean — Nadelnaev, A G , [1979, p 161-171, rus] **35-4198**

Oceans

Oceanology from space — Burnitskii, V Kh , ed, [1980, 167p , rus] **35-1343**

Satellite measurements of ocean surface temperature — Staritsyn, D K , [1980, p 52-61, rus] **35-1345**

Processing the infrared satellite reconnaissance data — Staritsyn, D K , [1980, p.112-118, rus] **35-1347**

Major physiographic features of the Arctic and Southern Oceans — Treshnikov, A F , et al, [1979, p 37-54, rus] **35-1399**

Offshore drilling

Arctic technology [1980, p 145-218, eng] **35-51**

Eastern Arctic marine environmental study program — Loken, O H , [1979, p 139-152, eng] **35-168**

Underground technology for offshore hydrocarbon development in Antarctica — Splettstoesser, J F , [1979, p 233-245, eng] **35-173**

Evolution of ice research for offshore pack ice operations — O'Rourke, J C , [1979, p 441-495, eng] **35-179**

Report to POAC 79 from the SRI COR on offshore activities in Labrador — Denner, W W , [1979, p 583-602, eng] **35-182**

Offshore drilling of engineering-geological wells — Arkhangel'skii, I V , [1980, 263p , rus] **35-202**

Petroleum industry impact on Alaska's south shore — Jackson, J B , et al, [1980, 78p , eng] **35-861**

Review of technology for Arctic offshore oil and gas recovery, Vol 1 — Sackinger, W M , [1980, 95p , eng] **35-1061**

Permafrost beneath the Beaufort Sea near Prudhoe Bay, Alaska — Sellmann, P V , et al, [1980, p 35-48, eng] **35-1105**

Design of hydrostatically supported sand islands for Arctic drilling — Dowse, B E W , [1980, p 49-54, eng] **35-1106**

Sohio plans busy winter in Beaufort [1980, p 50-51, eng] **35-1133**

Developments in Alaska in 1979 — Jones, B C , [1980, p 1345-1353, eng] **35-1775**

Environments of the Alaskan Continental Shelf [1980, 313p , eng] **35-1827**

Offshore engineering information sources — Whittick, J A , [1980, 34p , eng] **35-1879**

Canadian Arctic - the promise — Edmiston, K , [1981, p 35-37, eng] **35-1959**

New rig for ice platform drilling — Gaude, F , et al, [1981, p 41-44, eng] **35-1960**

Dome makes rich discoveries despite severe environment [1981, p 46-48, eng] **35-1962**

Drilling fluids in the Prudhoe Bay oil fields [1980, p 31, eng] **35-2009**

Oil in sea ice — Lewis, E L , [1976, 26p , eng] **35-2247**

Proceedings of the 9th Environmental Workshop on Offshore Hydrocarbon Development, 1980 [1980, 440p , eng] **35-3081**

Proceedings of the workshop on research in the Labrador region, 1980 [1980, 410p , eng] **35-3090**

Ice conditions and offshore hydrocarbon production, Labrador Sea — Wright, B , et al, [1980, p 307-319, eng] **35-3100**

Economic development of Labrador due to oil recovery — House, J D , [1980, p 353-397, eng] **35-3101**

Conquering Alaska's Arctic drilling problems - Part 1 Operations — Moore, S D , [1981, p 79-82, 84-88, eng] **35-3210**

Dome's "kick tolerance" formula for safe Beaufort Sea drilling — Wilkie, D F , et al, [1981, p 33-36, eng] **35-3277**

Cook Inlet environment, a background study of available knowledge — Evans, C D , et al, [1972, 136p , eng] **35-3359**

Bibliography of the engineering and environments of Arctic coasts and seas [1977, 11p , eng] **35-3360**

Controlling iceberg roll stability during towing around drillships — Benedict, C P , et al, [1981, p 109-114, eng] **35-3446**

Iceberg detection for Canadian frontier production — Lewis, J C , et al, [1981, p 115-122, eng] **35-3447**

Potential schemes for offshore Labrador year round production — Wetzel, V F , et al, [1980, p 293-305, eng] **35-3631**

Offshore Technology Conference, 12th, 1980 Proceedings, Vol 4 [1980, 646p , eng] **35-3632**

Construction of artificial drilling islands in the Beaufort Sea — Boone, D J , [1980, p 187-195, eng] **35-3633**

Mooring systems and rig anchor release in drilling operations, Arctic — Lasch, J F , et al, [1980, p 339-344, eng] **35-3638**

Conquering Alaska's Arctic drilling problems - Pt 2 Drilling procedures — Moore, S D , [1981, p 90, 94, 96-100, eng] **35-3639**

Completion techniques and drilling rigs in Prudhoe Bay, Alaska — Moore, S D , [1981, p 96-100, eng] **35-3814**

Icebergs on the Grand Banks: oil and gas considerations — Lewis, J , et al, [1981, p 109-114, eng] **35-4014**

Offshore landforms

U S Geological Survey in Alaska, 1980 programs — Reed, K M , ed, [1980, 112p , eng] **35-131**

Morphology, sedimentation and oil spills near Kenai Peninsula and Montague I — Hayes, M O , et al, [1980 p 5-13, eng] **35-1151**

Forecasting of subsea permafrost conditions in Chukchi and Beaufort Seas — Hopkins, D M , et al, [1980 p 123-129, eng] **35-1155**

Offshore landforms along the Arctic coast — Damuth, J D , et al, [1980, p 77-84, rus] **35-1765**

Offshore structures

Arctic technology [1980, p 145-218, eng] **35-51**

POAC '79, Trondheim, Norway, Aug 1979, Vol 3 [1979, 608p , eng] **35-161**

Activities of the Norwegian Meteorological Institute in polar regions — Haland, I , [1979, p 153-178, eng] **35-169**

Shore crossing techniques for offshore pipelines in Arctic regions — Marcellus, R W , et al, [1979, p 201-215, eng] **35-171**

Offshore structures (cont.)

Underground technology for offshore hydrocarbon development in Antarctica. Splettstoesser, J.F., [1979, p.233-245, eng] **35-173**

Design of mound breakwaters in Arctic waters. Bruun, P., et al, [1979, p.265-274, eng] **35-176**

Random waves attack on a composite breakwater. Yamamoto, M., et al, [1979, p.275-288, eng] **35-177**

Floating platforms and excavations to protect subsea equipment from icebergs. Duval, J., et al, [1980, p.81-86, eng] **35-831**

Ice platform design related to strain measurements. Gold, L.W., [1980, p.564-565, fre] **35-837**

Report of the Workshop on Arctic Oil and gas Recovery, 1980. Sackinger, W.M., [1980, 38p, eng] **35-1062**

Design of hydrostatically supported sand islands for Arctic drilling. Dowse, B.E.W., [1980, p.49-54, eng] **35-1106**

Measurements of sea-ice stresses near grounded obstacles. Sackinger, W.M., et al, [1981, p.144-147, eng] **35-1107**

Development of a new type of model ice for refrigerated towing basins. Timco, G.W., et al, [1980, 31p, eng] **35-1588**

Innovation in Arctic pipelining. [1981, p.45-46, eng] **35-1961**

Island design proposed for "iceberg alley" fields. Robertson, F.P., et al, [1981, p.85-88, 93, eng] **35-2072**

Icebergs threaten offshore oil industry. Goblot, R., [1977, p.9-11, fre] **35-2422**

Superstructure icing study. Wise, J.L., et al, [1980, 10p + figs, eng] **35-2582**

Ice conditions and offshore hydrocarbon production, Labrador Sea. Wright, B., et al, [1980, p.307-319, eng] **35-3100**

Ice and offshore Arctic structures. OTC, 13th, 1981 [1981, 485p, eng] **35-3445**

Steel production structure for the Alaskan Beaufort Sea. Boaz, I.B., et al, [1981, p.449-458, eng] **35-3452**

Erosion prediction for exploration and production structures in the Arctic. Kobayashi, N., et al, [1981, p.459-470, eng] **35-3453**

Ice force prediction using a limited driving force approach. Vivatrat, V., et al, [1981, p.471-485, eng] **35-3454**

Marine geology and geotechnical engineering. OTC, 13th, 1981 [1981, 514p, eng] **35-3455**

Potential schemes for offshore Labrador year round production. Wetzel, V.F., et al, [1980, p.293-305, eng] **35-3631**

Offshore Technology Conference, 12th, 1980 Proceedings, Vol 4 [1980, 646p, eng] **35-3632**

Effect of pile-ups and rubble fields on ice-structure interaction forces. Bercha, F.G., et al, [1980, p.297-305, eng] **35-3634**

Development of ice resistant offshore structures. Oshima, M., et al, [1980, p.307-314, eng] **35-3635**

Offshore deck on a multiple leg ice resistant substructure. Khewer, R.M., et al, [1980, p.315-324, eng] **35-3636**

Superstructure icing in Alaskan waters. Wise, J.L., et al, [1980, 30p, eng] **35-3791**

Proceedings of the Workshop on Sea ice Field Measurement, St. John's, 1980 [1980, 360p, eng] **35-3835**

Tubular transducer for in situ stress measurements in sea ice. Frederking, R., [1980, p.165-192, eng] **35-3842**

OSI ice stress sensor. Johnson, J.B., et al, [1980, p.193-207, eng] **35-3843**

Field measurement of kinematic friction between ice and rigid structures. Comfort, G., et al, [1980, p.303-321, eng] **35-3847**

Instrumentation of a small island to measure pack ice forces. Jones, J.M., [1980, p.323-342, eng] **35-3848**

Ice force measurements in Finnish lighthouses. Maattanen, M., [1980, p.343-353, eng] **35-3849**

Glacier threatens shipping lanes. [1980, p.10-16, eng] **35-3854**

New idea to solve storage transport problems without pipelines. [1981, p.33-35, eng] **35-4126**

Experiments for marine structures in ice infested waters. Oshima, M., et al, [1981, p.21-28, jap] **35-4204**

Small prototype cone tests, winter 1974-75. Verity, P.H., [1975, 95p, + appends, eng] **35-4214**

Canadian field activities in ice engineering, Pt. 1. Nakawo, M., [1981, p.107-114, jap] **35-4270**

Bibliography of continental shelf development, Alaska. Rosier, K., [1977, 415p, eng] **35-4317**

Oil recovery

Thermal regime of oil deposits in Siberia. Grubov, I.A., [1975, p.70-75, rus] **35-398**

Thermal regime of oil-bearing rocks in Siberia. Nevskaia, N.M., [1975, p.102-105, rus] **35-399**

Environmental impact statement, Prudhoe Bay oil field [1980, 27p, eng] **35-1166**

Marine glaciology of Greenland and prospects of oil production. Brocha, M., [1980, p.77-81, ita] **35-1674**

Canadian Arctic: the promise. Edmiston, K., [1981, p.35-37, eng] **35-1959**

Dome makes rich discoveries despite severe environment [1981, p.46-48, eng] **35-1962**

Rigs in VANguard to slope. [1980, p.12, 14, eng] **35-2007**

Proceedings of the 9th Environmental Workshop on Offshore Hydrocarbon Development, 1980 [1980, 440p., eng] **35-3081**

Economic development of Labrador due to oil recovery. House, J.D., [1980, p.353-397, eng] **35-3101**

Conquering Alaska's Arctic drilling problems. Part 1: Operations. Moore, S.D., [1981, p.79, 82, 84, 88, eng] **35-3210**

Oil pumping stations in cold regions. Manasypov, F.S., [1981, p.33-34, rus] **35-4242**

Soil pollution by hydrocarbons. Solntseva, N.P., [1981, p.50-58, rus] **35-4278**

Oil spills

Oilspill risk analysis for the Kodiak Island (proposed sale 46). Samuels, W.B., et al, [1980, 40p + 22 appends, eng] **35-155**

POAC '79, Trondheim, Norway, Aug 1979, Vol.3 [1979, 608p, eng] **35-161**

Assessment of SAR for oil pollution surveillance in the ice environment. Parashar, S.K., et al, [1979, p.99-123, eng] **35-166**

Spilled oil retention potential. Beaufort Sea coast of Alaska. Nummedal, D., et al, [1979, p.247-253, eng] **35-174**

Oil in moving pack: laboratory study. Metge, M., et al, [1979, p.225-264, eng] **35-175**

Evolution of ice research for offshore pack ice operations. O'Rourke, J.C., [1979, p.441-495, eng] **35-179**

Report to POAC 79 from the SRLCOR on offshore activities in Labrador. Denner, W.W., [1979, p.583-602, eng] **35-182**

Oilspill in pack ice [1980, 231p., eng] **35-544**

Revegetation-restoration for the Trans-Alaska pipeline system. Hubbard, G.E., [1980, p.113-125, eng] **35-584**

Cold oil salvage pumps. Jolliff, J.V., et al, [1980, p.239-251, eng] **35-827**

Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979 [1980, 595p., eng] **35-846**

Impact of oil on the Kachemak Bay environment. Trasky, L.L., et al, [1977, 123p., eng] **35-888**

Port Valdez environmental studies: 1976-1978. Colonell, J.M., [1980, p.907-917, eng] **35-985**

Report of the Workshop on Arctic Oil and gas Recovery, 1980. Sackinger, W.M., [1980, 38p., eng] **35-1062**

Oil and ice in the Beaufort Sea. Wadhams, P., [1980, p.23-35, eng] **35-1114**

Oil spill control under ice cover. Sittig, M., [1978, 360p (pertinent p.307-310), eng] **35-1116**

Morphology, sedimentation and oil spills near Kenai Peninsula and Montague I. Hayes, M.O., et al, [1980, p.5-13, eng] **35-1151**

Oil spill effects on tundra ponds. Barsdate, R.J., et al, [1980, p.388-406, eng] **35-1756**

Arctic pipeline operation, a different world. Hale, D., ed, [1980, p.22-30, eng] **35-1874**

Crude oil spills on subarctic permafrost in interior Alaska. Johnson, L.A., et al, [1980, 67p., eng] **35-2001**

Microwave systems for detecting oil slicks in ice-infested waters. [1980, 63p., eng] **35-2106**

Oil in sea ice. Lewis, E.L., [1976, 26p., eng] **35-2247**

Volatile content of crude oil treated under different weathering conditions. Riley, R.G., et al, [1981, p.109-119, eng] **35-2937**

Proceedings of the 9th Environmental Workshop on Offshore Hydrocarbon Development, 1980. [1980, 440p., eng] **35-3081**

Proceedings of the workshop on research in the Labrador region, 1980. [1980, 410p., eng] **35-3090**

Perspective on oilspill modelling offshore Labrador. Noll, C.J., et al, [1980, p.21-32, eng] **35-3091**

Remote sensing of oil in sea ice. Goodie, G., [1980, p.33-52, eng] **35-3092**

Oil spill contingency plans; present status and future potential. Hunt, P., [1980, p.53-65, eng] **35-3093**

Effects of long term crude oil exposure on marine fish. Kiceniuk, J.W., [1980, p.212-222, eng] **35-3095**

Mixing oil with ice. Manning, A.P., Jr., [1981, p.185-189, eng] **35-3737**

Oil, ice and gas. [1980, 169p., eng] **35-3867**

Summary of AMOP oil-ice-gas interaction studies. Thornton, D.E., [1980, p.3-5, eng] **35-3868**

Countermeasures equipment for ice-covered ice-infested waters. Meikle, K.M., [1980, p.7-11, eng] **35-3869**

Problems presented by ice cover to oilspill clean-up in the Beaufort Sea. McGonigal, D., [1980, p.13-25, eng] **35-3870**

Research in oil, gas and ice at the University of Toronto. Mackay, D., et al, [1980, p.27-31, eng] **35-3871**

Ice and oil research at Hydraulics Research Division, NWRI. Tsang, G., [1980, p.33-35, eng] **35-3872**

Proposed study of oil and gas under ice. Pistruzak, W.M., [1980, p.37-46, eng] **35-3873**

Studies of oil spill behaviour under ice. Malcolm, J.D., [1980, p.47-54, eng] **35-3874**

Disposition of gas/oil mixtures trapped under ice. Topham, D.R., [1980, p.55-73, eng] **35-3875**

Aspects of oil-ice interaction subsequent to the Kurdistan spill. Reimer, E., [1980, p.75-86, eng] **35-3876**

Observations of oil behaviour in ice floes and the 1977 *Ethel H.* spill. Deslauriers, P.C., [1980, p.87-94, eng] **35-3877**

Field manual for cold-climate oil spills. Deslauriers, P.C., [1980, p.95-101, eng] **35-3878**

Transport and behaviour of a Prudhoe Bay oil spill. Pritchard, R.S., [1980, p.103-109, eng] **35-3879**

U.S. Coast Guard Arctic oil spill research program. Tebeau, P.A., et al, [1980, p.111-128, eng] **35-3880**

Alaskan Beaufort Sea Oilspill Response Body. Allen, A.A., [1980, p.129-132, eng] **35-3881**

Eastern Bering Sea shelf: oceanography and resources. Hood, D.W., ed, [1980, 625p., eng] **35-4136**

Anticipated oil-ice interactions in the Bering Sea. Martin, S., [1980, p.223-243, eng] **35-4142**

Oil storage

Improving the reliability of reservoirs, gas tanks and their equipment. Verevkin, S.I., et al, [1980, 288p., rus] **35-2440**

New idea to solve storage transport problems without pipelines. [1981, p.33-35, eng] **35-4126**

Oil wells

Vegetation of old oil wells on the Alaskan North Slope. Komarkova, V., et al, [1980, p.38-64, eng] **35-580**

Winter performance of hydraulic piston pumps. Kazak, A.S., [1980, p.44-45, rus] **35-1607**

Conquering Alaska's Arctic drilling problems. Part 1: Operations. Moore, S.D., [1981, p.79, 82, 84, 88, eng] **35-3210**

Completion techniques and drilling rigs in Prudhoe Bay, Alaska. Moore, S.D., [1981, p.96-100, eng] **35-3814**

Okhotsk Sea

Fire danger in different Far North landscapes. Snytkin, G.V., [1971, p.83-93, rus] **35-1394**

Erosion of northern sea shores. Archikov, E.I., et al, [1976, p.50-56, rus] **35-1852**

Divergence and rotation of an ice field off Okhotsk Sea coast of Hokkaido. Tabata, T., et al, [1980, p.273-282, eng] **35-2170**

Ice surveying from helicopters. Shatalin, N.V., [1981, p.32-40, rus] **35-3940**

Optical properties

Leaf ultraviolet optical properties in the arctic-alpine life zone. Robberecht, R., et al, [1980, p.612-617, eng] **35-829**

Organic nuclei

Ice forming properties of 1,5-dioxynaphthalene and phloroglucinol. Aksenov, M.IA., et al, [1980, p.68-75, rus] **35-2695**

Organic soils

Hydrologic role of shallow organic soils in cold climates. Slaughter, C.W., et al, [1979, p.380-389, eng] **35-424**

Chemical composition of litter decaying in northern swamps. Egorova, R.A., et al, [1980, p.138-155, rus] **35-1329**

Energy flow through the subarctic mire at Stordalen, Sweden. Svensson, B.H., et al, [1980, p.283-301, eng] **35-1485**

Arctic ecosystem: the coastal tundra at Barrow, Alaska. Brown, J., ed, [1980, 571p., eng] **35-1929**

Coastal tundra at Barrow. Brown, J., et al, [1980, p.1-29, eng] **35-1930**

Tundra soils and their nutrients. Gersper, P.L., et al, [1980, p.219-254, eng] **35-1936**

Activities and decomposition of tundra soil microflora. Flanagan, P.W., et al, [1980, p.291-334, eng] **35-1938**

Detritus-based trophic system in coastal tundra. MacLean, S.F., Jr., [1980, p.411-457, eng] **35-1940**

Carbon and nutrient budgets and their control in coastal tundra. Chapin, F.S., III, et al, [1980, p.458-482, eng] **35-1941**

Microbial ecology and decomposition in Arctic tundra and Subarctic taiga ecosystems. Flanagan, P.W., [1978, p.161-168, eng] **35-2177**

Production, assimilation and accumulation of organic matter in ecosystems. Batzli, G.O., [1974, p.205-217, eng] **35-2242**

Application of humus to exploration. Kokkola, M., [1977, p.104-110, eng] **35-2729**

Foundation construction on peat soils. Konovalov, P.A., [1980, 161p., rus] **35-2997**

Plant-eating animals and fertilization of tundra soils. McKendrick, J.D., et al, [1980, p.565-578, eng] **35-3206**

Physical and mechanical properties of frozen peat soils. Roman, L.T., [1981, 134p., rus] **35-3225**

Decomposition and accumulation of organic matter in tundra. Heal, O.W., et al, [1981, p.587-633, eng] **35-3393**

Organizations

From Chinese Society of Glaciology and Cryopedology [1980, p.72-79, chi] **35-2925**

Orientation

Dynamics of crevasse pattern at Lewis Glacier, Mount Kenya. Hastenrath, S., et al, [1979, p.201-207, eng] **35-3729**

Photogrammetric measurements of antarctic cirques in Victoria Valley. Aniya, M., et al, [1981, p.41-53, eng] **35-4019**

On the orientation of ice crystals in a cumulonimbus cloud. Cho, H.-R., et al, [1981, p.1111-1114, eng] **35-4043**

Origin

Origin of pingos in regions of thick permafrost, western Canadian Arctic. Pissart, A., et al, [1977, p.149-160, eng] **35-1884**

Genesis and development of patterned ground forms. Stingl, H., [1974, p.249-262, ger] 35-1944
Deglaciation and glacial lakes in Finnish Lapland. Seppala, M., [1980, p.311-319, eng] 35-2144
Hydrocarbon gases in near-surface sediment of N. Bering Sea. Kvenvolden, K.V., et al, [1981, p.215-243, eng] 35-3239
Genesis of tills and deglaciation in central Lappland. Mmell, H., [1979, 83p., 6 maps, eng] 35-3408
Surge moraines of the Klutlan Glacier, Yukon Territory, Canada. Wright, H.E., Jr., [1980, p.2-18, eng] 35-3714

Oscillations

Oceanic boundary-layer features and oscillation at drift stations. McPhee, M.G., [1980, p.870-884, eng] 35-1059
Measurements of oscillations and flexure of icebergs. Foldvik, A., et al, [1980, p.29-30, eng] 35-2201
Iceberg oscillations and ocean waves. Schwerdtfeger, P., [1980, p.63-65, eng] 35-2207
Inertial oscillations in ice floe motion, Beaufort sea. Khandekar, M.L., [1980, p.1-14, eng] 35-2457

Outwash

Sedimentary and geomorphological consequences of the naled occurrence. Cegla, J., et al, [1977, p.63-84, eng] 35-3622

Oxygen

Winter oxygen loss in three southern Ontario lakes. Jackson, M.B., [1980, p.149-159, eng] 35-47
Winter variations in water quality of arctic and subarctic rivers. Schreier, H., et al, [1980, p.1345-1351, eng] 35-113
Using liquid oxygen in artificial freezing of ground. Trupak, N.G., [1980, p.19-20, rus] 35-354
Factors controlling oxygen depletion in ice-covered lakes. Mathias, J.A., et al, [1980, p.185-194, eng] 35-1164
Oceanography of the northern Gulf of St. Lawrence. Lewis, J.B., et al, [1980, 52p., eng] 35-2011
Illustrations of biological roles of winter lake cover. Adams, W.P., [1980, p.1-18, eng] 35-3143
Soil oxygen flux in an Alaskan tussock tundra. Stuart, I., [1979, 95p., eng] 35-3766
Lake Erie in mid-winter. Burns, N.M., et al, [1978, p.134-141, eng] 35-4320

Oxygen isotopes

Estuarine salinity of Arctic seas. Brezgunov, V.S., et al, [1980, p.101-105, rus] 35-469
Oxygen-isotope analysis of Novolazarevskaya Glacier shelf ice cores. Gordienko, F.G., et al, [1980, p.85-90, rus] 35-2038
Ice core studies from Mt. Kenya, Africa. Thompson, L.G., [1981, p.55-62, eng] 35-3021
Climate into ice: the isotopic record in polar ice sheets. Robin, G. de Q., [1981, p.207-216, eng] 35-3031
Microparticle concentrations in the Dome C core. Thompson, L.G., et al, [1981, p.227-234, eng] 35-3033
Oxygen isotope balance in the Issyk-Kul' glacial basin. Brezgunov, V.S., et al, [1981, p.10-14, rus] 35-3297

Pacific Ocean

Eddy formation in oceanic Subarctic fronts. Bulatov, N.V., [1980, p.61-72, rus] 35-1346
Thermal regime of surface waters in the subarctic zone of the Pacific Ocean. Pokudov, V.V., et al, [1980, 173p., rus] 35-1798

Pack ice

Surface and geostrophic winds over pack ice. Feldman, U., et al, [1979, p.421-429, eng] 35-157
Oil in moving pack: laboratory study. Metge, M., et al, [1979, p.225-264, eng] 35-175
Overview on the seasonal sea ice zone. Weeks, W.F., et al, [1979, p.320-337, eng] 35-178
Evolution of ice research for offshore pack ice operations. O'Rourke, J.C., [1979, p.441-495, eng] 35-179
Oilspill in pack ice, [1980, 231p., eng] 35-544
Transport measurements in the Arctic ice-pack. Gebhart, B., et al, [1980, p.293-302, eng] 35-833
Variations of August ice cover in the Beaufort Sea. Dey, B., [1980, p.213-217, eng] 35-894
Oceanic boundary-layer features and oscillation at drift stations. McPhee, M.G., [1980, p.870-884, eng] 35-1059
Assessing several characteristics of antarctic ice. Botnikov, V.N., et al, [1980, p.88-92, rus] 35-1458
Melting of antarctic fast ice. Nazintsev, Iu.L., [1980, p.97-101, rus] 35-1460
Construction of reference points for pack ice melting studies. Nazintsev, Iu.L., [1980, p.102-103, rus] 35-1461
Direct measurement of the attenuation of ocean waves by pack ice. Squire, V.A., et al, [1980, p.365-368, eng] 35-1465
Mathematical model for dynamics of pack ice. Pai, S.I., et al, [1977, 23p., eng] 35-1592
Proceedings, [1980, 460p., eng] 35-2957
Construction of artificial island in the Beaufort Sea. Boone, D.J., [1980, p.231-247, fre] 35-2961
Sea-ice-atmosphere interactions in the Weddell Sea using drifting buoys. Ackley, S.F., [1981, p.177-191, eng] 35-3029
Lateral melting effect on the closeness of pack ice. Appel', I.I., et al, [1980, p.29-44, rus] 35-3491
Instrumentation of a small island to measure pack ice forces. Jones, J.M., [1980, p.323-342, eng] 35-3848
Aspects of oil-ice interaction subsequent to the Kurdistan spill. Reimer, E., [1980, p.75-86, eng] 35-3876
Ice surveying methods and results. Borodachev, V.E., ed, [1981, 144p., rus] 35-3933
Visual evaluation of sea ice packing. Borodachev, V.E., [1981, p.65-71, rus] 35-3947
Time dependence and optimal discreteness of ice packing observations. Bulavkin, V.M., [1981, p.72-75, rus] 35-3948
Optimal intervals between ice surveys in the Arctic. Bulavkin, V.M., [1981, p.76-78, rus] 35-3949
Peculiarities of spatial variations in ice packing. Losev, S.M., [1981, p.120-128, rus] 35-3959
Polex-North-76 (scientific results) Part 2. Treshnikov, A.F., ed, [1979, 194p., rus] 35-4182
Calculating heat spent for sea ice melting. Gudkovich, Z.M., [1979, p.21-27, rus] 35-4186
Changes in pack ice density due to dynamic processes. Gudkovich, Z.M., [1979, p.73-81, rus] 35-4190
Ice disintegration due to thermodynamic processes. Losev, S.M., [1979, p.82-91, rus] 35-4191
Dimensions of ice fields. Romanov, I.P., [1979, p.111-115, rus] 35-4194

Pakistan

Some achievement on mountain glacier researches in China. Yafeng, S., [1980, p.13-26, eng] 35-3660

Paleobotany

Recent deposits and Pleistocene paleogeography of Chukotskiy Peninsula. Kaplin, P.A., ed, [1980, 295p., rus] 35-3930
Cryogenic structure of the Amur River basin alluvium. Kostaev, A.G., et al, [1981, p.126-153, rus] 35-4077

Paleoclimatology

Studies in the Lateglacial of north-west Europe. Lowe, J.J., ed, [1980, 205p., eng] 35-796
Depositional deglaciation forms. Kurimo, H., [1980, p.179-191, eng] 35-838
Impending climatic change and the fate of glaciers. Grosval'd, M.S., et al, [1980, p.65-78, eng] 35-1006
Past and future of antarctic glaciation. Mlagkov, S.M., [1980, p.79-86, eng] 35-1007
Permafrost studies in northern Quebec. Taylor, A., et al, [1979, p.245-251, eng] 35-1042
Pleistocene bimodal response of antarctic ice. Drewry, D.J., [1980, p.214-216, eng] 35-1075
Giant solar flares in antarctic ice. Strothers, R., [1980, p.365, eng] 35-1076
Ice age theory and a climatic model. Pollard, D., et al, [1980, p.301-319, eng] 35-1167
Simple parameterization for ice sheet ablation rate. Pollard, D., [1980, p.384-388, eng] 35-1168
Soviet glaciological studies in 1979. Kotlıakov, V.M., et al, [1980, p.5-13, rus] 35-1219
Studying ice cores from glacier boreholes. Kotlıakov, V.M., et al, [1980, p.22-26, rus] 35-1222
Development of the antarctic ice sheet. Meier, S., [1980, p.348-351, 373-376, ger] 35-1415
Rapid ice-sheet growth and initiation of the last glaciation. Johnson, R.G., et al, [1979, p.119-134, eng] 35-1776
Permafrost active layer in the Sudety Mountains during the last glaciation. Jahn, A., [1981, p.29-42, eng] 35-1883
Undergraduate research participation program, Juneau icefield, Alaska, 1979. Williams, G.A., et al, [1980, 34p., eng] 35-2017
Last great ice sheets. Denton, G.H., ed, [1981, 484p., eng] 35-2062
Wastage features of the inland ice sheet in central South Norway. Garnes, K., et al, [1980, p.251-269, eng] 35-2140
Ice lobes during the deglaciation in Finland. Punkari, M., [1980, p.307-310, eng] 35-2143
Ancient permafrost and its content of clay minerals. Xing, Z., et al, [1980, p.39-44, chi] 35-2664
Ice melting during the Quaternary Period of Hei-lung-chiang River. Chiao, K., et al, [1979, p.61-66, chi] 35-2904
Late-glacial floras in eastern China. Kong, Z., et al, [1980, p.29-32, chi] 35-2915
Pleistocene glaciation of eastern China. Yan, Q., et al, [1980, p.52-57, chi] 35-2919
Sea level, ice and climatic change: Proceedings of the Symposium, 7-8 Dec. during the 17th General Assembly of IUGG, Canberra. Allison, I., ed, [1981, 471p., eng] 35-3017
Ice core studies from Mt. Kenya, Africa. Thompson, L.G., [1981, p.55-62, eng] 35-3021
Climatic role of snow covers. Kukla, G., [1981, p.79-107, eng] 35-3023
Climate into ice: the isotopic record in polar ice sheets. Robin, G. de Q., [1981, p.207-216, eng] 35-3031
Climatic evidence from Dome C ice core. Lorius, C., et al, [1981, p.217-225, eng] 35-3032
Microparticle concentrations in the Dome C core. Thompson, L.G., et al, [1981, p.227-234, eng] 35-3033
Soviet studies on glacier changes. Kotlıakov, V.M., et al, [1981, p.361-368, eng] 35-3039
Growth and retreat of ice sheets. Budd, W.F., et al, [1981, p.369-409, eng] 35-3040
Climatic change, ice sheets and sea level. Flohn, H., [1981, p.431-440, eng] 35-3041
Aspects of the glacial history of Bylot Island, District of Franklin. Klassen, R.A., [1981, p.317-326, eng] 35-3088
Deglaciation of the Coppermine River region, District of Mackenzie. St-Onge, D.A., et al, [1981, p.327-331, eng] 35-3089
Problems of Pleistocene paleogeography in glacial and periglacial regions. Velichko, A.A., ed, [1981, 251p., rus] 35-3293
Review of papers presented at the first CLIMANZ conference. Salinger, M.J., [1981, p.106-107, eng] 35-3365
Late Weichselian ice in West Norway. Sindre, E., [1980, 16p., eng] 35-3407
International forum of geocryologists. Mel'nikov, P.I., et al, [1979, p.109-119, rus] 35-3470
Paleoclimate model of Northern Hemisphere ice sheets. Birchfield, G.E., et al, [1981, p.126-142, eng] 35-3676
Ice-free Cretaceous? Results from climate model simulations. Barron, E.J., et al, [1981, p.501-508, eng] 35-3687
Paleolimnology of the Klutlan Glacier area, Canada. Bradbury, J.P., et al, [1980, p.149-168, eng] 35-3722
911 years of microparticle deposition at the South Pole. Mosley-Thompson, E., [1980, 134p., eng] 35-3809
Recent deposits and Pleistocene paleogeography of Chukotskiy Peninsula. Kaplin, P.A., ed, [1980, 295p., rus] 35-3930
History of permafrost development in the Timan-Ural area. Oberman, N.G., [1981, p.60-73, rus] 35-4069
Permafrost formation in Ural Mountains. Oberman, N.G., [1981, p.73-78, rus] 35-4070
Paleoclimatic reconstructions in West Siberia. Chekhovskii, A.L., et al, [1981, p.78-84, rus] 35-4071
Pleistocene permafrost in the Taz Peninsula. Belopukhova, E.B., [1981, p.92-96, rus] 35-4073
Permafrost of the Sibirskiye Uvaly swamps. Shamanova, I.L., [1981, p.97-101, rus] 35-4074
Cryogenic processes related to changes in paleogeographic conditions. Gravis, G.F., [1981, p.102-113, rus] 35-4075
Permafrost dynmaics in Transbaikal. Lakhtina, O.V., et al, [1981, p.133-125, rus] 35-4076

Paleoecology

Palynologic proof of glacier advances and retreats. Sopueva, A.S., [1980, p.173-176, rus] 35-3335
Recent deposits and Pleistocene paleogeography of Chukotskiy Peninsula. Kaplin, P.A., ed, [1980, 295p., rus] 35-3930
Permafrost formation in Ural Mountains. Oberman, N.G., [1981, p.73-78, rus] 35-4070

Paludification

Thermokarst processes in construction areas. Viatkina, I.IU., et al, [1978, p.103-104, rus] 35-18
Methodology of forecasting natural phenomena in Siberia. Druzhinin, I.P., ed, [1980, 144p., rus] 35-148
Grass lands in swampy taiga. Savchenko, I.V., [1980, p.3-14, rus] 35-959
Soils of drained forest swamps. Melent'eva, N.V., [1980, 127p., rus] 35-1134
Swamp-forest systems of Karelia and their dynamics. P'iavchenko, N.I., ed, [1980, 184p., rus] 35-1324
Drainage effect on northern swampy forests. P'iavchenko, N.I., et al, [1980, p.52-77, rus] 35-1325
Paluded spruce forests of Karelia. Medvedeva, V.M., et al, [1980, p.78-99, rus] 35-1326
Forest tundra swamps. Neishtadt, M.I., [1980, p.121-124, rus] 35-1340
Reclamation of paluded lands in permafrost areas. Kulikov, IU.N., [1976, p.6-8, rus] 35-1367
Changes in northern swamps due to river flow control. Ivanov, K.E., et al, [1980, p.90-105, rus] 35-1430
Significance of swamps in the biosphere (hydrologic aspects). P'iavchenko, N.I., ed, [1980, 176p., rus] 35-1442
Reclamation of north taiga lands. P'iavchenko, N.I., [1980, p.7-16, rus] 35-1443
Swamps of the West Siberian plain. Liss, O.L., et al, [1980, p.95-112, rus] 35-1444
Hydrology of northern swamps. Babikov, B.V., [1980, p.14-26, rus] 35-1861
Drainage systems for northern swamps. Panarin, M.N., et al, [1980, p.26-27, rus] 35-1862
Taiga vegetation in areas east of the Ural Mountains. Sannikov, S.N., [1976, p.124-165, rus] 35-1921
Biological studies in the northeastern European USSR. Getsen, M.V., ed, [1974, 235p., rus] 35-1924
Drainage of cryogenic soils in Karelia. Nesterenko, I.M., [1980, p.20-21, rus] 35-2259
Temperature and freezing of forest soils during drainage. Chesnokov, V.A., [1980, p.115-117, rus] 35-2292
Controlling hydrothermal regime of cryogenic soils. Konstantinov, V.D., et al, [1980, p.122-124, rus] 35-2294
Thermal properties of drained cryogenic soils. Efremov, S.P., et al, [1980, p.124-126, rus] 35-2295
Scientific conference of Karelian biologists. Komulainen, A.A., ed, [1970, 167p., rus] 35-2613
Paludification of northern morainal landscapes. Kozlova, R.P., [1970, p.46-47, rus] 35-2614

Paludification *(cont.)*

Drainage methods in permafrost areas. Stepanov, A.N., (1980, p.247-250, rus) **35-3059**

Reclamation of heavy paluded soils. Chernoukhov, A.M., (1980, p.250-253, rus) **35-3060**

Radiation balance of taiga geosystems. Mart'ianova, G.N., (1980, p.190-193, rus) **35-3481**

Land reclamation developments in permafrost areas. Chernenok, V.N., (1980, p.10-12, rus) **35-3537**

Evaluating fire danger in taiga from microwave radiation. Valendik, E.N., et al, (1980, p.14-19, rus) **35-3545**

Soils of the Konda-Sos'va Priob'ie. Sazonov, A.G., (1978, p.70-96, rus) **35-3823**

Interrelations between the components of forest and swamp ecosystems in the central taiga of the Ural area. Vasilevich, V.I., ed, (1980, 256p., rus) **35-3863**

High altitude vegetation of Sayan Mountains. Danilov, M.P., (1981, p.119-133, rus) **35-3895**

Transition zone between taiga and swamps. Armand, A.D., (1979, p.194-213, rus) **35-4125**

Integral methods of determining the parameters of one-dimensional consolidation. Bartolomei, A.A., et al, (1981, p.250-255, eng) **35-4151**

Pipeline construction in swampy permafrost areas. Ivantsov, D.M., (1981, p.13-16, rus) **35-4238**

Preparation of construction sites in cold regions. Pavlov, V.I., et al, (1981, p.23-25, rus) **35-4246**

Calculating foundations on saturated bases for dynamic loads. Krasnikov, N.D., et al, (1981, p.7-21, rus) **35-4288**

Tundra plants in the Okhotsk Sea area. Mazurenko, M.T., (1979, p.37-91, rus) **35-4327**

Palynology

Modern pollen spectra from forest tundra, Newfoundland, Canada. Davis, A.M., (1980, p.89-100, eng) **35-221**

Palynology of Pinedale sediments, Devlins Park, Boulder County, Colorado. Legg, T.E., et al, (1980, p.319-333, eng) **35-1668**

Transport of pollen and spores in the High Arctic. Kalugina, L.V., et al, (1981, p.27-32, eng) **35-3902**

Vegetation of Alaskan arctic slope. Walker, D.A., et al, (1981, p.153-172, eng) **35-4089**

Pamirs

Flank and frontal moraines of surging glaciers. Repin, A.G., (1980, p.209-212, rus) **35-2835**

Panels

Sand-concrete panels for building partitions. Isaenko, A.G., et al, (1980, p.19-21, rus) **35-502**

Modern design of modular buildings. Gel'man, E.A., (1980, p.61-66, rus) **35-604**

Building codes for winter construction (SNiP III-17-80). Kameiko, V.A., et al, (1980, p.16-18, rus) **35-613**

Wooden panel houses for cold regions. Syrtsov, G., (1980, p.46-49, rus) **35-928**

Porous fiberglass insulation used in modular construction. Mordukhovich, I.M., et al, (1981, p.17-19, rus) **35-2079**

Panel joint structures for cold regions. Cheremisov, K.M., et al, (1980, p.68-70, rus) **35-2102**

Modular construction in cold regions. Rubinshtein, A.B., (1981, p.24-25, rus) **35-2789**

Facings of dome-shaped structures built under severe climatic conditions. Lipnitskii, M.E., (1981, 136p., rus) **35-3864**

Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, F.V., ed, (1979, 133p., rus) **35-4055**

Asbestos-cement panels for buildings in cold regions. Kozhevnikov, I.G., (1979, p.77-80, rus) **35-4059**

Two layer panels for buildings. Shcherbakov, A.V., et al, (1979, p.81-87, rus) **35-4060**

Particle size distribution

Size distribution of snowflakes and graupel particles. Yagi, T., et al, (1979, p.79-92, eng) **35-515**

Observation of size distribution of graupel and snow flakes. Harimaya, T., (1978, p.67-77, eng) **35-574**

Snowpack and mine drainage in a western surface mine. Farmer, E.E., et al, (1980, p.79-100, eng) **35-582**

Electron microscopy study of snowflakes. Sartin, A., et al, (1980, p.39-43, eng) **35-817**

Formation and properties of fluidized snow. Maeno, N., et al, (1978, p.77-92, jap) **35-1177**

Effect of nuclei size on ice nucleation. Prodi, F., et al, (1980, p.1448-1450, eng) **35-2423**

Atmospheric aerosols over the antarctic ice sheet. Shaw, G.E., (1981, p.911-921, eng) **35-2892**

Some geochemical characteristics of Bering Sea sediments. Burrell, D.C., et al, (1980, p.305-319, eng) **35-4146**

Particles

Observation of snow particles at Hidden Valley, Mukut Himal. Higuchi, K., et al, (1978, p.42-44, eng) **35-54**

Fluidization of snow. Maeno, N., et al, (1979, p.109-120, eng) **35-697**

Model for the prediction of ice lensing and frost heave in soils. Gilpin, R.R., (1980, p.918-930, eng) **35-1492**

Threshold wind-speeds and elastic impact in snow transport. Schmidt, R.A., (1980, p.453-467, eng) **35-2386**

Ice core studies from Mt. Kenya, Africa. Thompson, L.G., (1981, p.55-62, eng) **35-3021**

Lewis Glacier (Mt. Kenya) and possible links tropical climate. Vincent, C.E., et al, (1981, p.63-78, eng) **35-3022**

Search for cometary dust in the antarctic ice. King, E.A., et al, (1980, p.78-79, eng) **35-3184**

Microparticle concentration variations linked with climatic change: evidence from polar ice cores. Thompson, L.G., et al, (1981, p.812-815, eng) **35-3773**

Melting electrification of single ice particles in simulated free fall. Martin, P.F., et al, (1977, p.302-308, eng) **35-3778**

Patterned ground

Vegetation of the lower Kolyma tundra. Andreev, V.N., et al, (1980, p.5-43, rus) **35-283**

Soils of spotty tundra. Vasil'evskaia, V.D., (1979, p.390-401, eng) **35-933**

Glacio-geomorphological observations at Cape Omega, Moriwaki, K., (1980, p.1-14, eng) **35-1054**

Central Siberian tundra soils. Vasil'evskaia, V.D., (1980, 235p., rus) **35-1281**

Soils of Taymyr Peninsula. Vasil'evskaia, V.D., (1980, p.8-16, rus) **35-1612**

Frost fracturing processes. Tumel', N.V., (1979, p.26-49, rus) **35-1829**

Cryogenic patterned microrelief. Chigir, V.G., (1979, p.66-101, rus) **35-1831**

Mechanism of ice vein pseudomorphism. Khrutskii, S.F., (1979, p.163-171, rus) **35-1837**

Climatic geomorphology of the Far East. Kapitsa, A.P., ed, (1978, 144p., rus) **35-1850**

Cryogenic processes in Sikhote-Alin. Korotkii, A.M., (1976, p.100-123, rus) **35-1856**

Genesis and development of patterned ground forms. Stingl, H., (1974, p.249-262, ger) **35-1944**

Buried soils in the Edoma formation of Yakutia. Gubin, S.V., (1980, p.171-173, rus) **35-2308**

Glaciological and geocryological field studies on King George Island during the 25th Soviet antarctic expedition. Vtiurin, B.I., (1980, p.30, rus) **35-2811**

Types of vegetational cover in the Far North. Norin, B.N., (1980, p.1531-1542, rus) **35-3216**

Problems of Pleistocene paleogeography in glacial and periglacial regions. Velichko, A.A., ed, (1981, 251p., rus) **35-3293**

Ground ice development in East Yakutia. Gordeev, P.P., (1980, p.141-147, rus) **35-3329**

Some nonsorted patterned ground types in northern Canada. Zoltai, S.C., et al, (1981, p.139-151, eng) **35-4088**

Observations on the stone-banked lobes of Marion Island. Hall, K., (1981, p.129-131, eng) **35-4296**

Pavements

Thermal regime of concrete pavements in cold regions. Ushakov, V.V., et al, (1977, p.60-64, rus) **35-74**

Seasonal moisture regimes of roadbeds. Efimenko, V.N., et al, (1977, p.95-103, rus) **35-75**

Concrete plates for protecting slopes in cold regions. Il'din, L.N., (1980, p.17-19, rus) **35-105**

Method for predicting roughness, rutting and cracking of pavements. Ullidtz, P., (1979, p.557-586, eng) **35-333**

Frost resistant concrete elements for pavements. Oganesiants, S.L., et al, (1980, p.8-10, rus) **35-472**

Soil stabilization technique for freezing weather. Asmatulaev, B.A., (1980, p.9-10, rus) **35-477**

Frost resistance of road structures. Savko, N.F., (1980, p.17-19, rus) **35-480**

Wintertime deicing: let the pavement do the work. (1980, p.37-40, eng) **35-524**

Design standards SNiP II-47-80 "Airports. Demin, I.D., (1980, p.17-18, rus) **35-612**

Design and operation of airfields. Glushkov, G.I., et al, (1980, 441p., eng) **35-703**

Pavement structure evaluation of Alaskan highways. McHattie, R., et al, (1980, 208p., eng) **35-893**

Road pavements of cemented earth. Khabibullina, E.N., (1980, p.11-12, rus) **35-918**

Reinforced concrete plates for road pavements. Kholopov, A.I., (1980, p.12-13, rus) **35-919**

New high-efficiency snowplows. Kolchin, M., (1980, p.14-15, rus) **35-938**

Roads of Siberian oil fields. Bronitskii, E.I., et al, (1980, p.3-5, rus) **35-939**

Road pavements for permafrost areas. Tupitsyn, N.M., (1980, p.5-7, rus) **35-940**

Pavement repair in freezing weather. Shvidko, I.A.I., et al, (1980, p.25-26, rus) **35-941**

Field studies of membrane encapsulated soil layers with additives. Eaton, R.A., et al, (1980, 46p., eng) **35-977**

Tree bark in road pavement construction. Lukina, V.A., et al, (1980, p.124-127, rus) **35-1090**

Practical experience with ice-inhibiting pavements. Blumer, M., (1980, p.414-420, ger) **35-1131**

Improvement of road construction technology. Zbarzhevskii, V.V., et al, (1980, 152p., rus) **35-1434**

Construction of petroleum industry objects in permafrost areas. Shemraev, G.A., et al, (1980, p.10-11, rus) **35-1646**

Airport pavements of fine-grained concrete. Khuchnikov, G.I.A., et al, (1980, p.25, rus) **35-1652**

Rational seasonal load restrictions and overload permits. Connor, B., (1980, 52p., eng) **35-1681**

Structural evaluation of porous pavement in cold climate. Eaton, R.A., et al, (1980, 43p., eng) **35-2006**

Snowplowable raised pavement markers. Liptak, R.F., (1979, 16p., eng) **35-2054**

Effects of road constructional faults in bituminous surfacing. Jaasko, J., (1980, 103p., fin) **35-2057**

Use of slag in bituminous pavements. Koivuniemi, M., (1979, 71p. + figs., fin) **35-2058**

Winter concreting of road pavements. Modylevskii, A.B., et al, (1981, p.48-49, rus) **35-2100**

Asphalt concrete for cold regions. Dempsey, B.J., et al, (1980, 55p., eng) **35-2587**

Forecasting and controlling soil moisture in roadbeds. Korsunskii, M.B., et al, (1980, p.17-19, rus) **35-2637**

Pothole primer, a public administrator's guide to understanding and managing the pothole problem. Eaton, R., coord, (1981, 24p., eng) **35-2758**

Prevention of road pavement icing. Rudakov, I.M., et al, (1980, p.11, 21, rus) **35-3005**

Using rock salt byproducts for preventing road pavement icing. Ermolenko, V.A., et al, (1980, p.15-16, rus) **35-3009**

Studying frost resistance of concrete. Pshakov, B.I., et al, (1980, p.52-53, rus) **35-3014**

Design and construction of drainage systems. Tulaev, A.I.A., (1980, 191p., rus) **35-3233**

Highway pavement cracks, an Alaskan overview. McHattie, R., (1980, p.17-21, eng) **35-3858**

Rubber in pavements for ice control. Esch, D., (1980, p.34-39, eng) **35-3860**

Road construction manual for engineers. Bochin, V.A., ed, (1980, 511p. (Pertinent p.367-498), rus) **35-3888**

Recycling of milled asphalt as a frost protection material. Schonberger, G., et al, (1981, p.130-140, ger) **35-3919**

Effectiveness of road facilities in Yakutia. Shtyrev, I.N., (1978, p.112-114, rus) **35-4116**

Peat

Pile foundation construction in northern swamps. Barskii, B.I., (1980, p.19-20, rus) **35-97**

Aerial photography in soil mapping. Monakhov, A.K., (1980, p.355-356, rus) **35-109**

Industrial construction on frozen peat. Vialov, S.S., et al, (1980, 144p., rus) **35-280**

Radar technique of studying peat and sapropel deposits. Bogorodskii, V.V., et al, (1980, p.27-29, rus) **35-365**

Vegetation in northern swamps. Boch, M.S., et al, (1980, p.27-38, rus) **35-392**

Peat deposits in forest tundra swamps. Turkina, O.S., (1980, p.67-71, rus) **35-500**

Spectral reflectivity of cryogenic soils. Sadovnikov, I.L.N., (1980, p.45-52, rus) **35-535**

Determining strength of peat soils from aerial photographs. Pirogov, A.G., et al, (1980, p.4-6, rus) **35-620**

Deformation of peat bearing grounds. Kukushkin, V.A., et al, (1980, p.10-12, rus) **35-623**

Materials on the soils of Komi ASSR. Zaboeva, I.V., ed, (1974, 96p., rus) **35-686**

Soils of northern peat bogs. Popov, V.A., (1974, p.10-16, rus) **35-688**

Analyzing humus substances in taiga soils. Shoboda, A.V., (1974, p.50-57, rus) **35-692**

Cryogenic lithogenesis under swamp conditions. Usov, V.A., (1980, p.40-44, rus) **35-752**

Drainage induced changes in thermal regime of peat. Khimin, N.M., et al, (1980, p.92-100, rus) **35-769**

Electrophysical properties of peat and their practical application. Lych, A.M., et al, (1980, 176p., rus) **35-937**

Drainage effect on paluded north taiga soils. Varfolomeev, L.A., et al, (1980, p.44-51, rus) **35-957**

Land reclamation in non-chernozem areas. Aleksankin, A.V., et al, (1980, 288p., rus) **35-996**

Road construction on peat. Golovkov, V.T., et al, (1980, p.19-20, rus) **35-1033**

Soils of drained forest swamps. Melent'eva, N.V., (1980, 127p., rus) **35-1134**

Rate of peat accumulation in antarctic moss banks. Fenton, J.H.C., (1980, p.211-228, eng) **35-1170**

Microbiology of Kola Peninsula swamp soils. Peteretzev, V.N., et al, (1974, p.140-142, rus) **35-1212**

Construction equipment for weak soils. Penchuk, V.A., (1980, p.21-23, rus) **35-1302**

Swamp-forest systems of Karelia and their dynamics. P'iavchenko, N.I., ed, (1980, 184p., rus) **35-1324**

Microflora of northern transition-type peat soils. Zagural'skaia, I.M., et al, (1980, p.114-123, rus) **35-1328**

Chemical composition of litter decaying in northern swamps. Egorova, R.A., et al, (1980, p.135-155, rus) **35-1329**

Epiphyte algae of peat mosses. Antipina, G.S., (1980, p.167-175, rus) **35-1330**

Landscapes of northern taiga and swamps. Mikhailov, N.I., (1980, p.95-101, rus) **35-1337**

International geological congress, 26th, 1979. Hydrogeology, engineering geology and construction materials. Reports of soviet geologists. Kulikov, G.V., ed, (1980, 247p., rus) **35-1349**

Physical properties of weak grounds. Bocharova, I.S., et al, (1980, p.167-175, rus) **35-1351**

Conference of young scientists, 3rd, Krasnoyarsk, 1971. Studies of the nature of Siberian forests. [1972, 325p., rus] 35-1373
Biologic cycle in bilberry-peat moss pine forests. Prokhorova, A.I.V., [1972, p.30-36, rus] 35-1375
Microbiology of Siberian swamp soils. Krapivina, L.A., [1972, p.186-189, rus] 35-1377
Changes in northern swamps due to river flow control. Ivanov, K.E., et al. [1980, p.90-105, rus] 35-1430
Reclamation of north taiga lands. Pravchenko, N.I., [1980, p.7-16, rus] 35-1443
Swamps of the West Siberian plain. Liss, O.L., et al. [1980, p.95-112, rus] 35-1444
Water retaining role of northern swamps. Prozorov, B.S., [1980, p.128-133, rus] 35-1445
Testing peat strength with different dies. Dimov, I.V., et al. [1980, p.12-14, rus] 35-1634
Construction of petroleum industry objects in permafrost areas. Shemraev, G.A., et al. [1980, p.10-11, rus] 35-1646
Designing drainage systems for northern swamps. Popov, B.A., et al. [1980, p.27-28, rus] 35-1863
Calculating evaporation from northern swamps. Moskvin, B.P., et al. [1980, p.67-75, rus] 35-1871
Taiga vegetation in areas east of the Ural Mountains. Samukov, S.N., [1976, p.124-165, rus] 35-1921
Biological studies in the northeastern European USSR. Getsen, M.V., ed. [1974, 235p., rus] 35-1924
Drainage of cryogenic soils in Karelia. Nesterenko, I.M., [1980, p.20-21, rus] 35-2259
Classification of taiga soils. Naumov, E.M., [1980, p.24-27, rus] 35-2260
Changes in cryogenic soil temperature due to cultivation. Khudiakov, O.I., et al. [1980, p.134-136, rus] 35-2298
Scientific conference of Karelian biologists. Komulainen, V.A., ed. [1970, 167p., rus] 35-2613
Peat deposits in northern bogs. Belova, A.A., [1970, p.49-50, rus] 35-2615
Freeze thaw of peat soils. Piatetskii, G.E., [1970, p.91-93, rus] 35-2617
Application of humus to exploration. Kokkola, M., [1977, p.104-110, eng] 35-2729
Prospecting in an area of central Sweden. Eriksson, K., [1975, p.83-86, eng] 35-2746
Elevated and underground pipelines in permafrost areas. Sokolov, S.M., et al. [1980, p.2-4, rus] 35-2776
Performance of industrial pipelines in frozen grounds. Sokolov, S.M., et al. [1980, p.8-12, rus] 35-2778
Studying wetland systems from satellite data. Vinogradov, B.V., [1980, p.83-92, rus] 35-2978
Studying catchment areas in swamps from aerial photographs. Savel'eva, T.S., [1980, p.93-99, rus] 35-2979
Foundation construction on peat soils. Konovalov, P.A., [1980, 161p., rus] 35-2997
Drainage methods in permafrost areas. Stepanov, A.N., [1980, p.247-250, rus] 35-3059
Reclamation of heavy palluded soils. Chernoukhov, A.M., [1980, p.250-253, rus] 35-3060
Tundra vegetation on the White Sea islands. Breslina, I.P., [1980, p.72-83, rus] 35-3069
Physical and mechanical properties of frozen peat soils. Roman, L.T., [1981, 134p., rus] 35-3225
Influence of deicing salts on soil and turf cover. Brod, H.G., et al. [1980, p.461-468, eng] 35-3771
Peculiarities of foundation design in petroleum provinces of West Siberia. Konovalov, V.V., et al. [1981, 167p., rus] 35-3918
Permafrost of the Sibirskiye Uvaly swamps. Shamanova, I.I., [1981, p.97-101, rus] 35-4074
Vegetation of Alaskan arctic slope. Walker, D.A., et al. [1981, p.153-172, eng] 35-4089
Building earth dams in swamps. Bessonov, A.V., [1981, p.37-38, rus] 35-4231
Earth dams and embankment construction in permafrost areas. Bezrukov, V.F., et al. [1981, p.18-19, rus] 35-4245
Screw pile foundations for drilling rigs. Kolomeitsev, V.T., et al. [1921, p.14-15, rus] 35-4286
Algae in cryogenic soils. Pivovarova, Zh.F., et al. [1979, p.125-133, rus] 35-4329
Peat accumulation in drained northern soils. Berman, D.I., et al. [1979, p.134-145, rus] 35-4330

Penetration

Turbodrill penetration rate in permafrost. Khomik, M.V., et al. [1980, p.27-29, rus] 35-1609
Icebreaking concepts. Mellor, M., [1980, 18p., eng] 35-2593
Solar penetration radiometer and its preliminary testing results. Xie, Y., et al. [1980, p.12-14, chi] 35-2652
Penetration of a freezing liquid into an annular channel. Kuzay, I.M., et al. [1979, p.95-102, eng] 35-3352

Penetration tests

Permafrost beneath the Beaufort Sea near Prudhoe Bay, Alaska. Sellmann, P.V., et al. [1980, p.35-48, eng] 35-1105
Plate loading and vane-cone test measurements for fresh and sintered snow. Yong, R.N., et al. [1980, 32p., eng] 35-2010

Periglacial processes

Weathering of permafrost in subarctic regions. Logunova, I.E., et al. [1978, p.93-94, rus] 35-14
Evidence of climatic fluctuation in Quaternary deposit involution layers. Tang, Y., [1980, p.41-43, chi] 35-87
Permafrost and relation between glaciation and periglaciation. Cui, Z., [1980, p.1-6, chi] 35-117
Cryogenic phenomena in Kazakhstan and Central Asia. Gorbunov, A.P., ed. [1979, 145p., rus] 35-185
Periglacial phenomena in the Chaglinka River valley. Meshchikhin, D.A., [1979, p.131-140, rus] 35-195
Periglacial landforms and processes in the Kenai Mts., Alaska. Bailey, P.K., [1980, 159p., eng] 35-949
Research of periglacial morphology in Finland. Aartolahti, T., [1980, p.74-87, fin] 35-1071
Process in geomorphology. Embleton, C., ed. [1979, 436p., eng] 35-1684
Periglacial levels in high mountains of Europe and North Africa. Poser, H., ed. [1977, 354p., ger] 35-1730
Permafrost active layer in the Sudety Mountains during the last glaciation. Jahn, A., [1981, p.29-42, eng] 35-1883
Geomorphological processes under different climatic conditions. Poser, H., ed. [1974, 439p., ger] 35-1942
Experimental determination of the processes producing small polygonal sorted alpine soils. Pissart, A., [1974, p.241-248, fre] 35-1943
Genesis and development of patterned ground forms. Stingl, H., [1974, p.249-262, ger] 35-1944
Formation processes on snow patches in the Icelandic highlands. Schunke, E., [1974, p.274-286, ger] 35-1946
Cryoplanation in the Alps and Canadian Rocky Mts. Karrasch, H., [1974, p.287-300, ger] 35-1947
Avalanche activity and geomorphological processes in the Salzburg Alps. Pippan, T., [1974, p.301-312, ger] 35-1948
Geomorphological processes in the Canadian Cordillera. Slaymaker, O., [1974, p.319-332, eng] 35-1950
Arid and periglacial processes in the subtropical semidesert mountains. Hollermann, P., [1974, p.333-353, ger] 35-1951
Slope processes in cold environment of northern Finland. Soderman, G., [1980, p.83-152, eng] 35-2105
Wastage features of the inland ice sheet in central South Norway. Garnes, K., et al. [1980, p.251-269, eng] 35-2140
Problems of moraine morphology. Rogen moraine and Blattmick moraine. Markgren, M., et al. [1980, p.271-274, eng] 35-2141
Bedrock material in moraine forms in northern Sweden. Minell, H., [1980, p.275-281, eng] 35-2142
Ice lobes during the deglaciation in Finland. Punkari, M., [1980, p.307-310, eng] 35-2143
Deglaciation and glacial lakes in Finnish Lapland. Seppala, M., [1980, p.311-319, eng] 35-2144
Development of polygonal wedge microrelief. Romanovskii, N.N., [1974, p.67-78, rus] 35-2397
Periglacial formation of the Yenisey Ridge. Volob'ev, I.V., et al. [1975, p.42-48, eng] 35-2400
German periglacial research in arctic and subarctic regions. Karte, J., [1979, p.97-115, ger] 35-2640
Recent periglacial morphodynamics on Angmagssalik O, southeast Greenland. Schunke, E., [1979, p.1-19, ger] 35-2642
Application of airphoto in the study of periglacial geomorphic dynamics. Liang, F., et al. [1980, p.72-73, chi] 35-2675
Marine sediments and permafrost structure in Severnaya Zemlya. Kostaev, A.G., et al. [1981, p.183-187, rus] 35-2767
Lake drainage, Richards Island, N.W.T. Mackay, J.R., [1981, p.63-68, eng] 35-3084
Distribution and variability of soils near Atkasook, Alaska. Everett, K.R., [1980, p.433-446, eng] 35-3198
Tundra vegetation in relation to microtopography near Atkasook, Alaska. Peterson, K.M., et al. [1980, p.473-482, eng] 35-3200
Problems of Pleistocene paleogeography in glacial and periglacial regions. Velichko, A.A., ed. [1981, 251p., rus] 35-3293
Cryogenic and climatic parameters in paleoclimatology. Nechaev, V.P., [1981, p.211-220, rus] 35-3295
Montane periglacial zone and its morphological lower limit. Hagedorn, J., [1980, p.96-103, eng] 35-3303
Utilization of remote sensing in Alaskan permafrost studies. Hall, D.K., [1981, p.676-684, eng] 35-3442
Glacial and periglacial geomorphology in Japan. Ono, Y., [1980, p.149-160, eng] 35-3556
Periglacial geomorphology and permafrost. French, H.M., [1970, p.254-261, eng] 35-3558
Marginal zone of the Arie Glacier. Szponar, A., [1975, p.127-138, eng] 35-3614
Periglacial wedges of Wyoming intermontane basins. Mears, B., Jr., [1981, p.17-[illegible]s, eng] 35-3677
Pingos in southern Sweden during late Glacial time. Svensson, H., [1979, p.35-45, swe] 35-4007
Some nonsorted patterned ground types in northern Canada. Zoltai, S.C., et al. [1981, p.139-151, eng] 35-4088
Hydrogeology of karst in the Rawil region. Wildberger, A., [1981, 175p. + maps, ger] 35-4162

Periodic variations

Glacier economy in Bolivia. Jordan, E., [1979, p.297-309, ger] 35-359
Modern and Pleistocene snow lines in Montana and Wyoming mountains. Zwick, T.T., [1980, p.347-352, eng] 35-1826
Remarks on the stability of timberline. Ives, J.D., [1978, p.313-317, eng] 35-1904
Pollen analysis in annual layers of glaciers. Wang, R., et al. [1980, p.87-90, chi] 35-2680
Ice melting during the Quaternary Period of Hei-lung-chiang River. Chiao, K., et al. [1979, p.61-66, chi] 35-2904
Moisture cycles in the lower course of the Ob' River and the Kara Sea and their possible variations due to interzonal redistribution of runoff. Burova, I.P., [1980, p.131-135, rus] 35-3132
Variations in antarctic sea ice distribution. Dobrotnyslov, V.V., et al. [1981, p.40-44, eng] 35-3904

Permafrost

Glaciological research at Trent University and a bibliography, 1968-1980. Adams, W.P., [1980, p.178-193, eng] 35-50
Admixtures for plugging cements in cold regions. Batalov, D.M., et al. [1978, p.41-46, rus] 35-60
Heat release of cements hardening at subzero temperature. Batalov, D.M., et al. [1978, p.46-50, rus] 35-61
Thermal expansion of frozen rocks. Batalov, D.M., et al. [1978, p.51-55, rus] 35-62
Core sampler "Nedra" for permafrost. Ermakov, V.P., [1978, p.120-124, rus] 35-63
First International Symposium of Ground Freezing. Chen, X., [1980, p.59, chi] 35-91
Soil development on moraines of Taylor Glacier, lower Taylor Valley, Antarctica. Pastor, J., et al. [1980, p.341-348, eng] 35-225
Edaphic factors and their influence in patterns of tundra revegetation. Everett, K.R., [1980, p.30-37, eng] 35-579
Problems of the North, a current bibliography. [1980, 3 volumes, rus] 35-858
Problems of the North; a current bibliography. [1980, 198p., rus] 35-859
Effects of fire in Alaska and adjacent Canada; a literature review. Viereck, L.A., et al. [1980, 124p., eng] 35-891
Classification of cryogenic processes. Vtiurin, B.I., et al. [1980, p.13-22, rus] 35-950
Thirtieth anniversary of the All-Union Scientific Research Institute of Gold and Rare Metals. Emel'ianov, V.I., [1978, p.3-8, rus] 35-1078
Solar energy for artificial thawing of permafrost. Novoselelskii, R.N., et al. [1976, p.63-77, rus] 35-1147
Rate of peat accumulation in antarctic moss banks. Fenton, J.H.C., [1980, p.211-228, eng] 35-1170
Problems in meteorology and hydrology of Siberia. [1976, 218p., rus] 35-1189
Studying thunderstorms along buried communication cables in permafrost areas with lightning flash counters. Par'ev, N.S., et al. [1976, p.26-31, rus] 35-1190
Low temperature effect on soil microorganisms. Rakhno, P.Kh., [1974, p.15-22, rus] 35-1203
Stability of mining excavations in permafrost. Sherstov, V.A., et al. [1980, 56p., rus] 35-1283
World of ice; the natural history of the frozen regions. John, B.S., [1979, 120p., eng] 35-1348
Turbodrill penetration rate in permafrost. Khomik, M.V., et al. [1980, p.27-29, rus] 35-1609
Environmental engineering, Yukon River-Prudhoe Bay Haul Road. Brown, J., ed. [1980, 187p., eng] 35-1768
Environment of the Alaskan Haul Road. Brown, J., [1980, p.3-52, eng] 35-1769
Cryogenic landscapes of Mars. Kuz'min, R.O., [1979, p.50-65, rus] 35-1830
Bench mark stability in permafrost. Bogdanov, B.G., [1980, p.22-23, rus] 35-1860
Mechanics of cutting and boring in permafrost. Mellor, M., [1980, 82p., eng] 35-1892
Boreal ecosystem. Larsen, J.A., [1980, 500p., eng] 35-1913
Crude oil spills on subarctic permafrost in interior Alaska. Johnson, L.A., et al. [1980, 67p., eng] 35-2001
Embankment dams on permafrost in the USSR. Johnson, I.C., et al. [1980, 59p., eng] 35-2005
Environmental assessment of the Alaskan continental shelf, TDP, FY81. Weller, G., coord. [1980, 166p., eng] 35-2018
Environmental assessment of the Alaskan continental shelf, TDP, FY81. Calder, J.A., coord. [1980, 209p., eng] 35-2019
Environmental assessment of the Alaskan continental shelf, TDP, FY81. Hameedi, J., coord. [1980, 130p., eng] 35-2020
Water distribution pipe networks for arctic settlements. James, W., et al. [1980, p.347-366, eng] 35-2128
New approaches to water and sewer services in permafrost area. Norman Wells, N.W.T. Irwin, W.W., [1980, p.507-542, eng] 35-2136
Geobotanical atlas of the Prudhoe Bay region, Alaska. Walker, D.A., et al. [1980, 69p., eng] 35-2150
Cold Regions Science and Technology Bibliography. Cummings, N.H., [1981, p.73-75, eng] 35-2420

Permafrost *(cont.)*

Abstracts of the 4th Canadian Permafrost Conference. Mar. 2-6, 1981 [1981, 172p., eng] **35-2465**

Northern community: a search for a quality environment. [1981, 786p., eng] **35-2496**

Dawson City water and sewerage program: an overview. Shillington, E.I., et al. [1981, p.544-554, eng] **35-2523**

Tundra and analogous soils. Everett, K.R., et al. [1981, p.139-179, eng] **35-2705**

Barrow gas fields, N. Slope, Alaska. Lantz, R.J., [1981, p.197-200, eng] **35-2706**

Driving piles into plastic permafrost. Novozhilov, G.F., [1981, p.16-18, rus] **35-2851**

Chinese research on glaciers and permafrost in the last 30 years. Shih, Y., et al. [1979, p.1-6, chi] **35-2895**

Research work on permafrost and engineering in the last 30 yrs., China. Chen, S., et al. [1979, p.7-12, chi] **35-2896**

Some differences between the Chinese Ching-hai Tibet Plateau aged frozen ground and the old frozen ground in northern Canada. Cheng, K., [1979, p.39-42, chi] **35-2901**

Engineering classification of aged frozen ground. Wu, T., [1979, p.52-60, chi] **35-2903**

Ice melting during the Quaternary Period of Hei-lung-chiang River. Chiao, K., et al. [1979, p.61-66, chi] **35-2904**

Introduction of useful plants in Yakutia (collection of papers). Andreev, V.N., ed. [1980, 100p., rus] **35-3048**

Heat transfer between permafrost and a well during drilling. Rusakov, V.G., et al. [1981, p.134-140, rus] **35-3291**

Gas permeability of permafrost in the Vilyuy watershed area. Olovin, B.A., et al. [1980, p.83-90, rus] **35-3320**

Bibliography of the engineering and environments of Arctic coasts and seas. [1977, 11p., eng] **35-3360**

Annual report 1979-80, Univ. of Alaska, Geophysical Institute. [1980, 208p., eng] **35-3430**

Land reclamation developments in permafrost areas. Chernenok, V.N., [1980, p.10-12, rus] **35-3537**

Alaska coastal bibliography and index statewide. [1980, 407p., eng] **35-3553**

Permafrost: Engineering design and construction. Johnston, G.H., ed. [1981, 540p., eng] **35-3703**

Snow and climate. Berry, M.O., [1981, p.32-59, eng] **35-3747**

Evaluation of soil moisture from space photographs. Nazirov, M., et al. [1980, p.115-122, eng] **35-3797**

Bank stabilization, Bethel, Alaska. [1981, 63p. + append., eng] **35-3812**

Detecting massive ground ice in permafrost by geophysical methods. Osterkamp, T.E., et al. [1980, p.27-30, eng] **35-3859**

Maritime services to support polar resource development. [1981, 78p., eng] **35-4042**

Climate and permafrost in areas of low winter snow-cover. Harris, S.A., [1981, p.64-70, eng] **35-4053**

Hydraulic method of breaking up frozen soil. Gol'din, IU.A., et al. [1981, p.35-38, eng] **35-4153**

Permafrost bases

Deformation of buildings and foundations in permafrost areas. Barabanshchikov, N.G., et al. [1980, p.7-9, rus] **35-449**

Artificial cooling of permafrost bases. Makarov, V.I., [1980, p.37-41, rus] **35-596**

Strength of frozen saline loams. Aksenov, V.I., [1973, p.50-54, rus] **35-1601**

Deformation of ground ice. Dokuchaev, V.V., et al. [1973, p.62-67, rus] **35-1603**

Power line support foundations in South Yakutia. Tkachenko, A.A., et al. [1981, p.46-49, rus] **35-2783**

Forecasting temperature regime of earth fill embankments. Konstantinov, I.P., et al. [1981, p.121-134, rus] **35-3290**

Permafrost bases of earth dams. Myznikov, IU.N., et al. [1981, p.47-53, rus] **35-3339**

Permafrost beneath lakes

Baykal-Angarakan section of the Baykal Amur railroad. Tysak, S.V., et al. [1980, p.139-153, rus] **35-139**

Boguchany artificial lake: Ground water and engineering geology of the area. Odintsov, M.M., ed. [1979, 157p., rus] **35-278**

Artificial lakes in permafrost areas. Kronik, IA.A., et al. [1980, p.120-129, rus] **35-766**

Shore erosion in artificial lakes of permafrost areas. Savkin, V.M., [1980, p.77-84, rus] **35-1335**

Influence of high water stage on shores of deep reservoirs of Siberia (the Krasnoyarsk reservoir taken as an example). Kuskovskii, V.S., [1980, p.140-143, rus] **35-1341**

Topographic map of the Lake Saysar Basin in Yakutsk. Solov'ev, P.A., [1980, p.127-134, rus] **35-2194**

Ground temperature studies at an arctic drained lake site. Judge, A., et al. [1981, p.642-658, eng] **35-2527**

Permafrost conditions in the Yubileynaya kimberlite pipe area. Devyatkin, V.N., et al. [1980, p.79-82, rus] **35-3319**

Cryogenic structure of eluvium in southwestern Yakutia. Spesivtsev, V.I., [1980, p.167-173, rus] **35-3334**

Water seepage from Lake Syrdakh. Tushin, M.I., [1980, p.90-97, rus] **35-3998**

Permafrost beneath rivers

Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979. Abstracts of the papers. [1979, 211p., rus] **35-245**

Construction of underwater pipelines from ice cover. Vil'danov, R.T., [1980, p.34-35, rus] **35-315**

Landscape types of the Ob' River floodplain. Kolomiets, G.E., [1980, p.101-110, rus] **35-1338**

Diversion of a part of the Irtysh River waters. Petrov, I.B., [1980, p.110-114, rus] **35-1339**

Changing the course of rivers in the Arctic. Ivanov, V.V., [1980, p.106-123, rus] **35-1431**

Classification of taiga soils for construction and agriculture. Grishin, I.A., et al. [1979, p.95-111, rus] **35-1522**

Water balance of small river basins in permafrost areas. Vasilenko, N.G., [1980, p.11-32, rus] **35-1792**

Freeze-up of rivers in the Baykal Amur railroad zone. Liubimov, G.A., [1980, p.64-73, rus] **35-1796**

Piles in permafrost for bridge foundations. Crory, F.E., et al. [1967, 41p., eng] **35-2753**

Permafrost effect on the length of river freezeup period. Riabova, L.I., [1980, p.77-85, rus] **35-2878**

Cryogenic structure of eluvium in southwestern Yakutia. Spesivtsev, V.I., [1980, p.167-173, rus] **35-3334**

Thermal balance of meadow vegetation and the climate of cryogenic flood-plain soils. Savvinov, D.D., et al. [1981, 176p., rus] **35-3567**

Artificial taliks in permafrost areas. Gol'dtman, V.G., et al. [1976, p.77-84, rus] **35-3833**

Origin of the Tumpton springs. Artemenko, I.G., [1980, p.14-21, rus] **35-3990**

Permafrost beneath roads

Electrical resistivity measurements in permafrost. Osterkamp, T.E., et al. [1980, p.277-286, eng] **35-745**

Haul Road performance and associated investigations in Alaska. Berg, R.L., [1980, p.53-100, eng] **35-1770**

Principle of railway line selection in alpine permafrost regions. Qui, G., et al. [1981, p.278-287, eng] **35-2509**

Farmers loop sinkhole. Sweet, L., et al. [1980, p.6-10, eng] **35-3856**

Permafrost beneath structures

Modular construction in Siberia. Grech, V.I., [1980, p.32-33, rus] **35-1**

Organizing construction in the Far North. Tsaliuk, I.G., [1980, p.13-14, rus] **35-3**

Hydrothermal processes in freezing earth dams. Khaglеev, E.P., et al. [1980, p.55-58, rus] **35-9**

Earth dam construction in permafrost areas. Kuperman, V.L., et al. [1980, p.58-61, rus] **35-10**

Thermokarst processes in construction areas. Viatkina, L.IU., et al. [1978, p.103-104, rus] **35-18**

Strength of concrete at the contact with perennially frozen ground. Andreev, V.V., [1980, p.10-13, rus] **35-102**

Protection of embankment slopes in permafrost areas. Vorotnikov, V.S., et al. [1980, p.3-5, rus] **35-104**

Concrete plates for protecting slopes in cold regions. IUdin, L.N., [1980, p.17-19, rus] **35-105**

Seismotectonics and seismicity of the Baykal Amur railroad construction area. Odintsov, M.M., ed. [1980, 204p., rus] **35-137**

Construction of the Baykal Amur railroad. Kalinichev, V.P., [1980, p.5-7, rus] **35-138**

Baykal-Angarakan section of the Baykal Amur railroad. Tysak, S.V., et al. [1980, p.139-153, rus] **35-139**

Railroad construction in seismic permafrost areas. Pavlov, O.V., et al. [1980, p.164-173, rus] **35-140**

Seismic stability of frozen fines. Zarubin, N.E., et al. [1980, p.173-178, rus] **35-141**

Changes in seismic and permafrost conditions of developed areas. Sharapov, V.G., [1980, p.179-190, rus] **35-142**

Seismic stability of transport-related structures. Napetvaridze, Sh.G., ed. [1980, 132p., rus] **35-144**

Design of railroad bridges for earthquakes in permafrost areas. Uzdin, A.M., et al. [1980, p.27-40, rus] **35-145**

Heat transfer between utility lines and frozen ground. Bondarev, E.A., et al. [1979, p.62-70, rus] **35-235**

Modeling the strength and stability of roadbeds. IAkovleva, T.G., et al. [1980, 255p., rus] **35-281**

Cements for swamp soil stabilization. Vasil'eva, M.P., et al. [1980, p.23-24, rus] **35-313**

Screening effect of tailings under permafrost conditions. Pechenin, IU.I., et al. [1979, p.6-7, rus] **35-352**

Drilling in permafrost with compressed air circulation. Tokar', M.G., [1980, p.28-29, rus] **35-355**

Modular construction in Permafrost areas. L'vov, B.I., [1980, p.5-9, rus] **35-445**

Modular construction in permafrost areas. Alekseev, P.D., et al. [1980, p.2-5, rus] **35-447**

Village house for Central Yakutia. Turalyov, K.G., [1980, p.3-5, rus] **35-459**

Sand-concrete panels for building partitions. Isaenko, A.G., et al. [1980, p.19-21, rus] **35-502**

Soviets seeking to improve design of Arctic area rigs. [1980, p.32, eng] **35-525**

Exhibition: Foundation construction in the USSR. Smirnov, L.V., [1980, p.42-45, rus] **35-608**

Design standards SNiP II-47-80 "Airports". Demin, I.D., [1980, p.17-18, rus] **35-612**

Borehole blasting of permafrost. Gushchin, V.I., [1980, p.27-29, rus] **35-616**

Electrical grounding in gas field installations. Men'shov, B.G., et al. [1980, p.33-36, rus] **35-628**

Design of electrical grounding for permafrost areas. Men'shov, B.G., et al. [1980, p.35-37, rus] **35-629**

Petroleum resources of Alaska and Canada. Lachininskii, V.A., et al. [1979, p.95-101, rus] **35-751**

Climatic peculiarities of the Baykal Amur railroad zone. Galazii, G.I., ed. [1979, 144p., rus] **35-813**

Construction of pile foundations on permafrost. Fedorovich, D., et al. [1980, p.42-45, rus] **35-929**

Roads of Siberian oil fields. Bronitskii, E.I., et al. [1980, p.3-5, rus] **35-939**

Road pavements for permafrost areas. Tupitsyn, N.M., [1980, p.5-7, rus] **35-940**

Building underground structures in permafrost. Gevirts, G.IA., et al. [1980, p.131-140, eng] **35-963**

Thermal vertical supports for the trans-Alaska pipeline. Pearson, S.W., [1979, p.225-231, eng] **35-1109**

Science assists the builders of Siberia and the Far East. Chentemirov, M.G., [1980, 192p., rus] **35-1136**

Giant power plant in the Sayan Mountains. Mikhailov, L.P., et al. [1980, 104p., rus] **35-1271**

Pipeline construction in the Far North. Blinov, M.A., [1980, p.23-25, rus] **35-1303**

Environmental protection in pipeline construction areas. Borodavkin, P.P., et al. [1980, p.14-15, rus] **35-1304**

Soviet construction under difficult climatic conditions. Assur, A., [1980, p.47-53, eng] **35-1397**

Heat pipelines at the Baykal Amur railroad. Sokolov-Baikov, O.V., [1980, p.22, rus] **35-1528**

Design of residential and public buildings for the first climatic zone. Belova, G.M., ed. [1973, 75p., rus] **35-1596**

Studying clay shale deformation during thawing. Dokuchaev, V.V., et al. [1973, p.12-22, rus] **35-1598**

Strength of pile foundations in permafrost. Gerasimov, A.S., [1973, p.23-27, rus] **35-1599**

Mechanical properties of saline frozen grounds. Markin, K.F., [1973, p.28-49, rus] **35-1600**

Airport pavements of fine-grained concrete. Khuchnikov, G.IA., et al. [1980, p.25, rus] **35-1652**

Swelling of frozen soils and its effect on structure foundations. Orlov, V.O., et al. [1980, 286p., eng] **35-1697**

Chemical prevention of frost heave. [1974, 17p., rus] **35-1712**

Hydrometeorological provisions for the Baykal Amur railroad. Dobroumov, B.M., et al. [1980, p.3-10, rus] **35-1791**

U.S.-Soviet seminar on building under cold climates and on permafrost. [1980, 365p., eng] **35-1965**

Thermal interaction of structures and permafrost. Porkhaev, G.V., et al. [1980, p.85-96, eng] **35-1973**

Analysis of foundations in permafrost. Vialov, S.S., et al. [1980, p.97-117, eng] **35-1974**

Design of foundations in areas of significant frost penetration. Linell, K.A., et al. [1980, p.118-184, eng] **35-1975**

Design of foundations for buildings in discontinuous permafrost. Phukan, A.H., [1980, p.185-203, eng] **35-1976**

Foundations on complex permafrost soils. Velli, Y.J., [1980, p.204-217, eng] **35-1977**

Construction of piling foundations in permafrost. Sadovskii, A.V., et al. [1980, p.218-228, eng] **35-1978**

Subgrade cooling for stabilization of permafrost beneath structures. Barthelemy, J.L., [1980, p.235-261, eng] **35-1980**

Cryo-anchor-proven performance for Arctic foundation stabilization. Cady, E.C., [1980, p.262-278, eng] **35-1981**

Vacuum degassing in construction technology of the North. Polonskii, L.A., [1980, 175p., rus] **35-2048**

Dynamics of temperature field of the dam of the Vilyuy hydroelectric power plant. Olovin, B.A., et al. [1980, 48p., rus] **35-2049**

Preventing thermokarst processes in road construction areas. Merenkov, N.D., [1981, p.3-4, rus] **35-2075**

Drainage systems for embankments on permafrost. Solov'ev, G.P., et al. [1981, p.9-11, rus] **35-2077**

Modular construction in permafrost regions. Sobchenko, M.S., et al. [1981, p.16-17, rus] **35-2078**

Precast lightweight concrete for cold regions. Vasil'ev, N.F., et al. [1981, p.20-23, rus] **35-2080**

Pipeline construction in permafrost areas. Kantsidalov, E.P., [1981, p.29-30, rus] **35-2094**

Roadbed design for permafrost areas. Mikhailov, G.D., [1981, p.12-15, rus] **35-2098**

Panel joint structures for cold regions. Cheremisov, K.M., et al. [1980, p.68-70, rus] **35-2102**

Large scale development of remote housing in subarctic areas. Robertson, W.A., et al. [1980, p.426-438, eng] **35-2132**

Rural schools prototype analysis in cold regions. Livingston, T.W., et al. [1980, p.439-474, eng] **35-2133**

Permafrost stability and human activities. Kuznetsova, I.L., [1980, p.75-107, rus] **35-2192**

Maps of engineering-geocryologic regionalization of the central Yamal Peninsula. Parmuzin, S.IU., et al. [1980, p.108-127, rus] **35-2193**

Environmental protection problems in Alaska and Canada. Grave, N.A., [1980, p.135-141, rus] **35-2195**

Soil disturbance in pipeline construction areas. Sopina, E.P., [1980, p.190-191, rus] 35-2314
Construction effect on cryogenic soils. Garagulia, L.S., et al, [1975, p.70-80, eng] 35-2402
Protecting structures from frost damage. Chen, X., [1981, p.734-740, eng] 35-2534
Construction of Severobaykal'sk. Savel'ev, R.V., [1980, p.16-18, rus] 35-2631
Kindergartens in the North. Sova, A.A., [1980, p.32-35, rus] 35-2633
Urban construction in Siberia. Ogly, B.I., [1980, 272p. (Pertinent p.174-269), rus] 35-2685
Electrification of oil and gas industry in West Siberia. Novoselov, IU.B., et al, [1980, 182p., rus] 35-2687
Hydroelectric power plants in the Baykal Amur railroad area. Shelnman, L.B., [1980, 89p., rus] 35-2688
Elevated and underground pipelines in permafrost areas. Sokolov, S.M., et al, [1980, p.2-4, rus] 35-2776
Performance of industrial pipelines in frozen grounds. Sokolov, S.M., et al, [1980, p.8-12, rus] 35-2778
Hydraulic models for studying temperature fields beneath embankments. Vasserman, S.N., et al, [1980, p.12-15, rus] 35-2779
Oil field roads in western Siberia. Tabakov, N.V., et al, [1980, p.15-19, rus] 35-2780
Soil temperature decrease beneath thermopile foundations. Gorelik, IA.B., et al, [1980, p.19-20, rus] 35-2781
Power line support foundations in South Yakutia. Tkachenko, A.A., et al, [1981, p.46-49, rus] 35-2783
Environmental protection in the North. Denisov, G.V., [1981, p.29, rus] 35-2784
Ductless hot-water pipelines in the North. Sobolev, V.G., et al, [1981, p.126-129, rus] 35-2790
Polymer fabrics for soil stability in foundation construction. [1981, p.14, eng] 35-2839
Earth pressure on retaining wall built on frozen ground. Novikov, F.IA., [1981, p.146-152, eng] 35-2841
Railroad construction in mountainous permafrost areas. Podkaliuk, V.P., et al, [1981, p.3-4, rus] 35-2842
Prefabricated dismountable buildings in permafrost areas. Bardyshev, O.A., et al, [1981, p.17-19, rus] 35-2844
Construction of seismically stable structures on permafrost. Kharitonov, V.A., [1980, 79p., rus] 35-2872
Construction of bulk plants and gasoline stations. Groznov, G.A., et al, [1980, 332p. (Pertinent p.56-147), rus] 35-2873
Multi-story stone buildings in the North. Kalinin, M.S., et al, [1980, 153p., rus] 35-2882
Freeze thaw regularity of railway bed in permafrost. Zhu, Y., [1980, p.38-43, chi] 35-2917
Human settlements in the Arctic. [1980, 125p., eng] 35-2927
Cost of road construction in permafrost areas. Podymalova, T.P., [1980, p.7-8, rus] 35-3008
Northern dwellings. Putintsev, E., [1980, p.38-46, rus] 35-3230
Thermal properties of frozen coarse clastics. Gavril'ev, R.I., et al, [1981, p.5-22, rus] 35-3281
Moisture migration in earth dams. Chzhan, R.V., [1981, p.117-121, rus] 35-3289
Forecasting temperature regime of earth fill embankments. Konstantinov, I.P., et al, [1981, p.121-134, rus] 35-3290
Mechanical interaction between piles and permafrost. Galdaenko, E.I., [1981, p.140-154, rus] 35-3292
Permafrost changes beneath pipelines. Turbina, M.I., [1980, p.31-36, rus] 35-3310
Heat conductivity of washed up sandy ground. Mandarov, A.A., et al, [1980, p.63-68, rus] 35-3317
Pile foundations for northern oil-pumping stations. Chizhevskii, M.V., [1981, p.14-15, rus] 35-3343
Brief summary of Arctic engineering and construction problems. Arend, E., [1976, 20p., eng] 35-3404
Frost heave mechanics. Konrad, J.-M., [1980, 472p., eng] 35-3405
Improvement and wider application of modular construction. Polianskii, R.P., [1981, p.9-12, rus] 35-3507
Construction of the Trans-Siberian Railroad System. Paul', V.P., [1980, 167p., rus] 35-3548
Environmental protection in areas of main pipeline construction and operation. Borodavkin, P.P., et al, [1981, 160p., rus] 35-3566
Determination of the thermophysical characteristics of alternatively freezing and thawing dispersed media by the method of solving inverse problems of heat conduction. Pavlov, A.R., et al, [1981, p.885-589, eng] 35-3817
Road construction manual for engineers. Bochin, V.A., ed, [1980, 511p. (Pertinent p.367-498), rus] 35-3888
Concrete dam of the Ust'-Ilim hydroelectric power plant (Field observations and studies). Eidel'man, S.IA., et al, [1981, 137p., rus] 35-3898
Peculiarities of foundation design in petroleum provinces of West Siberia. Konovalov, A.A., et al, [1981, 167p., rus] 35-3918
Thermal and hydraulic design of pipelines for oil and petroleum products. Agapkin, V.M., et al, [1981, 256p., rus] 35-3931
Pile foundations on permafrost. Kopysov, N.S., et al, [1978, p.101-106, rus] 35-4115
Thermal interaction between buildings on base fills and frozen soil. Tishin, V.G., [1981, p.240-244, eng] 35-4150
Experimental investigations of the elastic moduli of the soil in a lateral fill. Fedorovich, D.I., et al, [1981, p.29-31, eng] 35-4152
Power supply to the Baykal Amur railroad. Petrov, N.K., [1981, p.2-5, rus] 35-4226
Controlling stresses in concrete dams. Epifanov, A.P., et al, [1981, p.5-8, rus] 35-4227
Construction of steam power stations in the North. Takh, M.G., [1981, p.26-28, rus] 35-4229
Inflatable structures in power engineering. Kul'nev, A.N., [1981, p.32-36, rus] 35-4230
Installation of gas reservoirs in freezing weather. Leonov, O.N., et al, [1981, p.47-48, rus] 35-4233
Pipeline construction in swampy permafrost areas. Ivantsov, D.M., [1981, p.13-16, rus] 35-4238
Construction of residential buildings in West Siberia. Seredin, V.G., et al, [1981, p.31-32, rus] 35-4240
Oil pumping stations in cold regions. Manasypov, F.S., [1981, p.33-34, rus] 35-4242
Earth dams and embankment construction in permafrost areas. Bezrukov, V.F., et al, [1981, p.18-19, rus] 35-4245
Shelters for winter maintenance of equipment. Taits, V.G., [1981, p.10-12, rus] 35-4279
Calculating water flow in freezing pipes. Karaush, S.A., et al, [1981, p.117-122, rus] 35-4290

Permafrost control

Timbering, maintenance and preservation of mining excavations. Gritsko, G.I., ed, [1979, 114p., rus] 35-196
Artificial cooling of permafrost bases. Makarov, V.I., [1980, p.37-41, rus] 35-596
Protection of vegetational cover in permafrost areas. Tyrtikov, A.P., [1980, p.14-18, rus] 35-1286
AP-401 anchors for pipelines in frozen ground. Trofimov, A.S., [1980, p.13-14, rus] 35-1635
Permafrost engineering research on Spitsbergen. Gregersen, O., [1980, p.3-6, eng] 35-1988
Soil preservation in permafrost and deep seasonal freezing areas. Kovda, V.A., et al, [1980, p.5-8, rus] 35-2252
Soil temperature decrease beneath thermopile foundations. Gorelik, IA.B., et al, [1980, p.19-20, rus] 35-2781
Power line support foundations in South Yakutia. Tkachenko, A.A., et al, [1981, p.46-49, rus] 35-2783
Environmental protection of the lower Ob' river area. Greshnova, E.V., [1980, p.136-137, rus] 35-3134
Environmental protection in areas of main pipeline construction and operation. Borodavkin, P.P., et al, [1981, 160p., rus] 35-3566

Permafrost dating

Permafrost studies in northern Québec. Taylor, A., et al, [1979, p.245-251, eng] 35-1042
History of permafrost development in Eurasia as exemplified by its regions. Mel'nikov, P.I., ed, [1981, 198p., rus] 35-4065
Cryogenic structure of the Amur River basin alluvium. Kostiaev, A.G., et al, [1981, p.126-153, rus] 35-4077

Permafrost depth

Slope processes in permafrost areas. Kolesnikov, S.F., [1979, p.68-74, rus] 35-65
Depth and distribution of permafrost on Mars. Kuz'min, R.O., [1980, p.1445-1448, rus] 35-76
Discontinuous permafrost distribution in Québec and Labrador. Brown, R.J.E., [1979, p.279-289, eng] 35-276
Soil formation in mountain taiga. Ogorodnikov, A.V., [1980, p.58-72, rus] 35-300
Phytocenotic structure of larch forest tundras. Norin, B.N., [1979, p.1553-1566, rus] 35-346
Oats in the permafrost zone. Denisov, G.V., [1979, 184p., rus] 35-812
Studies of forest soils and vegetation in the northeastern USSR. Shcherbakov, I.P., ed, [1971, 176p., rus] 35-1390
Thermal and water regimes of Yakutian soils. Savvinov, D.D., [1971, p.118-175, rus] 35-1396
Environmental protection in the Far North. Fretdin, I.L., [1980, p.65-72, rus] 35-1425
Geothermal conditions of sedimentary mantle in the Siberian Platform. Slavin, V.I., et al, [1980, p.5-13, rus] 35-1570
Permafrost in Altai Mountains. Maloletko, A.M., [1970, p.204-212, rus] 35-1572
Soils of Taymyr Peninsula. Vasil'evskaia, V.D., [1980, p.8-16, rus] 35-1612
Permafrost conditions in Spitsbergen. Liestöl, O., [1980, p.23-28, eng] 35-1990
Segregated ice, frost heave and thermokarst in permafrost. Pissart, A., [1975, p.89-96, fre] 35-1994
Controlling the climate of cryogenic soils. Savvinov, D.D., [1980, p.15-16, rus] 35-2256
Hydrothermal regimes of cryogenic soils. Kulikov, A.I., et al, [1980, p.76-78, rus] 35-2277
Relations between zero-isotherm depths and frozen layer thicknesses. Vecherskii, S.S., [1980, p.96-98, rus] 35-2284
Biological processes in Transbaikal soils. Kerzhentsev, A.S., [1980, p.100-102, rus] 35-2286
Physical properties and moisture regime of meadow soils. Khudiakov, O.I., et al, [1980, p.102-104, rus] 35-2287
Distribution and features of bottom sediments in Alaskan coastal waters. Sellmann, P.V., [1980, 50p., eng] 35-2598
Measurement of permafrost table by portable seismograph. Zhou, F., et al, [1980, p.9-12, chi] 35-2651
Use of piling in frozen ground. Crory, F.E., [1980, 21 p., eng] 35-2711
Soil mantle in the permafrost-taiga region. Sokolov, I.A., [1980, p.17-28, eng] 35-2761
Thixotropic nongleyed cryogenic soils. Sokolov, I.A., [1980, p.41-55, eng] 35-2763
Performance of industrial pipelines in frozen grounds. Sokolov, S.M., et al, [1980, p.8-12, rus] 35-2778
Relic cryogenic microrelief near Vyaz'ma. Berdnikov, V.V., [1981, p.200-211, rus] 35-3294
Isotope methods of studying rock stream formation. Morkovkina, I.K., et al, [1981, p.90-96, rus] 35-3300
Permafrost investigations in economically developing areas of the USSR. Pavlov, A.V., ed, [1980, 183p., rus] 35-3305
Recent processes which formed the present surface of the Yana-Indigirka Plain. Egorova, G.N., [1976, p.55-65, rus] 35-3830
General principles of the theory of permafrost development. Kudriavtsev, V.A., [1981, p.7-24, rus] 35-4066
History of permafrost development in the USSR and methods of its study. Baulin, V.V., et al, [1981, p.24-40, rus] 35-4067
Permafrost dynmaics in Transbaikal. Lakhtina, O.V., et al, [1981, p.133-125, rus] 35-4076
Water regime of cereal grasses in Yakutia. Grigor'eva, D.V., et al, [1981, 145p., rus] 35-4097
Decorative plants for landscaping residential areas in Yakutia. Krotova, Z.E., ed, [1980, 106p., rus] 35-4098
Testing decorative plants introduced in Yakutia. Krotova, Z.E., [1980, p.4-14, rus] 35-4099
Shrubs introduced in the Yakut Botanical Garden. Nazarova, E.I., [1980, p.15-24, rus] 35-4100
Root systems of trees and shrubs introduced in Yakutia. Dokhunaev, V.N., [1980, p.25-32, rus] 35-4101
Trees and shrubs in Yakutsk. Kornienko, V.A., [1980, p.64-69, rus] 35-4103
Physiological aspects of plant adaptation in polar regions. Konovalov, I.N., [1980, p.3-12, rus] 35-4312
Structure and biomass of larch taiga. Moskaliuk, T.A., [1979, p.16-27, rus] 35-4325
Soil cover structure in Alpine tundras. Ignatenko, I.V., et al, [1980, p.54-67, rus] 35-4335

Permafrost distribution

Cryogenic processes in the Baykal Amur railroad area. Lekhatinov, A.M., [1978, p.99-101, rus] 35-16
Depth and distribution of permafrost on Mars. Kuz'min, R.O., [1980, p.1445-1448, rus] 35-76
Mining problems in seismic permafrost areas. Nikolaev, V.V., et al, [1980, p.191-197, rus] 35-143
Geocryologic altitudinal zonation of northern Tien Shan. Gorbunov, A.P., et al, [1979, p.67-83, rus] 35-189
Large scale mapping of cryogenic phenomena. Severskii, E.V., [1979, p.105-112, rus] 35-192
Vertical electric sounding of permafrost. Nemov, A.E., [1979, p.112-122, rus] 35-193
Discontinuous permafrost distribution in Québec and Labrador. Brown, R.J.E., [1979, p.279-289, eng] 35-276
Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia. Popov, A.I., ed, [1980, 256p., rus] 35-279
Soil formation in mountain taiga. Ogorodnikov, A.V., [1980, p.58-72, rus] 35-300
Karst development in limestones of permafrost zones. Filippov, A.G., et al, [1980, p.942-944, rus] 35-305
Forecasting landscape development in cold regions. Kozhevnikov, IU.P., [1980, p.243-248, rus] 35-343
Cryogenic structure and ice content of perennially frozen rocks in the West Siberian Platform. Trofimov, V.T., et al, [1980, 246p., rus] 35-385
Thermal regime of oil-bearing rocks in Siberia. Nevskaia, N.M., [1975, p.102-105, rus] 35-399
Permafrost conditions in West Siberia. Shamanova, I.I., et al, [1980, p.94, rus] 35-772
Forecasting the effect of railroad construction on permafrost. Alekseev, V.R., et al, [1975, p.13-18, rus] 35-792
Geomorphologic analysis of Arctic continental shelf. Patyk-Kara, N.G., et al, [1980, p.91-98, rus] 35-952
Proposed history of permafrost development in Labrador-Ungava. Ives, J.D., [1979, p.233-244, eng] 35-1041
Permafrost distribution in the Great Whale River basin, Ungava. Botteron, G., et al, [1979, p.291-298, fre] 35-1045
Permafrost in the Chic-Chocs Mts., Quebec. Gray, J.T., et al, [1979, p.299-316, eng] 35-1046
Features of permafrost beneath the Beaufort Sea. Sellmann, P.V., et al, [1980, p.103-110, eng] 35-1153
Forecasting of subsea permafrost conditions in Chukchi and Beaufort Seas. Hopkins, D.M., et al, [1980, p.123-129, eng] 35-1155

Permafrost distribution *(cont.)*

International geological congress, 26th, 1979. Hydrogeology, engineering geology and construction materials. Reports of soviet geologists. Kulikov, G.V., ed, [1980, 247p., rus] **35-1349**

Surface glaciation and permafrost of West Siberia. Kaplianskaia, F.A., et al, [1978, p.18-28, rus] **35-1421**

Changing the course of rivers in the Arctic. Ivanov, V.V., [1980, p.106-123, rus] **35-1431**

Permafrost transformations near its southern bvoundary. Uvarkin, IU.T., et al, [1980, p.106-112, rus] **35-1533**

Geothermal conditions of sedimentary mantle in the Siberian Platform. Slavin, V.I., et al, [1980, p.5-13, rus] **35-1570**

Landscape types of the Baykal Amur railroad area. Kuz'min, V.A., [1980, p.11-98, rus] **35-1629**

Exogenic geologic processes and phenomena (Southern Yakutia). Ospennikov, E.N., et al, [1980, 227p., rus] **35-1701**

Engineering geology of East Siberia. Leshchikov, F.N., et al, [1980, p.45-53, rus] **35-1704**

Temperatures of north taiga soils. Krauklis, A.A., et al, [1980, p.61-70, rus] **35-1705**

Studies in ecology and environmental protection in East Siberia. Kozhova, O.M., [1980, p.96-104, rus] **35-1706**

Mapping vegetational resources of permafrost areas. Geleta, I.F., et al, [1980, p.114-124, rus] **35-1707**

Subalpine cryosolic soils in Banff and Jasper National Parks. Achuff, P.L., et al, [1980, p.579-581, eng] **35-1708**

Periglacial levels in high mountains of Europe and North Africa. Poser, H., ed, [1977, 354p., ger] **35-1730**

Hydrology. Grushevskiĭ, M.S., ed, [1980, 177p., rus] **35-1865**

Remote sensing studies of the water component. Grinberg, A.M., et al, [1980, p.152-154, rus] **35-1923**

Geophysical methods of studying permafrost in the USSR. Akimov, A.T., et al, [1980, 51p., rus] **35-1928**

Design of foundations in areas of significant frost penetration. Linell, K.A., et al, [1980, p.118-184, eng] **35-1975**

Vertical distribution of plants in the Putorana Mountains. Kuvaev, V.B., [1980, 261p., rus] **35-2051**

Forecasting permafrost transformation in areas of economic development. Vtiurin, B.I., [1980, p.50-57, rus] **35-2190**

Ground ice distribution maps. Ivanov, M.S., [1980, p.58-75, rus] **35-2191**

Soil formation in sporadic permafrost areas. Sazonov, A.G., [1980, p.39-41, rus] **35-2266**

Soil formation in different Alpine landscapes. Kuz'min, V.A., et al, [1980, p.71-73, rus] **35-2275**

Land reclamation in areas of discontinuous permafrost. Zamana, L.V., [1980, p.73-75, rus] **35-2276**

Soils of taiga and forested bald-peak areas. Ogorodnikov, A.V., [1980, p.81-83, rus] **35-2280**

Physical properties and moisture regime of meadow soils. Khudiakov, O.I., et al, [1980, p.102-104, rus] **35-2287**

Geocryology of the Khangay Mountains (Mongolia). Chigir, V.G., [1980, p.175-177, rus] **35-2310**

Thermokarst in Arctic regions of the USSR and abroad. Belorusova, Zh.M., [1972, p.41-43, rus] **35-2424**

Horizontal distribution of permafrost in China. Ding, D., et al, [1981, p.659-663, eng] **35-2528**

Protecting structures from frost damage. Chen, X., [1981, p.734-740, eng] **35-2534**

Distribution and features of bottom sediments in Alaskan coastal waters. Sellmann, P.V., [1980, 50p., eng] **35-2598**

German periglacial research in arctic and subarctic regions. Karte, J., [1979, p.97-115, ger] **35-2640**

Measurement of permafrost table by portable seismograph. Zhou, F., et al, [1980, p.9-12, chi] **35-2651**

Ancient permafrost and its content of clay minerals. Xing, Z., et al, [1980, p.39-44, chi] **35-2664**

Preparation of synthetic image map of permafrost in the north of Tuo-Tuo River. Luo, X., et al, [1980, p.70-71, chi] **35-2674**

Glaciological and geocryological field studies on King George Island during the 25th Soviet antarctic Expedition. Vtiurin, B.I., [1980, p.30, rus] **35-2811**

Geographic aspects of Siberian taiga. Sochava, V.B., [1980, 256p., rus] **35-2951**

Facies of soil cryogenesis and peculiarities of soil profile arrangement in them. Makeev, O.V., [1981, 87p., rus] **35-3053**

All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers. Treshnikov, A.F., ed, [1980, 147p., rus] **35-3103**

Changes in Arctic natural conditions due to human activities. Treshnikov, A.F., [1980, p.4-7, rus] **35-3104**

Subsea permafrost in the Laptev Sea area. Fartyshev, A.I., et al, [1980, p.134-135, rus] **35-3133**

Engineering-geological conditions of oil and gas-bearing areas in Northern Zaural'e. Zakharov, IU.F., et al, [1981, 143p., rus] **35-3227**

Beaufort seacoast permafrost studies. Rogers, J.C., et al, [1981, p.1-44, eng] **35-3235**

Characteristics of permafrost beneath the Beaufort Sea. Sellmann, P.V., et al, [1981, p.125-157, eng] **35-3256**

Permafrost in submerged areas of northern Bering Sea. Hopkins, D.M., [1981, p.188-202, eng] **35-3260**

Subsea permafrost: probing, thermal regime and data analysis. Osterkamp, T.E., et al, [1981, p.497-677, eng] **35-3267**

Problems of Pleistocene paleogeography in glacial and periglacial regions. Velichko, A.A., ed, [1981, 251p., rus] **35-3293**

Cryogenic and climatic parameters in paleoclimatology. Nechaev, V.P., [1981, p.211-220, rus] **35-3295**

Isotope method of studying permafrost hydrology. Afanasenko, V.E., et al, [1981, p.85-90, rus] **35-3299**

Seasonal cryolithozone in Central Siberia. Zabolotnik, S.I., et al, [1980, p.113-120, rus] **35-3324**

Frozen rocks in the southern Krasnoyarsk area. Shats, M.M., [1980, p.120-124, rus] **35-3325**

Geocryological conditions of the Kodar Range. An, V.V., et al, [1980, p.124-127, rus] **35-3326**

Ground ice development in East Yakutia. Gordeev, P.P., [1980, p.141-147, rus] **35-3329**

Paleocryogenic structure of deposits in the Baykal Mountains. Bosikov, N.P., et al, [1980, p.153-156, rus] **35-3331**

Climate and hydrology of permafrost areas. Bachurin, G.V., et al, [1980, p 3-41, rus] **35-3414**

Zones of permafrost distribution. Solomatin, V.I., [1981, p.39-44, rus] **35-3458**

Forecasting ground sagging due to permafrost thawing. Trofimov, V.T., et al, [1981, p.101-112, rus] **35-3460**

Distribution of rock glaciers and permafrost, based on freezing and thawing indices. Harris, S.A., [1981, p.376-381, eng] **35-3513**

Thermal balance of meadow vegetation and the climate of cryogenic flood-plain soils. Savvinov, D.D., et al, [1981, 176p., rus] **35-3567**

Periglacial wedges of Wyoming's intermontane basins. Mears, B., Jr., [1981, p.171-198, eng] **35-3677**

Erosion and deposition on Arctic shelves. Pavlidis, IU.A., et al, [1981, p.33-96, rus] **35-3887**

West Siberian climatic conditions. Soromotina, O.V., et al, [1981, p.82-92, rus] **35-3971**

Hydrology of permafrost in the Polar Ural Mountains. Oberman, N.G., [1980, p.5-13, rus] **35-3989**

Drainage in the faulted Aldan Plateau zone. Lygin, A.M., [1980, p.22-30, rus] **35-3991**

Chemical composition of waters infiltrating seasonally thawing sands. Anisimova, N.P., [1980, p.82-90, rus] **35-3997**

Geocryologic mapping of East Siberian mountains. Lomovtseva, N.S., [1980, p.127-134, rus] **35-4002**

History of permafrost development in Eurasia as exemplified by its regions. Mel'nikov, P.I., ed, [1981, 198p., rus] **35-4065**

General principles of the theory of permafrost development. Kudriavtsev, V.A., [1981, p.7-24, rus] **35-4066**

History of permafrost development in the USSR and methods of its study. Baulin, V.V., et al, [1981, p.24-40, rus] **35-4067**

Permafrost development in NE European USSR and W Siberia. Baulin, V.V., et al, [1981, p.41-60, rus] **35-4068**

History of permafrost development in the Timan-Ural area. Oberman, N.G., [1981, p.60-73, rus] **35-4069**

Permafrost formation in Ural Mountains. Oberman, N.G., [1981, p.73-78, rus] **35-4070**

Paleoclimatic reconstructions in West Siberia. Chekhovskiĭ, A.L., et al, [1981, p.78-84, rus] **35-4071**

Pleistocene permafrost in the Taz Peninsula. Belopukhova, E.B., [1981, p.92-96, rus] **35-4073**

Permafrost of the Sibirskiye Uvaly swamps. Shamanova, I.I., [1981, p.97-101, rus] **35-4074**

Permafrost dynmaics in Transbaikal. Lakhtina, O.V., et al, [1981, p.133-125, rus] **35-4076**

Late Cenozoic permafrost of Yakutia. Kaplina, T.N., [1981, p.153-181, rus] **35-4078**

Supercooled sediments and permafrost in Arctic seas. Zhigarev, L.A., [1981, p.181-191, rus] **35-4079**

Forestry problems in permafrost areas. Nikolaiuk, V.A., [1981, p.6-11, rus] **35-4276**

General conditions in arctic areas. Karri, J., [1981, 56p. + 5 figs., fin] **35-4293**

Biologic investigations in the Far East. Zhirmunskiĭ, A.V., ed, [1979, 183p., rus] **35-4307**

Use of satellites in surveying for urban construction. Krest'iashin, S.I., et al, [1981, 159p., rus] **35-4310**

Permafrost forecasting

Spatial and temporal variations of permafrost near Schefferville, Canada. Nicholson, F.H., [1979, p.265-277, eng] **35-1044**

Mining of frozen iron ore in northern Québec and Labrador. Garg, O.P., [1979, p.369-376, eng] **35-1051**

Forecasting permafrost transformation in areas of economic development. Vtiurin, B.I., [1980, p.50-57, rus] **35-2190**

Subsea permafrost in the Laptev Sea area. Fartyshev, A.I., et al, [1980, p.134-135, rus] **35-3133**

Prediction of offshore permafrost conditions. Smith, P.A., et al, [1981, p.159-255, eng] **35-3257**

Frozen rocks in the southern Krasnoyarsk area. Shats, M.M., [1980, p.120-124, rus] **35-3325**

Forecasting ground sagging due to permafrost thawing. Trofimov, V.T., et al, [1981, p.101-112, rus] **35-3460**

Permafrost heat balance

Spatial and temporal variations of permafrost near Schefferville, Canada. Nicholson, F.H., [1979, p.265-277, eng] **35-1044**

Surface heat balance in simulations of permafrost behavior. Miller, T.W., [1979, p.240-250, eng] **35-1110**

Thermal regime of permafrost in Yakutia. Zaĭtsev, V.N., [1975, p.99-104, eng] **35-2403**

Horizontal distribution of permafrost in China. Ding, D., et al, [1981, p.659-663, eng] **35-2528**

Radiation and heat balance of glaciers and permafrost. [1980, p.32-33, chi] **35-2661**

Cylindrical phase change approximation with effective thermal diffusivity. Lunardini, V.J., [1981, p.147-154, eng] **35-3671**

Permafrost heat transfer

Permafrost studies in northern Québec. Taylor, A., et al, [1979, p.245-251, eng] **35-1042**

Thermal and radar active layer measurement techniques. Pilon, J.A., et al, [1979, p.317-326, eng] **35-1047**

Permafrost hydrology

Weathering of permafrost in subarctic regions. Loginova, I.E., et al, [1978, p.93-94, rus] **35-14**

Cryogenic processes in the Baykal Amur railroad area. Lekhatinov, A.M., [1978, p.99-101, rus] **35-16**

Water supply in permafrost regions. Lin, F., [1980, p.32-36, chi] **35-85**

Soil water migration in seasonally frozen zones. Zhon, Y., [1980, p.46-53, chi] **35-89**

Seismotectonics and seismicity of the Baykal Amur railroad construction area. Odintsov, M.M., ed, [1980, 204p., rus] **35-137**

Baykal-Angarakan section of the Baykal Amur railroad. Lysak, S.V., et al, [1980, p.139-153, rus] **35-139**

Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979. Abstracts of the papers. [1979, 211p., rus] **35-245**

Boguchany artificial lake. Ground water and engineering geology of the area. Odintsov, M.M., ed, [1979, 157p., rus] **35-278**

Vegetation of the lower Kolyma tundra. Andreev, V.N., et al, [1980, p.5-43, rus] **35-283**

Formation of ground water balance in the USSR. Lebedev, A.V., [1980, 287p., rus] **35-345**

Estimation of small basin flood flows in the discontinuous permafrost zone. Vincent, D.G., et al, [1979, p.229-238, eng] **35-416**

Hydrologic role of shallow organic soils in cold climates. Slaughter, C.W., et al, [1979, p.380-389, eng] **35-424**

Remote sensing and cold climate hydrology. Kruus, J., [1979, p.403-413., eng] **35-426**

Runoff and water balance in Arctic lake basins. Newbury, R.W., et al, [1979, p.516-535, eng] **35-431**

Winter water quality and hydrology of Ogilvie River system. Schreier, H., [1979, p.559-569, eng] **35-434**

Heat and moisture transport similar to those in permafrost. Hayes, L.J., et al, [1980, p.185-192, eng] **35-734**

Unfrozen water content in frozen soils. Patterson, D.E., et al, [1980, p.205-210, eng] **35-736**

Permafrost conditions in West Siberia. Shamanova, I.I., et al, [1980, p.94, rus] **35-772**

Water balance of the Bratsk reservoir. Geta, R.I., [1978, 134p., rus] **35-811**

Classification of cryogenic processes. Vtiurin, B.I., et al, [1980, p.13-22, rus] **35-950**

Active layer hydrology in discontinuous permafrost. Wright, R.K., [1979, p.359-368, eng] **35-1050**

Geocryological conditions of formation of Upper Pleistocene and Holocene deposits in the northern eastern USSR. Novoseletskiĭ, R.N., ed, [1976, 88p., rus] **35-1143**

Ice bearing loess in the Yana-Omoloy Interfluve. Tomirdiaro, S.V., et al, [1976, p.3-11, rus] **35-1144**

Cryolithology of the Mamontovaya Mountain formations. Kuznetsov, IU.V., [1976, p.12-21, rus] **35-1145**

Surface water resources in the Tomsk region. Krasheninnikov, M.V., et al, [1976, p 149-155, rus] **35-1193**

Seminar on the studies of naleds. Alekseev, V.R., et al, [1980, p.272, rus] **35-1258**

Landscape types of the Ob' River floodplain. Kolomiets, G.E., [1980, p.101-110, rus] **35-1338**

Studies of forest soils and vegetation in the northeastern USSR. Shcherbakov, I.P., ed, [1971, 176p., rus] **35-1390**

Thermal and water regimes of Yakutian soils. Savvinov, D.D., [1971, p.118-175, rus] **35-1396**

Physical properties of the tundra soil-water system at Stordalen, Abisko. Rydén, B.E., et al, [1980, p.27-54, eng] **35-1472**

Permafrost in Altai Mountains. Maloletko, A.M., [1970, p.204-212, rus] **35-1572**

Water supply in populated areas of the North. Vdovin, IU.I., [1980, 133p., rus] **35-1577**

Sub-surface processes related to ground water and ice. Embleton, C., et al, [1979, p.187-212, eng] **35-1687**

The Earth's cold (guide for students). Romanovskiĭ, N.N., [1980, 190p., rus] **35-1700**

Exogenic geologic processes and phenomena (Southern Yakutia). Ospennikov, E.N., et al, [1980, 227p., rus] 35-1701
Hydrometeorological provisions for the Baykal Amur railroad. Dobroumov, B.M., et al, [1980, p.3-10, rus] 35-1791
Calculating small river runoff in permafrost areas. Liubimov, G.A., [1980, p.54-63, rus] 35-1795
Freeze-up of rivers in the Baykal Amur railroad zone. Liubimov, G.A., [1980, p.64-73, rus] 35-1796
Formation of ground water naleds. Sokolov, B.L., [1980, p.74-90, rus] 35-1797
Climate and topography of Wrangel Island. Skryl'nik, G.P., [1976, p.20-43, rus] 35-1851
Hydrology. Grushevskii, M.S., ed, [1980, 177p., rus] 35-1865
Formation of large naleds. Kolotaev, V.N., [1980, p.37-45, rus] 35-1867
Naled disintegration by water streams. Markov, M.L., [1980, p.46-52, rus] 35-1868
Space-time variations of naled albedo. Deikin, B.N., [1980, p.53-60, rus] 35-1869
Geophysical methods of studying permafrost in the USSR. Akimov, A.T., et al, [1980, 51p., rus] 35-1928
Design of foundations in areas of significant frost penetration. Linell, K.A., et al, [1980, p.118-184, eng] 35-1975
Permafrost conditions in Spitsbergen. Liestöl, O., [1980, p.23-28, eng] 35-1990
Builder's guide to water and energy. Seifert, R.D., et al, [1980, 78p., eng] 35-2021
Environmental protection in mining areas. El'chaninov, E.A., [1980, p.43-49, rus] 35-2189
Permafrost stability and human activities. Kuznetsova, I.L., [1980, p.75-107, rus] 35-2192
Maps of engineering-geocryologic regionalization of the central Yamal Peninsula. Parmuzin, S.IU., et al, [1980, p.108-127, rus] 35-2193
Soil formation in different Alpine landscapes. Kuz'min, V.A., et al, [1980, p.71-73, rus] 35-2275
Hydrothermal regimes of cryogenic soils. Kulikov, A.I., et al, [1980, p.76-78, rus] 35-2277
Hydrothermal regimes of mountain taiga soils. Khudiakov, O.I., [1980, p.177-178, rus] 35-2311
Thermokarst in Arctic regions of the USSR and abroad. Belorusova, Z.M., [1972, p.41-43, rus] 35-2424
Thickness of aeration zones in permafrost. Oberman, N.G., [1981, p.127-133, rus] 35-2453
Water chemistry in a permafrost environment, Alaska. Krothe, N.C., [1981, p.570-590, eng] 35-2525
Subarctic snowmelt runoff generation. Kane, D.L., et al, [1981, p.591-601, eng] 35-2526
Vegetation effect on hydrothermal regime of tundra soils. Skriabin, S.Z., et al, [1981, p.82-86, rus] 35-2769
Permafrost hydrology in Dahinganling, China. Zheng, Q., [1980, p.44-51, chi] 35-2918
Geographic aspects of Siberian taiga. Sochava, V.B., [1980, 256p., rus] 35-2951
Identification of naleds on satellite photographs. Abakumenko, V.P., et al, [1980, p.75-82, rus] 35-2977
Lake drainage, Richards Island, N.W.T. Mackay, J.R., [1981, p.63-68, eng] 35-3084
Intensification of ground freezing processes due to river diversion. Shpolianskaia, N.A., [1980, p.118-119, rus] 35-3128
Cryolithologic analysis. Gasanov, Sh.Sh., [1981, 195p., rus] 35-3211
Subsea permafrost: probing, thermal regime and data analysis. Osterkamp, T.E., et al, [1981, p.497-677, eng] 35-3267
Forecasting temperature regime of earth fill embankments. Konstantinov, I.P., et al, [1981, p.121-134, rus] 35-3290
Isotope method of studying permafrost hydrology. Afanasenko, V.E., et al, [1981, p.85-90, rus] 35-3299
Gas permeability of permafrost in the Vilyuy watershed area. Olovin, B.A., et al, [1980, p.83-90, rus] 35-3320
Paleocryogenic structure of deposits in the Baykal Mountains. Bosikov, N.P., et al, [1980, p.153-156, rus] 35-3331
Hydrology of northern tundra. Rydén, B.E., [1981, p.115-137, eng] 35-3379
Climate and waters of Siberia. Bachurin, G.V., ed, [1980, 232p., rus] 35-3413
Climate and hydrology of permafrost areas. Bachurin, G.V., et al, [1980, p.3-41, rus] 35-3414
Waters of the Lake Baykal area. Bachurin, G.V., [1980, p.190-200, rus] 35-3426
Principles and methods of evaluating naled danger Alekseev, V.R., [1980, p.117-122, rus] 35-3464
Origin of hillocky terrain in permafrost areas. Tarakanov, A.G., [1981, p.48-52, rus] 35-3482
Thermal balance of meadow vegetation and the climate of cryogenic flood-plain soils. Savvinov, D.D., et al, [1981, 176p., rus] 35-3567
Saline soils of West Siberia. Kurachev, V.M., et al, [1981, 152p., rus] 35-3568
Hydrology and hydrogeochemistry of the Don Juan Pond area. Harris, H.J.H., [1981, 341p., eng] 35-3607
Natural resources of the northeastern USSR. Lozhkin, A.V., ed, [1976, 152p., rus] 35-3825
Recent processes which formed the present surface of the Yana-Indigirka Plain. Egorova, G.N., [1976, p.55-65, rus] 35-3830
Thermokarst lakes in the Anadyr lowlands. Riabchun, V.K., [1976, p.66-72, rus] 35-3831
Artificial taliks in permafrost areas. Gol'dtman, V.G., et al, [1976, p.77-84, rus] 35-3833
Peculiarities of foundation design in petroleum provinces of West Siberia. Konovalov, A.A., et al, [1981, 167p., rus] 35-3918
Hydrological research in Canada. Brown, I.C., comp, [1978, p.247-251, eng] 35-3929
Interrelationship between surface and ground water in the permafrost zone. Piguzova, V.M., ed, [1980, 146p., rus] 35-3988
Hydrology of permafrost in the Polar Ural Mountains. Oberman, N.G., [1980, p.5-13, rus] 35-3989
Origin of the Timpton springs. Artemenko, I.G., [1980, p.14-21, rus] 35-3990
Drainage in the faulted Aldan Plateau zone. Lygin, A.M., [1980, p.22-30, rus] 35-3991
Dynamics of soil water runoff in permafrost areas. Khersonskii E.S., et al, [1980, p.37-43, rus] 35-3993
Water vapor condensation processes in permafrost areas. Shepelev, V.V., [1980, p.43-56, rus] 35-3994
Chemical composition of waters infiltrating seasonally thawing sands. Anisimova, N.P., [1980, p.82-90, rus] 35-3997
Water seepage from Lake Syrdakh. Tishin, M.I., [1980, p.90-97, rus] 35-3998
Relations between ice of different origin. Sheinkman, V.S., [1980, p.97-103, rus] 35-3999
Relationships between different genetic types of ground ice. Klimovskii, I.V., et al, [1980, p.103-114, rus] 35-4000
Microelement migration in waters of permafrost areas. Makarov, V.N., [1980, p.114-127, rus] 35-4001
Geocryologic mapping of East Siberian mountains. Lomovtseva, N.S., [1980, p.127-134, rus] 35-4002
Chart of ground water movement in East Siberia. Piguzova, V.M., [1980, p.135-138, rus] 35-4003
Fire and climax spruce forests in central Yukon. Strang, R.M., et al, [1981, p.60-61, eng] 35-4051
Permafrost formation in Ural Mountains. Oberman, N.G., [1981, p.73-78, rus] 35-4070
Yamal Peninsula. Danilova, N.S., et al, [1981, p.84-91, rus] 35-4072
Pleistocene permafrost in the Taz Peninsula. Belopukhova, E.B., [1981, p.92-96, rus] 35-4073
Permafrost of the Sibirskiye Uvaly swamps. Shamanova, I.I., [1981, p.97-101, rus] 35-4074
Forestry problems in permafrost areas. Nikolaiuk, V.A., [1981, p.6-11, rus] 35-4276
Use of satellites in surveying for urban construction. Krest'iashin, S.I., et al, [1981, 159p., rus] 35-4310
Humification processes in soils of the Okhotsk Sea area. Andreev, D.P., [1979, p.146-149, rus] 35-4331

Permafrost indicators

The Earth's cold (guide for students). Romanovskii, N.N., [1980, 190p., rus] 35-1700

Permafrost mass transfer

Stability of slopes in permafrost. McRoberts, E.C., [1973, 370p., eng] 35-708
Behavior of thawing slopes in permafrost. Pufahl, D.E., [1976, 323p., eng] 35-1468

Permafrost origin

Geomorphology and neotectonics of mountain areas in the Far East. Sizikov, A.I., ed, [1977, 132p., rus] 35-57
Cryosphere development and the formation of exogenic relief. Skryl'nik, G.P., [1977, p.15-20, rus] 35-58
Studying coastal plains and shelves of Arctic seas. Danilov, I.D., ed, [1979, 135p., rus] 35-64
Subsea permafrost in the Laptev sea shelf. Zhigarev, L.A., [1979, p.91-96, rus] 35-66
The Earth's cold (guide for students). Romanovskii, N.N., [1980, 190p., rus] 35-1700
Cryolithogenesis as an independent type of lithogenesis. Popov, A.I., [1979, p.7-25, rus] 35-1828
Origin of the Edoma series in Yakutia. Arkhangelov, A.A., et al, [1979, p.110-135, rus] 35-1833
Studying global factors of climato-morphogenetic phenomena of the Far East. Nikol'skaia, V.V., ed, [1979, 163p., rus] 35-3045
Cryolithologic analysis. Gasanov, Sh.Sh., [1981, 195p., rus] 35-3211
Recent deposits and Pleistocene paleogeography of Chukotskiy Peninsula. Kaplin, P.A., ed, [1980, 295p., rus] 35-3930
History of permafrost development in Eurasia as exemplified by its regions. Mel'nikov, P.I., ed, [1981, 198p., rus] 35-4065
General principles of the theory of permafrost development. Kudriavtsev, V.A., [1981, p.7-24, rus] 35-4066
History of permafrost development in the USSR and methods of its study. Baulin, V.V., et al, [1981, p.24-40, rus] 35-4067
Permafrost development in NE European USSR and W Siberia. Baulin, V.V., et al, [1981, p.41-60, rus] 35-4068
History of permafrost development in the Timan-Ural area. Oberman, N.G., [1981, p.60-73, rus] 35-4069
Permafrost formation in Ural Mountains. Oberman, N.G., [1981, p.73-78, rus] 35-4070
Yamal Peninsula. Danilova, N.S., et al, [1981, p.84-91, rus] 35-4072
Pleistocene permafrost in the Taz Peninsula. Belopukhova, E.B., [1981, p.92-96, rus] 35-4073
Permafrost of the Sibirskiye Uvaly swamps. Shamanova, I.I., [1981, p.97-101, rus] 35-4074
Cryogenic processes related to changes in paleogeographic conditions. Gravis, G.F., [1981, p.102-113, rus] 35-4075
Late Cenozoic permafrost of Yakutia. Kaplina, T.N., [1981, p.153-181, rus] 35-4078
Supercooled sediments and permafrost in Arctic seas. Zhigarev, L.A., [1981, p.181-191, rus] 35-4079

Permafrost physics

Subsea permafrost in the Laptev sea shelf. Zhigarev, L.A., [1979, p.91-96, rus] 35-66
Permafrost and relation between glaciation and periglaciation. Cui, Z., [1980, p.1-6, chi] 35-117
Formation and evolution of permanent ice mound on Qing-Zang Plateau. An, Z., [1980, p.25-30, chi] 35-122
Discussion about "Permafrost classification for engineering". Zhang, C., [1980, p.58-60, chi] 35-128
Dynamic properties of frozen silt under cyclic loading. Czajkowski, R.L., et al, [1980, p.963-980, eng] 35-526
Electrical resistivity measurements in permafrost. Osterkamp, T.E., et al, [1980, p.277-286, eng] 35-745
Geophysical methods of studying permafrost in the USSR. Akimov, A.T., et al, [1980, 51p., rus] 35-1928
Statistical methods of intepreting electroprofiling data. Il'ina, E.B., [1974, p.86-88, eng] 35-2398
Oxygen and hydrogen isotope effects on freezing of soil water. Michel, F., et al, [1978, 43p., eng] 35-2537
Electronic device for permafrost studies. Liu, G., [1980, p.29-30, chi] 35-2659
Radiation and heat balance of glaciers and permafrost [1980, p.32-33, chi] 35-2661
Numerical interpretation of resistivity sounding data in permafrost. He, Y., [1980, p.37-39, chi] 35-2663
Microwaves for surveying of glaciers and permafrost on Qingzang Plateau. Wang, J., et al, [1980, p.56-60, chi] 35-2669
Heat transfer in cold climates. Lunardini, V.J., [1981, 731p., eng] 35-3429
Electrical grounding in permafrost. Al'tshuler, E.B., [1980, p.34-35, rus] 35-3535
Periglacial geomorphology and permafrost. French, H.M., [1970, p.254-261, eng] 35-3558
Permafrost engineering: an introduction to northern engineering. Lunardini, V.J., [1975, 444p., eng] 35-3658
Some nonsorted patterned ground types in northern Canada. Zoltai, S.C., et al, [1981, p.139-151, eng] 35-4088
Soil and permafrost surveys in the Arctic. Linell, K.A., et al, [1981, 279p., eng] 35-4128

Permafrost preservation

Prudhoe Bay Project; Final environmental impact statement. [1980, 416p., eng] 35-34
Shore crossing techniques for offshore pipelines in Arctic regions. Marcellus, R.W., et al, [1979, p.201-215, eng] 35-171
Construction of foundations in permafrost. Linell, K.A., et al, [1980, 310p., eng] 35-886
Surface coal mining control and reclamation act in Alaska, 1977. [1980, 328p., eng] 35-948
Thermal vertical supports for the trans-Alaska pipeline. Pearson, S.W., [1979, p.225-231, eng] 35-1109
Surface heat balance in simulations of permafrost behavior. Miller, T.W., [1979, p.240-250, eng] 35-1110
Geotechnical conditions during the trans-Alaska pipeline construction. Luscher, U., et al, [1979, p.128-133, eng] 35-1112
Equations speed permafrost-area line analysis. King, G.G., [1980, p.80-84, eng] 35-1498
Permafrost and human activities in the Arctic and Subarctic. Péwé, T.L., [1979, p.333-344, eng] 35-1952
Improvement of bearing capacity of pipe piles by corrugations. Thomas, H.P., et al, [1980, p.229-234, eng] 35-1979
Subgrade cooling for stabilization of permafrost beneath structures. Barthelemy, J.L., [1980, p.235-261, eng] 35-1980
Permafrost and construction work in Svalbard. Mellerud, O.T., [1980, p.39-43, nor] 35-1992
Construction and performance of frozen gravel fills. Tart, R.G., et al, [1981, p.693-704, eng] 35-2531
Snow pads for pipeline construction in Alaska. Johnson, P.R., et al, [1980, 28p., eng] 35-2584
Protection of the environment in northern Siberia. Gerasimov, I.P., [1980, p.191-202, eng] 35-2626
Piles in permafrost for bridge foundations. Crory, F.E., et al, [1967, 41p., eng] 35-2753
Conquering Alaska's Arctic drilling problems. Pt.2 Drilling procedures. Moore, S.D., [1981, p.90, 94, 96, 100, eng] 35-3639
Sublimation and its control in the CRREL permafrost tunnel. Johansen, N.I., [1981, 12p., eng] 35-3736
Simulation of a hot pipeline buried in permafrost. Hayes, L.J., [1978, 8p., eng] 35-3782

Permafrost structure

Faulting and plastic deformation of frozen fines Ermolin, E.D., (1979, p.42-66, rus) **35-188**

Development of cryogenic relief in Pamirs and Tien Shan Ermolin, E.D., (1979, p.88-105, rus) **35-191**

Vertical electric sounding of permafrost Nemov, A.E., (1979, p.112-122, rus) **35-193**

Soil formation on paleocryogenic fines Gorbunova, I.A., (1979, p.122-130, rus) **35-194**

Bogutchany artificial lake Ground water and engineering geology of the area Odintsov, M.M., ed. (1979, 157p., rus) **35-278**

Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia Popov, A.I., ed. (1980, 256p., rus) **35-279**

Karst development in limestones of permafrost zones Efimov, A.G., et al. (1980, p.942-944, rus) **35-305**

Cryogenic structure and ice content of perennially frozen rocks in the West Siberian Platform Trofimov, V.T., et al. (1980, 246p., rus) **35-385**

Podsolization in northern taiga Vasil'evskaia, V.D., et al. (1980, p.94-101, rus) **35-501**

Calculating loads of frozen rocks on timber in mines Sleptsov, A.F., et al. (1980, p.101-103, rus) **35-634**

Stability of mining excavations in permafrost areas Plesnitsev, V.V., (1980, p.103-106, rus) **35-635**

Protection of vegetational cover in permafrost areas Tyrtikov, A.P., (1980, p.14-18, rus) **35-1286**

Gullies in permafrost areas Shishkina, L.P., (1980, p.22-24, rus) **35-1288**

Experimental Seismic forecasts in permafrost areas Solonenko, V.P., (1980, p.129-143, rus) **35-1350**

Geotechnical properties of fine-grained permafrost soils Roggensack, W.D., (1977, 449p., eng) **35-1467**

Permafrost transformations near its southern boundary Uvarkin, Iu.T., et al. (1980, p.106-112, rus) **35-1533**

Soils and vegetation of alassy Destatkin, R.V., (1980, p.72-79, rus) **35-1568**

Exogenic geologic processes and phenomena (Southern Yakutia) Ospennikov, E.N., et al. (1980, 227p., rus) **35-1701**

Structure and growth of ice wedges Solomatin, V.I., (1979, p.157-162, rus) **35-1836**

Geophysical methods of studying permafrost in the USSR Akimov, A.T., et al. (1980, 51p., rus) **35-1928**

Forecasting permafrost transformation in areas of economic development Vtiurin, B.I., (1980, p.50-57, rus) **35-2190**

Ground ice distribution maps Ivanov, M.S., (1980, p.58-75, rus) **35-2191**

Maps of engineering-geocryologic regionalization of the central Yamal Peninsula Parmuzin, S.Iu., et al. (1980, p.108-127, rus) **35-2193**

Buried soils in the Edoma formation of Yakutia Gubin, S.V., (1980, p.171-173, rus) **35-2308**

Soil preservation in northern territories Chigir, V.G., (1980, p.188-190, rus) **35-2313**

Statistical methods of interpreting electroprofiling data Il'ina, E.B., (1974, p.86-88, eng) **35-2398**

Composition and properties of Upper Pleistocene deposits of the Yana-Indigirka coastal lowland Trush, N.I., et al. (1975, p.59-69, eng) **35-2401**

Thermokarst in Arctic regions of the USSR and abroad Belorusova, Zh.M., (1972, p.41-43, rus) **35-2424**

Correlation of perennially frozen rocks Kaplina, T.N., et al. (1980, p.74-81, rus) **35-2454**

Marine sediments and permafrost structure in Severnaya Zemlya Kostaev, A.G., et al. (1981, p.183-187, rus) **35-2767**

Glaciological and geocryological field studies on King George Island during the 25th Soviet antarctic Expedition Vtiurin, B.I., (1980, p.30, rus) **35-2811**

Cryolithologic analysis Gasanov, Sh.Sh., (1981, 195p., rus) **35-3211**

Cryogenic relief features and vegetation in Arctic islands Matveeva, N.V., (1980, p.1543-1559, rus) **35-3217**

Origin of frozen loess (Edoma) formation in Yakutia Vtiurin, B., et al. (1980, p.265-271, rus) **35-3232**

Studying gas permeability of massive frozen rocks Olovin, B.A., (1980, p.90-98, rus) **35-3321**

Thermodelapsing formations deposits of young thermokarst basins Ivanov, M.S., (1980, p.132-140, rus) **35-3328**

Cryogenic structure of moraines in Zailiyskiy Alatau Ermolin, E.D., (1980, p.147-153, rus) **35-3330**

Zones of permafrost distribution Solomatin, V.I., (1981, p.39-44, rus) **35-3458**

Forecasting ground sagging due to permafrost thawing Trofimov, V.T., et al. (1981, p.101-112, rus) **35-3460**

Recent processes which formed the present surface of the Yana-Indigirka Plain Egorova, G.N., (1976, p.55-65, rus) **35-3830**

Thermokarst lakes in the Anadyr lowlands Riabchun, V.K., (1976, p.66-72, rus) **35-3831**

Recent deposits and Pleistocene paleogeography of Chukotskiy Peninsula Kaplin, P.A., ed. (1980, 295p., rus) **35-3930**

Interrelationship between surface and ground water in the permafrost zone Piguzova, V.M., ed. (1980, 146p., rus) **35-3988**

Dynamics of soil water runoff in permafrost areas Khersonskii, E.S., et al. (1980, p.37-43, rus) **35-3993**

Relationships between different genetic types of ground ice Klimovskii, I.V., et al. (1980, p.103-114, rus) **35-4000**

Geocryologic mapping of East Siberian mountains Lomovtseva, N.S., (1980, p.127-134, rus) **35-4002**

General principles of the theory of permafrost development Kudriavtsev, V.A., (1981, p.7-24, rus) **35-4066**

History of permafrost development in the USSR and methods of its study Baulin, V.V., et al. (1981, p.24-40, rus) **35-4067**

Permafrost development in NE European USSR and W Siberia Baulin, V.V., et al. (1981, p.41-60, rus) **35-4068**

History of permafrost development in the Timan-Ural area Oberman, N.G., (1981, p.60-73, rus) **35-4069**

Paleoclimatic reconstructions in West Siberia Chekhovskii, A.L., et al. (1981, p.78-84, rus) **35-4071**

Yamal Peninsula Danilova, N.S., et al. (1981, p.84-91, rus) **35-4072**

Pleistocene permafrost in the Taz Peninsula Belopukhova, E.B., (1981, p.92-96, rus) **35-4073**

Permafrost of the Sibirskiye Uvaly swamps Shamanova, I.I., (1981, p.97-101, rus) **35-4074**

Cryogenic processes related to changes in paleogeographic conditions Gravis, G.F., (1981, p.102-113, rus) **35-4075**

Late Cenozoic permafrost of Yakutia Kaplina, T.N., (1981, p.153-181, rus) **35-4078**

Soil cover structure in Alpine tundras Ignatenko, I.V., et al. (1980, p.54-67, rus) **35-4335**

Permafrost thermal properties

Baykal-Angarakan section of the Baykal-Amur railroad Lysak, S.V., et al. (1980, p.139-153, rus) **35-139**

Timbering, maintenance and preservation of mining excavations Gritsko, G.I., ed. (1979, 114p., rus) **35-196**

Mining in permafrost areas Tiumin, V.P., (1979, p.62-64, rus) **35-197**

Mining excavations in permafrost areas Avksent'ev, I.V., et al. (1979, p.105-106, rus) **35-199**

Drilling and sampling in frozen ground Reimers, S., (1980, p.13-17, eng) **35-256**

Geophysical study of a palsa field at Poste-de-la-Baleine, Ungava Seguin, M.K., et al. (1979, p.327-337, fre) **35-1048**

Mining of frozen iron ore in northern Quebec and Labrador Garg, O.P., (1979, p.369-376, eng) **35-1051**

Thermodynamical study of the Martian permafrost Coradini, M., et al. (1979, p.8115-8130, eng) **35-1103**

Observation on permafrost within the Bayan-Nuurin-khotnor basin (Mongolia) Babiński, Z., et al. (1976, p.1-17, poly) **35-1165**

Calculating temperature fluctuation in permafrost Bronfenbrener, L.E., et al. (1980, p.8-10, rus) **35-1633**

Phase change around a circular pipe Lunardini, V.J., (1980, 18p., eng) **35-1894**

Thermal interaction of structures and permafrost Porkhaev, G.V., et al. (1980, p.85-96, eng) **35-1973**

Analysis of foundations in permafrost Vialov, S.S., et al. (1980, p.97-117, eng) **35-1974**

Utilities delivery in northern regions (1980, 542p., eng) **35-2107**

Use of a geothermal model in northern municipal projects Kent, D., et al. (1980, p.317-331, eng) **35-2126**

Water and sewer utilities for Barrow, Alaska Leman, L.D., (1980, p.484-506, eng) **35-2135**

Hydrothermal regimes of cryogenic soils Kulikov, A.I., et al. (1980, p.76-78, rus) **35-2277**

Construction and performance of frozen gravel fills Tart, R.G., et al. (1981, p.693-704, eng) **35-2531**

Underground thermal current meter and its application in permafrost Zhu, G., et al. (1980, p.15-18, chi) **35-2653**

Thermometer used during permafrost drilling Zhu, G., et al. (1980, p.18-20, chi) **35-2654**

Measuring ground temperature of permafrost with thermistor Cheng, G., (1980, p.66-68, chi) **35-2923**

Intensification of ground freezing processes due to river diversion Shpolianskaia, N.A., (1980, p.118-119, rus) **35-3128**

Subsea permafrost probing, thermal regime and data analysis Osterkamp, T.E., et al. (1981, p.497-677, eng) **35-3267**

Thermal properties of frozen coarse clastics Gavril'ev, R.I., et al. (1981, p.5-22, rus) **35-3281**

Heat balance of soils with disturbed and undisturbed vegetational cover Ivanova, I.I., et al. (1980, p.19-23, rus) **35-3308**

Measuring temperature of upper permafrost layers Gennadinik, B.I., et al. (1980, p.68-79, rus) **35-3318**

Utilization of remote sensing in Alaskan permafrost studies Hall, D.K., (1981, p.676-684, eng) **35-3442**

International forum of geocryologists Mel'nikov, P.I., et al. (1979, p.109-119, rus) **35-3470**

Methods and equipment for temperature measurements in subsea permafrost Osterkamp, T.E., et al. (1981, 32p., eng) **35-3549**

Soil and permafrost conditions in the Alaskan Beaufort Sea Miller, D.L., et al. (1980, p.325-338, eng) **35-3637**

Permafrost engineering, an introduction to northern engineering Lunardini, V.J., (1975, 444p., eng) **35-3658**

Soil heat-balance regime in the north of the USSR Pavlov, A.V., (1981, p.129-135, eng) **35-3669**

Simulation of a hot pipeline buried in permafrost Hayes, L.J., (1978, 8p., eng) **35-3782**

Determination of the thermophysical characteristics of alternatively freezing and thawing dispersed media by the method of solving inverse problems of heat conduction Pavlov, A.R., et al. (1981, p.885-589, eng) **35-3817**

History of permafrost development in Eurasia as exemplified by its regions Mel'nikov, P.I., ed. (1981, 198p., rus) **35-4065**

General principles of the theory of permafrost development Kudriavtsev, V.A., (1981, p.7-24, rus) **35-4066**

History of permafrost development in the USSR and methods of its study Baulin, V.V., et al. (1981, p.24-40, rus) **35-4067**

Permafrost development in NE European USSR and W Siberia Baulin, V.V., et al. (1981, p.41-60, rus) **35-4068**

Permafrost thickness

Mining problems in seismic permafrost areas Nikolaev, V.V., et al. (1980, p.191-197, rus) **35-143**

Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia Popov, A.I., ed. (1980, 256p., rus) **35-279**

Cryogenic structure and ice content of perennially frozen rocks in the West Siberian Platform Trofimov, V.T., et al. (1980, 246p., rus) **35-385**

Thermal regime of oil deposits in Siberia Grubov, I.A., (1975, p.70-75, rus) **35-398**

Thermal regime of oil-bearing rocks in Siberia Nevskaia, N.M., (1975, p.102-105, rus) **35-399**

Permafrost conditions in West Siberia Shamanova, I.I., et al. (1980, p.94, rus) **35-772**

Proposed history of permafrost development in Labrador-Ungava Ives, J.D., (1979, p.233-244, eng) **35-1041**

Permafrost studies in northern Quebec Taylor, A., et al. (1979, p.245-251, eng) **35-1042**

Permafrost and active layer in the forest tundra Gray, J.T., et al. (1979, p.253-264, fre) **35-1043**

Permafrost distribution in the Great Whale River basin, Ungava Botteron, G., et al. (1979, p.291-298, fre) **35-1045**

Permafrost in the Chic-Chocs Mts., Quebec Gray, J.T., et al. (1979, p.299-316, eng) **35-1046**

Cryogenic mineral mounds of the Leaf River lowlands, Ungava Payette, S., et al. (1979, p.339-358, fre) **35-1049**

Permafrost transformations near its southern boundary Uvarkin, Iu.T., et al. (1980, p.106-112, rus) **35-1533**

Geothermal conditions of sedimentary mantle in the Siberian Platform Slavin, V.I., et al. (1980, p.5-13, rus) **35-1570**

Permafrost in Altai Mountains Maloletko, A.M., (1970, p.204-212, rus) **35-1572**

Geophysical methods of studying permafrost in the USSR Akimov, A.T., et al. (1980, 51p., rus) **35-1928**

Relations between zero-isotherm depths and frozen layer thicknesses Vecherskii, S.S., (1980, p.96-98, rus) **35-2284**

Biological processes in Transbaikal soils Kerzhentsev, A.S., (1980, p.100-102, rus) **35-2286**

Physical properties and moisture regime of meadow soils Khudiakov, O.I., et al. (1980, p.102-104, rus) **35-2287**

Microwaves for surveying of glaciers and permafrost on Qingzang Plateau Wang, J., et al. (1980, p.56-60, chi) **35-2669**

Performance of industrial pipelines in frozen grounds Sokolov, S.M., et al. (1980, p.8-12, rus) **35-2778**

Soviets share polar problem Novikov, F., (1979, p.16-17, eng) **35-3518**

Soil and permafrost conditions in the Alaskan Beaufort Sea Miller, D.L., et al. (1980, p.325-338, eng) **35-3637**

Geocryologic mapping of East Siberian mountains Lomovtseva, N.S., (1980, p.127-134, rus) **35-4002**

General principles of the theory of permafrost development Kudriavtsev, V.A., (1981, p.7-24, rus) **35-4066**

History of permafrost development in the USSR and methods of its study Baulin, V.V., et al. (1981, p.24-40, rus) **35-4067**

Permafrost development in NE European USSR and W Siberia Baulin, V.V., et al. (1981, p.41-60, rus) **35-4068**

History of permafrost development in the Timan-Ural area Oberman, N.G., (1981, p.60-73, rus) **35-4069**

Paleoclimatic reconstructions in West Siberia Chekhovskii, A.L., et al. (1981, p.78-84, rus) **35-4071**

Permafrost dynmaics in Transbaikal Lakhtina, O.V., et al. (1981, p.133-125, rus) **35-4076**

Late Cenozoic permafrost of Yakutia Kaplina, T.N., (1981, p.153-181, rus) **35-4078**

Permafrost transformation

Seismotectonics and seismicity of the Baykal-Amur railroad construction area Odintsov, M.M., ed. (1980, 204p., rus) **35-137**

Permafrost conditions in West Siberia — Shamanova, I.I., et al. (1980, p.94, rus) 35-772
Forecasting the effect of railroad construction on permafrost — Alekseev, V.R., et al. (1975, p.13-18, rus) 35-792
Permafrost transformations near its southern boundary — Uvarkin, B.T., et al. (1980, p.106-112, rus) 35-1533
Calculating temperature fluctuation in permafrost. — Bromfenbrener, I.E., et al. (1980, p.8-10, rus) 35-1633
Slope stabilization techniques for permafrost areas — Pal'kin, B.S., et al. (1980, p.30-32, rus) 35-1637
Geophysical methods of studying permafrost in the USSR — Yakimov, V.I., et al. (1980, 51p., rus) 35-1928
Maps of engineering-geocryologic regionalization of the central Yamal Peninsula — Parmuzin, S.B., et al. (1980, p.108-127, rus) 35-2193
Environmental protection problems in Alaska and Canada — Grave, N.A. (1980, p.135-141, rus) 35-2195
Soil preservation in northern territories — Chigir, V.G., (1980, p.188-190, rus) 35-2313
Permafrost investigations in economically developing areas of the USSR — Pavlov, A.V., ed. (1980, 183p., rus) 35-3305
Revegetation of disturbed tundra soils — Skriabin, P.N., et al. (1980, p.23-31, rus) 35-3309
Environmental protection in areas of main pipeline construction and operation — Borodavkin, P.P., et al. (1981, 160p., rus) 35-3566
History of permafrost development in Eurasia as exemplified by its regions — Mel'nikov, P.I., ed. (1981, 198p., rus) 35-4065
History of permafrost development in the Tuman-Ural area — Oberman, N.G., (1981, p.60-73, rus) 35-4069
Permafrost dynmaics in Transbaikal — Lakhtina, O.V., et al. (1981, p.133-125, rus) 35-4076

Permafrost weathering

Conference on climate, relief and human activities (1978, 155p., rus) 35-11
Problems of the relations between climatic zones and exogenic relief formation — Avsey, V.A., et al. (1978, p.9-21, rus) 35-12
Weathering of permafrost in subarctic regions — Logunova, I.E., et al. (1978, p.93-94, rus) 35-14
Badland topography in the Arctic — Korzhuev, S.S., (1978, p.95-96, rus) 35-15
Development of cryogenic relief in Pamirs and Tien Shan — Ermolin, E.D., (1979, p.88-105, rus) 35-191
Boguchany artificial lake — Ground water and engineering geology of the area — Odintsov, M.M., ed. (1979, 157p., rus) 35-278
Cryogenic patterned microrelief — Chigir, V.G., (1979, p.66-101, rus) 35-1831
Composition and properties of Upper Pleistocene deposits of the Yana-Indigirka coastal lowland — Trush, N.I., et al. (1975, p.59-69, eng) 35-2401
Present condition (1980) of the TAPS gravel workpad — Krzewinski, T.G., et al. (1981, p.678-692, eng) 35-2530
Two low Arctic vegetation maps near Atkasook, Alaska — Komarkova, V., et al. (1980, p.447-472, eng) 35-3199
Cryolithologic analysis — Gasanov, Sh.Sh., (1981, 195p., rus) 35-3211
Origin of frozen loess (Edoma) formation in Yakutia — Vtiurin, B., et al. (1980, p.265-271, rus) 35-3232
Calculating sublimation weathering of perennially frozen lines — Kuz'min, G.P., (1981, p.70-80, rus) 35-3286
Thermal denudation relief forms in northern Yakutia — Fartyshev, V.I., (1980, p.128-132, rus) 35-3327
Cryogenic structure of eluvium in southwestern Yakutia — Spesivtsev, V.I., (1980, p.167-173, rus) 35-3334

Permeability

Microwave measurements of salt thickness. — Unterberger, R.R., (1980, p.331-347, eng) 35-558
Kerosene permeability of salt ice — Satto, T., et al. (1978, p.55-62, jap) 35-1540
Soil infiltration on land treatment sites — Abele, G., et al. (1980, 41p., eng) 35-1726
Liquid distribution and the dielectric constant of wet snow — Colbeck, S.C., (1980, p.21-39, eng) 35-1735
Thermally actuated water migration in frozen soils. — Williams, P.J., et al. (1980, 74p., eng) 35-2317
Frost heave of roads — Jones, R.H., (1980, p.77-86, eng) 35-2468
Physical processes in perennially frozen conglomerates. — Olovin, B.V., (1981, p.96-116, rus) 35-3288
Studying gas permeability of massive frozen rocks — Olovin, B.V., (1980, p.90-98, rus) 35-3321
Soil hydraulic conductivity and moisture retention features — Ingersoll, J., (1981, 11p., eng) 35-3644
Formation of meltwater losses — Kaluzhnyi, I.I., et al. (1981, 160p., rus) 35-4311

Petroleum industry

Modular construction in Siberia — Grech, V.I., (1980, p.32-33, rus) 35-1
Organizing construction in the Far North — Tsahuk, I.G., (1980, p.13-14, rus) 35-3
Admixtures for plugging cements in cold regions — Batalov, D.M., et al. (1978, p.41-46, rus) 35-60
Heat release of cements hardening at subzero temperature — Batalov, D.M., et al. (1978, p.46-50, rus) 35-61
Thermal expansion of frozen rocks — Batalov, D.M., et al. (1978, p.51-55, rus) 35-62
Core sampler "Nedra" for permafrost — Ermakov, V.P., (1978, p.120-124, rus) 35-63
Pipeline construction in permafrost areas — Rudnik, V.F., (1980, p.32, rus) 35-99
Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979 — Abstracts of the papers (1979, 211p., rus) 35-245
Thermal regime of oil deposits in Siberia — Grubov, L.A., (1975, p.70-75, rus) 35-398
Thermal regime of oil-bearing rocks in Siberia — Nevskaia, N.M., (1975, p.102-105, rus) 35-399
Modular construction in permafrost areas — Alekseev, P.D., et al. (1980, p.2-5, rus) 35-447
Modular construction in West Siberia — Granaturova, I.P., et al. (1980, p.5-7, rus) 35-448
Construction cost in permafrost areas — Purtov, P.G., et al. (1980, p.17-20, rus) 35-450
Thermosiphons for ice crossing construction — Shabanov, P.P., et al. (1980, p.21, rus) 35-503
Preventing water pollution in permafrost areas — Kukushkin, B.M., et al. (1980, p.21-22, rus) 35-504
Workers outposts in the North — Portianko, N.G., et al. (1980, p.11-12, rus) 35-614
Plugging cements for low temperature wells — Zel'tser, P.I.A., (1980, p.20-21, rus) 35-631
Ice melting in solutions of potassium salts. — Bykov, I.U., et al. (1980, p.11-13, rus) 35-632
Petroleum resources of Alaska and Canada — Lachininskii, V.A., et al. (1979, p.95-101, rus) 35-751
Problems of the North; a current bibliography (1980, 3 volumes, rus) 35-858
Problems of the North; a current bibliography (1980, 198p., rus) 35-859
Roads of Siberian oil fields — Bromitskii, E.I., et al. (1980, p.3-5, rus) 35-939
Road pavements for permafrost areas — Tupitsyn, N.M., (1980, p.5-7, rus) 35-940
Cost of construction in permafrost areas — Kashlinskii, R.N., (1980, p.21-23, rus) 35-1029
Structural design and construction on permafrost. — Rovskaia, A.P., et al. (1980, p.4-5, rus) 35-1031
Surface water resources in the Tomsk region — Krasheninnikov, M.V., et al. (1976, p.149-155, rus) 35-1193
Revegetation of cryogenic soils damaged by industrial activities. — Moskalenko, N.G., et al. (1980, p.144-164, rus) 35-1454
Winter performance of hydraulic piston pumps. — Kazak, A.S., (1980, p.44-45, rus) 35-1607
Dirigibles for pipeline repairs in northern swamps — Kulikov, V.D., (1980, p.44-47, rus) 35-1608
Oil and gas field development in permafrost areas — Skorobogatov, V.A., (1980, p.70-71, rus) 35-1610
Construction of petroleum industry objects in permafrost areas — Shemraev, G.A., et al. (1980, p.10-11, rus) 35-1646
Environmental protection of permafrost areas — Ermikov, V.D., et al. (1980, p.3-9, rus) 35-1702
Environments of the Alaskan Continental Shelf (1980, 313p., eng) 35-1827
Environmental protection problems in Alaska and Canada — Grave, N.A., (1980, p.135-141, rus) 35-2195
Icebergs threaten offshore oil industry. — Goblot, R., (1977, p.9-11, fre) 35-2422
Improving the reliability of reservoirs, gas tanks and their equipment — Verevkin, S.I., et al. (1980, 288p., rus) 35-2440
Electrification of oil and gas industry in West Siberia. — Novoselov, R.B., et al. (1980, 182p., rus) 35-2687
Jet-propelling pipe strings across Siberian swamps — Kagan, I.A.M., et al. (1981, p.15-16, rus) 35-2775
Using textile interlayers in road construction — Tabakov, N.V., et al. (1980, p.4-7, rus) 35-2777
Performance of industrial pipelines in frozen grounds — Sokolov, S.M., et al. (1980, p.8-12, rus) 35-2778
Oil field roads in western Siberia — Tabakov, N.V., et al. (1980, p.15-19, rus) 35-2780
Building compressor stations in West Siberia — Poniatovskii, V.A., (1981, p.30, rus) 35-2785
Pile foundation types used in permafrost areas. — Chizhevskii, M.V., (1981, p.125-127, eng) 35-2840
Construction of bulk plants and gasoline stations — Groznov, G.A., et al. (1980, 332p. (Pertinent p.56-147), rus) 35-2873
Reliability of electrical equipment under northern conditions — Men'shov, B.G., et al. (1980, p.25, rus) 35-3011
Proceedings of the 9th Environmental Workshop on Offshore Hydrocarbon Development, 1980. (1980, 440p., eng) 35-3081
Engineering-geological conditions of oil and gas-bearing areas in Northern Zaural'e — Zakharov, I.F., et al. (1981, 143p., rus) 35-3227
Revegetation of disturbed tundra soils — Skriabin, P.N., et al. (1980, p.23-31, rus) 35-3309
Cook Inlet environment; a background study of available knowledge — Evans, C.D., et al. (1972, 136p., eng) 35-3359
Bristol Bay environment, a background study of available knowledge (1974, 858p., eng) 35-3550
Environmental protection in areas of main pipeline construction and operation — Borodavkin, P.P., et al. (1981, 160p., rus) 35-3566
Potential schemes for offshore Labrador year round production — Wetzel, V.F., et al. (1980, p.293-305, eng) 35-3631
Peculiarities of foundation design in petroleum provinces of West Siberia — Konovalov, A.A., et al. (1981, 167p., rus) 35-3918
Thermal and hydraulic design of pipelines for oil and petroleum products — Agapkin, V.M., et al. (1981, 256p., rus) 35-3931
Construction of residential buildings in West Siberia — Seredin, V.G., et al. (1981, p.31-32, rus) 35-4240
Earth dams and embankment construction in permafrost areas — Bezrukov, V.F., et al. (1981, p.18-19, rus) 35-4245
Regionalization by environmental protection demands — Chepurko, N.L., et al. (1981, p.44-50, rus) 35-4277
Screw pile foundations for drilling rigs — Kolomentsev, V.T., et al. (1921, p.14-15, rus) 35-4286
Economic development of the North — Gromov, N.N., et al. (1981, p.25-30, rus) 35-4287

Petroleum products

Thermal regime of hot oil lines — Degtiarev, V.N., et al. (1979, p.5-8, rus) 35-492
Starting hot oil lines — Tonkoshkurov, B.A., et al. (1980, p.5-8, rus) 35-493
Kerosene permeability of salt ice — Satto, T., et al. (1978, p.55-62, jap) 35-1540
Thermal and hydraulic design of pipelines for oil and petroleum products — Agapkin, V.M., et al. (1981, 256p., rus) 35-3931

Petroleum transportation

Oilspill risk analysis for the Kodiak Island (proposed sale 46) — Samuels, W.B., et al. (1980, 40p. + 22 appends eng) 35-155
Temperature regime of an underground pipeline — Krasovitskii, B.A., (1979, p.16-37, rus) 35-234
Pipeline design for northern conditions — Nosov, V.I., (1980, p.19-21, rus) 35-615
Petroleum resources of Alaska and Canada — Lachininskii, V.A., et al. (1979, p.95-101, rus) 35-751
Heating of oil pipelines — Frolov, K.D., et al. (1980, p.2-5, rus) 35-926
Marine transportation system analysis in Alaskan waters — Macpherson, M.D., (1980, 486p., eng) 35-2575
Federal monitoring of Trans-Alaska oil pipeline operations (1981, 139p., eng) 35-3560
Thermal and hydraulic design of pipelines for oil and petroleum products — Agapkin, V.M., et al. (1981, 256p., rus) 35-3931
Oil pumping stations in cold regions — Manasypov, F.S., (1981, p.33-34, rus) 35-4242

Phase transformations

Reply to a comment on "pressure melting" — Spring, U., (1981, p.157, eng) 35-3673

Phase transformations

Heat transfer in freezing soils — Bronfenbrener, I.E., et al. (1980, p.6-8, rus) 35-101
Mathematical modeling and experimental study of heat and mass transfer processes — Bondarev, E.A., ed. (1979, 136p., rus) 35-233
Stefan problem on heat conductivity with phase transformations — Medvedskii, R.I., (1979, p.71-82, rus) 35-236
Freezing of adsorbed water in materials of varied porosity — Efimov, S.S., et al. (1979, p.91-96, rus) 35-237
Phase composition of sorption moisture at subzero temperature. — Efimov, S.S., (1979, p.97-100, rus) 35-238
Thermophysical properties of freezing saline soils — Stepanov, A.V., (1979, p.101-105, rus) 35-239
Heat and mass transfer in rocks during phase transformations — Melamed, V.G., (1980, 228p., rus) 35-253
Phase relations of ice under pressure — Mishima, O., et al. (1980, p.2454-2456, eng) 35-442
Low temperature phase changes in moist, briny clays — Anderson, D.M., et al. (1980, p.139-144, eng) 35-728
Freezing of fine grained rocks — Anantan, A.A., (1980, p.130-135, rus) 35-767
Physical kinetics and transfer processes in phase transformations — Pavlukevich, N.V., et al. (1980, 208p., rus) 35-806
Numerical simulation of ice-phase convective cloud seeding — Hsie, E.-Y., et al. (1980, p.950-977, eng) 35-885
Classification of cryogenic processes — Vtiurin, B.I., et al. (1980, p.13-22, rus) 35-950
Modeling moisture-ice fields in freezing fines — Kuntsel', V.V., et al. (1980, p.80-84, rus) 35-968
Speed of movement of fluid crystallization fronts — Zhekamukhov, M.K., (1980, p.40-46, rus) 35-1200
All-Union scientific conference on chemistry of low temperatures, Moscow, Nov 28-29, 1979. Abstracts (1979, 90p., rus) 35-1272
Thermodynamic analysis of water crystallization — Oleinikov, N.N., et al. (1979, p.76, rus) 35-1273
Ice melting in organic solvents — Naumov, S.V., et al. (1979, p.78, rus) 35-1274

Phase transformations *(cont.)*

Freezing of water solutions of sulfates — Naumov, S.V., et al. (1979, p.79, rus) **35-1275**

Ice removal from frozen salt solutions — Telegina, L.I., et al. (1979, p.80, rus) **35-1276**

Bearing strength of frozen fines — Vrachev, V.V., et al. (1980, p.73-80, rus) **35-1389**

Phase transitions of high pressure ice and water — Yamamoto, K. (1980, p.1841-1845, eng) **35-1672**

Convection in the melting region around a heated cylinder — Yao, L.S., et al. (1980, p.667-672, eng) **35-1677**

Solidification in two-phase flow — Petric, D.J., et al. (1980, p.784-786, eng) **35-1680**

Phase change around a circular pipe — Lunardini, V.J. (1980, 18p., eng) **35-1894**

All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct 29-31, 1980 — Abstracts (1980, 203p., rus) **35-2251**

Supercooling and freezing temperatures of soil water — Shtykov, V.I. (1980, p.105-107, rus) **35-2288**

Migration and crystallization of substances in tundra soils — Zvereva, T.S., et al. (1980, p.107-109, rus) **35-2289**

Temperature field dynamics in freezing-thawing soils — Melamed, V.G., et al. (1975, p.52-62, eng) **35-2399**

Ground water freezing temperatures — Lev, V.D., et al. (1980, p.16-20, rus) **35-2770**

Heat Transfer — San Diego, 1979 (1979, 315p., eng) **35-3347**

Boundary system with convection at the solid-liquid interface — Nansteel, M.W., et al. (1979, p.112-119, eng) **35-3354**

Thermal performance of a phase-change material — Godfrey, R.D., et al. (1979, p.127-133, eng) **35-3356**

Surface ablation by melting or sublimation on a submerged rotating disc — Condit, D.W., et al. (1979, p.134-147, eng) **35-3357**

Heat transfer in cold climates — Lunardini, V.J. (1981, 731p., eng) **35-3429**

Transport of matter, impulse and heat in porous media — Diersch, H.-J. (1980, p.351-407, ger) **35-3563**

Some perspectives on frost shattering — McGreevy, J.P. (1981, p.56-75, eng) **35-3564**

Heat transfer during melting on tubes with a convective boundary — Saxena, S., et al. (1981, p.155-165, eng) **35-3627**

Some approaches to modeling phase change in freezing soils — Hromadka, T.V., II, et al. (1981, p.137-145, eng) **35-3670**

Cylindrical phase change approximation with effective thermal diffusivity — Lunardini, V.J. (1981, p.147-154, eng) **35-3671**

Phase composition of water in frozen soils — Kaluzhnyi, I.I., et al. (1978, p.255-260, eng) **35-3684**

Determination of the thermophysical characteristics of alternatively freezing and thawing dispersed media by the method of solving inverse problems of heat conduction — Pavlov, A.R., et al. (1981, p.885-889, eng) **35-3817**

Interphase surfaces in freezing moist ground — Damchan, I.N., et al. (1981, p.781-785, eng) **35-3818**

Solutions of the Stefan problem — Mesrmanov, A.M. (1981, p.547-549, rus) **35-4274**

Exchange crystallization freeze desalination process — Johnson, D.W., et al. (1976, p.231-240, eng) **35-4295**

Photogeology

Reconnaissance prospecting by photogeology in northern Finland — Talvitie, J., et al. (1973, p.73-81, eng) **35-2745**

Photogrammetric surveys

Stereophotogrammetric surveys and mapping of the Batura Glacier — Wang, W., et al. (1980, p.22-28, chi) **35-2914**

Photogrammetric measurements of antarctic cirques in Victoria Valley — Amya, M., et al. (1981, p.41-53, eng) **35-4019**

Glacier surveys in Alberta 1979 — Reid, I.A., et al. (1981, , eng) **35-4208**

Photogrammetry

Photogrammetry for snow depth measurements and glacier formation — Tsuchiya, I. (1976, p.178-187, jap) **35-260**

Comparison of areal snow storage sampling procedures for rangeland watersheds — Rawls, W.J., et al. (1980, p.71-82, eng) **35-1132**

Aerial surveys of pipeline construction sites — Karpov, V.G., et al. (1980, p.20-21, rus) **35-1301**

Rapid-sequence stereophotogrammetry of avalanches (1980, 4p., fre) **35-2337**

Stereophotogrammetric method for measuring glacier variations — Sun, Z., et al. (1980, p.54-56, chi) **35-2668**

Stereophotogrammetric surveys of avalanche danger areas — Maslovskii, F.B., et al. (1980, p.20-21, rus) **35-3010**

Photographic reconnaissance

Geobotanical photointerpretation of northern landscapes — Viktorov, S.V., et al. (1971, p.23-28, rus) **35-756**

Development and prospects of space glaciology — Kotlakov, V.M., (1981, p.7-15, rus) **35-3539**

Meltwater areas on ice covers — Buznev, A.I.A., et al. (1979, p.92-106, rus) **35-4192**

Photographic techniques

Arctic sea-ice variations from time-lapse passive microwave imagery — Campbell, W.J., et al. (1980, p.99-106, eng) **35-1115**

Photography

Glaciers in China — Chi, J., ed. (1980, c200p., eng) **35-1564**

Soil and bedrock as reflected in Arctic vegetation — Paarma, H., et al. (1977, p.25-29, eng) **35-2721**

Photographs of Siberian construction sites (1981, p.13, rus) **35-2787**

Measuring snowflake size and fall velocity — Suzuki, M., et al. (1981, p.1-8, jap) **35-4201**

Photointerpretation

Determining strength of peat soils from aerial photographs — Pirogov, A.G., et al. (1980, p.4-6, rus) **35-620**

Pulsating glaciers of the Gissar-Alay Mountains — Glazyrin, G.E., et al. (1980, p.81-100, rus) **35-718**

Legends for detailed engineering-geological maps of permafrost areas — Dostovalov, V.B. (1981, p.42-43, rus) **35-2088**

Weather satellite observations in the South Polar region — Gernandt, H. (1980, p.79-95, ger) **35-2436**

Resolutions of the Editorial Board of the World Atlas of Snow and Ice Resources (The fifth meeting, 21 February, 1980) (1980, p.7-8, rus) **35-2804**

Mapping snow cover distribution from satellite data — Usachev, V.F., et al. (1980, p.21-29, rus) **35-2970**

Ice conditions of the Aral Lake from satellite data — Tennikov, S.N. (1980, p.44-51, rus) **35-2973**

Identification of avalanches on satellite photographs — Kravtsova, V.I. (1980, p.66-74, rus) **35-2976**

Studying wetland systems from satellite data — Vinogradov, B.V. (1980, p.83-92, rus) **35-2978**

Studying catchment areas in swamps from aerial photographs — Savel'eva, T.S. (1980, p.93-99, rus) **35-2979**

Evaluating riverbed processes using aerial photographs — Snishchenko, D.V. (1980, p.100-107, rus) **35-2980**

Locating soil erosion areas on aerial photographs — Bobrovitskaia, N.N., et al. (1980, p.108-111, rus) **35-2981**

Using analog computers in preliminary processing of satellite data — Mikhailov, V.A. (1980, p.125-130, rus) **35-2983**

Complex geocryological interpretation of space photographs — Deleur, M.S., et al. (1980, p.98-106, rus) **35-3322**

Problems in satellite studies of Siberia — Mikheev, V.S. (1980, p.15-28, rus) **35-3476**

Evaluation of soil moisture from space photographs — Nazirov, M., et al. (1980, p.115-122, eng) **35-3797**

Interpretation of satellite photographs — Borisoglebskii, G.I., et al. (1980, p.123-127, rus) **35-3798**

Morphometric characteristics of drifting ice in Long Strait — Gorbunov, R.A., et al. (1981, p.129-136, rus) **35-3960**

Use of satellites in surveying for urban construction — Krest'iashin, S.I., et al. (1981, 159p., rus) **35-4310**

Photosynthesis

Photosynthesis of tundra plants — Gerasimenko, T.V., et al. (1980, p.145-164, rus) **35-1410**

Photosynthesis of moss in a subarctic mire — Johansson, L.-G., et al. (1980, p.181-190, eng) **35-1480**

Physics of tundra ponds — Miller, M.G., et al. (1980, p.51-75, eng) **35-1750**

Photosynthesis of tundra plants — Tieszen, L.L., et al. (1980, p.102-139, eng) **35-1933**

Typification of central taiga facies in West Siberia according to thermal conditions and the structure of radiation-meteorological fields — Trofimova, I.E. (1978, p.97-123, rus) **35-3824**

Physical properties

Asphalt pavement technology, 1979 (1979, 273p., eng) **35-331**

Ross Ice Shelf glaciology — Thomas, R.H., et al. (1979, p.66-67, eng) **35-653**

Physiological effects

Combatting cold — Amendt, R., et al. (1980, 10p., eng) **35-993**

Effects of long term crude oil exposure on marine fish — Kiceniuk, J.W. (1980, p.212-222, eng) **35-3095**

Piers

Dynamic structural response of a massive pier — Lipsett, A.W., et al. (1979, 47p., eng) **35-116**

Seismic stability of transport-related structures — Napetvaridze, Sh.G., ed. (1980, 132p., rus) **35-144**

Modeling seismic stability of bridge piers — Murusidze, R.Kh., et al. (1980, p.50-57, rus) **35-146**

Coal loading pier in Svea, Svalbard — Instanes, B. (1979, p.217-232, eng) **35-172**

Dynamic tests and analysis of a massive pier subjected to ice forces — Montgomery, C.J., et al. (1980, p.432-441, fre) **35-835**

Bored situ-cast piles in bridge construction on permafrost — Rasskazov, I.D., et al. (1980, p.7-9, rus) **35-1526**

Bridges across large rivers in the North — Rasskazov, I.D., et al. (1981, p.23-24, rus) **35-2081**

Ice loads on bridge piers — Koren'kov, V.A. (1980, p.10-11, rus) **35-3004**

Deep sea piers in the Arctic — Tsaliuk, I.G., et al. (1981, p.17-18, rus) **35-3013**

Pile driving

Cold regions engineering (1980, Var. p., eng) **35-2710**

Use of piling in frozen ground — Crory, F.E. (1980, 21 p., eng) **35-2711**

Piles in permafrost for bridge foundations — Crory, F.E., et al. (1967, 41p., eng) **35-2753**

Driving piles into plastic permafrost — Novozhilov, G.I. (1981, p.16-18, rus) **35-2851**

Integral methods of determining the parameters of one-dimensional consolidation — Bartolomei, A.A., et al. (1981, p.250-255, eng) **35-4151**

Recommendations for pipeline construction in permafrost areas (1981, p.36-38, rus) **35-4243**

Pile load tests

Use of piling in frozen ground — Crory, F.E. (1980, 21 p., eng) **35-2711**

Ice engineering design of boat harbors and ports — Wortley, C.A. (1981, p.1104-1113, eng) **35-4170**

Pile structures

Construction of foundations in permafrost — Linell, K.A., et al. (1980, 310p., eng) **35-886**

Construction of piling foundations in permafrost — Sadovskii, A.V., et al. (1980, p.218-228, eng) **35-1978**

Piles

Settlement of pile foundations in clayey water-saturated soils — Troshkova, N.D. (1979, p.29-30, rus) **35-4**

Pile foundations for weak ground — Shapiro, V.D., et al. (1980, p.4-6, rus) **35-94**

Compressor plant construction in cold regions — Tysnal, V.F., et al. (1980, p.18-19, rus) **35-96**

Pile foundation construction in northern swamps — Barsky, B.I. (1980, p.19-20, rus) **35-97**

Designing pile foundations for sagging grounds — Klepikov, S.N., et al. (1980, p.53-58, rus) **35-229**

Designing overhead power lines for mountains — Tikhanova, O.P., et al. (1980, p.49-53, rus) **35-311**

Pumping aggregate foundations for northern gas plants — Makar, R.M., et al. (1980, p.11-12, rus) **35-312**

Drilling in permafrost with compressed air circulation — Tokar', M.G. (1980, p.28-29, rus) **35-355**

Deformation of buildings and foundations in permafrost areas — Barabanshchikov, Yu.G., et al. (1980, p.7-9, rus) **35-449**

Construction of river harbors under severe climatic conditions — Rolnitz, O.B., et al. (Leningrad, p.18-20, rus) **35-1299**

Experimental investigation of the distribution of stresses in large bored situ-cast piles — Grigor'ian, A.A., et al. (1980, p.102-106, eng) **35-1384**

Reinforced concrete piles driven in weak soils — Timofeev, B.L., et al. (1980, p.107-110, eng) **35-1385**

Bored situ-cast piles in bridge construction on permafrost — Rasskazov, I.D., et al. (1980, p.7-9, rus) **35-1526**

Design of residential and public buildings for the first climatic zone — Belova, G.M., ed. (1975, 76p., rus) **35-1596**

Strength of pile foundations in permafrost — Gerasimov, A.S. (1975, p.23-27, rus) **35-1599**

Modern foundation design for buildings and underground structures (1980, p.7-9, rus) **35-1647**

Bases and foundations (1976, 96p., rus) **35-1715**

Pile foundation types used on permafrost areas — Chizhevskii, M.V. (1981, p.125-127, eng) **35-2840**

Driving piles into plastic permafrost — Novozhilov, G.I. (1981, p.16-18, rus) **35-2851**

Foundation construction on peat soils — Konovalov, P.V. (1980, 161p., rus) **35-2997**

Engineering studies of frozen ground — Soil properties and the dynamics of cryogenic processes — Gorbunov, F.I., ed. (1981, 159p., rus) **35-3280**

Mechanical interaction between piles and permafrost — Gaidaenko, E.I. (1981, p.140-154, rus) **35-3292**

Rig foundations for deep drilling in the North — Belotserkovskaia, G.V. (1981, p.12-13, rus) **35-3341**

Pile foundations for northern oil-pumping stations — Chizhevskii, M.V. (1981, p.14-15, rus) **35-3343**

Permafrost — Engineering design and construction — Johnston, G.H., ed. (1981, 540p., eng) **35-3703**

Pile foundations on permafrost — Kopysov, N.S., et al. (1978, p.101-106, rus) **35-4115**

Construction of steam power stations in the North — Talikh, M.G. (1981, p.26-28, rus) **35-4229**

Pipeline supports for tundra conditions — Nattrov, G.V., et al. (1981, p.2-3, rus) **35-4244**

Screw pile foundations for drilling rigs — Kolomiitsev, V.I., et al. (1921, p.14-15, rus) **35-4286**

Pingos

Origin of pingos in regions of thick permafrost, western Canadian Arctic — Pissart, A., et al. (1977, p.149-160, eng) **35-1884**

Permafrost conditions in Spitsbergen — Liestol, O. (1980, p.23-28, eng) **35-1990**

Study of a Belgian pingo rampart — Bastin, B., et al. (1974, p.341-357, fre) **35-1995**

"Viviers" in the Hautes Fagnes and pingos — Pissart, A. (1974, p.359-381, fre) **35-1996**

Pingos in southern Sweden during Late Glacial time — Svensson, H. (1979, p.35-47, swe) **35-4007**

Origin of water feeding North Slope icings — Hall, D.K., et al. (1981, p.433-438, eng) **35-4341**

Pipe flow

Ice formation in a pipe with transition and turbulent flows — Gilpin, R.R. (1981, p.363-368, eng) **35-3516**

Pipe laying

Cements for swamp soil stabilization — Vasil'eva, M.P., et al. (1980, p.23-24, rus) **35-313**

Special roller-supports for pipeline construction on swamps — Gabelaia, R.D., et al. (1980, p.33-34, rus) **35-314**

Construction of underwater pipelines from ice cover — Vildanov, R.I., (1980, p.34-35, rus) **35-315**

Pipeline construction on ice with subsequent sinking — Kamyshev, M.V., et al. (1980, p.36-37, rus) **35-316**

Construction techniques for the Far North — Karpenko, M.P., (1980, p.33-35, rus) **35-618**

Pipe laying in swamps — Kurovlev, G.M., (1980, p.15-16, rus) **35-920**

Yukon section of the Alaska highway gas pipeline (1979, 126p., eng) **35-1120**

Environmental protection in pipeline construction areas — Borodavkin, P.P., et al. (1980, p.14-15, rus) **35-1304**

Innovation in Arctic pipelining (1981, p.45-46, eng) **35-1961**

Construction equipment for northern pipelines — Osipov, V.N., (1981, p.15-16, rus) **35-2093**

Pipeline construction in permafrost areas — Kantsidalov, E.P., (1981, p.29-30, rus) **35-2094**

Technology of pipeline construction in Siberia (1981, p.33-34, rus) **35-2095**

Jet-propelling pipe strings across Siberian swamps — Kagan, I.A.M., et al. (1981, p.15-16, rus) **35-2775**

Pipe-laying equipment for the North — Karpunichev, B.E., (1981, p.35, rus) **35-3346**

Alaska gas line — largest construction project in history (1981, p.26-28, 50, 60, eng) **35-3691**

Thermal and hydraulic design of pipelines for oil and petroleum products — Agapkin, V.M., et al. (1981, 256p., rus) **35-3931**

Construction of underwater pipelines in West Siberia — Basharat'ian, P.P., et al. (1981, p.32-33, rus) **35-4241**

Recommendations for pipeline construction in permafrost areas (1981, p.36-38, rus) **35-4243**

Pipeline freezing

Equipment for pipeline construction in freezing weather — Romanov, I.S., (1980, p.29-30, rus) **35-617**

Anticipate pipe freeze-ups — Block, B., (1980, p.34-35, eng) **35-850**

Utilities delivery in northern regions (1980, 542p., eng) **35-2107**

Studies of utility construction in cold regions — Fielding, M.B., (1980, p.136-139, eng) **35-2114**

Insulated shallow buried pipe systems in the N.W.T., Canada — James, F.W., (1980, p.150-186, eng) **35-2116**

Pre-insulated high density polyethylene piping in cold regions — Whyman, A.D., (1980, p.187-220, eng) **35-2117**

Electric heating for freeze protection of water systems — Tracey, R.W., (1980, p.263-287, eng) **35-2123**

Electric heat tracing and energy conservation for northern installations — Johnson, B.C., et al. (1980, p.288-309, eng) **35-2124**

Water distribution pipe networks for arctic settlements — James, W., et al. (1980, p.347-366, eng) **35-2128**

Water supply system for the world's most northerly permanent community — Chong, T.M.Y., et al. (1980, p.367-393, eng) **35-2129**

Waterworks systems, Yellowknife, Northwest Territories — Prentice, J.R., et al. (1980, p.409-425, eng) **35-2131**

Rural schools prototype analysis in cold regions — Livingston, T.W., et al. (1980, p.439-474, eng) **35-2133**

Water and sewer utilities for Barrow, Alaska — Leman, L.D., (1980, p.484-506, eng) **35-2135**

New approaches to water and sewer services in permafrost area — Norman Wells, N.W.T. — Irwin, W.W., (1980, p.507-542, eng) **35-2136**

Morphology of ice structure in a pipe at or near transition Reynolds numbers — Gilpin, R.R., (1979, p.89-94, eng) **35-2238**

Evaluation of alternative water bleeder controls — Yee, A., et al. (1981, p.555-569, eng) **35-2524**

Effects of dendritic ice formation in water pipes — Gilpin, R.R., (1977, p.693-699, eng) **35-2944**

Factors affecting the ice nucleation temperature in water pipes — Gilpin, R.R., (1978, p.466-471, eng) **35-2945**

Mathematical model of nozzle blockage by freezing — Sampson, P., et al. (1981, p.231-241, eng) **35-3269**

Ice structure in a pipe at or near transition Reynold numbers — Gilpin, R.R., (1979, p.89-94, eng) **35-3351**

Calculating water flow in freezing pipes — Karaush, S.A., et al. (1981, p.117-122, rus) **35-4290**

Pipeline heating

Using wind power and solar radiation for heating — Cromack, D.E., (1979, 110p., eng) **35-522**

Heating of oil pipelines — Frolov, K.D., et al. (1980, p.[illegible], rus) **35-926**

Electric heating for freeze protection of water systems — Tracey, R.W., (1980, p.263-287, eng) **35-2123**

Electric heat tracing and energy conservation for northern installations — Johnson, B.C., et al. (1980, p.288-309, eng) **35-2124**

Thermodynamic analysis of the water distribution system in Inuvik, N.W.T. — Hull, J.A., (1980, p.332-346, eng) **35-2127**

Water supply system for the world's most northerly permanent community — Chong, T.M.Y., et al. (1980, p.367-393, eng) **35-2129**

Pipeline insulation

Equations speed permafrost-area line analysis — King, G.G., (1980, p.80-84, eng) **35-1498**

Practical frost protection of buried pipes — Gundersen, P., (1980, p.7-22, nor) **35-1989**

Utilities delivery in northern regions (1980, 542p., eng) **35-2107**

Programming design and construction of [illegible]es in Greenland — Rosendahl, G.P., (1980, p.19-43, eng) **35-2109**

Water distribution pipe networks for arctic settlements — James, W., et al. (1980, p.347-366, eng) **35-2128**

Water supply system for the world's most northerly permanent community — Chong, T.M.Y., et al. (1980, p.367-393, eng) **35-2129**

New approaches to water and sewer services in permafrost area — Norman Wells, N.W.T. — Irwin, W.W., (1980, p.507-542, eng) **35-2136**

Advanced northern utility piping system — Fiala, I., et al. (1981, p.425-437, eng) **35-2516**

Chilled gas pipeline — frost-heave design — Svec, O.J., (1981, p.705-718, eng) **35-2532**

Pipeline supports

Improvement of bearing capacity of pipe piles by corrugations — Thomas, H.P., et al. (1980, p.229-234, eng) **35-1979**

Pipeline supports for tundra conditions — Natrov, G.V., et al. (1981, p.2-3, rus) **35-4244**

Pipelines

Cost of foundation construction in the Arctic — Andrushkin, E.E., (1980, p.8-9, rus) **35-95**

Pipeline construction in permafrost areas — Rudnik, V.F., (1980, p.32, rus) **35-99**

Polyurethane foam insulation for pipelines — Bulatov, G.A., (1980, p.37-38, rus) **35-100**

Shore crossing techniques for offshore pipelines in Arctic regions — Marcellus, R.W., et al. (1979, p.201-215, eng) **35-171**

Heat transfer between utility lines and frozen ground — Bondarev, E.A., et al. (1979, p.62-70, rus) **35-235**

Thermosiphons for ice crossing construction — Shabanov, P.P., et al. (1980, p.21, rus) **35-503**

Guyless prestressed crossings — Kolomeitsev, V.T., et al. (1980, p.37-38, rus) **35-506**

Revegetation-restoration for the Trans-Alaska pipeline system — Hubbard, G.E., (1980, p.113-125, eng) **35-584**

Pipeline design for northern conditions — Nosov, V.L., (1980, p.19-21, rus) **35-615**

Equipment for pipeline construction in freezing weather — Romanov, I.S., (1980, p.29-30, rus) **35-617**

Pipeline anchors for northern swamps — Gumerov, A.G., et al. (1980, p.6-7, rus) **35-621**

Anchoring pipelines in northern swamps — Postnikov, V.V., et al. (1980, p.7-10, rus) **35-622**

Petroleum resources of Alaska and Canada — Lachinnskii, V.V., et al. (1979, p.95-101, rus) **35-751**

Asbestos pipelines in freezing ground — Dalmatov, B.I., et al. (1980, p.13-[illegible], rus) **35-783**

Final environmental impact statement, Prudhoe Bay Oil Field Waterflood Project (1980, 3 Vols., eng) **35-798**

Projects for transportation [illegible]ology in Canada, 1979, (1980, 83p., eng) **35-840**

Thermal insulation for hot oil lines — Frolov, K.D., et al. (1980, p.4-5, rus) **35-924**

Thermal vertical supports for the Trans-Alaska pipeline — Pearson, S.W., (1979, p.225-233, eng) **35-1109**

Surface heat balance in simulations of permafrost behavior — Miller, T.W., (1979, p.240-250, eng) **35-1110**

Geotechnical conditions during the trans-Alaska pipeline construction — Lucher, L., et al. (1979, p.128-133, eng) **35-1112**

Aerial surveys of pipeline [illegible]ation sites — Karpov, V.G., et al. (1980, p.20-21, rus) **35-1301**

Pipeline construction in the Far North — Blinov, M.A., (1980, p.23-25, rus) **35-1303**

Deformation compression performance in freezing pipelines — Danilov, V.P., (1980, p.111-115, rus) **35-1365**

Heat pipelines at the [illegible]smuth railroad. Sokolov-Baikov, [illegible]A., (1980, p.2, rus) **35-1528**

Dirigibles for [illegible] experiments in northern swamps. Kulikov, V.D., (1980, p.43-47, rus) **35-1608**

AP-161 anchors for pipelines in [illegible]den ground. Trofimov, A.S., (1980, p.[illegible]14, rus) **35-1635**

Ground freezing [illegible]s sewer c[illegible] (1980, p.85, eng) **35-1698**

Environmental [illegible]ing, Yukon River-Prudhoe Bay Haul Road. Brown, [illegible]80, 149 p., 187p., eng) **35-1768**

Environment of the Alask[illegible] Haul Road. Brown, J., (1980, p.3-52, eng) **35-1769**

Revegetation along roads and pipelines in Alaska — Johnson, L.A., (1980, p.129-1[illegible] **35-1772**

Steels for Arctic pipelines. Krishtalev, M.K., et al. (1979, p.1943-1944, eng) **35-1780**

Arctic pipeline operation, a different world. Hale, D., ed. (1980, p.22-30, eng) **35-1874**

Lessons learned from constructing the Trans-Alaska oil pipeline (1978, 56p., eng) **35-2013**

Environmental protection problems in Alaska and Canada — Grave, N.A., (1980, p.135-141, rus) **35-2195**

Soil disturbance in pipeline construction areas — Sopina, E.P., (1980, p.190-191, rus) **35-2314**

Dynamics of thermal processes — Shvets, I.T., ed. (1980, 180p., rus) **35-2334**

Thermotechnical design of pipelines — Koshelev, A.A., et al. (1980, p.20-26, rus) **35-2335**

Construction effect on cryogenic soils — Garagulia, I.S., et al. (1975, p.70-80, eng) **35-2402**

Present condition (1980) of the TAPS gravel workpad — Krzewinski, T.G., et al. (1981, p.678-692, eng) **35-2530**

Snow pads for pipeline construction in Alaska — Johnson, P.R., et al. (1980, 28p., eng) **35-2584**

Elevated and underground pipelines in permafrost areas — Sokolov, S.M., et al. (1980, p.2-4, rus) **35-2776**

Performance of industrial pipelines in frozen grounds — Sokolov, S.M., et al. (1980, p.8-12, rus) **35-2778**

Pipeline foundations for Siberian swamps — Sokolov, S.M., et al. (1980, p.21-23, rus) **35-2782**

Photographs of Siberian construction sites (1981, p.13, rus) **35-2787**

Pipeline construction cost in West Siberia — Kurbatov, N.I., (1981, p.14-16, rus) **35-2788**

Modular construction in cold regions — Rubinshtein, V.B., (1981, p.24-25, rus) **35-2789**

Pile foundation types used in permafrost areas — Chizhevskii, M.V., (1981, p.125-127, eng) **35-2840**

Blast treatment for increased strength of welded joints — Petushkov, V.G., et al. (1980, p.11-12, rus) **35-3015**

Engineering-geological conditions of oil and gas-bearing areas in Northern Zaural'e — Zakharov, H.F., et al. (1981, 143p., rus) **35-3227**

Federal monitoring of Trans-Alaska oil pipeline operations (1981, 139p., eng) **35-3560**

Environmental protection in areas of main pipeline construction and operation — Borodavkin, P.P., et al. (1981, 160p., rus) **35-3566**

Effects of the Trans-Alaska pipeline on caribou movements — Cameron, R.D., et al. (1980, 16p., eng) **35-3923**

Thermal and hydraulic design of pipelines for oil and petroleum products — Agapkin, V.M., et al. (1981, 256p., rus) **35-3931**

Pipeline construction in swamps taiga — Karpenko, M.P., (1981, p.29-31, rus) **35-4239**

Oil pumping stations in cold regions — Manasypov, F.S., (1981, p.33-34, rus) **35-4242**

Economic development of the North — Gromov, N.N., et al. (1981, p.25-30, rus) **35-4287**

Pipes (tubes)

Seismotectonics and seismicity of the Baykal-Amur railroad construction area — Odintsov, M.M., ed. (1980, 204p., rus) **35-137**

Railroad construction in seismic permafrost areas — Pavlov, O.V., et al. (1980, p.164-175, rus) **35-140**

Convection in the melting region around a heated cylinder — Yao, L.S., et al. (1980, p.667-672, eng) **35-1677**

Flow instability during turbulent flow freezing in a horizontal tube — Thomason, S.B., et al. (1980, p.782-784, eng) **35-1679**

Phase change around a circular pipe — Lunardini, V.J., (1980, 18p., eng) **35-1894**

Improvement of bearing capacity of pipe piles by corrugations — Thomas, H.P., et al. (1980, p.229-234, eng) **35-1979**

Gasoline — progress is slow but encouraging. (1980, p.18-19, 45-47, eng) **35-2008**

Equation predicts buried pipeline temperatures — King, G.G., (1981, p.65-66, 71-72, eng) **35-2467**

Mathematical model of nozzle blockage by freezing — Sampson, P., et al. (1981, p.231-241, eng) **35-3269**

Tube freezing for conduction- or convection-controlled heat transfer — Sparrow, E.M., et al. (1981, p.273-284, eng) **35-3272**

Pipe transportation by the Northern Sea Route — Agapkin, V.M., et al. (1981, p.16-17, rus) **35-3345**

Forced convection melting heat transfer in a tube — Lee, D.O., et al. (1979, p.55-68, eng) **35-3349**

Ice structure in a pipe at or near transition Reynold numbers — Gilpin, R.R., (1979, p.89-94, eng) **35-2351**

Heat transfer during solidification around a cooled horizontal cylinder — Bathelt, A.G., et al. (1979, p.103-111, eng) **35-3353**

Several reasons for failure of field welded oil pipeline (1980, p.8-9, eng) **35-3358**

Heat transfer during melting on tubes with a convective boundary — Saxena, S., et al. (1981, p.155-165, eng) **35-3627**

Transient freezing of liquids in tube flow — Cheung, F.B., et al. (1976, p.1-9, eng) **35-3922**

Heat transfer between pipes and surrounding media — Ivashkova, V.K., et al. (1979, p.34-39, rus) **35-4057**

Pits (excavations)

Mining problems in seismic permafrost areas — Nikolaev, V.V., et al. (1980, p.191-197, rus) **35-143**

Placer mining

Timbering, maintenance and preservation of mining excavations — Gritsko, G.I., ed. (1979, 114p., rus) **35-196**

Mining techniques in the North — Avksent'ev, I.V., et al. (1979, p.106-108, rus) **35-200**

Placer mining *(cont.)*

Mining perennially frozen placers. Mel'nikov, V. B., et al. (1980, p. 82-54, rus) **35-866**

Mining perennially frozen placers and ore deposits. Emel'yanov, V. I., ed. (1978, 136p., rus) **35-1077**

Modeling mining processes in permafrost areas. Demisov, A. P., et al. (1978, p. 9-19, rus) **35-1079**

Mining equipment in permafrost areas. Mamaev, Il. A., et al. (1978, p. 38-48, rus) **35-1081**

Artificial ice pillars in placer mining. Emel'yanov, V. I., et al. (1978, p. 49-73, rus) **35-[illegible]**

Calculating water drainage from artificially thawed [illegible]. Rapoport, Il. O. (1978, p. 119-135, rus) **[illegible]**

Stability of mining excavations in permafrost. Sherstov, V. A., et al. (1980, 56p., rus) **35-[illegible]**

Enrichment of perennially frozen ore and placer deposits. Emel'yanov, V. I., ed. (1977, p. 175, rus) **35-3[illegible]**

Dry processing of frozen placer sands. Bazhbeuk-Melikov, N. K., et al. (1977, p. 15-28, rus) **35-3806**

Water supply systems for dredging in permafrost areas. Ageenkov, V. V., et al. (1977, p. 87-100, rus) **35-3807**

Land reclamation in mining areas of the North. Sulin, G. V., et al. (1977, p. 111-125, rus) **35-3808**

Effects of placer mining on hydrologic systems in Alaska. Madison, R. J. (1981, 25p., eng) **35-3813**

Plains

Studying coastal plains and shelves of Arctic seas. Danilov, I. D., ed. (1979, 135p., rus) **35-64**

Moraine-like deposits in northern plains. Danilov, I. D. (1979, p. 97-135, rus) **35-67**

Landscape types of the Ob' River floodplain. Kolomyets, G. E. (1980, p. 101-110, rus) **35-1338**

Glacier bed landforms of North American prairies. Morgan, S. R., et al. (1980, p. 457-476, eng) **35-1508**

Gravel removal studies in Arctic and Subarctic floodplains in Alaska. (1980, 403p., eng) **35-1997**

Composition and properties of Upper Pleistocene deposits of the Yana-Indigirka coastal lowland. Trush, N. I., et al. (1975, p. 59-69, eng) **35-2401**

Thermal regime of permafrost in Yakutia. Zaitsev, V. N. (1975, p. 99-104, eng) **35-2403**

Recent processes which formed the present surface of the Yana-Indigirka Plain. Egorova, G. N. (1976, p. 55-65, rus) **35-3830**

Thermokarst lakes in the Anadyr lowlands. Riabchun, V. K. (1976, p. 66-72, rus) **35-3831**

Persistence of winters in plains of the Soviet Union. Il'icheva, E. M., et al. (1981, p. 24-44, rus) **35-3968**

Pipeline construction in swampy permafrost areas. Ivantsov, D. M. (1981, p. 13-16, rus) **35-4238**

Biomass of Alaskan black spruce forests. Van Cleve, K. (1979, p. 28-36, rus) **35-4326**

Plankton

Relationship between a lake ice and snowcover and zooplankton distribution. Roulet, N. T., et al. (1980, p. 133-148, eng) **35-46**

Methodology of forecasting natural phenomena in Siberia. Druzhinin, I. P., ed. (1980, 144p., rus) **35-148**

Phytoplankton composition and cropping power in different lake types of the Karelian Isthmus. Trifonova, I. S. (1979, 208p., rus) **35-201**

Phytoplankton in arctic and subarctic lakes. Moore, J. W. (1979, p. 485-499, eng) **35-246**

Diatom abundance related to sea ice fluctuations. DeFelice, D. R. (1979, p. 105-106, eng) **35-675**

Microbiology of an ice associated antarctic diatom. Whitaker, T. M., et al. (1980, p. 250-257, eng) **35-1285**

Primary productivity and aquatic plants in tundra ponds. Alexander, V., et al. (1980, p. 179-250, eng) **35-1752**

Zooplankton in tundra ponds. Stross, R. G., et al. (1980, p. 251-296, eng) **35-1753**

Selective feeding of Red Phalaropes on zooplankton of arctic ponds. Dodson, S. I., et al. (1980, p. 755-763, eng) **35-2239**

Estuarine perspectives. Kennedy, V. S., ed. (1980, 533p., eng) **35-3078**

Plankton ecology in the arctic estuary of Chesterfield Inlet. N.W.T. Roff, J. C., et al. (1980, p. 185-197, eng) **35-3079**

Zooplankton in a Canadian arctic estuary. Evans, M. S., et al. (1980, p. 199-210, eng) **35-3080**

Arctic marine diatoms and sea ice. Lichti-Federovich, S. (1981, p. 57-62, eng) **35-3083**

Body size patterns in arctic and temperate zooplankton. Dodson, S. I. (1979, p. 940-949, eng) **35-3768**

New data on the phytogeography of Siberia. Krasnoborov, I. M., et al. (1981, 232p., rus) **35-3889**

Algae in waters of the Kuznetskiy Alatau. Safonova, T. A. (1981, p. 4-16, rus) **35-3890**

Phytoplankton of the Pyasina River (western Taymyr). Ermolaev, V. I. (1981, p. 16-29, rus) **35-3891**

Plant ecology

Structure and plant communities in East European forest tundra. Nortin, B. N. (1979, 200p., rus) **35-150**

Vegetation and soils of subarctic tundra. Andreev, V. N., ed. (1980, 209p., rus) **35-282**

Vegetation of the lower Kolyma tundra. Andreev, V. N., et al. (1980, p. 5-43, rus) **35-283**

Tussock-forming sedge in tundra swamps. Egorova, A. A. (1980, p. 44-65, rus) **35-284**

Spore-pollen analysis of recent tundra deposits. Savvinova, G. M. (1980, p. 85-91, rus) **35-287**

Algae in thermokarst lakes. Vasil'eva, I. I., et al. (1980, p. 92-104, rus) **35-288**

Mictomycete fungi of northeastern Yakutia. Pt. 1. Shkaruba, A. G. (1980, p. 105-123, rus) **35-289**

Bushy lichens of tundra. Rykova, Il. V. (1980, [illegible]-139, rus) **35-290**

[illegible] tundra swamps. Stepanova, N. A. (1980, [illegible], rus) **35-291**

[illegible] of Arctic vegetation. Aleksandrova, V. D. (1[illegible]15-1730, rus) **35-341**

[illegible]dscape development in cold regions. [illegible]ov, Il. P. (1980, p. 243-248, rus) **35-343**

[illegible]ic structure of larch forest tundras. Nortin, [illegible] (1979, p. 1553-1566, rus) **35-346**

[illegible] vegetation and environmental protection. Krauklis, V. A., et al. (1979, p. 1674-1681, rus) **35-347**

Moss and lichen vegetation in northern forest steppes. Mosina, O. M., et al. (1980, p. 66-82, rus) **35-393**

Taiga vegetation in the European USSR. Gusev, Il. D. (1980, p. 249-255, rus) **35-394**

Algae in tundra soils. Perminova, G. N. (1980, p. 859-863, rus) **35-395**

Forest line vegetation of tundra. Dem'yanov, V. A. (1980, p. 926-937, rus) **35-396**

Species of Arctic plants from Siberia. Miaemets, A. A. (1980, p. 1022-1023, rus) **35-397**

Tundra plant structure and production in relation to the environment. Wielgolaski, F. E. (1[illegible], p. 23-30, eng) **35-486**

Yamal tundra vegetation. Konstantinova, N. A., et al. (1980, p. 76-82, rus) **35-499**

Proceedings of the 4th High [illegible] vegetation Workshop (1980, 258p., [illegible]) **35-576**

Snow, wind and vegetat[illegible] [illegible] ge, Colorado. Marr, J. W. (1980, p. [illegible]) **35-577**

Physiology and life cycles [illegible] plants. Bliss, L. C. (1980, p. 65-78, [illegible]) **35-581**

Assessment of revegetation techniques for alpine disturbances. Brown, K. W., et al. (1980, p. 126-146, eng) **35-585**

Plant materials development at the Meeker Environmental Plant Center. Hassell, W. G. (1980, p. 153-172, eng) **35-587**

Improved plant traits for high altitude disturbances. Johnson, D. A. (1980, p. 173-184, eng) **35-588**

Transpiration of taiga vegetation. Antipova, N. D., et al. (1975, p. 55-62, rus) **35-795**

Vegetation of Siberia and the Far East; a current bibliography. (1980, 2 volumes, rus) **35-855**

Vegetation of Siberia and the Far East; a current bibliography. (1979, 2 volumes, rus) **35-856**

Vegetation of Siberia and the Far East; a current bibliography. (1980, 97p., rus) **35-857**

Botanical geography of Altai. Ogureeva, G. N., (1980, 192p., rus) **35-876**

Virgin spruce forests of southern taiga. Orlov, A. IA., et al. (1980, p. 38-45, rus) **35-955**

Grazing effect on tundra vegetation. Polezhaev, A. N. (1980, p. 5-13, rus) **35-1036**

Microclimatology of northern forests. Ipatov, V. S., et al. (1980, p. 14-20, rus) **35-1037**

Physiology of Alpine meadow plants. Bannikova, I. A., et al. (1980, p. 27-35, rus) **35-1039**

Protection of vegetational cover in permafrost areas. Tyrtikov, A. P. (1980, p. 14-18, rus) **35-1286**

Lake effect on North Baykal shore forests. Vykhristiuk, M. M., (1980, 215p., rus) **35-1372**

Research projects of the *Tareia* station in Taymyr tundra. Tomilin, B. A. (1980, p. 3-25., rus) **35-1402**

Fructification of tundra plants. Khodachek, E. A. (1980, p. 118-130, rus) **35-1408**

Types of cotton grass in Taymyr tundra. Polozova, T. G. (1980, p. 131-144, rus) **35-1409**

Photosynthesis of tundra plants. Gerasimenko, T. V., et al. (1980, p. 145-164, rus) **35-1410**

Larch in taiga and forest tundra of Siberia. Il'ina, I. S., (1980, p. 28-44, rus) **35-1426**

Ecology of subarctic mire. Sonesson, M., ed. (1980, 313p., eng) **35-1470**

Classification methods for plant communities in tundra. Sonesson, M., et al. (1980, p. 113-125, eng) **35-1476**

Environmental protection in the Baykal Amur railroad area. Shlotgauer, S. D., (1979, p. 3-10, rus) **35-1519**

Mapping vegetational resources of permafrost areas. Gelcta, I. F., et al. (1980, p. 114-124, rus) **35-1707**

Biophysical processes and primary production. Miller, P. C., et al. (1980, p. 66-101, eng) **35-1932**

Tundra vegetation: pattern and succession. Webber, P. J., et al. (1980, p. 187-218, eng) **35-1935**

Environmental protection in permafrost areas. Grave, N. A., (1980, p. 6-12, rus) **35-2185**

Floodplain biomass of northern rivers. Druzhinina, N. P., (1979, p. 76-89, rus) **35-2325**

Taiga vegetation development in Holocene. Savina, L. N., (1980, p. 28-53, rus) **35-2476**

Revegetation in mountain taiga. Nazimova, D. I., et al. (1980, p. 54-87, rus) **35-2477**

Larch phytocenoses in mountain taiga. Korotkov, I. A., et al. (1980, p. 87-97, rus) **35-2478**

New terms "dynamics" and "ecogenesis" of biogeocenoses. Smagin, V. N., (1980, p. 201-205, rus) **35-2484**

Meadows of the forest tundra river Yuri-Yakhi. Bratenkova, E. S., et al. (1971, p. 5-7, rus) **35-2605**

Development of creeping plants in the Arctic. Mazurenko, M. T., (1981, p. 27-32, rus) **35-2768**

Biocenotic role of animals in the Yamal forest tundra. Danilov, N. N., ed. (1977, 146p., rus) **35-2866**

Role of animals in Subarctic biogeocenoses. Danilov, N. N., (1977, p. 3-30, rus) **35-2867**

Influence of rodents on forest tundra grasses. Peshkova, N. V., (1977, p. 134-145, rus) **35-2868**

Mycorhiza fungi and mycorhizae of forest-forming species in the North. Shubin, V. I., ed. (1980, 185p., rus) **35-3054**

Physiology of some Arctic plants. Filippova, I. N., (1980, p. 9-26, rus) **35-3064**

Tundra vegetation on the White Sea islands. Breshna, I. P., (1980, p. 72-83, rus) **35-3069**

Cells of leaf chlorenchyma in Arctic plants. Mitroslavov, E. A., et al. (1980, p. 1523-1530, rus) **35-3215**

Flora of subarctic landscapes of Yakutia. Andreev, V. N., et al. (1980, p. 1560-1568, rus) **35-3218**

Vegetation distribution in Chukotskiy Peninsula tundras. Balandin, S. A., et al. (1980, p. 1719-1733, rus) **35-3219**

Physiological processes in plants of Central Yakutia. Kononov, K. E., (1981, p. 39-45, rus) **35-3509**

Regularities governing the formation of elementary geosystems (the central taiga structures of Sos'vinskoe Prob'e as an example). Mikheev, V. S., ed. (1978, 124p., rus) **35-3819**

Relations between different components of taiga geosystems. Kuz'menko, E. I., (1978, p. 9-21, rus) **35-3820**

Density of taiga stand and the young growth. Kuz'menko, E. I., (1978, p. 22-42, rus) **35-3821**

Typification of central taiga facies in West Siberia according to thermal conditions and the structure of radiation-meteorological fields. Trofimova, I. E., (1978, p. 97-123, rus) **35-3824**

Interrelations between the components of forest and swamp ecosystems in the central taiga of the Ural area. Vasilevich, V. I., ed. (1980, 256p., rus) **35-3863**

New data on the phytogeography of Siberia. Krasnoborov, I. M., et al. (1981, 232p., rus) **35-3889**

Ecologic and geographic distribution of taiga plants. Beghanova, M. I., et al. (1981, p. 37-52, rus) **35-3892**

Mosses of the Altai-Sayan highlands. Gudoshnikov, S. V., (1981, p. 52-60, rus) **35-3893**

Tundra and taiga vegetation in the Tuva ASSR. Krasnoborov, I. M., (1981, p. 112-119, rus) **35-3894**

High altitude vegetation of Sayan Mountains. Danilov, M. P., (1981, p. 119-133, rus) **35-3895**

Flora of pine forests in central Tuva. Shaulo, D. N., (1981, p. 197-210, rus) **35-3896**

Productivity of high altitude grass communities in the central Caucasus. Nakhutsrishvili, G. Sh., et al. (1980, 159p., rus) **35-3899**

Fire and climax spruce forests in central Yukon. Strang, R. M., et al. (1981, p. 60-61, eng) **35-4051**

Using the Daurskaya larch in landscaping. Timofeev, P. A., (1980, p. 59-63, rus) **35-4102**

Organization of spruce ecosystems in southern taiga. Isakov, Il. A., ed. (1979, 220p., rus) **35-4117**

Vegetation of the Valday taiga. Glazov, M. V., (1979, p. 10-29, rus) **35-4118**

Reforestation of the Valday taiga. Tishkov, A. A., (1979, p. 30-69, rus) **35-4119**

Transition zone between taiga and swamps. Armand, A. D., (1979, p. 194-213, rus) **35-4125**

Ecology of black spruce, northern Quebec. Legere, A., et al. (1981, p. 261-275, eng) **35-4259**

Physiological aspects of plant adaptation in polar regions. Konovalov, I. N., (1980, p. 3-12, rus) **35-4312**

Growth of *Carex aquatilis* along latitudinal and local gradients. Chapin, F. S., III, et al. (1981, p. 1000-1009, eng) **35-4316**

Tundra plants in the Okhotsk Sea area. Mazurenko, M. T., (1979, p. 37-91, rus) **35-4327**

Alpine tundras of the Bol'shoy Annachag Range (upper course of the Kolyma River). Berman, D. I., ed. (1980, 178p., rus) **35-4332**

Plants growing in Alpine tundra. Khokhriakov, A. P., (1980, p. 78-92, rus) **35-4337**

Alpine tundra vegetation in the Bol'shoy Annachag Range. Dokuchaeva, V. B., (1980, p. 93-109, rus) **35-4338**

Plant physiology

Vegetation and soils of subarctic tundra. Andreev, V. N., ed. (1980, 209p., rus) **35-282**

Transpiration of taiga vegetation. Antipova, N. D., et al. (1975, p. 55-62, rus) **35-795**

Leaf ultraviolet optical properties in the arctic-alpine life zone. Robberecht, R., et al. (1980, p. 612-617, eng) **35-829**

Response to fertilization of Alaskan tundra plants. Shaver, G. R., et al. (1980, p. 662-675, eng) **35-830**

Low soil temperature effect on soil metabolism. Meniailo, L. N., et al. (1980, p. 70-74, rus) **35-958**

Seasonal development of vegetation in Siberian mountains. Lobanov, A. L., (1980, p. 91-93, rus) **35-1040**

Development of tree roots in cryogenic saline soils Lamm, I. A., (1978, p.23-33, rus) 35-1094
Lake effect on North Baykal shore forests Vykhristuk, M.M., (1980, 215p., rus) 35-1372
Research projects of the *Tareya* station in Taymyr tundra Tomilin, B.A., (1980, p.3-25., rus) 35-1402
Pollination of tundra plants (West Taymyr) Khodachek, E.A., (1980, p.105-117, rus) 35-1407
Fructification of tundra plants Khodachek, E.A., (1980, p.118-130, rus) 35-1408
Photosynthesis of tundra plants Gerasimenko, T.V., et al, (1980, p.145-164, rus) 35-1410
Supply and transport of mineral nutrients in a subarctic mire Malmer, N., et al, (1980, p.63-95, eng) 35-1474
Diurnal dry weight variation in some tundra plants Flower-Ellis, J.G.K., (1980, p.139-162, eng) 35-1478
Diurnal dry weight and water variations in some tundra plants Flower-Ellis, J.G.K., (1980, p.163-179, eng) 35-1479
Moss growing in relation to environmental factors Sonesson, M., et al, (1980, p.191-207, eng) 35-1481
Nitrogen fixing in a subarctic ombrotrophic mire Rosswall, T., et al, (1980, p.209-234, eng) 35-1482
Carbon dioxide and methane fluxes from subarctic mire Svensson, B.H., (1980, p.235-250, eng) 35-1483
Primary productivity and aquatic plants in tundra ponds Alexander, V., et al, (1980, p.179-250, eng) 35-1752
Low temperature stress in crop plants; the role of the membrane (1979, 565p., eng) 35-1849
Biophysical processes and primary production Miller, P.C., et al, (1980, p.66-101, eng) 35-1932
Photosynthesis of tundra plants Tieszen, L.L., et al, (1980, p.102-139, eng) 35-1933
High altitude vegetation of West Sayan Mountains Vlasenko, V.I., (1980, p.175-200, rus) 35-2483
Mycorrhiza fungi and mycorrhizae of forest-forming species in the North Shubin, V.I., ed. (1980, 185p., rus) 35-3054
Physiology of some Arctic plants Filippova, I.N., (1980, p.9-26, rus) 35-3064
Cells of leaf chlorenchyma in Arctic plants Mirosiavov, E.A., et al, (1980, p.1523-1530, rus) 35-3215
Flora of subarctic landscapes of Yakutia Andreev, V.N., et al, (1980, p.1560-1568, rus) 35-3218
Transpiration of taiga vegetation Antipov, A.N., et al, (1980, p.115-124, rus) 35-3474
Physiological processes in plants of Central Yakutia Kononov, K.E., (1981, p.39-45, rus) 35-3509
Typification of central taiga facies in West Siberia according to thermal conditions and the structure of radiation-meteorological fields Trofimova, I.E., (1978, p.97-123, rus) 35-3824
Microclimate and transpiration of taiga soils Grishina, L.A., et al, (1979, p.70-85, rus) 35-4120
Heat and water balance variations in taiga due to lumbering Fedorov, S.F., et al, (1979, p.185-193, rus) 35-4124
Physiological aspects of plant adaptation in polar regions Konovalov, I.N., (1980, p.3-12, rus) 35-4312
Biological cycle in forest tundras of the southern Magadan area Ignatenko, I.V., ed. (1979, 164p., rus) 35-4323
Tundra plants in the Okhotsk Sea area Mazurenko, M.T., (1979, p.87-91, rus) 35-4327

Plants (botany)

Arctic and Antarctic, their history and evolution Aleksandrova, V.D., (1980, 247p., eng) 35-130
Vegetation adaptations for Arctic survival Davids, R., (1980, p.56-63, eng) 35-248
Species of Arctic plants from Siberia Mlacmets, A.A., (1980, p.1022-1023, rus) 35-397
Estimation of phytomass changes in a tundra mire Sonesson, M., et al, (1980, p.127-137, eng) 35-1477
Canopy structure and environmental interactions Miller, P.C., et al, (1979, p.428-458, eng) 35-1784
Control of tundra plant allocation patterns and growth Chapin, F.S., III, et al, (1980, p.140-185, eng) 35-1934
Aquaculture for wastewater treatment in cold climates Reed, S.C., et al, (1981, p.482-492, eng) 35-2519
Effects of a tundra fire on soil and vegetation Racine, C., (1980, 21p., eng) 35-2602
Nutrient allocation and responses to defoliation in tundra plants Chapin, F.S., III, (1980, p.553-563, eng) 35-3205
North American and Scandinavian tundras and polar deserts Bliss, L.C., (1981, p.8-24, eng) 35-3374
Primary production of tundra Wielgolaski, F.E., et al, (1981, p.187-225, eng) 35-3380
Phytomass and primary production of tundra communities, USSR Tikhomirov, B.A., et al, (1981, p.227-238, eng) 35-3381
Nutrients in tundra ecosystems Dowding, P., et al, (1981, p.647-683, eng) 35-3395
Bioengineering for land reclamation and conservation. Schiechtl, H., (1980, 404p., eng) 35-3595
Plant water relations in Alaskan arctic tundra Oberbauer, S., et al, (1981, p.205-218, eng) 35-4093
Trees and shrubs in Yakutsk Kornienko, V.A., (1980, p.64-69, rus) 35-4103
Flora of Svalbard Ronning, O.I., (1979, 128p., nor) 35-4210

Plastic deformation

Faulting and plastic deformation of frozen fines Ermolin, E.D., (1979, p.42-66, rus) 35-188
Plastic deformation of fresh-water ice Bogorodskii, V.V., et al, (1980, p.43-50, rus) 35-368

Plastic properties

Analysis of non-steady plastic shock waves in snow Brown, R.L., (1980, p.279-287, eng) 35-1822
On plastic design of an ice-strengthened frame Varsta, P., et al, (1978, 54p., eng) 35-4179

Plastics

Low temperature properties of polymers Perepechko, I.I., (1980, 302p., eng) 35-3600
Facings of dome-shaped structures built under severe climatic conditions Lipnitskii, M.E., (1981, 136p., rus) 35-3864
Inflatable structures in power engineering Kul'ner, V.N., (1981, p.32-36, rus) 35-4230

Plates

Pile foundations for weak ground Shapiro, V.D., et al, (1980, p.4-6, rus) 35-94
Concrete plate for protecting slopes in cold regions Il'din, I.N., (1980, p.17-19, rus) 35-105
Reinforced concrete plates for road pavements Kholopov, A.I., (1980, p.12-13, rus) 35-919
Roads of Siberian oil fields Bromiskii, E.I., et al, (1980, p.3-5, rus) 35-939
Experience in fabricating plates with porous glass-concrete thermal insulation Roiak, G.S., et al, (1980, p.22-26, rus) 35-1142
Collecting aerosols on ice crystals using electric charges Martin, J.J., et al, (1980, p.44-56, eng) 35-1676
Relationship between frost heave and areas of bearing plates Tong, C.G., et al, (1981, p.741-748, eng) 35-2535
Crust behavior in simultaneous melting on a submerged flat plate Gingold, A., et al, (1978, 10p., eng) 35-3348
Stefan-like problems in finite geometry El-Genk, M.S., et al, (1979, p.69-80, eng) 35-3350
Acoustic emission and deformation response of finite ice plates Xirouchakis, P.C., et al, (1981, p.123-133, eng) 35-3448
Pipeline supports for tundra conditions Natrov, G.V., et al, (1981, p.2-3, rus) 35-4244

Pleistocene

Studying coastal plains and shelves of Arctic seas Danilov, I.D., ed. (1979, 135p., rus) 35-64
Moraine-like deposits in northern plains Danilov, I.D., (1979, p.97-135, rus) 35-67
Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia Popov, A.I., ed. (1980, 256p., rus) 35-279
Pleistocene geology of Amchitka Island, Aleutian Islands, Alaska Gard, L.M., Jr., (1980, 38p., eng) 35-990
Pleistocene bimodal response of antarctic ice Drewry, D.J., (1980, p.214-216, eng) 35-1075
Cryolithology of the Mamontovaya Mountain formations Kuznetsov, II.V., (1976, p.12-21, rus) 35-1145
Recent and ancient glaciation of plains and mountainous regions of the USSR Zubakov, V.A., ed. (1978, 131p., rus) 35-1420
Buried glacier ice in West Siberia Solomatin, V.I., et al, (1921, p.66-77, rus) 35-1422
Modern and Pleistocene snow lines in Montana and Wyoming mountains Zwick, T.F., (1980, p.347-352, eng) 35-1826
Origin of the Edoma series in Yakutia Arkhangelov, A.A., et al, (1979, p.110-135, rus) 35-1833
Late Wisconsin ice sheets in North America Mayewski, P.A., et al, (1981, p.67-178 + 3 sheets, eng) 35-2064
West antarctic ice sheet during the last glaciation Stuiver, M., et al, (1981, p.319-436 + 5 sheets, eng) 35-2069
Pleistocene glaciation of eastern China Yan, Q., et al, (1980, p.52-57, chi) 35-2919
Total gas content of ice and past changes of the northwest Greenland ice sheet Raynaud, D., et al, (1981, p.235-237, eng) 35-3034
Soviet studies on glacier changes Kotlakov, V.M., et al, (1981, p.361-368, eng) 35-3039
Climatic change, ice sheets and sea level Flohn, H., (1981, p.431-440, eng) 35-3041
Modeling of Pleistocene European ice sheets: some experiments with simple mass-balance parameterizations Oerlemans, J., (1981, p.77-85, eng) 35-3713
History of permafrost development in Eurasia as exemplified by its regions Mel'nikov, P.I., ed. (1981, 198p., rus) 35-4065
Pleistocene permafrost in the Taz Peninsula Belopukhova, E.B., (1981, p.92-96, rus) 35-4073
Cryogenic processes related to changes in paleogeographic conditions Gravis, G.F., (1981, p.102-113, rus) 35-4075
Permafrost dynmaics in Transbaikal Lakhtina, O.V., et al, (1981, p.133-125, rus) 35-4076
Cryogenic structure of the Amur River basin alluvium Kostaev, A.G., et al, (1981, p.126-153, rus) 35-4077

Pneumatic tubes

Pneumatic tube performance in northern mines Alekseev, P.E., et al, (1978, p.72-80, rus) 35-4114

Podsol

Aerial photography in soil mapping Moniakhov, A.K., (1980, p.355-356, rus) 35-109
Podsol soils of taiga Korsunov, V.M., et al, (1980, p.104-128, rus) 35-303
Podsolization in northern taiga Vasil'evskaia, V.D., et al, (1980, p.94-101, rus) 35-501
Spectral reflectivity of cryogenic soils Sadovnikov, IU.N., (1980, p.45-52, rus) 35-535
Materials on the soils of Komi ASSR Zaboeva, I.V., ed. (1974, 96p., rus) 35-686
Humus profile of taiga podsols Archegova, I.B., (1974, p.43-49, rus) 35-691
Analyzing humus substances in taiga soils Sloboda, A.V., (1974, p.50-57, rus) 35-692
Water transfer of chemical elements in taiga landscapes Kuz'min, V.A., (1973, p.23-32, rus) 35-765
Soil formation in northern taiga Nikonov, V.V., (1979, p.501-511, eng) 35-960
Genesis of gray forest soils Akhtyrtsev, B.P., (1979, p.521-531, eng) 35-962
Role of symbiotic bacteria in cryogenic soils Mirsoiants, I.N., (1974, p.68-70, rus) 35-1207
Aerobic and anaerobic bacteria in podsols Emtsev, V.T., et al, (1974, p.83-87, rus) 35-1208
Seasonal variations in microbiology of Alpine soils Naplekova, N.N., (1974, p.153-156, rus) 35-1214
Microbiology of forest tundra soils Ishchenko, N.F., (1974, p.118-121, rus) 35-1215
Peculiarities and conditions of formation of light podsol soils Kul'shin, V.A., (1980, p.176-178, rus) 35-1342
Water soluble substances in podsolized sandy and loam soils Strelkova, A.A., (1979, p.3-22, rus) 35-1418
Effect of pH on Ra absorption in soils Gil', I.V., (1980, p.58-64, rus) 35-1516
Biological studies in the northeastern European USSR Gainan, M.I., et al, (1974, 238p., rus) 35-1924
Biological cycle of chemical elements in taiga Zaboeva, I.V., et al, (1974, p.9-14, rus) 35-1925
Evaluating the landscape conditions of soil formation Uchvatov, V.P., (1980, p.152-154, rus) 35-2303
Field manual for soil science (according to natural zones) Khantuleva, A.A., ed. (1980, 148p (pertinent p.15-38), rus) 35-2443
Proceedings of a scientific conference of the Institute of Biology Zaboeva, I.V., ed. (1971, 124p., rus) 35-2604
Biochemical processes in Far North taiga soils Zaboeva, I.V., et al, (1971, p.58-59, rus) 35-2610
Nitrogen regimes of taiga soils Il'dimiseva, I.I., (1971, p.61-62, rus) 35-2611
Seasonal variations of heat balance in taiga Zhurina, I.L., (1980, p.132-140, rus) 35-3421
Soils of the Konda-Sos'va Priob'e Sazonov, A.G., (1978, p.70-96, rus) 35-3823
Podsol formed in carbonate-bearing tills, Schefferville area Belisle, J., et al, (1981, p.85-95, eng) 35-3980
Microclimate and transpiration of taiga soils Grishina, L.A., et al, (1979, p.70-85, rus) 35-4120
Sandy semipodsolic taiga soils Grigor'ev, A.II., (1979, p.176-184, rus) 35-4123
Algae in cryogenic soils Piiavaka, Zh.F., et al, (1979, p.125-133, rus) 35-4329

Polar atmospheres

Solar activity effect on ice conditions in oceans Kovalev, E.G., et al, (1980, p.89-93, rus) 35-3498
Dependence of sea ice conditions on meteorological factors Kirillov, A.A., et al, (1980, p.101-108, rus) 35-3500
Relations between air temperature and ice conditions in Arctic seas Tettel'baum, K.A., (1980, p.109-117, rus) 35-3501

Polar regions

Relations between polar ice and climatic changes Zakharov, V.F., (1980, p.70-79, rus) 35-136
Wave-wave and wave-current interactions in deep water Kjeldsen, S.P., (1979, p.179-200, eng) 35-170
Meteorological consequences of natural or deliberate changes in the surface environment Vowinckel, E., et al, (1980, p.87-110, eng) 35-1008
Biochemical cycle of carbon dioxide in the Arctic Kelley, J.J., (1980, p.266-271, rus) 35-1270
U.S. research options in polar regions Nagler, R.G., et al, (1979, 94 leaves, eng) 35-1309
British polar exploration 10 years before and after World War II: a comparison Stephenson, A., (1981, p.317-328, eng) 35-2073
Thermokarst in Arctic regions of the USSR and abroad Belorusova, Zh.M., (1972, p.41-43, rus) 35-2424
Two decades of antarctic research by East Germany (1980, 196p., ger) 35-2428
Earth science antarctic research by GDR scientists Peschel, H., (1980, p.14-19, ger) 35-2429
Winter city Clark, L.K., et al, (1980, 16p., eng) 35-2714
Climatic changes in the Northern Hemisphere Gruza, G.V., et al, (1980, 72p., rus) 35-2950
All-Union symposium on physical bases of recent climatic changes, Moscow, Apr. 23-25, 1979, Vol. 1 (1980, 108p., rus) 35-3049
Recent climatic fluctuations in the Arctic Voskresenskii, A.I., et al, (1980, p.57-62, rus) 35-3050

Polar regions *(cont.)*

All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980; summaries of papers. Treshnikov, A.F., ed. (1980, 147p., rus) **35-3103**

Changes in Arctic natural conditions due to human activities. Treshnikov, A.F., (1980, p.4-7, rus) **35-3104**

Equations for long-range forecasts of sea ice conditions. Kovalev, E.G., (1980, p.55-60, rus) **35-3493**

Proceedings of the Symposium on High-Latitude Climate Systems. (1980, p.1935-2091, eng) **35-3642**

Polar processes and world climate (a brief overview). Goody, R., (1980, p.1935-1942, eng) **35-3643**

Role of polar regions in global climate. Lindzen, R.S., et al. (1980, p.2064-2079, eng) **35-3652**

Runoff characteristics in polar regions. Nasybulin, Sh.S., (1976, p.32-41, rus) **35-3827**

Snow cover of Wrangel Island. Varich, A.A., (1976, p.42-45, rus) **35-3828**

Ice in the polar regions of the moon. Lanzerotti, L.J., et al. (1981, p.3949-3950, eng) **35-3908**

Maritime services to support polar resource development. (1981, 78p., eng) **35-4042**

Permafrost formation in Ural Mountains. Oberman, N.G., (1981, p.73-78, rus) **35-4070**

Physiological aspects of plant adaptation in polar regions. Konovalov, I.N., (1980, p.3-12, rus) **35-4312**

Polarization (charge separation)

Polarizability derivative of the O-D bond in ice. Bertie, J.E., et al. (1980, p.6352-6353, eng) **35-1696**

Depolarization thermocurrents in ice Ih at low temperature. Pissis, P., et al. (1981, p.321-328, eng) **35-3690**

Polarization (waves)

Polarization studies in sea ice. Arcone, S.A., et al. (1980, p.225-245, eng) **35-553**

Scattering and absorption by thin flat aerosols. Weil, H., et al. (1980, p.2066-2071, eng) **35-2409**

Ice depolarization statistics for 19-GHz satellite-to-earth propagation. Arnold, H.W., et al. (1980, p.546-550, eng) **35-2412**

Polarization of radio waves in ice sheets. Doake, C.S.M., (1981, p.539-558, eng) **35-2883**

Translational Raman spectrum of hexagonal monocrystalline ice. Faure, P., et al. (1981, p.120-126, fre) **35-3882**

Wave propagation through snow and ice crystals. Hendry, A., et al. (1981, p.133-139, eng) **35-3885**

Pollen

Modern pollen spectra from forest tundra, Newfoundland, Canada. Davis, A.M., (1980, p.89-100, eng) **35-221**

Spore-pollen analysis of recent tundra deposits. Savvinova, G.M., (1980, p.85-91, rus) **35-287**

Pollination of tundra plants (West Taymyr). Khodachek, E.A., (1980, p.105-117, rus) **35-1407**

Pollen analysis in annual layers of glaciers. Wang, R., et al. (1980, p.87-90, chi) **35-2680**

Palynologic proof of glacier advances and retreats. Sopoeva, A.S., (1980, p.173-176, rus) **35-3335**

Radiocarbon date list I, Labrador and northern Quebec, Canada. Short, S.K., comp. (1981, 33p., eng) **35-3681**

Pollen and vegetation of moraines of the Klutlan Glacier area, Canada. Birks, H.J.B., (1980, p.101-129, eng) **35-3720**

Transport of pollen and spores in the High Arctic. Kalugina, I.V., et al. (1981, p.27-32, eng) **35-3902**

Vegetation of Alaskan arctic slope. Walker, D.A., et al. (1981, p.153-172, eng) **35-4089**

Pollution

Assessment of SAR for oil pollution surveillance in the ice environment. Parashar, S.K., et al. (1979, p.99-123, eng) **35-166**

Oil in moving pack - laboratory study. Metge, M., et al. (1979, p.225-264, eng) **35-175**

Sources of twelve trace metals in antarctic snows. Boutron, C., et al. (1980, p.5631-5638, eng) **35-1118**

Winter maintenance. (1980, p.10-15, eng) **35-1262**

Regional geographic forecast, Vol.2: present state and basic trends in changes of natural environments - West Siberia. Makunina, A.V., ed. (1980, 206p., rus) **35-1269**

Environmental protection of permafrost areas. Ermikov, V.D., et al. (1980, p.3-9, rus) **35-1702**

Environmental impact of WW II debris cleanup in southern Alaska. (1979, 272p. + 1 Vol. of append., eng) **35-1816**

Waste drilling fluid disposal on tundra. Freyh, H.M., (1980, p.794-806, eng) **35-2173**

Carcinogenic pollution in sediments of arctic waters. Stich, H.F., et al. (1980, p.807-814, eng) **35-2174**

Historical record of global atmospheric pollution revealed in polar ice sheets. Boutron, C., et al. (1980, p.210-215, eng) **35-2470**

Health aspects of land treatment. Reed, S.C., (1979, 43p., eng) **35-2493**

Washing construction materials in freezing water. Tantsman, M.A., et al. (1981, p.22-23, rus) **35-2845**

Snowmobile noise regulations. Bumpass, D., (1980, 11p. + append., eng) **35-2856**

Problems presented by ice cover to oilspill clean-up in the Beaufort Sea. McGonigal, D., (1980, p.13-25, eng) **35-3870**

Effects of winter salting on the natural environment. Silvestre, P., et al. (1981, p.41-52, fre) **35-4006**

Growth conditions and vitality of *Sphagnum* in a tundra community along the Alaska pipeline haul road. Spatt, P.D., et al. (1981, p.48-54, eng) **35-4050**

Use of satellites in surveying for urban construction. Krest'iashin, S.I., et al. (1981, 159p., rus) **35-4310**

Polygonal topography

Podsolization in northern taiga. Vasil'evskaia, V.D., et al. (1980, p.94-101, rus) **35-501**

Frost fracturing processes. Tumel', N.V., (1979, p.26-49, rus) **35-1829**

Experimental determination of the processes producing small polygonal sorted alpine soils. Pissart, A., (1974, p.241-248, fre) **35-1943**

Development of grey forest soils. Alifanov, V.M., (1980, p.154-156, rus) **35-2304**

Origin and evolution of Bol'shezemel'skaya Tundra soils. Fominykh, L.A., et al. (1980, p.159-161, rus) **35-2305**

Development of polygonal wedge microrelief. Romanovskii, N.N., (1974, p.67-78, rus) **35-2397**

Vegetation and ice-wedge polygons through the thaw-lake cycle in N. Alaska. Billings, W.D., et al. (1980, p.413-432, eng) **35-3197**

Problems of Pleistocene paleogeography in glacial and periglacial regions. Velichko, A.A., ed. (1981, 251p., rus) **35-3293**

Relict cryogenic microrelief near Vyaz'ma. Berdnikov, V.V., (1981, p.200-211, rus) **35-3294**

Polygonal-ridge alley topography in permafrost areas. Beloshapkova, E.B., et al. (1980, p.95-101, rus) **35-3471**

Periglacial forms produced by shore ice at Hornsund (Spitsbergen). Jahn, A., (1977, p.19-29, eng) **35-3619**

Periglacial wedges of Wyoming's intermontane basins. Mears, B., Jr., (1981, p.171-198, eng) **35-3677**

On ice-wedge polygons in Öland. Svensson, H., (1979, p.110-112, swe) **35-4215**

Polymers

Foam plastic thermal insulation for walls. Timoshenko, A.T., (1979, p.114-119, rus) **35-242**

Deep stabilization of soils with synthetic resins. Bleskina, N.A., et al. (1980, 147p., rus) **35-875**

Frictional characteristics of materials sliding against ice. Calabrese, S.J., et al. (1980, p.283-289, eng) **35-1953**

Pre-insulated high density polyethylene piping in cold regions. Whyman, A.D., (1980, p.187-220, eng) **35-2117**

Polymer fabrics for soil stability in foundation construction. (1981, p.14, eng) **35-2839**

Frost resistance of polymer concretes. Granovskaia, I.V., et al. (1981, p.51, rus) **35-2847**

Low temperature properties of polymers. Perepechko, I.I., (1980, 302p., eng) **35-3600**

Coupling protects snow thrower's motor and power train. Hogan, B.J., (1981, p.82-83, eng) **35-3853**

Inflatable structu[illegible] in power engineering. Kul'nev, A.N., (1981, p.32-36, rus) **35-4230**

Polynyas

Turbulent heat flux from Arctic leads. Andreas, E.L., et al. (1979, p.57-91, eng) **35-159**

Maintaining ice-free areas around dredging shovels. Roshchupkin, D.V., et al. (1980, p.17-18, rus) **35-390**

Dredging in icebound rivers. Zernov, A., (1980, p.8-9, rus) **35-915**

Infrared images of North Water during polar darkness. Dey, B., (1980, 425-438, eng) **35-1505**

Polynya development in the Cape Thompson-Point Hope region, Alaska. Carleton, A.M., (1980, p.205-214, eng) **35-1662**

Divergence and rotation of an ice field off Okhotsk Sea coast of Hokkaido. Tabata, T., et al. (1980, p.273-282, eng) **35-2170**

Thermal effluents in Boundary Reservoir during winter. Kennedy, B.C., (1978, p.97-110, eng) **35-2237**

Estimation of heat and mass fluxes over Arctic leads. Andreas, E.L., (1980, p.2057-2063, eng) **35-2754**

Predicting ice regime on lower pools of hydroelectric stations. Nazarenko, S.N., et al. (1980, p.945-949, eng) **35-2772**

Arctic stratus clouds and reflection effects on irradiance. Wendler, G., et al. (1981, p.2049-2057, eng) **35-3276**

Lateral melting effect on the closeness of pack ice. Appel', I.L., et al. (1980, p.29-44, rus) **35-3491**

Microwave observation of the Weddell polynya. Carsey, F.D., (1980, p.2032-2044, eng) **35-3649**

Ice surveying methods and results. Borodachev, V.E., ed. (1981, 144p., rus) **35-3933**

Detailed ice surveys in the Arctic. Gushchenkov, E.M., (1981, p.49-50, rus) **35-3943**

Visual evaluation of sea ice packing. Borodachev, V.E., (1981, p.65-71, rus) **35-3947**

Studying stationary polynyas from satellite photographs. Karelin, I.D., (1981, p.104-109, rus) **35-3955**

Morphometric characteristics of drifting ice in Long Strait. Gorbunov, R.A., et al. (1981, p.129-136, rus) **35-3960**

Problems of the Arctic and the Antarctic, collection of articles, Vol. 48, 1976. Treshnikov, A.F., ed. (1981, 173p., eng) **35-4129**

Salinity and thermal state of Bering Sea waters as indices of development of the Chukchi flaw lead in June. Arikainen, A.I., (1981, p.75-82, eng) **35-4134**

Ponds

Limnology of tundra ponds. Hobbie, J.E., ed. (1980, 514p., eng) **35-1747**

Major findings of the IBP study about arctic ponds. Hobbie, J.E., (1980, p.1-18, eng) **35-1748**

Description of tundra ponds. Hobbie, J.E., (1980, p.19-50, eng) **35-1749**

Physics of tundra ponds. Miller, M.C., et al. (1980, p.51-75, eng) **35-1750**

Chemistry of sediments in tundra ponds. Prentki, R.T., et al. (1980, p.76-178, eng) **35-1751**

Primary productivity and aquatic plants in tundra ponds. Alexander, V., et al. (1980, p.179-250, eng) **35-1752**

Zooplankton in tundra ponds. Stross, R.G., et al. (1980, p.251-296, eng) **35-1753**

Arctic macrobenthos in tundra ponds. Butler, M., et al. (1980, p.297-339, eng) **35-1754**

Bacteria and fungi in tundra ponds. Hobbie, J.E., et al. (1980, p.340-387, eng) **35-1755**

Oil spill effects on tundra ponds. Barsdate, R.J., et al. (1980, p.388-406, eng) **35-1756**

Modeling in the aquatic program of the tundra biome. Tiwari, J.L., et al. (1980, p.407-456, eng) **35-1757**

Selective feeding of Red Phalaropes on zooplankton of arctic ponds. Dodson, S.I., et al. (1980, p.755-763, eng) **35-2239**

Cost-effective use of municipal wastewater treatment ponds. Reed, S.C., et al. (1979, p.177-200, eng) **35-2751**

International and national developments in land treatment of wastewater. McKim, H.L., et al. (1979, 28p., eng) **35-2794**

Aquaculture systems for wastewater treatment: an engineering assessment. Reed, S.C., et al. (1980, 127p., eng) **35-2859**

Aquaculture systems for wastewater treatment. Reed, S.C., et al. (1980, p.1-12, eng) **35-2860**

Wastewater treatment ponds. (1975, 21p. + append., eng) **35-2862**

Ecosystem models of an arctic pond. Hobbie, J.E., et al. (1978, p.105-109, eng) **35-2890**

Winter ice removal from stock water ponds. Garton, J.E., et al. (1980, 34p., eng) **35-3406**

Body size patterns in arctic and temperate zooplankton. Dodson, S.I., (1979, p.940-949, eng) **35-3768**

Porosity

Freeze-dried and critical-point-dried clay: a comparison. Murray, R.S., et al. (1980, p.232-234, eng) **35-224**

Air flow through snow during laminar flow of a fluid over snow. Yoshida, Z., (1978, p.29-40, jap) **35-1173**

Air flow within snow during fluid flow in surface transition layer. Yoshida, Z., (1978, p.41-54, jap) **35-1174**

Seepage alimentation of glaciers. Bazhev, A.B., (1980, p.73-81, 147-154, rus) **35-2820**

Physical processes in perennially frozen conglomerates. Olovin, B.A., (1981, p.96-116, rus) **35-3288**

Porous materials

Freezing of adsorbed water in materials of varied porosity. Efimov, S.S., et al. (1979, p.91-96, rus) **35-237**

Freezing and melting temperatures of soil water. Hounshaw, L.G., (1980, p.399-414, eng) **35-487**

Moving boundary problems in the hydrodynamics of porous media. Nakano, Y., (1978, p.125-134, eng) **35-843**

Water and air horizontal flow in porous media. Nakano, Y., (1980, p.81-85, eng) **35-844**

Water and air vertical flow through porous media. Nakano, Y., (1980, p.124-133, eng) **35-845**

Structural evaluation of porous pavement in cold climate. Eaton, R.A., et al. (1980, 43p., eng) **35-2006**

Traveling wave solution to the problem of simultaneous flow of water and air through homogeneous porous media. Nakano, Y., (1981, p.57-64, eng) **35-2796**

Convection in a porous layer for a temperature dependent viscosity. Blythe, P.A., et al. (1981, p.497-506, eng) **35-3519**

Transport of matter, impulse and heat in porous media. Diersch, H.-J., (1980, p.351-407, ger) **35-3563**

Portable shelters

Building construction technology in interior Alaska in winter. Bennett, F.L., (1980, p.16-31, eng) **35-1968**

Modular heliportable shelter system for small camps. Kovacs, J.M., (1981, p.313-332, eng) **35-2511**

Ports

Construction of river harbors under severe climatic conditions. Rikhter, O.B., et al. (1980, p.18-20, rus) **35-1299**

Port feasibility study, Nome, Alaska. Gadd, P.E., et al. (1981, p.235-248, eng) **35-2506**

Southcentral region of Alaska deep-draft navigation study. (1981, c140p. + 10 append., eng) **35-3674**

WREL, Water Resources Engineering, Tulea: the activities of the division. (1980, 46p., eng) **35-3793**

Maritime services to support polar resource development. (1981, 78p., eng) **35-4042**

Ice engineering design of boat harbors and ports. Wortley, C.A., (1981, p.1104-1113, eng) **35-4170**

Power line icing
Designing overhead power lines for mountains. Tikhanova, O.P., et al. (1980, p.49-53, rus) **35-311**
Power line deicing. Vavilova, I.V., et al. (1979, p.40-44, rus) **35-607**
Detuning for controlling galloping of single conductor transmission lines. Havard, D.G. (1979, 6p., eng) **35-1880**
Wire regelation at low temperatures. Gilpin, R.R. (1980, p.435-448, eng) **35-2153**
Influence of electro-freezing on power line icing. Phan, C.L., et al. (1981, p.15-25, eng) **35-2415**
Using bridges as river crossings of power lines. Shchepetkin, A.N., et al. (1981, p.64-66, rus) **35-4285**

Power line supports
Designing overhead power lines for mountains. Tikhanova, O.P., et al. (1980, p.49-53, rus) **35-311**
Cross-over poles for North Siberia. Vomilovich, N.A., et al. (1980, p.57-61, rus) **35-603**
National power grid stability in the North. Barabanshchikov, S.G., et al. (1980, p.14-16, rus) **35-624**
Power line support foundations in South Yakutia. Tkachenko, V.A., et al. (1981, p.46-49, rus) **35-2783**
Power supply to the Baykal-Amur railroad. Petrov, N.K., (1981, p.2-5, rus) **35-4226**
Transmission line supports for swamps. Yakunin, L.L., et al. (1981, p.44-47, rus) **35-4232**
Using bridges as river crossings of power lines. Shchepetkin, A.N., et al. (1981, p.64-66, rus) **35-4285**

Power lines
Designing overhead power lines for mountains. Tikhanova, O.P., et al. (1980, p.49-53, rus) **35-311**
National power grid stability in the North. Barabanshchikov, S.G., et al. (1980, p.14-16, rus) **35-624**
Wet snow accretion on power lines under high wind speed. Wakabama, G., et al. (1978, p.169-180, jap) **35-1184**
Electrification of oil and gas industry in West Siberia. Novoselov, R.B., et al. (1980, 182p., rus) **35-2687**
Construction and operation of electrical installations in permafrost regions. Korzh, N.A. (1981, p.74-76, rus) **35-3484**
Using bridges as river crossings of power lines. Shchepetkin, A.N., et al. (1981, p.64-66, rus) **35-4285**

Precipitation gages
Measurement of snowfall by MRL-2 radar. Koloskov, B.P. (1979, p.43-52, rus) **35-1188**
Use of water balance method to evaluate precipitation measurement in Antarctica. Aver'ianov, V.G., (1980, p.17-22, rus) **35-2026**
Precipitation in the atmosphere and on the earth's surface. Lvovich, I.I., (1980, 208p., rus) **35-2948**
Snow gage accuracy in the Arctic. Briazgin, N.N., et al. (1980, p.101-103, rus) **35-3123**
AES Nipher shields for recording precipitation gauges: an assessment. Goodison, B.E., et al. (1980, p.196-198, eng) **35-3162**

Precipitation (meteorology)
Canadian Hydrology Symposium '70. Cold Climate Hydrology. (1979, 597p., eng) **35-603**
Enhanced enrichment of metals in precipitation on Ross Ice Shelf. Warburton, J.A., et al. (1979, p.75-76, eng) **35-656**
Winter ice crystals at South Pole. Ohtake, T., et al. (1979, p.201-203, eng) **35-679**
Record of Grinnell and Sperry Glaciers, Montana. Johnson, A., (1980, 29p. + 2 maps, eng) **35-862**
Measurement of snowfall by MRL-2 radar. Koloskov, B.P. (1979, p.43-52, rus) **35-1188**
Chemical composition of glacial waters. Izrael', Iu.A., et al. (1980, p.157-162, rus) **35-1249**
Forecasting flooding of rivers. Klimova, L.A., et al. (1977, p.35-39, rus) **35-1292**
Determining the components of antarctic ice cover mass exchange with the atmosphere. Aver'ianov, V.G., (1981, p.10-16, rus) **35-2025**
Use of water balance method to evaluate precipitation measurement in Antarctica. Aver'ianov, V.G., (1980, p.17-22, rus) **35-2026**
Snow cover data in Finland, 1976. (1979, 108p., fin) **35-2061**
Resolutions of the Editorial Board of the World Atlas of Snow and Ice Resources (The fifth meeting, 21 February, 1980). (1980, p.7-8, rus) **35-2804**
Glacial meteorology of Mt. Tuomuer. Kou, Y., et al. (1980, p.11-14, chi) **35-2911**
Primary results of the study on modern glaciers in the region of Mt. Tuomuer. Wang, L., et al. (1980, p.15-18, chi) **35-2912**
Precipitation in the atmosphere and on the earth's surface. Lvovich, I.I., (1980, 208p., rus) **35-2948**
Climate into ice: the isotopic record in polar ice sheets. Robin, G. de Q., (1981, p.207-216, eng) **35-3031**
Growth and retreat of ice sheets. Budd, W.F., et al. (1981, p.369-409, eng) **35-3040**
Snow gage accuracy in the Arctic. Briazgin, N.N., et al. (1980, p.101-103, rus) **35-3123**
Operating the Androscoggin river reservoir system. Grove, W.M., (1980, p.101-105, eng) **35-3151**
Lidar measurements in Antarctica. Smiley, V.N., (1980, p.188-190, eng) **35-3194**
Summer air temperature and precipitation in northern Alaska. Haugen, R.K., et al. (1980, p.403-412, eng) **35-3196**
Snow and precipitation measurements in mountains for hydrologic forecasts. Shentsis, I.D., (1980, p.103-112, rus) **35-3581**
Description of a method for calculating snow cover evolution. Rachner, M., et al. (1981, p.117-123, ger) **35-3689**
Snowfall formation. Schenemauer, R.S., et al. (1981, p.129-152, eng) **35-3749**
Chemical composition of atmospheric precipitation in Yakutia. Anisimova, N.P., et al. (1980, p.30-37, rus) **35-3992**
Chemical composition of waters infiltrating seasonally thawing sands. Anisimova, N.P., (1980, p.82-90, rus) **35-3997**
Climate of Batura Glacier and its adjacent areas. Liu, G., (1980, p.99-110, chi) **35-4032**
Deposition of trace metals and sulfates onto arctic snow. Davidson, C.I., (1981, 59p., eng) **35-4248**

Prefabrication
Modular construction in Siberia. Grech, V.I., (1980, p.32-33, rus) **35-1**
Use of helicopters in transporting prefabrication components. Chernitskii, A.V., (1980, p.26-27, rus) **35-2**
Residential buildings in Arctic regions. Samukhnin, P.N., (1979, p.26-27, rus) **35-465**
Frost resistant concrete elements for pavements. Oganesiants, S.I., et al. (1980, p.8-10, rus) **35-472**
Sand-concrete panels for building partitions. Isaenko, A.G., et al. (1980, p.19-21, rus) **35-502**
Modern design of modular buildings. Gel'man, E.A., (1980, p.61-66, rus) **35-604**
Exhibition: Foundation construction in the USSR. Smirnov, I.V., (1980, p.42-45, rus) **35-608**
Building codes for winter construction (SNiP III-17-80). Kametko, V.A., et al. (1980, p.16-18, rus) **35-613**
Reinforced concrete plates for road pavements. Kholopov, A.I., (1980, p.12-13, rus) **35-919**
Wooden panel houses for cold regions. Syrtsov, G., (1980, p.46-49, rus) **35-928**
Roads of Siberian oil fields. Bromiskii, E.I., et al. (1980, p.3-5, rus) **35-939**
Wooden structures for the North. Dmitriev, P.A., (1980, p.15-12, rus) **35-1086**
Experience in fabricating plates with porous glass-concrete thermal insulation. Rozak, G.S., et al. (1980, p.22-26, rus) **35-1142**
Construction of river harbors under severe climatic conditions. Rikhter, O.B., et al. (1980, p.18-20, rus) **35-1299**
Modular buildings for cold regions. Suslin, V.M., et al. (1980, p.30-31, rus) **35-1307**
Improving watertightness of large panel buildings. Omel'chenko, A.A., et al. (1980, 95p., rus) **35-1575**
Reinforced concrete overflow-part of earth dams. Pravdivets, Iu.P., (1980, p.39-41, rus) **35-1639**
Using lightweight concretes in cold regions. Rogatin, Iu.A., et al. (1980, p.37-38, rus) **35-1653**
Work-camp living complexes for the North. Zimin, I.I., et al. (1978, 152p., rus) **35-1699**
Prefabricated low-story construction in the Far North. Sudakov, V.V., (1980, p.32-39, eng) **35-1969**
Vacuum degassing in construction technology of the North. Polonskii, L.A., (1980, 175p., rus) **35-2048**
Porous fiberglass insulation used in modular construction. Mordukhovich, I.M., et al. (1981, p.17-19, rus) **35-2079**
Precast lightweight concrete for cold regions. Vasil'ev, N.F., et al. (1981, p.20-23, rus) **35-2080**
Bridges across large rivers in the North. Rasskazov, I.D., et al. (1981, p.23-24, rus) **35-2081**
Construction machines designed for the North. Shpiller, E.D., et al. (1981, p.54-55, rus) **35-2091**
Prefabricated dismountable buildings in permafrost areas. Bardyshev, O.A., et al. (1981, p.17-19, rus) **35-2844**
Multi-story stone buildings in the North. Kalmin, M.S., et al. (1980, 153p., rus) **35-2882**
Facings of dome-shaped structures built under severe climatic conditions. Lipnitskii, M.E., (1981, 136p., rus) **35-3864**
Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, I.V., ed. (1979, 133p., rus) **35-4055**
Asbestos-cement panels for buildings in cold regions. Kozhevnikov, I.G., (1979, p.77-80, rus) **35-4059**
Two layer panels for buildings. Shcherbakov, A.V., et al. (1979, p.81-87, rus) **35-4060**
Construction of residential buildings in West Siberia. Seredin, V.G., et al. (1981, p.31-32, rus) **35-4240**

Pressure
Frost heave and frost heaving forces. Chen, X., (1980, p.36-40, chi) **35-124**
Thermal properties of liquid D2O at low temperatures and high pressures. Kanno, H., et al. (1980, p.1940-1947, eng) **35-441**
Phase relations of ice under pressure. Mishima, O., et al. (1980, p.2454-2456, eng) **35-442**
Comment on "pressure melting". Martin, R.T., (1980, p.89, eng) **35-822**
Gasoline: progress is slow but encouraging. (1980, p.18-19, 45-47, eng) **35-2008**
Seismic and impact-pressure monitoring of flowing avalanches. Schaerer, P.A., et al. (1980, p.179-187, eng) **35-2360**
Mathematic-thermodynamic analysis of the anomalies of water. Trincher, K., (1981, p.433-448, eng) **35-2460**
Bedrock heave in the central Canadian Arctic. Dyke, L.D., (1981, p.157-167, eng) **35-3085**
Dome's "kick tolerance" formula for safe Beaufort Sea drilling. Wilkie, D.I., et al. (1981, p.33-36, eng) **35-3277**
What is the temperature change in pressure melting. Offenbacher, E.L., (1981, p.155-156, eng) **35-3672**
Reply to "a comment on "pressure melting". Spring, I., (1981, p.157, eng) **35-3673**
Dynamics of snow-skis. Pizlak, R.I., (1970, 393p., eng) **35-4172**

Pressure ridges
Sea ice thickness in relation to pressure ridge heights and depths. Wadhams, P., (1980, p.53-75, eng) **35-548**
Pressure ridges and ice resistance to moving ships. Sergeev, G.N., et al. (1980, p.100-104, rus) **35-1594**
Measure of Arctic sea ice characteristics using microwave scatterometry. Jackson, B.L., et al. (1979, p.278-280, eng) **35-3707**
Monitoring sea ice ridgebuilding and stresses. Biswas, N.N., et al. (1980, p.209-236, eng) **35-3844**
Ice force measurements in Finnish lighthouses. Maattanen, M., (1980, p.343-353, eng) **35-3849**
Detailed ice surveys in the Arctic. Gushchenkov, E.M., (1981, p.49-50, rus) **35-3943**
Shape and size of ice ridges in the Baltic Sea. Kennoucn, A., (1976, 11p. + append., eng) **35-4175**
Statistical features of sea ice ridging in the Gulf of Bothnia. Lepparanta, M., (1980, 46p., eng) **35-4181**
Dimensions of ice fields. Romanov, I.P., (1979, p.111-115, rus) **35-4194**

Primary productivity
Estimation of phytomass changes in a tundra mire. Sonesson, M., et al. (1980, p.127-137, eng) **35-1477**
Modeling in the aquatic program of the tundra biome. Tiwari, J.L., et al. (1980, p.407-456, eng) **35-1757**
Microbial ecology and decomposition in Arctic tundra and Subarctic taiga ecosystems. Flanagan, P.W., (1978, p.161-168, eng) **35-2177**
Sea ice studies in the Weddell Sea aboard USCGC Polar Sea. Ackley, S.F., et al. (1980, p.84-96, eng) **35-3188**

Probes
Permafrost beneath the Beaufort Sea near Prudhoe Bay, Alaska. Sellmann, P.V., et al. (1980, p.35-48, eng) **35-1105**
Subsea permafrost probing, thermal regime and data analysis. Osterkamp, T.E., et al. (1981, p.497-677, eng) **35-3267**

Production engineering
Technical progress and production rate in the North. Egorov, E.G., ed. (1978, 162p., rus) **35-4108**
Economic problems of regional technical policy in the North. Egorov, E.G., (1978, p.3-14, rus) **35-4109**
Scientific-technical progress in the North. Vlasov, V.I., (1978, p.15-23, rus) **35-4110**
Performance of modern technical equipment in the North. Skrybykin, A.N., (1978, p.24-31, rus) **35-4111**
Development of natural resources in the North. Vdovin, I.I., (1978, p.32-38, rus) **35-4112**
Optimization of earthwork planning. Ratskevich, G.I., (1981, p.84-88, rus) **35-4289**

Profiles
Sonar measurement of Beaufort Sea ice profiles. Wadhams, P., et al. (1980, p.401-414, eng) **35-1504**
Rapid-sequence stereophotogrammetry of avalanches. (1980, 4p., fre) **35-2337**
Vertical profile and horizontal increase of drift-snow transport. Takeuchi, M., (1980, p.481-492, eng) **35-2388**
Energy-line method in the mechanics of avalanches. Korner, H.J., (1980, p.501-505, eng) **35-2391**
Snow-pack structure stability analyzed by pattern-recognition techniques. LaChapelle, E.R., et al. (1980, p.506-511, eng) **35-2392**
Time-related changes in snow chemistry. Ross Ice Shelf, Antarctica. Warburton, J.A., et al. (1981, p.27-39, eng) **35-2416**
Ablation in a vertical ice profile in Greenland. Ambach, W., (1979, p.55-62, ger) **35-2644**
Isotope methods of studying natural waters. Fetronskii, V.I., ed. (1981, 260p., rus) **35-3296**
Variations of the oxygen isotope ratio in glacier ice. Vaikmae, R.A., et al. (1981, p.25-30, rus) **35-3298**
Shape and size of ice ridges in the Baltic Sea. Kennoucn, A., (1976, 11p. + append., eng) **35-4175**

Projectile penetration
Impact fuse performance in snow (Initial evaluation of a new test technique). Aitken, G.W., et al. (1980, p.31-45, eng) **35-1584**

Propellers
Device for deicing ship's propellers. (1980, p.29, rus) **35-916**

Propellers *(cont.)*
Maneuverability of icebreakers. Smirnov, V.V., (1980, p.31-32, rus) **35-921**
Discussions of paper on excessive propeller shaft vibration in icebreakers (1980, p.70-83, 100-110, eng) **35-1383**
Evaluation of ice deflectors on the USCG icebreaker *Polar Star*. Vance, G.P., (1980, 37p., eng) **35-2595**
Electrical installations of the "Kapitan M. Izmailov" type icebreakers. Bykov, A.S., et al, (1980, p.31-33, rus) **35-2635**
Computer simulation of airfoil icing without runback. Lozowski, E.P., et al, (1981, 8p., eng) **35-3562**

Protection
Concrete structure protection against humidity, frost and salt. Weyer, P., (1980, p.173-177, ger) **35-567**
Lightning protection in permafrost areas. Erofeev, A.A., et al, (1980, p.77, rus) **35-606**
Electrical grounding in gas field installations. Men'shov, B.G., et al, (1980, p.33-36, rus) **35-628**
Design of electrical grounding for permafrost areas. Men'shov, B.G., et al, (1980, p.35-37, rus) **35-629**
Helicopter icing review. Peterson, A.A., et al, (1980, 233p., eng) **35-1731**
Utilities delivery in northern regions, (1980, 542p., eng) **35-2107**
Fire protection considerations in remote, cold regions communities. Ryan, W.T., (1980, p.230-233, eng) **35-2119**
Fire protection in isolated northern communities. Whatmough, R.G., (1980, p.234-236, eng) **35-2120**
Electric heating for freeze protection of water systems. Tracey, R.W., (1980, p.263-287, eng) **35-2123**
Water distribution pipe networks for arctic settlements. James, W., et al, (1980, p.347-366, eng) **35-2128**
Waterworks systems, Yellowknife, Northwest Territories. Prentice, J.R., et al, (1980, p.409-425, eng) **35-2131**
Rural schools prototype analysis in cold regions. Livingston, F.W., et al, (1980, p.439-474, eng) **35-2133**
Water and sewer utilities for Barrow, Alaska. Leman, T.D., (1980, p.484-506, eng) **35-2135**
New approaches to water and sewer services in permafrost area. Norman Wells, N.W.T. Irwin, W.W., (1980, p.507-542, eng) **35-2136**
Evaluation of Ontario shoreline protection materials. Carmichael, T.J., et al, (1980, p.248-262, fre) **35-2962**
Controlling iceberg roll stability during towing around drillships. Benedict, C.P., et al, (1981, p.109-114, eng) **35-3446**
Iceberg detection for Canadian frontier production. Lewis, J.C., et al, (1981, p.115-122, eng) **35-3447**
Erosion prediction for exploration and production structures in the Arctic. Kobayashi, N., et al, (1981, p.459-470, eng) **35-3453**
Designing earth-fill cones for avalanche protection. Kanaev, I.A., et al, (1980, p.64-73, rus) **35-3575**
Outline of the study of seasonal snow and ice in China. Maohuan, H., (1980, p.1-11, eng) **35-3659**
Active avalanche protection: structural models. Balzaretti, P., (1981, p.61-66, ita) **35-3986**
Avalanche forecasting and protection at U.S. stations. Garrcaud, E., (1981, p.58-63, fre) **35-4047**

Protective coatings
Adhesive shear strength of ice to bonded solid lubricants. Jones, J.R., et al, (1972, p.464-471, eng) **35-274**
Frictional characteristics of materials sliding against ice. Calabrese, S.J., et al, (1980, p.283-289, eng) **35-1953**

Protective vegetation
Avalanche control in forested mountains. Chagelishvili, R.G., (1976, p.71-75, rus) **35-72**
Forest-strip method of reclaiming eroded soils. Budaev, Kh.R., ed, (1976, 159p., rus) **35-799**
Land reclamation in Transbaikal. Budaev, Kh.R., (1976, p.10-17, rus) **35-800**
Forest strip effect on snow distribution. Savin, E.N., ed, (1978, 96p., rus) **35-1091**
Snow retention in steppes. Tarasenko, A.N., et al, (1978, p.4-11, rus) **35-1092**
Growth and biomass of Siberian larch in forest strips. Popov, V.P., (1978, p.33-44, rus) **35-1095**
Forest strip composition and patterns in Siberian steppes. Popova, O.S., (1978, p.44-47, rus) **35-1096**
Biomass of narrow forest strips in steppes. Dolgilevich, M.I., et al, (1978, p.57-68, rus) **35-1097**
Forest strip effect on snow cover distribution. Polezhaeva, Z.N., et al, (1978, p.76-83, rus) **35-1099**
Snow load damage to forest strips. Tarasenko, A.N., et al, (1978, p.83-90, rus) **35-1100**
Biological components of landscapes in the eastern Baykal-Amur railroad area. Babushkin, M.N., ed, (1979, 183p., rus) **35-1518**
Sustaining ecologic equilibrium in the Baykal-Amur railroad zone. Sapozhnikov, A.P., et al, (1979, p.11-26, rus) **35-1520**
Snow distribution control by forest strips. Ivanov, A.F., (1980, p.36-39, rus) **35-1859**
Phenology of Krasnoyarsk forest-steppe forests. Flagin, I.N., (1980, p.159-175, rus) **35-2480**
Snowdrift control. Verge, R.W., et al, (1981, p.630-647, eng) **35-3761**
Wind-tunnel analysis of the effect of plantings on snowdrift control. Ring, S.I., (1980, p.8-12, eng) **35-3785**
Roadside vegetation control and drainage. Creech, M.F., (1980, p.15-22, eng) **35-3787**
Roadside management. Berger, R.L., et al, (1980, p.22-25, eng) **35-3788**
Snowdrifts and protective vegetation along the roads. Saito, S., (1981, 101-106, jap) **35-4269**
Forestry problems in permafrost areas. Nikolaiuk, V.A., (1981, p.6-11, rus) **35-4276**

Proton transport
Kink velocities on dislocations in ice. Frost, H.J., et al, (1976, p.951-961, eng) **35-151**
Proton mobility in ice. Kunst, M., et al, (1980, p.465-467, eng) **35-1370**
Protons rush through ice. (1981, p.20, eng) **35-4251**

Public buildings
Kindergartens in the North. Sova, A.A., (1980, p.32-35, rus) **35-2633**
Urban construction in Siberia. Ogly, B.L., (1980, 272p. (Pertinent p.174-269), rus) **35-2685**

Pumps
Pumping aggregate foundations for northern gas mains. Makar, R.M., et al, (1980, p.11-12, rus) **35-312**
Cold oil salvage pumps. Jolliff, J.V., et al, (1980, p.239-251, eng) **35-827**
Winter performance of hydraulic piston pumps. Kazak, A.S., (1980, p.44-45, rus) **35-1607**
Drilling experiments with drilling fluids. Zagrivnyi, E.A., et al, (1980, p.119-123, rus) **35-2045**
Modular construction in cold regions. Rubinshtein, A.B., (1981, p.24-25, rus) **35-2789**
Thermal regime of open pumps in the North. Kirillov, S.A., et al, (1981, p.7-10, rus) **35-3340**
Pile foundations for northern oil-pumping stations. Chizhevskii, M.V., (1981, p.14-15, rus) **35-3343**
Oil pumping stations in cold regions. Manasypov, F.S., (1981, p.33-34, rus) **35-4242**

Quarries
Open pit mining in arctic regions. Elin, S.N., et al, (1979, p.10-14, rus) **35-865**
Artificial snow for dust control on roads. Bitkolov, N.Z., et al, (1980, p.58-60, rus) **35-867**
Stability of quarry walls in permafrost areas. Fisenko, G.L., et al, (1980, p.18-20, rus) **35-869**
Hydraulic jet mining in permafrost areas. Grinevich, V.V., et al, (1978, p.34-37, rus) **35-1080**

Quaternary deposits
Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia. Popov, A.I., ed, (1980, 256p., rus) **35-279**
Quaternary geology and geomorphology of Harding Lake. Yokoyama, T., et al, (1980, p.45-53, eng) **35-1562**
Evaluating the landscape conditions of soil formation. Uchvatov, V.P., (1980, p.152-154, rus) **35-2303**
Quaternary sedimentation and inferred glacier fluctuations, Scotland. Boulton, G.S., et al, (1981, p.39-51, eng) **35-2938**
Glaciations and marine transgressions, Kennedy Channel, N.W.T. England, J., et al, (1981, p.71-89, eng) **35-2939**
Sedimentological studies in lower Cook Inlet, Alaska. Rappeport, M.L., (1981, p.170-180, eng) **35-3238**
Pleistocene glaciations on Svalbard. Punning, IA.-M.K., et al, (1981, p.20-26, eng) **35-3901**

Radar
De-icing radar scanners. Hickman, D., (1980, 7p. + 7 appends., eng) **35-3772**
Use of radar in polar areas. Biskopshaun, B., (1981, p.303-305, eng) **35-3907**

Radar echoes
Radar data for navigation of coastal and ice covered areas. Worsfold, R.D., et al, (1979, p.83-98, eng) **35-165**
Assessment of SAR for oil pollution surveillance in the ice environment. Parashar, S.K., et al, (1979, p.99-123, eng) **35-166**
Sea ice properties and ice core analysis, Beaufort Sea, 1979. Langhorne, P.J., et al, (1980, 172p., eng) **35-335**
Radar technique of studying peat and sapropel deposits. Bogorodskii, V.V., et al, (1980, p.27-29, rus) **35-365**
Proceedings, (1980, 505p., eng) **35-543**
Sea ice electrical properties measured with borehole radar and reflectometer. Davis, J.L., (1980, p.155-187, eng) **35-551**
Synthetic pulse radar design. Keelty, J.M., et al, (1980, p.349-360, eng) **35-559**
Sea ice thickness radar operating in the high frequency band. Hunt, F.R., (1980, p.373-384, eng) **35-561**
Technology of an airborne impulse radar. Butt, K.A., et al, (1980, p.385-412, eng) **35-562**
Bulk sea ice surveying. Oswald, G.K.A., (1980, p.413-420, eng) **35-563**
Impulse radars. Van Etten, P., (1980, p.421-437, eng) **35-564**
Observation of size distribution of graupel and snow flakes. Harimaya, T., (1978, p.67-77, eng) **35-574**
Radar reflectivity and precipitation rate. Whinnery, R., et al, (1979, p.212-213, eng) **35-680**
Sea ice features of the eastern Arctic from radar data. Ketchum, R.D., Jr., et al, (1980, 14p. + 24 figs., eng) **35-841**
Robeson Channel ice drift and oceanographic measurements, 1970-1975. Dunbar, M., et al, (1980, 24p. + 125 figs., eng) **35-887**
Thermal and radar active layer measurement techniques. Pilon, J.A., et al, (1979, p.317-326, eng) **35-1047**
Cryogenic mineral mounds of the Leaf River lowlands, Ungava. Payette, S., et al, (1979, p.339-358, fre) **35-1049**
Measurement of snowfall by MRL-2 radar. Koloskov, B.P., (1979, p.43-52, rus) **35-1188**
Radar sounding of mountain glaciers. Vasilenko, E.V., et al, (1980, p.273-278, rus) **35-1259**
Radar sounding of Spitsbergen glaciers. Macheret, IU.IA., et al, (1980, p.279-286, rus) **35-1260**
Sea ice conditions and frequency of radar echoes. Aota, M., et al, (1978, p.115-123, jap) **35-1547**
Intensity of reflected power of sea ice radar waves. Oi, M., et al, (1978, p.125-129, jap) **35-1548**
Radar clutter models at 95GHz. Hayes, R.D., (1980, 13p., eng) **35-1590**
Radar observations of snowpacks. Stiles, W.E., et al, (1980, p.131-146, eng) **35-1740**
Geophysical methods of studying permafrost in the USSR. Akimov, A.T., et al, (1980, 51p., rus) **35-1928**
Radar methods of studying the earth. Mel'nik, IU.A., et al, (1980, 161p., rus) **35-2250**
Video-pulse radar for measuring ice thickness. Finkel'shtein, M.I., et al, (1981, 16p., eng) **35-2590**
General methodological aspects of radar signal interpretation. Kotiukh, A.A., (1980, p.203-210, eng) **35-2627**
Connection between the Gamburtsev and Vernadskiy Mountains. Koblents, IA.P., (1980, p.224-233, eng) **35-2629**
Subglacial topography of the Vavilov Ice Dome. Bogorodskii, V.V., et al, (1980, p.192-194, rus) **35-2830**
Precipitation in the atmosphere and on the earth's surface. Litvinov, I.V., (1980, 208p., rus) **35-2948**
Ice cover thickness from radar data. Chizhov, A.N., et al, (1980, p.112-124, rus) **35-2982**
Studying winter frontal cloud boundaries from radar data. Zabolotskaia, T.N., et al, (1980, p.142-145, rus) **35-2996**
Application of airborne radar surveying in geologic and geographic investigations. Glushkov, V.M., ed, (1981, 238p., rus) **35-3224**
Interpretation of monopulse ice radar soundings on two Peruvian glaciers. Jezek, K.C., et al, (1981, p.958-973, eng) **35-3588**
Inlet current measured with Seasat-1 synthetic aperture radar. Shemdin, O.H., et al, (1980, p.35-37, eng) **35-3704**
Measurement of finite strain in sea ice by impulse radar techniques. Stander, E., et al, (1980, p.127-164, eng) **35-3841**
Doppler radar spectrum of ice particle fallspeeds. Passarelli, R.E., Jr., et al, (1980, p.1318-1322, eng) **35-3866**
Radar measurements of ice cover thickness in the Arctic Ocean. Finkel'shtein, M.I., et al, (1981, p.117-119, rus) **35-3958**

Radar photography
Application of airborne radar surveying in geologic and geographic investigations. Glushkov, V.M., ed, (1981, 238p., rus) **35-3224**
Radar spectral observations of snow. Stiles, W.H., et al, (1981, p.654-668, eng) **35-3440**
Greenland remote sensing studies using NOAA-5 satellite data (1980, 65p., fre) **35-3551**

Radiance
Microwave radiance of early fall sea ice at 1.55 cm. Carsey, F.D., et al, (1981, p.989-994, eng) **35-3590**

Radiant cooling
Heat transfer at the soil-air interface. IAkushevskaia, K.E., (1980, p.79-92, rus) **35-2441**

Radiation
Using cosmic radiation in monitoring mudflows. Dubinchuk, V.T., (1980, p.85-89, rus) **35-774**
Air temperature and snow heat energy at night in Sapporo. Ishikawa, N., et al, (1978, p.121-137, jap) **35-1181**
Surface stability in the presence of industrial activities in permafrost areas. Grave, N.A., ed, (1980, 142p., rus) **35-2184**
Heat transfer at the soil-air interface. IAkushevskaia, K.E., (1980, p.79-92, rus) **35-2441**
Influence of the observatory summit on radiation measurements. Buser, O., (1980, p.152-154, ger) **35-2567**
Variations in microwave emission of sea ice (numerical modeling). Nikitin, P.A., (1980, p.56-63, rus) **35-3544**
Evaluating fire danger in taiga from microwave radiation. Valendik, E.N., et al, (1980, p.14-19, rus) **35-3545**

Radiation absorption
Numerical study of the transmission of solar radiation through snow. O'Neill, A.D.J., et al, (1979, p.446-458, eng) **35-422**
Solar radiation absorption by snow, firn and ice. Belova, N.I., et al, (1970, p.53-64, rus) **35-1571**
Short-wave radiation regime in Antarctica based on 20 years of observation. Marshunova, M.S., (1980, p.11-19, rus) **35-2179**

Modelling of shortwave radiation for snow covered terrain Waterman, S.E., (1980, p.144-158, eng) 35-3154
Intensity fluctuations of a laser beam in falling snow Zhukov, A.F. et al, (1980, p.103-107, eng) 35-4159

Radiation balance

Spectral solar radiation model for snow-covered mountains Dozier, J., (1980, p.709-718, eng) 35-438
Water balance of the Bratsk reservoir Geta, R.I., (1978, 134p., rus) 35-811
Calculating radiation balance on glacier surfaces Cherkasov, P.V., (1980, p.98-104, rus) 35-1235
Radiant energy exchange in forest snow cover Marks, B., et al, (1980, p.43-49, eng) 35-2225
Climatic conditions and microclimate of taiga geosystems in Siberia Bufal, V.V., ed. (1980, 232p., rus) 35-2485
Radiation balance of Siberian taiga Bufal, V.V., et al, (1980, p.5-30, rus) 35-2486
Heat budget of the Greenland ice sheet Ambach, W., (1979, p.44-54, ger) 35-2643
Glacial meteorology of Mt. Tuomuer Kou, Y., et al, (1980, p.11-14, chi) 35-2911
Climate forming processes in the Minusinsk Basin Dutnev, V.F., (1980, p.59-77, rus) 35-3417
Radiation balance of taiga geosystems Mar'enin, G.N., (1980, p.190-193, rus) 35-3481
Typification of central taiga facies in West Siberia according to thermal conditions and the structure of radiation-meteorological fields Trofimova, I.E., (1978, p.97-123, rus) 35-3824
Climatic conditions of the Magadan Region Mel'nikova, T.V., (1976, p.5-21, rus) 35-3826
Radiation balance at the physical surface of mountain glaciers during ablation Cherkasov, P.A., (1980, 143p., rus) 35-3963
Radiation balance of west Siberian taiga Potapova, I.S., (1981, p.68-81, rus) 35-3970
Some features of radiation and heat balance of Batura Glacier Bai, Z., et al, (1980, p.57-82, chi) 35-4030
Radiation balance of melting snow in open boreal forest Petzold, D.E., (1981, p.287-293, eng) 35-4261

Radiation measuring instruments

Several properties of the radio emission of land surfaces Gurvich, V.S., (1973, 29p., eng) 35-1895
Radiation and heat balance of glaciers and permafrost (1980, p.32-33, chi) 35-2661

Radio communication

1980-81 ANARE report (1980, 62p., eng) 35-1400

Radio echo soundings

Positioning in polar regions Osterholt, P.A., (1979, p.125-137, eng) 35-167
Aerial survey of ice thickness of the Dufek Massif Behrendt, J.C., et al, (1980, p.1014-1017, eng) 35-218
Physics of ice and ocean Bogorodskii, V.V., ed. (1980, 157p., rus) 35-360
Combined microwave-infrared radiometers for sea ice Bogorodskii, V.V., et al, (1980, p.23-26, rus) 35-364
Active methods for sea ice thickness measurements Bogorodskii, V.V., (1980, p.361-372, eng) 35-560
Stable isotope and radio echo sounding investigations in [illegible] (1979, p.[illegible], eng) 35-666
Airborne geophysical investigations of ice sheet and bedrock, 1978-79 Drewry, D.J., et al, (1979, p.95-96, eng) 35-667
Research workshop on radio echo sounding of ice Sivaprasad, K., (1979, p.98, eng) 35-669
Radio echo sounding of surface atmospheric layer Babkin, S.I., et al, (1980, p.36-45, rus) 35-770
Airborne radio echo sounding of glaciers in Svalbard Drewry, D.J., et al, (1980, p.261-266, eng) 35-943
Ice - Physical properties - Modern methods of glaciology Bogorodskii, V.V., et al, (1980, 384p., rus) 35-1123
Temperature profiles in the Barnes Ice Cap, Canada Hooke, R.L., et al, (1980, p.1174-1188, eng) 35-1266
Acidity of polar ice cores Hammer, C.U., (1980, p.359-372, eng) 35-1500
Radio echo sounding equipment for glaciers Sverrisson, M., et al, (1980, p.472-486, eng) 35-1509
Report of radio echo sounding of ice workshop, Durham, U.K., 1978 Sivaprasad, K., ed. (1978, 15p. + Append., eng) 35-1915
Airborne impulse radar sounding of sea ice Rossiter, J.R., et al, (1980, p.187-191, eng) 35-2244
Review advances in radio-echo sounding of glacier in foreign countries Gu, Z., (1980, p.93-96, chi) 35-2683
Polarization of radio waves in ice sheets Doake, C.S.M., (1981, p.539-558, eng) 35-2883
Use of radio-echo measurements in determining the thickness and velocity of an antarctic ice sheet Bogorodskii, V.V., et al, (1979, p.60-74, eng) 35-2886
Satellite recording of dynamic processes at the earth surface Berry, B.L., (1981, p.108-113, rus) 35-3336
Ice sounding over the Dufek Massif Behrendt, J.C., et al, (1981, p.3014-3020, eng) 35-3362
Glaciological data from JARE-20 Wada, M., et al, (1981, 43p., eng) 35-3599
Airborne radio echo sounding on Shirase Glacier Wada, M., et al, (1981, p.16-25, eng) 35-4221

Radio waves

Dependence of sea ice refraction on specific attenuation Khokhlov, G.P., (1980, p.15-17, rus) 35-362
Microwave absorption and scattering by water and ice particles Abshaev, M.T., et al, (1975, p.40-71, rus) 35-1616
Radio wave attenuation due to snow and rain Akeyama, A., et al, (1980, p.580-585, eng) 35-2413
Polarization of radio waves in ice sheets Doake, C.S.M., (1981, p.539-558, eng) 35-2883
Relations between electrical and physical properties of ice Nikitin, P.A., (1980, p.108-110, rus) 35-3547

Radioactive age determination

Shoreline history and Beaufort Seas Hopkins, D.M., et al, (1980, p.371-379, eng) 35-1159
Lichenometric dating of Holocene glaciers, Brooks Range, Alaska Calkin, P.E., et al, (1980, p.245-264, eng) 35-1665
Late Weichselian ice sheets in Eurasia and Greenland Andersen, B.G., (1981, p.1-65 + 5 sheets, eng) 35-2063
Late Wisconsin ice sheets in North America Mayewski, P.A., et al, (1981, p.67-178 + 3 sheets, eng) 35-2064
West antarctic ice sheet during the last glaciation Stuiver, M., et al, (1981, p.319-436 + 5 sheets, eng) 35-2069
Ice sheet edges of basin and shelf of the Laurentide Mts Stump, E., et al, (1980, p.757-759, eng) 35-2792
Lake sediment coring along Smith Sound, Ellesmere Island and Greenland Blake, W., Jr., (1981, p.191-200, eng) 35-3086
Prediction of offshore permafrost conditions Smith, P.A., et al, (1981, p.159-255, eng) 35-3257
Dating of the fossil tundra in the forefield of Werenskioldbreen Baranowski, S., (1977, p.31-36, eng) 35-3620
Radiocarbon date list I: Labrador and northern Quebec, Canada Short, S.K., comp. (1981, 33p., eng) 35-3681
Pleistocene glaciations on Svalbard Punning, J.-M.K., et al, (1981, p.20-26, eng) 35-3901
Recent deposits and Pleistocene paleogeography of Chukotskiy Peninsula Kaplin, P.A., ed. (1980, 295p., rus) 35-3930
Cryogenic structure of the Amur River basin alluvium Kostiaev, A.G., et al, (1981, p.126-153, rus) 35-4077

Radioactive isotopes

Migration and biological activity of natural radionuclides in northern biogeocenoses Popova, O.N., ed. (1980, 179p., rus) 35-1514
Radioactive elements in cryogenic soils Gil', T.V., (1980, p.52-57, rus) 35-1515
Thorium effect on living organisms of taiga soils Krivolutskii, D.A., et al, (1980, p.120-124, rus) 35-1517
Cl-36 in polar ice, rainwater and seawater Finkel, R.C., et al, (1980, p.983-986, eng) 35-1536
Analysis of Cl-36 in environmental water samples using an electrostatic accelerator Elmore, D., et al, (1979, p.22-25, eng) 35-1593
Research on environmental nuclides in Antarctica Frohlich, K., et al, (1980, p.122-144, ger) 35-2437
Uranium and plutonium isotopes in glacier ice Bondarev, L.G., et al, (1981, p.198-200, rus) 35-3302
^{241}Pu $^{239+240}Pu$ ratios in polar glacier Koide, M., et al, (1981, p.239-247, eng) 35-4297

Radioactivity

Exploration for uranium through glacial drift in northern Sweden Lundberg, B., (1973, p.31-43, eng) 35-2743
Ice core studies from Mt. Kenya, Africa Thompson, L.G., (1981, p.55-62, eng) 35-3021

Radiometry

Passive radiometry of the ocean from space - an overview McClain, E.P., (1980, p.7-24, eng) 35-160
Physics of ice and ocean Bogorodskii, V.V., ed. (1980, 157p., rus) 35-360
Microwave radiometry of sea ice Nikitin, P.A., (1980, p.18-22, rus) 35-363
Sea ice reporting from satellite data Nikitin, P.A., et al, (1980, p.65-68, rus) 35-786
Passive microwave imagery of sea ice at 33 GHz Ketchum, R.D., et al, (1980, p.211-223, eng) 35-1128
Remote sensing of snow properties Chang, A.T.C., et al, (1980, p.169-185, eng) 35-1742
Microwave radiometric observations of snowpacks Ulaby, F.T., et al, (1980, p.187-201, eng) 35-1743
Studies of microwave radiation from a snow field Tiuri, M., et al, (1980, p.225-234, eng) 35-1745
Geophysical methods of studying permafrost in the USSR Akimov, A.T., et al, (1980, 51p., rus) 35-1928
Thermal effluents in Boundary Reservoir during winter Kennedy, B.C., (1978, p.97-110, eng) 35-2237
Radar methods of studying the earth Mel'nik, R.A., et al, (1980, 161p., rus) 35-2250
Solar penetration radiometer and its preliminary testing results Xie, Y., et al, (1980, p.12-14, chi) 35-2652
Proceedings of the International Geoscience and Remote Sensing Symposium, 1981 (1981, 755p., eng) 35-3432
Observation of sea ice properties with the NIMBUS-7 SMMR Cavalieri, D.J., et al, (1981, p.69-78, eng) 35-3433
NORSEX project to study ice-ocean dynamics Farrally, B.A., et al, (1981, p.86-88, eng) 35-3436
NOAA NESS satellite snowmapping techniques Schneider, S.R., et al, (1981, p.133-140, eng) 35-3439
Studying microwave emission from a snow cover Gershenzon, V.E., et al, (1981, p.58-62, rus) 35-3541
Variations in microwave emission of sea ice (numerical modeling) Nikitin, P.A., (1980, p.56-63, rus) 35-3544
Snowpack monitoring using microwave satellite data Fortet, J.L., et al, (1980, 20p., eng) 35-3603
Measurements of water equivalent of snow Chang, A.T.C., et al, (1980, p.215-229, eng) 35-3855
Airborne multifrequency radiometry of sea ice Skou, N., (1980, 198p., eng) 35-4247

Railroad equipment

Railroad track switch operable in snow and ice, Pt.4 Coveney, D.B., (1980, p.11p. + 3 figs., eng) 35-832
Rail transit winterization technology and systems operations study LaMarca, J.J., et al, (1980, 157p., eng) 35-1848

Railroad tracks

Winter maintenance of railroad tracks Buzunov, Z.T., (1980, p.10-11, rus) 35-5
Winter maintenance of railroad tracks and locomotives Bel'den, V.V., (1979, p.10-15, rus) 35-456
Building construction in the North Sergeev, A.F., et al, (1980, p.7-10, rus) 35-461
Water fights snow for buffer zones, automated snowblows clear tracks (1981, p.25, eng) 35-2941

Railroads

Dimensions of frost heave humps Gritsyk, V.I., (1980, p.23-25, rus) 35-6
Eliminating frost heave on railroads Lukanin, A.M., (1980, p.25, rus) 35-7
Protection of embankment slopes in permafrost areas Vorotnikov, V.S., et al, (1980, p.3-5, rus) 35-104
Distribution of construction task force in the North Akkerman, G.L., et al, (1980, p.19-20, rus) 35-106
Modeling the strength and stability of roadbeds Lakovleva, T.G., et al, (1980, 255p., rus) 35-281
Winter maintenance of railroad tracks and locomotives Bel'den, V.V., (1979, p.10-15, rus) 35-456
Winterizing railroad equipment and machines Golovnov, G.G., et al, (1980, p.57-58, rus) 35-457
Powerful electric locomotive for Siberia (1980, p.68-69, rus) 35-458
Roadbeds on moist fines Knizhnik, G.B., et al, (1980, p.4-5, rus) 35-599
Modern methods of road construction Smirnov, I.V., (1980, p.45-47, rus) 35-609
Projects for transportation technology in Canada, 1979 (1980, 83p., eng) 35-840
Transportation development problems and prospects Economic development of Siberia and the Far East Pavlovskii, I.G., (1980, 125p., rus) 35-864
Artificial rock freezing in tunnel construction Lakubovich, D.V., (1980, p.55-56, rus) 35-1300
Railroad embankments on unstable slopes Basistov, M.A., (1980, p.5-7, rus) 35-1525
Rail transit winterization technology and systems operations study LaMarca, J.J., et al, (1980, 157p., eng) 35-1848
Principle of railway line selection in alpine permafrost regions Qui, G., et al, (1981, p.278-287, eng) 35-2509
Freeze thaw regularity of railway bed in permafrost Zhu, Y., (1980, p.38-43, chi) 35-2917
Construction of the Trans-Siberian Railroad System Paul', V.P., (1980, 167p., rus) 35-3548
Permafrost - Engineering design and construction Johnston, G.H., ed. (1981, 540p., eng) 35-3703
Snow and ice control on railroads, highways and airports Minsk, L.D., et al, (1981, p.671-706, eng) 35-3763

Rain

Forecasting rain-induced mudflows Kirenskaia, I.I., (1980, p.36-45, rus) 35-207
Sprinkling systems for producing artificial ice Gordeichik, A.V., et al, (1980, p.254-260, rus) 35-1254
Mudflows in relation to climate and topography, Canadian Rocky Mts Owens, I.F., (1974, p.313-318, eng) 35-1949
Radio wave attenuation due to snow and rain Akeyama, A., et al, (1980, p.580-585, eng) 35-2413
Wave propagation due to rain and ice crystals Dilworth, J.L., et al, (1981, p.126-132, eng) 35-3884
Hydrochimatically anomalous years in West Siberia Glukh, I.S., (1981, p.93-100, rus) 35-3972
Dynamics of soil water runoff in permafrost areas Khersonskii, F.S., et al, (1980, p.37-43, rus) 35-3993

Raindrops

Mathematical models of artificial ice formation Sosnovskii, A.V., (1980, p.49-54, rus) 35-1225
Freezing of artificial rain drops Sosnovskii, A.V., (1980, p.54-59, rus) 35-1226
Lightning from ice crystals and colliding raindrops Crabb, J.A., et al, (1977, p.618-622, eng) 35-3781

Recording

Offshore drilling of engineering-geological wells Arkhangel'skii, I.V., (1980, 263p., rus) 35-202

Recording instruments

Observations of ground avalanches with a video tape recorder (VTR) Akitaya, E., (1980, p.493-496, eng) 35-2389

Records (extremes)

Natural resources of the northeastern USSR Lozhkin, A.V., ed. (1976, 152p., rus) 35-3825

Records (extremes) *(cont.)*
Climatic conditions of the Magadan Region. Mel'nikova, T.V., (1976, p.5-21, rus) **35-3826**
Recrystallization
Glaciological work on the Shackleton Ice Shelf (Jan.-Apr. 1978). Savatiugin, L.M., (1980, p.114-118, rus) **35-2044**
Reflection
Intensity of reflected power of sea ice radar waves. Oi, M., et al. (1978, p.125-129, jap) **35-1548**
Net shortwave radiation model for glacierized basins. Munro, D.S., et al. (1980, p.159-169, eng) **35-3155**
Arctic stratus clouds and reflection effects on irradiance. Wendler, G., et al. (1981, p.2049-2057, eng) **35-3276**
Radiative properties of snow for clear sky solar radiation. Choudhury, B., (1981, p.103-120, eng) **35-3667**
Reflectivity
Spectral reflectivity of cryogenic soils. Sadovnikov, I.N., (1980, p.45-52, rus) **35-535**
Solar reflectance of a snow field. Choudhury, B.J., et al. (1979, p.121-128, eng) **35-698**
On the angular variation of solar reflectance of snow. Choudhury, B.J., et al. (1981, p.465-472, eng) **35-2340**
On the angular variation of solar reflectance of snow. Choudhury, B.J., et al. (1981, p.465-472, eng) **35-2750**
On the angular variation of solar reflectance of snow. Choudhury, B.J., et al. (1981, p.465-472, eng) **35-3601**
Ice cover reflectivity in the Laptev Sea. Appel', I.L., et al. (1979, p.27-31, rus) **35-4185**
Refraction
Some characteristics of the antarctic aerosols. Hogan, A., et al. (1980, p.78-86, eng) **35-3411**
Scheimer's halo: evidence for ice Ic in the atmosphere. Whalley, E., (1981, p.389-390, eng) **35-4249**
Regelation
Experimental studies with frozen soil in an "ice sandwich" permeameter. Horiguchi, K., et al. (1980, p.177-183, eng) **35-733**
Thermal fields during regelation. Philip, J.R., (1980, p.193-203, eng) **35-735**
Wire regelation at low temperatures. Gilpin, R.R., (1980, p.435-448, eng) **35-2153**
Regional planning
Technical progress and production rate in the North. Egorov, E.G., ed. (1978, 162p., rus) **35-4108**
Economic problems of regional technical policy in the North. Egorov, E.G., (1978, p.3-14, rus) **35-4109**
Scientific-technical progress in the North. Vlasov, V.I., (1978, p.15-23, rus) **35-4110**
Performance of modern technical equipment in the North. Skrybykin, V.N., (1978, p.24-31, rus) **35-4111**
Reinforced concretes
Thermal regime of concrete pavements in cold regions. Ushakov, V.V., et al. (1977, p.60-64, rus) **35-74**
Pile foundations for weak ground. Shapiro, V.D., et al. (1980, p.4-6, rus) **35-94**
Concrete plates for protecting slopes in cold regions. Il'din, I.N., (1980, p.17-19, rus) **35-105**
Allowing for low temperature effects in structural design. Milovanov, A.F., et al. (1980, p.25-26, rus) **35-471**
Exhibition: Foundation construction in the USSR. Smirnov, I.V., (1980, p.42-45, rus) **35-608**
Precast reinforced concrete foundations on freezing soil. Kuracheva, N.V., (1980, p.17, rus) **35-784**
Reinforced concrete plates for road pavements. Kholopov, A.I., (1980, p.12-13, rus) **35-919**
Construction of river harbors under severe climatic conditions. Rikhter, O.B., et al. (1980, p.18-20, rus) **35-1299**
Reinforced concrete piles driven into weak soils. Timofeev, Il.I., et al. (1980, p.107-110, eng) **35-1385**
Reinforced concrete overflow-part of earth dams. Pravdivets, Il.P., (1980, p.39-41, rus) **35-1639**
Construction of petroleum industry objects in permafrost areas. Shemraev, G.A., et al. (1980, p.10-11, rus) **35-1646**
Deformation of loaded concrete beams at subzero temperature. Gorchakov, G.I., et al. (1980, p.7-9, rus) **35-1650**
Manual for earthquake-resistant brick buildings. (1976, 32p., rus) **35-1716**
Concrete and reinforced concrete cast-in-place structures. (1977, 127p., rus) **35-1717**
Instructions for using formwork for cast-in-place reinforced concrete structures, No.3. (1974, 142p., rus) **35-1719**
Vacuum degassing in construction technology of the North. Polonskii, I.A., (1980, 175p., rus) **35-2048**
Precast lightweight concrete for cold regions. Vasil'ev, N.F., et al. (1981, p.20-23, rus) **35-2080**
Panel joint structures for cold regions. Cheremisov, K.M., et al. (1980, p.68-70, rus) **35-2102**
Frost resistant fiber reinforced concretes. Ekibaeva, V.A., et al. (1980, p.134-142, rus) **35-2426**
Parking deck deterioration from chlorides. Jacobson, N.G., et al. (1981, p.438-448, eng) **35-2517**
Modular construction in cold regions. Rubinshtein, V.B., (1981, p.24-25, rus) **35-2789**
Construction of bulk plants and gasoline stations. Grozmov, G.A., et al. (1980, 332p. (Pertinent p.56-147), rus) **35-2873**
Concrete and reinforced concrete work. Construction manual. Topchii, V.D., ed. (1980, 201p., rus) **35-2880**
Prolonging the service life of concrete in transport structures. Sheikin, A.E., ed. (1980, 158p., rus) **35-3524**
Forecasting frost resistance of concretes. Sheikin, A.E., et al. (1980, p.3-17, rus) **35-3525**
Corrosion of concrete reinforcements from antifreeze admixtures. Sheikin, A.E., et al. (1980, p.35-44, rus) **35-3528**
Design of avalanche protection structures. Bilhalov, K.B., (1980, p.79-84, rus) **35-3577**
Facings of dome-shaped structures built under severe climatic conditions. Lipnitskii, M.E., (1981, 136p., rus) **35-3864**
Water proofing massive concrete in freezing weather. Alekseenko, L.N., et al. (1981, p.67-71, rus) **35-4291**
Remote sensing
Remote sensing for earth dam site selection and construction materials. Merry, C.J., et al. (1980, p.158-170, eng) **35-153**
POAC '79, Trondheim, Norway, Aug. 1979, Vol.3. (1979, 608p., eng) **35-161**
Sea ice and icebergs. Peters, G.R., (1979, p.41-59, eng) **35-162**
On the drift ice conditions in the Atlantic sector of the Antarctic. Vinje, T.E., (1979, p.75-82, eng) **35-164**
Radar data for navigation of coastal and ice covered areas. Worsfold, R.D., et al. (1979, p.83-98, eng) **35-165**
Overview on the seasonal sea ice zone. Weeks, W.F., et al. (1979, p.320-337, eng) **35-178**
Ice and iceberg studies using state-of-the-art remote sensing. Lowry, R.T., et al. (1979, p.551-569, eng) **35-180**
Sea ice properties and ice core analysis, Beaufort Sea, 1979. Langhorne, P.J., et al. (1980, 172p., eng) **35-335**
Remote sensing and cold climate hydrology. Kruus, J., (1979, p.403-413, eng) **35-426**
Computer enhanced snow cover analysis of satellite data. Hogg, W.D., et al. (1979, p.414-423, eng) **35-427**
Comparison of snow cover retreat data from CFQUEM model and satellite. Fortin, J.P., et al. (1979, p.424-448, fre) **35-428**
Snow cover, snowmelt and runoff in the Mackenzie basin. Dey, B., et al. (1979, p.449-460, eng) **35-429**
Proceedings. (1980, 505p., eng) **35-545**
Remote sounding of sea ice-past, present and future applications. Mercer, J.B., (1980, p.1-22, eng) **35-546**
Electromagnetic properties of sea ice. Bogorodskii, V.V., (1980, p.23-51, eng) **35-547**
Review of impulse radar sounding of sea ice. Rossiter, J.R., (1980, p.77-107, eng) **35-549**
Physical properties of sea ice and under-ice current orientation. Kovacs, A., et al. (1980, p.109-153, eng) **35-550**
Ice freeboard determination by satellite altimetry. Stanley, H.R., et al. (1980, p.295-304, eng) **35-555**
Some tests of a VHF synthetic pulse sea ice thickness sensor. Tam, S.Y.K., et al. (1980, p.305-312, eng) **35-556**
Low frequency methods for measuring sea ice thickness. Hoekstra, P., et al. (1980, p.313-330, eng) **35-557**
Fast ice regimes of the Beaufort and Chukchi Sea coasts, Alaska. Barry, R.G., et al. (1979, p.129-152, eng) **35-699**
Sea ice features of the eastern Arctic from radar data. Ketchum, R.D., Jr., et al. (1980, 14p. + 24 figs., eng) **35-841**
Robeson Channel ice drift and oceanographic measurements, 1970-1975. Dunbar, M., et al. (1980, 24p. + 125 figs., eng) **35-887**
Variations of August ice cover in the Beaufort Sea. Dey, B., (1980, p.213-217, eng) **35-894**
Snow water content measured by airplane. (1980, p.497-498, eng) **35-895**
Remote sensing of soil moisture. Kondrat'ev, K.IA., et al. (1977, p.66-76, rus) **35-901**
Arctic sea-ice variations from time-lapse passive microwave imagery. Campbell, W.J., et al. (1980, p.99-106, eng) **35-1115**
Passive microwave imagery of sea ice at 33 GHz. Ketchum, R.D., et al. (1980, p.211-223, eng) **35-1128**
Satellite pictures and snow measurements. Marbouty, D., et al. (1978, p.517-526, fre) **35-1163**
Measurement of snowfall by MRL-2 radar. Koloskov, B.P., (1979, p.43-52, rus) **35-1188**
Satellite measurements of ocean surface temperature. Staritsyn, D.K., (1980, p.52-61, rus) **35-1345**
Infrared images of North Water during polar darkness. Dey, B., (1980, 425-438, eng) **35-1505**
Reflectance of snow at millimeter wavelengths. Anderson, R.C., et al. (1980, 40p., eng) **35-1582**
Air deployed oceanographic mooring (ADOM). (1980, 77p., eng) **35-1589**
Satellite experiments on SHF earth radiation. Basharinov, A.E., et al. (1979, p.263-267, eng) **35-1690**
Microwave remote sensing of snowpack properties. (1980, 275p., eng) **35-1732**
Remote sensing data on snow properties. Shafer, B.A., (1980, p.1-10, eng) **35-1733**
Remote sensing for snowpack measurements and water supply forecasting. Brown, A.J., et al. (1980, p.11-19, eng) **35-1734**
Microwave measurements of snow water equivalence. Boyne, H.S., et al. (1980, p.119-129, eng) **35-1739**
Microwave remote sensing of snowpacks. Kong, J.A., et al. (1980, p.147-167, eng) **35-1741**
Remote sensing of snow properties. Chang, A.T.C., et al. (1980, p.169-185, eng) **35-1742**
Ice transport in Great Lakes. Rumer, R.R., Jr., et al. (1979, 275p., eng) **35-1773**
Remote sensing studies of the water component. Grunberg, A.M., et al. (1980, p.152-154, rus) **35-1923**
Spring runoff forecasts in the Malmagen area, Sweden. Zarkesson, K., (1980, 119p. + append., swe) **35-2151**
Summary of satellite observations of Great Lakes ice, 1974-1980. Clark, J.W., (1980, p.21-33, eng) **35-2159**
Ice formation and ice control programs for St. Lawrence Seaway. Hung, S.C., (1980, p.35-47, eng) **35-2160**
Symposium on Sea Ice Processes and Models, Seattle, Wa., 1977. Pritchard, R.S., ed. (1980, 474p., eng) **35-2167**
Continuum sea ice model for a global climate model. Ling, C.H., et al. (1980, p.187-196, eng) **35-2169**
Divergence and rotation of an ice field off Okhotsk Sea coast of Hokkaido. Tabata, T., et al. (1980, p.27-32, eng) **35-2170**
Watershed information system. Thomsen, A.G., et al. (1980, p.14-25, eng) **35-2222**
Radiant energy exchange in forest snow cover. Marks, D., et al. (1980, p.43-49, eng) **35-2225**
Mapping snow surface temperature from satellite data, Sierra Nevada. Frampton, M., et al. (1980, p.88-96, eng) **35-2231**
Calibration procedure for airborne gamma ray snow surveys. Glynn, J.E., et al. (1980, p.120-127, eng) **35-2234**
Radar methods of studying the earth. Mel'nik, Il.A., et al. (1980, 161p., rus) **35-2250**
Automated system for collecting snow hydrological data. Rallison, R.E., (1981, p.85-89, eng) **35-2315**
Microwave remote sensing of snow and soil moisture. Tsang, L., et al. (1980, p.3465-3485, eng) **35-2410**
Remote sensing of revegetation of burned tundra, Kokolik River, Alaska. Hall, D.K., et al. (1980, p.263-272, eng) **35-2462**
1977 tundra fire at Kokolik River, Alaska. Hall, D.K., et al. (1978, 11p., eng) **35-2591**
Remote measuring and auto-recording of ground temperature. Yu, J., et al. (1980, p.7-9, chi) **35-2650**
Application of remote sensing data in the glacial mapping work. Wu, H., (1980, p.60-61, chi) **35-2670**
Spaceborne photography for determining tectonic faults. Liang, F., et al. (1980, p.61-62, chi) **35-2671**
Preparation of glacier distribution maps. Yin, S., (1980, p.67-70, chi) **35-2673**
Preparation of synthetic image map of permafrost in the north of Tuo-Tuo River. Tuo, X., et al. (1980, p.70-71, chi) **35-2674**
SEASAT imagery of Bering Sea ice. Martin, S., (1980, 17p., eng) **35-2708**
Eastern-western Arctic sea ice analysis. (1979, 104p., eng) **35-2928**
Snow surveys from earth resources satellites in the Swiss Alps. Haefner, H., (1980, 65p., eng) **35-2930**
Studying wetland systems from satellite data. Vinogradov, B.V., (1980, p.83-92, rus) **35-2978**
Remote sensing of oil in sea ice. Goodbic, G., (1980, p.33-52, eng) **35-3092**
Two low Arctic vegetation maps near Atkasook, Alaska. Komarkova, V., et al. (1980, p.447-472, eng) **35-3199**
Modeling the geostrophic drag coefficient for AIDJEX. Brown, R.A., (1981, p.1989-1994, eng) **35-3273**
Spaceborne monitoring of Canadian Arctic winter sea ice dynamics. Dey, B., (1981, p.3223-3235, eng) **35-3372**
Satellite observation of Great Lakes ice, winter 1978-79. Wartha-Clark, J., (1980, 36p., eng) **35-3409**
Proceedings of the International Geoscience and Remote Sensing Symposium, 1981. (1981, 755p., eng) **35-3432**
Observation of sea ice properties with the NIMBUS-7 SMMR. Cavalieri, D.J., et al. (1981, p.69-78, eng) **35-3433**
Time-sequential multispectral observation of the Greenland ice sheet. Gloersen, P., et al. (1981, p.79-81, eng) **35-3434**
Global snow cover of 1978-79 as observed with the NIMBUS-7 SMMR. Kuenzi, K.F., et al. (1981, p.83-84, eng) **35-3435**
NORSEX project to study ice-ocean dynamics. Farrally, B.V., et al. (1981, p.86-88, eng) **35-3436**
Runoff modelling from snow covered area. Martinec, J., (1981, p.113-122, eng) **35-3437**
Survey paper on remote sensing techniques to map snow cover. Barnes, J.C., (1981, p.123-132, eng) **35-3438**
NOAA NESS satellite snowmapping techniques. Schneider, S.R., et al. (1981, p.133-140, eng) **35-3439**
Radar spectral observations of snow. Stiles, W.H., et al. (1981, p.654-668, eng) **35-3440**
Microwave emission signatures of snow in Finland. Hiiri, M., (1981, p.670-675, eng) **35-3441**
Utilization of remote sensing in Alaskan permafrost studies. Hall, D.K., (1981, p.676-684, eng) **35-3442**

Correlation function studies for microwave remote sensing of snow and ice. Vallese, F., et al, [1981, p.685-690, eng] 35-3443

Microwave remote sensing of earth terrain (snow, ice, vegetation). Zuniga, M.Z., et al, [1981, p.691-695, eng] 35-3444

Concepts for data collection in the Arctic. Hatchwell, J.A., [1972, 72p., eng] 35-3466

Satellite observations of the ice edge in coastal areas from Queen Maud Land to the Filchner Ice Shelf. Gernandt, H., [1979, p.127-131, ger] 35-3489

Space surveying methods for studying exogenic processes. Plastinin, L.A., et al, [1981, p.22-26, rus] 35-3540

Studying microwave emission from a snow cover. Gershenzon, V.E., et al, [1981, p.58-62, rus] 35-3541

Radiophysical methods of sounding atmosphere and ocean surface from space. Gurvich, A.S., et al, [1981, p.63-70, rus] 35-3542

Greenland remote sensing studies using NOAA-5 satellite data. [1980, 65p., fre] 35-3551

Dielectric properties and passive remote sensing of low-salinity sea ice. Hallikainen, M., [1980, 78p., eng] 35-3559

International Geoscience and Remote Sensing Symposium, 1981, Vol.2. [1981, p.755-1461, eng] 35-3585

Mountain glaciers from SEASAT radar images. Ford, J.P., [1981, p.864-869, eng] 35-3586

Application of microwave remote sensing for snow and ice properties. Campbell, W.J., et al, [1981, p.951-957, eng] 35-3587

Accuracy of operational snow and ice charts. Kukla, G., et al, [1981, p.974-987, eng] 35-3589

Microwave radiance of early fall sea ice at 1.55 cm. Carsey, F.D., et al, [1981, p.989-994, eng] 35-3590

Ice distribution and winter surface circulation, Kachemak Bay, Alaska. Gatto, L.W., [1981, p.995-1001, eng] 35-3591

Satellite laser altimeter for measurement of ice sheet topography. Bufton, J.L., et al, [1981, p.1003-1011, eng] 35-3592

Snowpack monitoring using microwave satellite data. Forter, J.L., et al, [1980, 20p., eng] 35-3603

FGGE Arctic data buoy program. Thorndike, A.S., [1980, p.2097-2099, eng] 35-3655

Final SURSAT Ice Workshop, Toronto, 1980. [1981, 7 sections, eng] 35-3656

Bering Sea ice project. [1980, 34p., eng] 35-3675

Measure of Arctic sea ice characteristics using microwave scatterometry. Jackson, B.L., et al, [1979, p.278-280, eng] 35-3707

Snow measurement and data analysis. Goodison, B.E., et al, [1981, p.191-274, eng] 35-3751

Measurement of finite strain in sea ice by impulse radar techniques. Stander, E., et al, [1980, p.127-164, eng] 35-3841

Modeling snow cover elements at Crater Lake, Oregon. Hamilton, W.L., [1980, 112p., eng] 35-3974

Nearshore ice characteristics in the eastern Bering Sea. Stringer, W..., [1980, p.167-187, eng] 35-4139

Operational applications of satellite snow cover observations. Rango, A., [1980, p.1066-1073, eng] 35-4255

Research projects

Prudhoe Bay Project; Final environmental impact statement. [1980, 416p., eng] 35-34

Glaciological research at Trent University and a bibliography, 1968-1980. Adams, W.P., [1980, p.178-193, eng] 35-50

Recent research of snow and ice in the world; Pt.1. Zhang, X., [1980, p.54-58, chi] 35-90

Institute of Low Temperature Science, Hokkaido Univeristy. Wang, C., et al, [1980, p.62 + figs., chi] 35-93

Polar Research Board report 1979. [1980, 39p., eng] 35-112

Advice of the Institute of Hydrosphere Science, Nagoya University, Japan. Gu, G., [1980, p.61-62, chi] 35-129

Overview on the seasonal sea ice zone. Weeks, W.F., et al, [1979, p.320-337, eng] 35-178

Research priorities for Arctic ships. Voelker, R.P., [1979, p.571-581, eng] 35-181

United States antarctic research for 1980 report to SCAR. [1980, 90p., eng] 35-183

Focus on polar research. Washburn, A.L., [1980, p.643-652, eng] 35-250

Final environmental impact statement, Prudhoe Bay Oil Field Waterflood Project [1980, 3 Vols., eng] 35-798

Projects for transportation technology in Canada, 1979 [1980, 83p., eng] 35-840

Outline of glaciological research in the USSR. Kusunoki, K., [1980, p.71-73, jap] 35-1067

Yukon section of the Alaska highway gas pipeline [1979, 126p., eng] 35-1120

Working session of the Section of glaciology in February 1980. Glazovskii, A.F., [1980, p.13-20, rus] 35-1220

Resolutions of the Working Session of the Section of Glaciology, Feb. 18-20, 1980 [1980, p.20-22, rus] 35-1221

U.S. research options in polar regions. Nagler, R.G., et al, [1979, 94 leaves, eng] 35-1309

1980-81 ANARE report. [1980, 62p., eng] 35-1400

Research projects of the *Tareia* station in Taymyr tundra. Tomilin, B.A., [1980, p.3-25., rus] 35-1402

Biomass of tundra swamps. Boch, M.S., [1980, p.47-58, rus] 35-1404

IBP PT Tundra Biome Project. Objectives, planning, site. Sonesson, M., et al, [1980, p.7-25, eng] 35-1471

Research annual report 1979-80, University of Alaska. [1981, 129p., eng] 35-1774

Waging war against the cold is the job of a unique Army lab. Wolkomir, R., [1981, p.103-111, eng] 35-1815

Environmental impact of WW II debris cleanup in southern Alaska. [1979, 272p. + 1 Vol. of appends., eng] 35-1816

At the poles in Antarctica. Tolstikov, E.I., [1980, 160p., rus] 35-1864

Permafrost engineering research on Spitsbergen. Gregersen, O., [1980, p.3-6, eng] 35-1988

Student science training program, Juneau icefield, Alaska, 1979. Miller, M.M., et al, [1979, 15p., eng] 35-2016

Undergraduate research participation program, Juneau icefield, Alaska, 1979. Williams, G.A., et al, [1980, 34p., eng] 35-2017

Environmental assessment of the Alaskan continental shelf, TDP, FY81. Weller, G., coord, [1980, 166p., eng] 35-2018

Environmental assessment of the Alaskan continental shelf, TDP, FY81. Calder, J.A., coord, [1980, 209p., eng] 35-2019

Environmental assessment of the Alaskan continental shelf, TDP, FY81. Hameedi, J., coord, [1980, 130p., eng] 35-2020

Glaciological research at the South Pole, Dome C and in the McMurdo Sound area in 1974-1976. Barkov, N.I., [1980, p.107-113, rus] 35-2043

Report of 15th SCAR and 9th IAGP meetings. Aver'ianov, V.G., et al, [1980, p.128-132, rus] 35-2047

Water and sanitation policy in the N.W.T., Canada. Christensen, V., [1980, p.9-18, eng] 35-2108

Ice research program of the Great Lakes Environmental Research Laboratory. Quinn, F.H., [1980, p.1-4, eng] 35-2157

Snow and avalanche research in France. Brugnot, G., [1980, p.73, eng] 35-2162

Glacioclimatological research topics in Antarctica. Aver'ianov, V.G., [1980, p.85-89, rus] 35-2182

Annual report, 1980. [1980, 32p., eng] 35-2241

Two decades of antarctic research by East Germany. [1980, 196p., ger] 35-2428

Earth science antarctic research by GDR scientists. Peschel, H., [1980, p.14-19, ger] 35-2429

Research icebreaker *Otto Schmidt*. Oliger, B.A., et al, [1980, p.3-6, rus] 35-2634

German periglacial research in arctic and subarctic regions. Karte, J., [1979, p.97-115, ger] 35-2640

Chinese research on glaciers and permafrost in the last 30 years. Shih, Y., et al, [1979, p.1-6, chi] 35-2895

Research work on permafrost and engineering in the last 30 yrs., China. Chen, S., et al, [1979, p.7-12, chi] 35-2896

Recent research of snow and ice in the World (3). Zhang, X., [1980, p.61-65, chi] 35-2922

Estuarine perspectives. Kennedy, V.S., ed, [1980, 533p., eng] 35-3078

Oil spill contingency plans; present status and future potential. Hunt, P., [1980, p.53-65, eng] 35-3093

Water resources and hydroelectric projects, Alaska river basins. [1981, 32p. + map, eng] 35-3140

Annual report 1979-80, Univ. of Alaska, Geophysical Institute. [1980, 208p., eng] 35-3430

Bering Sea ice project. [1980, 34p., eng] 35-3675

Ice and oil research at Hydraulics Research Division, NWRI. Tsang, G., [1980, p.33-35, eng] 35-3872

U.S. Coast Guard Arctic oil spill research program. Tebeau, P.A., et al, [1980, p.111-128, eng] 35-3880

Antarctic research programme of the Federal Republic of Germany. [1981, 169p., eng] 35-3917

Oceanography of Canadian waters. LeBlond, P.H., comp, [1978, p.207-233, eng] 35-3927

Glacier studies. Ommanney, C.S.L., comp, [1978, p.235-245, eng] 35-3928

Hydrological research in Canada. Brown, I.C., comp, [1978, p.247-251, eng] 35-3929

Water resources development. [1981, 52p., eng] 35-4010

Observations and research on Batura Glacier, Karakoram Mts. [1980, 271p. + figs., chi] 35-4025

Studies of Batura Glacier, Karakoram Mts. Shi, Y., [1980, p.1-7, chi] 35-4026

U.S. report to SCAR, 1981. [1981, 79p., eng] 35-4044

Ecological research report; Volume 1, establishing a system for Alaska. Underwood, L.S., et al, [1979, 36p. + map, eng] 35-4163

Progress of Japanese glaciological research in Antarctica. Kusunoki, K., [1981, p.55-61, eng] 35-4207

U.S. Geological Survey in Alaska, 1981 programs. Reed, K.M., ed, [1981, 111p., eng] 35-4225

Glaciological research in eastern Queen Maud Land. Higashi, A., [1981, p.129-130, jap] 35-4273

Reservoirs

Environmental impact of reservoirs in the North. Kudoiarov, L.I., [1980, p.36-38, rus] 35-310

Ice conditions at the Krasnoyarsk reservoir. Kosmakov, I.V., [1980, p.45-50, rus] 35-453

Water balance of the Bratsk reservoir. Geta, R.I., [1978, 134p., rus] 35-811

Predicting cap and base rock heat loss in thermal reservoirs. Vinsome, P.K.W., et al, [1980, p.87-90, eng] 35-1070

Heat transfer in liquefied gas reservoirs. Bronfenbrener, L.E., [1980, p.25-26, rus] 35-1306

Snowmelt modeling of upper Missouri River watersheds with SSARR. Cundy, T.W., et al, [1980, p.72-82, eng] 35-2229

Importance of water supply forecasts in power planning. Gordon, W.R., et al, [1980, p.83-87, eng] 35-2230

Thermal effluents in Boundary Reservoir during winter. Kennedy, B.C., [1978, p.97-110, eng] 35-2237

Soil microflora and artificial lakes. Nikitina, Z.I., et al, [1979, p.63-75, rus] 35-2324

Improving the reliability of reservoirs, gas tanks and their equipment. Verevkin, S.I., et al, [1980, 288p., rus] 35-2440

Operating the Androscoggin river/reservoir system. Grove, W.M., [1980, p.101-105, eng] 35-3151

Installation of gas reservoirs in freezing weather. Leonov, O.N., et al, [1981, p.47-48, rus] 35-4233

Residential buildings

Modular construction in Siberia. Grech, V.I., [1980, p.32-33, rus] 35-1

Modular construction in Permafrost areas. L'vov, B.L., [1980, p.5-9, rus] 35-445

Modular construction in West Siberia. Granaturova, L.P., et al, [1980, p.5-7, rus] 35-448

External walls of buildings erected on permafrost. Zlatinskaia, T.V., [1980, p.20-22, rus] 35-460

Building construction in the North. Sergeev, A.F., et al, [1980, p.7-10, rus] 35-461

Rubber seal elasticity in freezing weather. Mar'inskii, M.M., et al, [1980, p.15, rus] 35-462

Calculating optimal thermal insulation levels for buildings. Boguslavskii, L.D., et al, [1979, p.15-16, rus] 35-464

Residential buildings in Arctic regions. Samukhnin, P.N., [1979, p.26-27, rus] 35-465

Modern design of modular buildings. Gel'man, E.A., [1980, p.61-66, rus] 35-604

Exhibition: Foundation construction in the USSR. Smirnov, L.V., [1980, p.42-45, rus] 35-608

Wooden panel houses for cold regions. Syrtsov, G., [1980, p.46-49, rus] 35-928

Construction of pile foundations on permafrost. Fedorovich, D., et al, [1980, p.42-45, rus] 35-929

Modular construction in cold regions except permafrost areas. Boev, A.A., et al, [1980, p.31-32, rus] 35-1308

Improving watertightness of large panel buildings. Omel'chenko, A.A., et al, [1980, 95p., rus] 35-1575

Heat and ventilation for houses in north Russia. Liber, I.S., [1980, 191p., rus] 35-1576

Design of residential and public buildings for the first climatic zone. Belova, G.M., ed, [1973, 75p., rus] 35-1596

Workers' houses in swampy permafrost areas. Gudz', A.G., [1980, p.6-7, rus] 35-1645

Modern foundation design for buildings and underground structures. [1980, p.7-9, rus] 35-1647

Work-camp living complexes for the North. Zimin, L.I., et al, [1978, 152p., rus] 35-1699

Urban planning in Siberia. Pertsik, E.N., [1980, 286p., rus] 35-1898

Air-to-air heat recovery devices for small buildings. Interim report. Zarling, J.P., [1981, 19p., eng] 35-2014

Precast lightweight concrete for cold regions. Vasil'ev, N.F., et al, [1981, p.20-23, rus] 35-2080

Panel joint structures for cold regions. Cheremisov, K.M., et al, [1980, p.68-70, rus] 35-2102

Calculating thermal regime of basements containing technical equipment (discussion). Shapovalov, I.S., et al, [1980, p.19-21, rus] 35-2625

Urban construction in Siberia. Ogly, B.I., [1980, 272p. (Pertinent p.174-269), rus] 35-2685

Transportation and residential houses for the North. [1980, p.26-27, rus] 35-3012

Northern dwellings. Putintsev, E., [1980, p.38-46, rus] 35-3230

Economic effectiveness of optimizing the amount of thermal insulation of buildings. Boguslavskii, L.D., [1981, 102p., rus] 35-3965

Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, F.V., ed, [1979, 133p., rus] 35-4055

Thermal and physical properties of cellular concrete enclosures. Tachkova, N.A., et al, [1979, p.72-76, rus] 35-4058

Pile foundations on permafrost. Kopysov, N.S., et al, [1978, p.101-106, rus] 35-4115

Construction of residential buildings in West Siberia. Seredin, V.G., et al, [1981, p.31-32, rus] 35-4240

Economic development of the North. Gromov, N.N., et al, [1981, p.25-30, rus] 35-4287

Resins

Deep stabilization of soils with synthetic resins. Bleskina, N.A., et al, [1980, 147p., rus] 35-875

Resins *(cont.)*

Epoxy-foam thermal insulation and waterproofing of structures in areas of severe climatic conditions. Sakharov, V.I., ¿1980, 143p., rus¿ **35-1135**

Bases and foundations. ¿1976, 96p., rus¿ **35-1715**

Resins and non-portland cements for construction in the cold. Johnson, R., ¿1980, 19p., eng¿ **35-1725**

Frost resistant road toppings. Khabibullina, E.N., et al, ¿1980, p.14-15, rus¿ **35-3006**

Revegetation

Revegetation of burned-out areas in tundra. Galaktionova, T.F., et al, ¿1980, p.66-72, rus¿ **35-285**

Forest fire effects on soil formation in permafrost areas. Popova, E.P., ¿1980, p.40-52, rus¿ **35-298**

Proceedings of the 4th High Altitude Revegetation Workshop. ¿1980, 258p., eng¿ **35-576**

Snow, wind and vegetation in the Front Range, Colorado. Marr, J.W., ¿1980, p.1-15, eng¿ **35-577**

Revegetation of disturbed sites along the Yukon River. Johnson, A.W., et al, ¿1980, p.16-29, eng¿ **35-578**

Edaphic factors and their influence in patterns of tundra revegetation. Everett, K.R., ¿1980, p.30-37, eng¿ **35-579**

Vegetation of old oil wells on the Alaskan North Slope. Komárková, V., et al, ¿1980, p.38-64, eng¿ **35-580**

Physiology and life cycles of arctic-alpine plants. Bliss, L.C., ¿1980, p.65-78, eng¿ **35-581**

Snowpack and mine drainage in a western surface mine. Farmer, E.E., et al, ¿1980, p.79-100, eng¿ **35-582**

Reclamation of acid-producing spoils on a western surface mine. Richardson, B.Z., ¿1980, p.101-112, eng¿ **35-583**

Revegetation-restoration for the Trans-Alaska pipeline system. Hubbard, G.E., ¿1980, p.113-125, eng¿ **35-584**

Assessment of revegetation techniques for alpine disturbances. Brown, R.W., et al, ¿1980, p.126-146, eng¿ **35-585**

Reclamation process as affected by the surface mining regulations. Brown, J.A., ¿1980, p.148-152, eng¿ **35-586**

Plant materials development at the Meeker Environmental Plant Center. Hassell, W.G., ¿1980, p.153-172, eng¿ **35-587**

Improved plant traits for high altitude disturbances. Johnson, D.A., ¿1980, p.173-184, eng¿ **35-588**

Revegetation research at the Climax, Colorado molybdenum mine. Guillaume, M., ¿1980, p.185-203, eng¿ **35-589**

Problems in testing seeds of revegetation species. Larsen, A., ¿1980, p.204-206, eng¿ **35-590**

Geological processes in the high alpine environment. Rold, J.W., ¿1980, p.207-209, eng¿ **35-591**

Alpine soil factors in disturbance and revegetation. Burns, S.F., ¿1980, p.210-227, eng¿ **35-592**

Forestry resources in the Baykal-Amur Railroad region. Il'ina, L.N., ¿1980, 12p., eng¿ **35-978**

Studies of forest soils and vegetation in the northeastern USSR. Shcherbakov, I.P., ed, ¿1971, 176p., rus¿ **35-1390**

Revegetation of felled areas in taiga. Mikhaleva, V.M., ¿1971, p.34-51, rus¿ **35-1392**

Revegetation of felled and burned areas in taiga. Chugunova, R.V., ¿1971, p.76-82, rus¿ **35-1393**

Revegetation of cryogenic soils damaged by industrial activities. Moskalenko, N.G., et al, ¿1980, p.144-164, rus¿ **35-1454**

Abstracts of papers from the 31st Alaska Science Conference, 1980. ¿1980, 148p., eng¿ **35-1469**

Natural revegetation of dredge tailings at Fox, Alaska. Holmes, K.W., ¿1981, p.26-29, eng¿ **35-1693**

Alaskan-developed grass varieties coming into use. Mitchell, W.W., ¿1981, p.56-58, eng¿ **35-1695**

Environmental engineering, Yukon River-Prudhoe Bay Haul Road. Brown, J., ed, ¿1980, 187p., eng¿ **35-1768**

Revegetation along roads and pipelines in Alaska. Johnson, L.A., ¿1980, p.129-150, eng¿ **35-1772**

Afforestation processes and their control in the European North. L'vov, P.N., et al, ¿1980, 113p., rus¿ **35-1897**

Revegetation of burned areas in North Ural taiga. Kirsanov, V.A., ¿1976, p.104-113, rus¿ **35-1919**

Surface stability in the presence of industrial activities in permafrost areas. Grave, N.A., ed, ¿1980, 142p., rus¿ **35-2184**

Thermal balance and environmental protection of northern landscapes. Pavlov, A.V., ¿1980, p.13-31, rus¿ **35-2186**

Radiation regime of disturbed tundra surfaces. Skriabin, P.N., ¿1980, p.32-36, rus¿ **35-2187**

Remote sensing of revegetation of burned tundra, Kokolik River, Alaska. Hall, D.K., et al, ¿1980, p.263-272, eng¿ **35-2462**

Revegetation at two construction sites in New Hampshire and Alaska. Palazzo, A.J., et al, ¿1980, 21p., eng¿ **35-2586**

Proceedings of a scientific conference of the Institute of Biology. Zaboeva, I.V., ed, ¿1971, 124p., rus¿ **35-2604**

Biomass of green-moss-type taiga. Nadutkin, V.D., et al, ¿1971, p.50-51, rus¿ **35-2608**

Revegetation of felled areas in northern forests. Ronkonen, N.I., ¿1970, p.79-81, rus¿ **35-2616**

Vegetation and ice-wedge polygons through the thaw-lake cycle in N. Alaska. Billings, W.D., et al, ¿1980, p.413-432, eng¿ **35-3197**

Bioengineering for land reclamation and conservation. Schiechtl, H., ¿1980, 404p., eng¿ **35-3595**

Enrichment of perennially frozen ore and placer deposits. Emel'ianov, V.I., ed, ¿1977, p.175, rus¿ **35-3805**

Land reclamation in mining areas of the North. Sulin, G.A., et al, ¿1977, p.111-125, rus¿ **35-3808**

Forest regeneration and microfungi in soils, Schefferville, Canada. Lucarotti, C.J., ¿1981, p.7-26, eng¿ **35-3976**

Reforestation of the Valday taiga. Tishkov, A.A., ¿1979, p.30-69, rus¿ **35-4119**

Natural revegetation in Valday spruce forests. Kazanskaia, N.S., et al, ¿1979, p.158-175, rus¿ **35-4122**

Heat and water balance variations in taiga due to lumbering. Fedorov, S.F., et al, ¿1979, p.185-193, rus¿ **35-4124**

Growth of *Carex aquatilis* along latitudinal and local gradients. Chapin, F.S., III, et al, ¿1981, p.1000-1009, eng¿ **35-4316**

Rheology

Foundation construction on clayey grounds. Ikonin, S.V., et al, ¿1980, p.42-47, rus¿ **35-227**

Deformation of loess beneath foundations. Tugaenko, IU.F., et al, ¿1980, p.85-97, rus¿ **35-231**

Industrial construction on frozen peat. Vialov, S.S., et al, ¿1980, 144p., rus¿ **35-280**

Acoustic method of studying ice rheology. Nikitin, V.A., ¿1980, p.30-36, rus¿ **35-366**

International geological congress, 26th, 1979. Hydrogeology, engineering geology and construction materials. Reports of soviet geologists. Kulikov, G.V., ed, ¿1980, 247p., rus¿ **35-1349**

Rheology of clay soils. Kul'chitskii, L.I., ¿1980, p.175-188, rus¿ **35-1352**

Determining ice viscosity under field conditions. Kozitskii, I.E., ¿1980, p.107-109, rus¿ **35-1595**

Incremental formulation of constitutive equations for deposited snow. Desrues, J., et al, ¿1980, p.289-307, eng¿ **35-1823**

Mechanical properties of snow: treatment as a Burgers body. Navarre, J.P., et al, ¿1977, 31p., fre¿ **35-1885**

Mechanical properties of snow: experimental study by triaxial compression. Navarre, J.P., et al, ¿1979, 25p., fre¿ **35-1886**

Mechanical properties of snow: incremental rheological regularities. Navarre, J.P., et al, ¿1979, 28p., fre¿ **35-1887**

Mechanical properties of snow: incremental rheological regularities, Pt.2. Navarre, J.P., et al, ¿1979, 21p., fre¿ **35-1888**

Acoustic emission response of snow. St. Lawrence, W.F., ¿1980, p.209-216, eng¿ **35-2363**

Rock glacier formation in Colorado. Vick, S.G., ¿1981, p.75-84, eng¿ **35-2459**

Rheological behavior of bituminous cement in a balance rheometer. Mayer, H.G., ¿1980, p.134-139, ger¿ **35-2495**

Viscoelastic constitutive laws for ice. Morland, L.W., et al, ¿1980, 56p., eng¿ **35-3076**

Calculating the strength and creep of artificially frozen grounds. Vialov, S.S., et al, ¿1981, 199p., rus¿ **35-3932**

River basins

Periglacial phenomena in the Chaglinka River valley. Meshchikhin, D.A., ¿1979, p.131-140, rus¿ **35-195**

Heat and water balance in mountain drainage basins. Novorotskii, P.V., ¿1980, p.224-229, rus¿ **35-342**

Forecasting landscape development in cold regions. Kozhevnikov, IU.P., ¿1980, p.243-248, rus¿ **35-343**

Glaciology of mountain regions (snow cover, avalanches and glaciers). Suslov, V.F., ed, ¿1980, 144p., rus¿ **35-709**

Factors determining snowfall intensity and avalanche formation from new snow in the Zailiyskiy Alatau mountains. Kondrashov, I.V., ¿1980, p.51-58, rus¿ **35-715**

Forest-strip method of reclaiming eroded soils. Budaev, Kh.R., ed, ¿1976, 159p., rus¿ **35-799**

Land reclamation in Transbaikal. Budaev, Kh.R., ¿1976, p.10-17, rus¿ **35-800**

Resistance of taiga soils to erosion. Babintseva, R.M., et al, ¿1976, p.49-54, rus¿ **35-802**

Water balance of the Bratsk reservoir. Geta, R.I., ¿1978, 134p., rus¿ **35-811**

Problems in meteorology and hydrology of Siberia. ¿1976, 218p., rus¿ **35-1189**

Snow accumulation in the Baykal Lake Basin. Cherkasov, A.E., et al, ¿1976, p.145-148, rus¿ **35-1192**

Hydrologic studies and land reclamation in Siberia. Morozov, G.A., ed, ¿1977, 86p., rus¿ **35-1289**

Hydrologic regime of lakes and rivers in Central Siberia. Ershova, L.M., ¿1977, p.3-11, rus¿ **35-1290**

Ice conditions of the Yenisey River. Ershova, L.M., et al, ¿1977, p.11-14, rus¿ **35-1291**

Hydrothermal melioration of northern swamps. Starkov, V.M., ¿1977, p.68-80, rus¿ **35-1294**

Changes induced by stream flow diversion in Siberia. Bachurin, G.V., ¿1980, p.52-56, rus¿ **35-1334**

Redistribution of river water resources in the USSR. Sokolov, A.A., ed, ¿1980, 164p., rus¿ **35-1427**

Landscape types in the Muya River Basin. Nefed'eva, L.G., ¿1980, p.125-139, rus¿ **35-1631**

Biochemistry of cryogenic taiga soils. Nechaeva, E.G., et al, ¿1980, p.152-162, rus¿ **35-1632**

Forecasting ice conditions on rivers. Kalinin, G.S., ¿1975, p.112-117, rus¿ **35-1789**

Water balance of small river basins in permafrost areas. Vasilenko, N.G., ¿1980, p.11-32, rus¿ **35-1792**

Calculating maximum spring flood runoff. Goroshkova, N.I., ¿1980, p.33-43, rus¿ **35-1793**

Calculating river discharge in permafrost areas. Vladimirov, A.M., et al, ¿1980, p.44-53, rus¿ **35-1794**

Calculating small river runoff in permafrost areas. Liubimov, G.A., ¿1980, p.54-63, rus¿ **35-1795**

Glacial mudflows in river basins. Laptev, V.I., ¿1980, p.55-58, rus¿ **35-1807**

Hydrology. Grushevskii, M.S., ed, ¿1980, 177p., rus¿ **35-1865**

Calculating ultimate intensity of spring flooding in permafrost areas. Goroshkova, N.I., ¿1980, p.10-17, rus¿ **35-1866**

Calculating development of naleds. Popova, I.L., ¿1980, p.61-66, rus¿ **35-1870**

Topographic map of the Lake Saysar Basin in Yakutsk. Solov'ev, P.A., ¿1980, p.127-134, rus¿ **35-2194**

Natural and regulated alpine rivers– resemblances and differences in morphology, their influence on river fauna. Jaeggi, M., ¿1980, p.85-90, ger¿ **35-2246**

Radiation regime of southern taiga. Grigor'ev, G.N., ¿1980, p.49-109, rus¿ **35-2488**

Thermal regime of taiga soils. Linevich, N.L., ¿1980, p.183-195, rus¿ **35-2491**

Wind velocities in the Asiatic USSR. Durnev, V.F., ¿1980, p.196-210, rus¿ **35-2492**

Hydroelectric power plants in the Baykal Amur railroad area. Sheinman, L.B., ¿1980, 89p., rus¿ **35-2688**

Hydrology. Grushevskii, M.S., ed, ¿1978, 224p., rus¿ **35-2699**

Forecasting glacial runoff of mountain rivers. Abal'ian, T.S., et al, ¿1980, p.42-49, 124-129, rus¿ **35-2815**

Modeling formation of runoff in a basin with widespread glaciation. Borovikova, L.N., et al, ¿1980, p.49-55, 130-134, rus¿ **35-2816**

Modeling glacial runoff in river basins. Christensen, M., et al, ¿1980, p.81-86, 154-157, rus¿ **35-2821**

Glaciation conditions of the Bol'shaya Khadata River Basin. Gokhman, V.V., ¿1980, p.194-200, rus¿ **35-2831**

Formula for calculating snowmelt runoff. Boiarintsev, E.L., et al, ¿1980, p.3-11, rus¿ **35-2875**

Role of naleds in water balance of river basins. Lebedev, V.M., et al, ¿1980, p.86-93, rus¿ **35-2879**

Studying snow cover from satellite photographs. Dzhordzhio, M.V., et al, ¿1980, p.30-34, rus¿ **35-2971**

Forecasting mountain river runoff from satellite data. Vostriakova, N.V., ¿1980, p.52-58, rus¿ **35-2974**

Problems of utilization and preservation of natural resources in Siberia. Saks, V.N., ed, ¿1980, 136p., rus¿ **35-3042**

Studying snow cover from satellite photographs. Vostriakova, N.V., ¿1980, p.26-30, rus¿ **35-3043**

Studying global factors of climato-morphogenetic phenomena of the Far East. Nikol'skaia, V.V., ed, ¿1979, 163p., rus¿ **35-3045**

All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers. Treshnikov, A.F., ed, ¿1980, 147p., rus¿ **35-3103**

Flow diversion effect on winter navigation river. Kovrigin, I.M., et al, ¿1980, p.142-143, rus¿ **35-3135**

Water resources and hydroelectric projects, Alaska river basins. ¿1981, 32p. + map, eng¿ **35-3140**

Climate and waters of Siberia. Bachurin, G.V., ed, ¿1980, 232p., rus¿ **35-3413**

Diurnal air temperature variations in northern river basins. Sorokina, L.P., ¿1980, p.51-59, rus¿ **35-3416**

Water resources of small river basins. Antipov, A.N., ¿1980, p.175-184, rus¿ **35-3424**

Water resources of Tiumen'. Trofimets, L.N., ¿1980, p.185-190, rus¿ **35-3425**

Snow cover distribution in river basins. Berkin, N.S., et al, ¿1980, p.200-207, rus¿ **35-3427**

Surface runoff in river basins of permafrost areas. Berkin, N.S., et al, ¿1980, p.97-102, rus¿ **35-3462**

Space survey data in flood forecasts. Vostriakova, N.V., ¿1980, p.20-26, rus¿ **35-3546**

Glaciology of mountainous regions (snow cover, avalanches). Kanaev, L.A., ed, ¿1980, 144p., rus¿ **35-3569**

Avalanches in the Inyl'chek River basin. Maksimov, N.V., ¿1980, p.121-126, rus¿ **35-3583**

Avalanches in the Takhenistskali River basin. Abdushelishvili, K.L., et al, ¿1980, p.75-82, rus¿ **35-3801**

Dating morainal deposits in Arctic regions. Gol'dfarb, IU.I., ¿1976, p.100-106, rus¿ **35-3834**

Hydrology of permafrost in the Polar Ural Mountains. Oberman, N.G., ¿1980, p.5-13, rus¿ **35-3909**

Drainage in the faulted Aldan Plateau zone. Lygin, A.M., ¿1980, p.22-30, rus¿ **35-3991**

Chart of ground water movement in East Siberia. Piguzova, V.M., ¿1980, p.135-138, rus¿ **35-4003**

Cryogenic structure of the Amur River basin alluvium. Kostiaev, A.G., et al, ¿1981, p.126-153, rus¿ **35-4077**

Avalanche formation in the Katun' River basin. Chubenko, A.G., [1981, p.77-86, rus] 35-4303
Alpine tundras of the Bol'shoy Annachag Range (upper course of the Kolyma River). Berman, D.I., ed. [1980, 178p., rus] 35-4332
Alpine tundras in the Kolyma-Indigirka area. Alfimov, A.V., et al. [1980, p.7-51, rus] 35-4333

River crossings

Construction of underwater pipelines from ice cover. Vil'danov, R.T., [1980, p.34-35, rus] 35-315
Pipeline construction on ice with subsequent sinking. Kamyshev, M.A., et al. [1980, p.36-37, rus] 35-316
River crossing in freezing weather. Kachanov, P., [1980, p.31-33, rus] 35-339
Preventing water pollution in permafrost areas. Kukushkin, B.M., et al. [1980, p.21-22, rus] 35-504
Guyless prestressed crossings. Kolomeitsev, V.T., et al. [1980, p.37-38, rus] 35-506
Preventing naled formation near hydraulic structures. Merkulov, D.M., [1981, p.38-39, rus] 35-2082
Temporary bridges in permafrost areas. Rasskazov, I.D., et al. [1981, p.6-8, rus] 35-2843
Forecasting ice breakup on rivers. Lobovikova, Z.P., [1980, p.29-34, rus] 35-2876
Cost of road construction in permafrost areas. Podymalova, I.P., [1980, p.7-8, rus] 35-3008
Construction of underwater pipelines in West Siberia. Basharat'ian, P.P., et al. [1981, p.32-33, rus] 35-4241
Using bridges as river crossings of power lines. Shchepetkin, A.N., et al. [1981, p.64-66, rus] 35-4285

River diversion

All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers. Treshnikov, A.F., ed. [1980, 147p., rus] 35-3103
Ice conditions in Arctic river estuaries. Ivanov, V.V., [1980, p.8-11, rus] 35-3105
Water runoff redistribution in the European USSR. Berezner, A.S., et al. [1980, p.12-16, rus] 35-3106
Numerical modeling of river diversion problems. Kotlekhov, E.P., [1980, p.17-20, rus] 35-3107
Calculating allowable partial flow diversion from northern rivers. Fashchevskii, B.V., [1980, p.21-24, rus] 35-3108
River diversion effect on estuarine hydrologic conditions. Minin, V.M., [1980, p.25-27, rus] 35-3109
Studying separation of Onega Bay from the White Sea. Marfanovskii, F.G., [1980, p.28-31, rus] 35-3110
Evaluating hydrologic consequences of river diversion. Kashinov, N.S., [1980, p.34-36, rus] 35-3111
Ice conditions of the Pechora Sea after river diversion. Potanin, V.A., et al. [1980, p.37-40, rus] 35-3112
River diversion effect on hydrochemical conditions of the bay waters. Perliuk, M.F., [1980, p.41-44, rus] 35-3113
Hydrology of northern river estuaries after flow diversion. Ivanova, V.A., et al. [1980, p.67-70, rus] 35-3115
Thermal regime of Arctic river estuaries after flow diversion. Kurzhunov, A.N., et al. [1980, p.78-81, rus] 35-3117
Forecasting river diversion effect on thermal regime of the bay. Spitsyn, I.P., et al. [1980, p.84-86, rus] 35-3118
River diversion effect on hydrochemistry of estuarine areas. Rusanov, V.P., [1980, p.90-93, rus] 35-3120
River diversion effect on subarctic sea water ecosystems. Anstislavskii, V.Z., [1980, p.94-96, rus] 35-3121
River diversion effect on local subarctic climatic conditions. Zav'ialova, I.N., et al. [1980, p.97-100, rus] 35-3122
River diversion effect on meteorological conditions of Arctic landscapes. Kurbatova, A.V., et al. [1980, p.104-106, rus] 35-3124
Soil temperature variations due to river diversion. Seriakova, I.P., et al. [1980, p.107-109, rus] 35-3125
Intensification of ground freezing processes due to river diversion. Shpolianskaia, N.A., [1980, p.118-119, rus] 35-3128
Applying system analysis to modeling geomorphologic consequences of river diversion. Mikhankov, II.M., et al. [1980, p.120-123, rus] 35-3129
River diversion effect on ice conditions of Arctic seas. Nikiforov, E.G., et al. [1980, p.124-126, rus] 35-3130
Evaluating variations in salinity of the surface layer of the Kara Sea due to river diversion and its effect on ice conditions. Appel', I.I., et al. [1980, p.127-130, rus] 35-3131
Moisture cycles in the lower course of the Ob' River and the Kara Sea and their possible variations due to interzonal redistribution of runoff. Burova, I.P., [1980, p.131-135, rus] 35-3132

River flow

River ice in hydrotechnical engineering : a review of selected topics. Gerard, R., [1979, p.1-29, eng] 35-404
General introduction (to Resistance to flow in ice covered rivers). Davar, K.S., [1979, p.32-51, eng] 35-405
Review of flow resistance of consolidated smooth and rough ice covers. Pratte, B.D., [1979, p.52-92, eng] 35-406
Flow resistance of fragmented ice covers (ice jams). Beltaos, S., [1979, p.93-126, eng] 35-407
Frazil ice and anchor ice and their resistance effect in rivers. Tsang, G., [1979, p.127-138, eng] 35-408
Aufeis (overflow ice) in rivers. Grey, B.J., et al. [1979, p.139-163, eng] 35-409
Influence of channel cross-section on the regime of streams in winter. Chee, S.P., et al. [1979, p.164-174, eng] 35-410
Bottomfast ice and hydrology in northern rivers. Forbes, D.L., [1979, p.175-184, eng] 35-411
Probable maximum flood for the Peace River at site C. Fawkes, P.E., [1979, p.239-250, eng] 35-417
Wintertime flow distribution in river channels. Shen, H.T., et al. [1980, p.805-817, eng] 35-705
Linear distributed model for a partly snowbound catchment. Singh, R., et al. [1979, p.167-177, eng] 35-1125
Consequences of Arctic river flow control. Krenke, A.N., [1980, p.287-292, rus] 35-1261
Climatic changes due to diverting river courses. Drozdov, O.A., et al. [1980, p.133-149, rus] 35-1432
Abstracts of papers from the 31st Alaska Science Conference, 1980. [1980, 148p., eng] 35-1469
Short-lived damming of ice edge stream, Ellesmere Island. Ballantyne, C.K., et al. [1980, p.487-491, eng] 35-1510
Natural and regulated alpine rivers : resemblances and differences in morphology, their influence on river fauna. Jaeggi, M., [1980, p.85-90, ger] 35-2246
Forecasting landscape changes from river flow control. Popov, B.A., [1979, p.89-94, rus] 35-2326
Partial redirection of Siberian rivers. Neishtadt, M.I., et al. [1979, p.114-120, rus] 35-2328
River flow redirection and environmental protection. Mikhailov, N.I., et al. [1979, p.121-127, rus] 35-2329
Conveyance capacity with ice cover for the Nashwaak River, N.B. Burrell, B., et al. [1981, p.34-56, eng] 35-2542
Hydraulic resistance of the ice cover in the St. Lawrence River. Witherspoon, D.F., [1981, p.79-93, eng] 35-2544
Breakup process and ice jams on the Athabasca River. Andres, D.D., [1981, p.143-161, eng] 35-2548
Freezeup ice jams on the Peace River near Taylor. Keenhan, T., et al. [1981, p.162-181, eng] 35-2549
Hydraulic resistance generated by frazil ice formation. Gosink, J.P., et al. [1981, p.192-194, eng] 35-2551
Hanging dams in the Manitoba Hydro System. Hopper, H.R., et al. [1981, p.195-208, eng] 35-2552
Hydraulic and ice conditions in relation to winter and spring floods. Tremblay, P.R., et al. [1981, p.209-226, eng] 35-2553
Harnessing frazil ice. Perham, R.E., [1981, p.227-237, eng] 35-2554
Morphology of the Onyx River system, McMurdo Sound region, Antarctica. Shaw, J., et al. [1980, p.223-238, eng] 35-2953
Ecological roles of river icings in the Tsichu River Valley, Northwest Territories, Canada. Gill, D., et al. [1981, p.119-125, eng] 35-3025
Operating the Androscoggin river reservoir system. Grove, W.M., [1980, p.101-105, eng] 35-3151
Characteristics of the Great Whale River plume. Ingram, R.G., [1981, p.2017-2023, eng] 35-3274
Jokulhlaups on Snow River in southcentral Alaska. Chapman, D.L., [1981, 48p., eng] 35-3680
Bank stabilization, Bethel, Alaska. [1981, 63p + appends., eng] 35-3812

River ice

Ice regime of the Indian River, Ontario, during the freezeup. Price, J., [1980, p.110-120, eng] 35-44
Break-up dates for the Yukon River, Pt.2, Alakanuk to Tanana, 1883-1978. Stephens, C.A., et al. [1979, c50 leaves, eng] 35-134
Methodology of forecasting natural phenomena in Siberia. Druzhinin, I.P., ed. [1980, 144p., rus] 35-148
Structure and composition of natural ice. Savel'ev, B.A., [1980, 280p., rus] 35-149
Laws and mechanisms of apparent brittle fracture of river and lake ice. Carter, D., et al. [1971, 393p., fre] 35-330
Plastic deformation of fresh-water ice. Bogorodskii, V.V., et al. [1980, p.43-50, rus] 35-368
River ice in hydrotechnical engineering : a review of selected topics. Gerard, R., [1979, p.1-29, eng] 35-404
General introduction (to Resistance to flow in ice covered rivers). Davar, K.S., [1979, p.32-51, eng] 35-405
Review of flow resistance of consolidated smooth and rough ice covers. Pratte, B.D., [1979, p.52-92, eng] 35-406
Flow resistance of fragmented ice covers (ice jams). Beltaos, S., [1979, p.93-126, eng] 35-407
Frazil ice and anchor ice and their resistance effect in rivers. Tsang, G., [1979, p.127-138, eng] 35-408
Aufeis (overflow ice) in rivers. Grey, B.J., et al. [1979, p.139-163, eng] 35-409
Influence of channel cross-section on the regime of streams in winter. Chee, S.P., et al. [1979, p.164-174, eng] 35-410
Bottomfast ice and hydrology in northern rivers. Forbes, D.L., [1979, p.175-184, eng] 35-411
Forecasting ice conditions on the Saguenay River (Quebec). Watte, C., et al. [1979, p.185-196, fre] 35-412
Theory of aufeis and streambed erosion. Carlson, R.F., [1979, p.197-205, eng] 35-413
Winter water quality and hydrology of Ogilvie River system. Schreier, H., [1979, p.559-569, eng] 35-434
Wintertime flow distribution in river channels. Shen, H.T., et al. [1980, p.805-817, eng] 35-705
Interpretation of Alberta ice jams data. Michel, B., [1980, 15p., eng] 35-839
Extending river navigation periods in the North. Protasov, G., [1980, p.5-6, rus] 35-903
Extending ice navigation on rivers. Ovchinnikov, E., [1980, p.6-7, rus] 35-904
Ice navigation on rivers. Tromm, V., et al. [1980, p.10-11, rus] 35-906
Operation of icebreakers. Lapin, II., et al. [1980, p.29-30, rus] 35-907
Testing river icebreakers. Tromm, V., et al. [1980, p.14-16, rus] 35-908
Results of icebreaker operation. Erokhov, I., [1980, p.18, rus] 35-910
Winter operation of river navigation structures. Gol'din, E., [1980, p.23, rus] 35-912
Tug-boats for ice navigation. Grinbaum, A., et al. [1980, p.46-47, rus] 35-913
Ice navigation qualifications of raft tugs. Gorbunov, II., [1980, p.33-35, rus] 35-917
Using a kinetic equation for describing the frazil ice formation process. Abramenkov, N.M., [1980, p.97-104, rus] 35-932
Calculating ice loads on river structures. Panfilov, D.F., [1980, p.284-289, eng] 35-965
Sediment displacement in the Ottauquechee River 1975-1978. Martinson, C., [1980, 14p., eng] 35-974
Investigations, calculations and forecasts of ice conditions on rivers. Donchenko, R.V., ed. [1980, 118p., rus] 35-1009
Model of the river freezing process. Donchenko, R.V., [1980, p.3-11, rus] 35-1010
Calculating ice cover thickness on rivers and lakes. Chizhov, A.N., [1980, p.40-55, rus] 35-1014
Ice cover formation on rivers. Chizhov, A.N., et al. [1980, p.56-77, rus] 35-1015
Determining tensile strength of ice. Kozitskii, I.E., [1980, p.78-87, rus] 35-1016
Long range forecasts of ice formation on rivers. Shanochkin, S.V., [1980, p.92-99, rus] 35-1018
Ice conditions on the Danube River. Lupanova, I.B., [1980, p.100-112, rus] 35-1019
Ice : Physical properties : Modern methods of glaciology. Bogorodskii, V.V., et al. [1980, 384p., rus] 35-1123
Modeling of ice in rivers. Ashton, G.D., [1979, p.14-1-14-26, eng] 35-1127
Spring breakup on Alaskan rivers. Nibler, G.J., [1980, p.207-209, eng] 35-1488
Single and double reaction beam load cells for measuring ice forces. Johnson, P.R., et al. [1980, 17p., eng] 35-1724
Forecasting ice conditions on rivers. Kalinin, G.S., [1975, p.112-117, rus] 35-1789
Calculating development of naleds. Popova, I.I., [1980, p.61-66, rus] 35-1870
Clearing ice-clogged shipping channels. Vance, G.P., [1980, 13p., eng] 35-2000
Frazil ice in rivers and oceans. Martin, S., [1981, p.379-397, eng] 35-2240
Proceedings of Workshop on Hydraulic Resistance of River Ice, Sep. 1980. [1981, 301p., eng] 35-2539
Conveyance capacity with ice cover for the Nashwaak River, N.B. Burrell, B., et al. [1981, p.34-56, eng] 35-2542
Discharge-water level relationship for ice cover stability. Carson, R.K., et al. [1981, p.112-120, eng] 35-2546
Harnessing frazil ice. Perham, R.E., [1981, p.227-237, eng] 35-2554
Recent improvements in numerical modelling of river ice. Petryk, S., et al. [1981, p.263-280, eng] 35-2557
Maximum thickness and subsequent decay of lake, river and fast sea ice in Canada and Alaska. Bilello, M.A., [1980, 160p., eng] 35-2588
Hydrology. Grushevskii, M.S., ed. [1978, 224p., rus] 35-2699
Ecological roles of river icings in the Tsichu River Valley, Northwest Territories, Canada. Gill, D., et al. [1981, p.119-125, eng] 35-3025
Jokulhlaups on Snow River in southcentral Alaska. Chapman, D.L., [1981, 48p., eng] 35-3680
Quadruple-screw river icebreakers for USSR. [1981, p.181, eng] 35-3695
Spring ice breakup at pipeline river crossing. Grey, B.J., [1978, 22p., eng] 35-3795
Ice jams and meteorological data for three winters, Ottauquechee River, Vt. Bates, R.E., et al. [1981, 27p., eng] 35-3926
Use of the ice channeling plow for the prevention of ice barrages. Tsykin, E.N., [1970, 6p., eng] 35-4096
Ice problems on the middle Mississippi River. Lovelace, J.L., et al. [1981, p.1081-1087, eng] 35-4167
Ice control arrangement for winter navigation. Perham, R.E., [1981, p.1096-1103, eng] 35-4169
Surface heat loss and frazil ice production in the St. Lawrence River. Shen, H.T., [1980, p.996-1001, eng] 35-4254
Origin of water feeding North Slope icings. Hall, D.K., et al. [1981, p.433-438, eng] 35-4341

Rivers

Environmental impact statement, Chena River Lakes Project. (1980, 82p + appends., eng) **35-132**

Ice condition changes induced by river regulation. Rossinskii, K.I., et al. (1980, p.5-19, rus) **35-468**

Transportation development problems and prospects. Economic development of Siberia and the Far East. Pavlovskii, I.G., (1980, 125p., rus) **35-864**

Extending river navigation in winter. Aleksandrov, V., (1979, p.35-37, rus) **35-902**

River transport in the North. Zhivotkevich, N., (1980, p.7-9, rus) **35-905**

Dredging in ice-bound rivers. Zernov, A., (1980, p.8-9, rus) **35-915**

Evaluating changes in river freezing conditions. Donchenko, R.V., et al. (1980, p.12-19, rus) **35-1011**

Hydrologic regime of lakes and rivers in Central Siberia. Ershova, I.M., (1977, p.3-11, rus) **35-1290**

Construction of river harbors under severe climatic conditions. Rikhter, O.B., et al. (1980, p.18-20, rus) **35-1299**

Changes in taiga due to river flow control. Shirokov, V.M., (1980, p.22-30, rus) **35-1332**

Geographic studies related to the river-channel diversion project. Malik, I.K., (1980, p.47-51, rus) **35-1333**

Changes induced by stream flow diversion in Siberia. Bachurin, G.V., (1980, p.52-56, rus) **35-1334**

Changing the course of Siberian rivers. Saks, V.N., et al. (1980, p.76-81, rus) **35-1428**

Forecasting induced changes in different landscapes. Voronov, A.G., et al. (1980, p.82-89, rus) **35-1429**

Changes in northern swamps due to river flow control. Ivanov, K.E., et al. (1980, p.90-105, rus) **35-1430**

Changing the course of rivers in the Arctic. Ivanov, V.V., (1980, p.106-123, rus) **35-1431**

Hydrochemistry of northern peatlands. Ivanov, A.V., et al. (1979, p.156-180, rus) **35-1524**

Stepping up ship passage through sluices. Kluev, V., et al. (1980, p.38-39, rus) **35-1604**

Reservoir effect on heat regime of rivers. Odnova, T.V., (1980, p.90-93, rus) **35-1611**

Studies in ecology and environmental protection in East Siberia. Kozhova, O.M., (1980, p.96-104, rus) **35-1706**

Hydrology of northern swamps. Babikov, B.V., (1980, p.14-26, rus) **35-1861**

Gravel removal studies in Arctic and Subarctic floodplains in Alaska. (1980, 403p., eng) **35-1997**

Soil preservation in permafrost and deep seasonal freezing areas. Kovda, V.A., et al. (1980, p.5-8, rus) **35-2252**

Relation between water-intake types in rivers and soil temperature. Solomennik, S.F., (1980, p.150-151, rus) **35-2302**

Geographic aspects of redirection of river courses in West Siberia. Bachurin, G.V., ed. (1979, 135p., rus) **35-2320**

Predicting ice regime on lower pools of hydroelectric stations. Nazarenko, S.N., et al. (1980, p.945-949, eng) **35-2772**

Construction of river moorings under severe climatic conditions (a review). Khaskhachikh, G.D., et al. (1980, 33p., rus) **35-2965**

River transport of the Baykal-Amur railroad area. Degtarev, V.V., et al. (1980, 89p., rus) **35-2966**

Evaluating riverbed processes using aerial photographs. Snishchenko, D.V., (1980, p.100-107, rus) **35-2980**

Forecasting mountain river discharge from snow survey data. Getker, M.I., et al. (1980, p.3-12, rus) **35-3570**

Geocryological processes in the Far East. Shumilov, R.V., (1976, p.46-54, rus) **35-3829**

Phytoplankton of the Pyasina River (western Taymyr). Ermolaev, V.I., (1981, p.16-29, rus) **35-3891**

Road icing

Sodium chloride solutions used to prevent highway icing. Beretta, M., (1980, p.17-19, ita) **35-222**

Resistance of concrete to urea and freezing. Blunk, G., et al. (1980, p.119-131, ger) **35-569**

Environmental impact of highway deicing. Backman, L., (1980, 62p + tables, swe) **35-570**

Rubber in asphalt may cut skidding, tests to gage road icing reduction. (1980, p.24, eng) **35-701**

Instrument to measure the quantity of melting agents on the roads. Della Faille, G., (1980, p.75-81, fre) **35-946**

Practical experience with ice-inhibiting pavements. Blumer, M., (1980, p.414-420, ger) **35-1131**

Moist salt for skid prevention on highways. Hahn, S., et al. (1981, p.39-48, ger) **35-3984**

Methods for measuring melting salts on roads. Della Faille, G., (1981, p.48-52, ger) **35-3985**

Effects of winter salting on the natural environment. Silvestre, P., et al. (1981, p.41-52, fre) **35-4006**

Interface study of rubber-ice friction. Roberts, A.D., et al. (1981, p.55-69, eng) **35-4157**

Nation's highest road is opened to top of Colorado's Mt. Evans. (1981, p.6, eng) **35-4160**

Road maintenance

Handbook for winter road service. Ahlbrecht, H., et al. (1978, 319p., ger) **35-152**

Winter maintenance of road pavements. (1980, p.12-25, eng) **35-529**

Pavement structure evaluation of Alaskan highways. McHattie, R., et al. (1980, 208p., eng) **35-893**

Deicing of airfields. Laumann, M., (1980, 27p., eng) **35-992**

Winter maintenance. (1980, p.10-15, eng) **35-1262**

Rational seasonal load restrictions and overload permits. Connor, B., (1980, 52p., eng) **35-1681**

Haul Road performance and associated investigations in Alaska. Berg, R.L., (1980, p.53-100, eng) **35-1770**

Snowplowable raised pavement markers. Liptak, R.F., (1979, 16p., eng) **35-2054**

Effects of road constructional faults in bituminous surfacing. Jaasko, J., (1980, 103p., fin) **35-2057**

Winter maintenance of access roads. Bulatkin, R., (1978, p.78-80, rus) **35-2451**

Some aids for solving winter weather problems. (1980, p.15-25, eng) **35-2560**

Pothole primer, a public administrator's guide to understanding and managing the pothole problem. Eaton, R., coord. (1981, 24p., eng) **35-2758**

Snowplows DE-223 and DE-225. (1981, p.25, rus) **35-2849**

Salt institute's sensible salting program provides winter guidelines. (1980, p.12-14, eng) **35-3208**

Snow removal service for a medium-sized lowland city. (1981, p.23-32, ita) **35-3511**

Snow and living things. McKay, G.A., et al. (1981, p.3-31, eng) **35-3746**

Thermal methods of snow control on roads. Williams, G.P., (1981, p.613-629, eng) **35-3760**

Snow removal equipment. Minsk, I.D., (1981, p.648-670, eng) **35-3762**

Snow and ice control on railroads, highways and airports. Minsk, I.D., et al. (1981, p.671-706, eng) **35-3763**

Guideway snow and ice control and roadside maintenance. (1980, 27p., eng) **35-3783**

Thermal removal of snow and ice on guideways. Kramer, T.J., (1980, p.1-8, eng) **35-3784**

Wind-tunnel analysis of the effect of plantings on snowdrift control. Ring, S.I., (1980, p.8-12, eng) **35-3785**

Alternatives to sodium chloride for highway deicing (Abridgment). Dunn, S.A., et al. (1980, p.12-15, eng) **35-3786**

Roadside vegetation control and drainage. Creech, M.F., (1980, p.15-22, eng) **35-3787**

Roadside management. Berger, R.L., et al. (1980, p.22-25, eng) **35-3788**

Minimizing roadway salt problems in Maine (Abridgment). Jacobs, K.M., et al. (1980, p.25-27, eng) **35-3789**

Roadbeds

Seasonal moisture regimes of roadbeds. Efimenko, V.N., et al. (1977, p.95-103, rus) **35-75**

Modeling the strength and stability of roadbeds. IAkovleva, T.G., et al. (1980, 255p., rus) **35-281**

Frost resistance of road structures. Savko, N.F., (1980, p.17-19, rus) **35-480**

Climatic maps for road construction. Efimenko, V.N., et al. (1980, p.19-21, rus) **35-481**

Frost protection layers in the design of road structures. Floss, R., (1979, p.158-161, ger) **35-527**

Roadbeds on moist fines. Knizhnik, G.B., et al. (1980, p.4-5, rus) **35-599**

Modern methods of road construction. Smirnov, I.V., (1980, p.45-47, rus) **35-609**

Construction of the Baykal-Amur railroad. Smirnov, I.V., (1980, p.44-47, rus) **35-610**

Roads of Siberian oil fields. Bromitskii, E.I., et al. (1980, p.3-5, rus) **35-939**

Road construction on peat. Golovkov, A.I., et al. (1980, p.19-20, rus) **35-1033**

Improvement of road construction technology. Zbarzhevskii, V.V., et al. (1980, 152p., rus) **35-1434**

Clay slope stability under vibrodynamic loads. Prokudin, I.V., (1980, p.37-39, rus) **35-1529**

Plastic covers for preventing frost heave. Vottov, S.A., (1979, p.75-84, rus) **35-1626**

Haul Road performance and associated investigations in Alaska. Berg, R.L., (1980, p.53-100, eng) **35-1770**

Preventing thermokarst processes in road construction areas. Merenkov, N.D., (1981, p.3-4, rus) **35-2075**

Roadbed design for permafrost areas. Mikhailov, G.D., (1981, p.12-15, rus) **35-2098**

Forecasting and controlling soil moisture in roadbeds. Korsunskii, M.B., et al. (1980, p.17-19, rus) **35-2637**

Using textile interlayers in road construction. Tabakov, N.V., et al. (1980, p.4-7, rus) **35-2777**

Oil field roads in western Siberia. Tabakov, N.V., et al. (1980, p.15-19, rus) **35-2780**

Railroad construction in mountainous permafrost areas. Podkalnik, V.P., et al. (1981, p.3-4, rus) **35-2842**

Problems in roadbed stability of the Ching-hai Tibet highway. (1979, p.43-51, chi) **35-2902**

Roadbeds built of frost heave soils. Dobrov, E.M., et al. (1980, p.3-4, rus) **35-3003**

Design and construction of drainage systems. Tulaev, A.IA., (1980, 191p., rus) **35-3233**

Road construction manual for engineers. Bochin, V.A., ed. (1980, 511p. (Pertinent p.367-498), rus) **35-3888**

Roads

Winter maintenance of railroad tracks. Buzunov, Z.T., (1980, p.10-11, rus) **35-5**

Dimensions of frost heave humps. Gritsyk, V.I., (1980, p.23-25, rus) **35-6**

Thermal regime of concrete pavements in cold regions. Ushakov, V.V., et al. (1977, p.60-64, rus) **35-74**

Seasonal moisture regimes of roadbeds. Efimenko, V.N., et al. (1977, p.95-103, rus) **35-75**

Pipeline construction in permafrost areas. Rudnik, V.F., (1980, p.32, rus) **35-99**

Seismotectonics and seismicity of the Baykal-Amur railroad construction area. Odintsov, M.M., ed. (1980, 204p., rus) **35-137**

Modeling the strength and stability of roadbeds. IAkovleva, T.G., et al. (1980, 255p., rus) **35-281**

Building construction in the North. Sergeev, A.F., et al. (1980, p.7-10, rus) **35-461**

Soil stabilization technique for freezing weather. Asmatulaev, B.A., (1980, p.9-10, rus) **35-477**

Frost resistance of road structures. Savko, N.F., (1980, p.17-19, rus) **35-480**

Climatic maps for road construction. Efimenko, V.N., et al. (1980, p.19-21, rus) **35-481**

Modern methods of road construction. Smirnov, I.V., (1980, p.45-47, rus) **35-609**

Projects for transportation technology in Canada, 1979. (1980, 83p., eng) **35-840**

Artificial snow for dust control on roads. Bitkolov, N.Z., et al. (1980, p.58-60, rus) **35-867**

Road pavements of cemented earth. Khabibullina, I.N., (1980, p.11-12, rus) **35-918**

Reinforced concrete plates for road pavements. Kholopov, A.I., (1980, p.12-13, rus) **35-919**

Roads of Siberian oil fields. Bromitskii, E.I., et al. (1980, p.3-5, rus) **35-939**

Road pavements for permafrost areas. Tuptsyn, N.M., (1980, p.5-7, rus) **35-940**

Pavement repair in freezing weather. Shvidko, IA.I., et al. (1980, p.25-26, rus) **35-941**

Winter maintenance of roads. Karaban, G.I., (1980, p.6-8, rus) **35-1021**

Snow retention structures along roads. Filippov, I.V., (1980, p.9-10, rus) **35-1022**

Road construction in freezing weather. Tolpinskii, B.A., (1980, p.16-17, rus) **35-1024**

Seasonal fluctuations of road construction in the North. Malt'sev, L.D., (1980, p.19, 22, rus) **35-1025**

Cost of road construction in northern swamps. Vasiliuk, V.A., (1980, p.2-3, rus) **35-1030**

Tree bark in road pavement construction. Lukina, V.V., et al. (1980, p.124-127, rus) **35-1090**

Assessment of loss in carrying capacity after thawing. Dysli, M., et al. (1980, p.394-399, fre) **35-1130**

Science assists the builders of Siberia and the Far East. Chentemirov, M.G., (1980, 192p., rus) **35-1136**

Hydropneumatic impact systems of working parts of mining and road construction machines. Sagimov, A.S., et al. (1980, 199p., rus) **35-1149**

Improvement of road construction technology. Zbarzhevskii, V.V., et al. (1980, 152p., rus) **35-1434**

Clay slope stability under vibrodynamic loads. Prokudin, I.V., (1980, p.37-39, rus) **35-1529**

Construction of petroleum industry objects in permafrost areas. Shemraev, G.A., et al. (1980, p.10-11, rus) **35-1646**

Road bearing capacity in Norway. Refsdal, G., (1980, 13p., eng) **35-1728**

Environmental engineering, Yukon River-Prudhoe Bay Haul Road. Brown, J., ed. (1980, 187p., eng) **35-1768**

Environment of the Alaskan Haul Road. Brown, J., (1980, p.3-52, eng) **35-1769**

Road dust along the Haul Road, Alaska. Everett, K.R., (1980, p.101-128, eng) **35-1771**

Revegetation along roads and pipelines in Alaska. Johnson, L.A., (1980, p.129-150, eng) **35-1772**

Field cooling rates of asphalt concrete overlays at low temperatures. Eaton, R.A., et al. (1980, 11p., eng) **35-2002**

North Slope Borough comprehensive policy plan, Haul Road area. (1980, 34p., eng) **35-2015**

Use of slag in bituminous pavements. Koivuniemi, M., (1979, 71p + figs., fin) **35-2058**

Preventing thermokarst processes in road construction areas. Merenkov, N.D., (1981, p.3-4, rus) **35-2075**

Field maintenance shop for cold regions. Tarts, V.G., (1981, p.26-28, rus) **35-2085**

Construction equipment for northern pipelines. Osipov, V.N., (1981, p.15-16, rus) **35-2093**

Roadbed design for permafrost areas. Mikhailov, G.D., (1981, p.12-15, rus) **35-2098**

Winter concreting of road pavements. Modylevskii, A.B., et al. (1981, p.48-49, rus) **35-2100**

Drilling north of the Arctic Circle. (1980, p.56-57, eng) **35-2139**

Soil disturbance in pipeline construction areas. Sopina, E.P., (1980, p.190-191, rus) **35-2314**

Construction effect on cryogenic soils. Garagulia, L.S., et al. (1975, p.70-80, eng) **35-2402**

Frost heave of roads. Jones, R.H., (1980, p.77-86, eng) **35-2468**

Present condition (1980) of the TAPS gravel workpad. Krzewinski, T.G., et al. (1981, p.678-692, eng) **35-2530**

Frost depth prediction for highway subgrade soils. Haas, W.M., et al. (1981, p.719-733, eng) **35-2533**

Winter road construction on shifting sands — Shumilov, I. D., (1980, p. 22, rus) **35-2638**

Road construction machines and equipment manual — Bespalov, N. A., et al., (1980, 182p. (Pertinent p. 13-17), rus) **35-2684**

Urban construction in Siberia — Ogly, B. I., (1980, 272p. (Pertinent p. 174-269), rus) **35-2685**

Using textile interlayers in road construction — Tabakov, N. V., et al., (1980, p. 4-7, rus) **35-2777**

Oil field roads in western Siberia — Tabakov, N. V., et al., (1980, p. 15-19, rus) **35-2780**

Temporary bridges in permafrost areas — Rasskazov, I. D., et al., (1981, p. 6-8, rus) **35-2843**

Historical Mu-chia-erh-te Glacier valley and east-west communication — Shih, Y., et al., (1979, p. 22-26, chi) **35-2898**

Why does the road turn to melting — Wang, C., (1979, p. 81, chi) **35-2908**

Winter salt prospects improved, more barges will aid stockpiling, (1980, p. 18-22, eng) **35-2935**

Cost of road construction in permafrost areas — Podymalova, I. P., (1980, p. 7-8, rus) **35-3008**

Using rock salt byproducts for preventing road pavement icing — Ermolenko, V. V., et al., (1980, p. 15-16, rus) **35-3009**

Stereophotogrammetric surveys of avalanche danger areas — Maslovskii, F. B., et al., (1980, p. 20-21, rus) **35-3010**

Five stage program beats snow with Toledo's mobilized forces, (1980, p. 9-11, eng) **35-3207**

Design and construction of drainage systems — Tulaev, A. I. A., (1980, 191p., rus) **35-3233**

Construction of the Trans-Siberian Railroad System — Paul', V. P., (1980, 167p., rus) **35-3548**

Permafrost — Engineering design and construction — Johnston, G. H., ed., (1981, 540p., eng) **35-3703**

Farmers loop sinkhole — Sweet, L., et al., (1980, p. 6-10, eng) **35-3856**

Highway pavement cracks, an Alaskan overview — McHattie, R., (1980, p. 17-21, eng) **35-3858**

Road construction manual for engineers — Buchin, V. A., ed., (1980, 511p. (Pertinent p. 367-498), rus) **35-3888**

Peculiarities of foundation design in petroleum provinces of West Siberia — Konovalov, V. A., et al., (1981, 167p., rus) **35-3918**

On the buried ice near the highway bridge at the Batura Glacier terminus — Shi, Y., (1980, p. 166-172, chi) **35-4037**

Effectiveness of road facilities in Yakutia — Shtyrev, I. N., (1978, p. 112-114, rus) **35-4116**

Pipeline construction in swampy taiga — Karpenko, M. P., (1981, p. 29-31, rus) **35-4239**

Pipeline supports for tundra conditions — Natrov, G. V., et al., (1981, p. 2-3, rus) **35-4244**

Snowdrifts and protective vegetation along the roads — Saito, S., (1981, 101-106, jap) **35-4269**

Rock drilling

Mechanics of cutting and boring in permafrost — Mellor, M., (1980, 82p., eng) **35-1892**

Rock excavation

Modeling hard rock slope resistance to earthquakes — Tselikov, F. I., et al., (1980, p. 121-125, rus) **35-147**

Railroad embankments on unstable slopes — Basistov, M. A., (1980, p. 5-7, rus) **35-1525**

Stresses on cutting tools in permafrost excavation — Misnik, R. M., et al., (1980, p. 69-74, rus) **35-2455**

Heat and mass transfer in massive rocks and in underground structures — Kremnev, O. A., et al., (1980, 383p., rus) **35-2874**

Rock fills

Frozen core earth dams — Kronik, I. A. V., et al., (1980, p. 52-55, rus) **35-8**

Dynamics of temperature field of the dam of the Vilyuy hydroelectric power plant — Olovin, B. A., et al., (1980, 48p., rus) **35-2049**

Proceedings, (1980, 460p., eng) **35-2957**

Construction of artificial island in the Beaufort Sea — Boone, D. J., (1980, p. 231-247, fre) **35-2961**

Equipment for building seepage fills — Tkachevskii, I. D., et al., (1981, p. 3-5, rus) **35-3532**

Rock glaciers

Cryogenic phenomena in Kazakhstan and Central Asia — Gorbunov, A. P., ed., (1979, 145p., rus) **35-185**

Formation of rock glaciers — Gorbunov, A. P., (1979, p. 5-34, rus) **35-186**

Rock glacier movements — Titkov, S. N., (1979, p. 34-42, rus) **35-187**

Rock glaciers and their formation — Whalley, W. B., (1974, 60p., eng) **35-1160**

Late Quaternary rock glaciers, Mount Kenya, Kenya — Mahaney, W. C., (1980, p. 492-497, eng) **35-1511**

Glacier-rock glacier transition in the southwest Yukon Territory, Canada — Johnson, P. G., (1980, p. 195-204, eng) **35-1661**

Movement of an ice-cored rock glacier, near Tungsten, N.W.T. — Jackson, L. E., Jr., et al., (1980, p. 842-847, eng) **35-2175**

Glacial history of the Kirgiz Ala Tau Range — Maksimov, E. V., (1980, 184p. (pertinent p. 116-143), rus) **35-2394**

Rock glacier formation in Colorado — Vick, S. G., (1981, p. 75-84, eng) **35-2459**

Characteristics and significance of rock glaciers in southern Victoria Land, Antarctica — Mayewski, P. A., et al., (1980, p. 68-69, eng) **35-3178**

Distribution of rock glaciers and permafrost, based on freezing and thawing indices — Harris, S. A., (1981, p. 376-381, eng) **35-3513**

Glacial geomorphology — Theakstone, W. H., (1980, p. 241-253, eng) **35-3557**

Alpine mass movement forms (noncatastrophic) classification, description, and significance — White, S. E., (1981, p. 127-137, eng) **35-4087**

Topoclimatic factors and development of rock glacier facies — Morris, S. E., (1981, p. 329-338, eng) **35-4264**

Rock magnetism

Ice sounding over the Dufek Massif — Behrendt, J. C., Jr., et al., (1981, p. 3014-3020, eng) **35-3652**

Rock mechanics

On the vertical displacement of small stones in a shallow pond by freezing — Ohata, T., (1978, p. 67-70, eng) **35-56**

Differentiation of some gravels dynamo-texture — Lin, S., (1980, p. 17-20, chi) **35-81**

Glacial mud-rock flow in Baltbare Gully — Cai, X., et al., (1980, p. 22-25, chi) **35-83**

Weathering in glacial, temperate and tropical climatic zones — Brunsden, D., (1979, p. 73-129, eng) **35-1686**

Block motion from detonations of buried near-surface explosive arrays — Bloum, S., (1980, 62p., eng) **35-1999**

Slope processes in cold environment of northern Finland — Soderman, G., (1980, p. 83-152, eng) **35-2105**

Slope cover deposits of mountain areas, SW Spitsbergen — Martini, A., (1975, p. 147-185, eng) **35-3616**

Breakage of granitic detritus by ice and water — Moss, A. J., et al., (1981, p. 261-272, eng) **35-4024**

Rock properties

Differentiation of some gravels dynamo-texture — Lin, S., (1980, p. 17-20, chi) **35-81**

Microwave measurements of salt thickness — Unterberger, R. R., (1980, p. 331-347, eng) **35-558**

Stability of mining excavations in permafrost areas — Plesnitsev, V. V., (1980, p. 103-106, rus) **35-635**

Rock streams

Conference on climate, relief and human activities, (1978, 155p., rus) **35-11**

Formation and movements of rock streams — Iturm, A. I., et al., (1978, p. 104-106, rus) **35-19**

Geomorphology and neotectonics of mountain areas in the Far East — Sizikov, A. I., ed., (1977, 132p., rus) **35-57**

Formation of rock streams in the Far East — Skryl'nik, G. P., (1977, p. 86-88, rus) **35-59**

Formation of rock glaciers — Gorbunov, A. P., (1979, p. 5-34, rus) **35-186**

Snow accumulation on glaciers — Kuznetsov, N. A., (1980, p. 105-111, rus) **35-720**

Cryogenic slope processes in Tien Shan — Tarakanov, A. G., (1980, p. 98-105, rus) **35-953**

Railroad embankments on unstable slopes — Basistov, M. A., (1980, p. 5-7, rus) **35-1525**

Mudflows in Altai and Sayan Mountains — Abramenko, N. A., (1980, p. 49-54, rus) **35-1806**

Climatic geomorphology of the Far East — Kaplina, A. P., ed., (1978, 144p., rus) **35-1850**

Climate and topography of Wrangel Island — Skryl'nik, G. P., (1976, p. 20-43, rus) **35-1851**

Topography developing processes in northern taiga — Nikol'skaia, V. V., et al., (1976, p. 81-85, rus) **35-1854**

Topography development under monsoon and continental climates — Korotkii, A. M., et al., (1976, p. 124-138, rus) **35-1857**

Studying global factors of climato-morphogenetic phenomena of the Far East — Nikol'skaia, V. V., ed., (1979, 163p., rus) **35-3045**

Mountain alluvium in the Far East — Korotkii, A. M., et al., (1979, p. 94-117, rus) **35-3046**

Isotope methods of studying rock stream formation — Morkovkina, I. K., et al., (1981, p. 90-96, rus) **35-3300**

Interrelations between the components of forest and swamp ecosystems in the central taiga of the Ural area — Vasilevich, V. I., ed., (1980, 256p., rus) **35-3863**

Mud-rock flows in the vicinity of Batura Glacier — Cai, X., et al., (1980, p. 146-152, chi) **35-4035**

Rockets

Preparing rocket gunners for combat duty in winter — Ivanov, R., et al., (1979, p. 19-22, rus) **35-495**

Rocks

Cement injection technique for thawed permafrost — Shugaev, R. I., et al., (1980, p. 63-64, rus) **35-597**

Glacio-geomorphological observations at Cape Omega — Moriwaki, K., (1980, p. 1-14, eng) **35-1054**

Geologic processes on the Beaufort Sea shelf (Oct.-Dec. 1979) — Barnes, P., et al., (1980, p. 193-249, eng) **35-1158**

Nature of the ice-rock interface — Vivian, R., (1980, p. 267-277, eng) **35-1821**

Weathering of sandstone by the combined action of frost and salt — Williams, R. B. G., et al., (1981, p. 1-9, eng) **35-2338**

Modern boulder tracing in prospecting — Hyvarinen, L., et al., (1973, p. 87-98, eng) **35-2747**

Prospecting for nickel in north Sweden — Nilsson, G., (1973, p. 97-109, eng) **35-2748**

Ice sheet, subglacial basalts and uplift of the Transantarctic Mts. — Stump, E., et al., (1980, p. 757-759, eng) **35-2792**

Glacial boulder of Nongnongping Dukou — Jing, C., (1980, p. 58, chi) **35-2920**

Grain-size distribution of subglacial till — Haldorsen, S., (1981, p. 91-105, eng) **35-2940**

Plowing blocks — Gorbunov, A. P., (1980, p. 160-167, rus) **35-3333**

Roofs

Snow sliding from roofs by using river water — Fukazawa, D., (1976, p. 188-195, jap) **35-261**

Conditions of snow sliding on metal sheet roofs — Maeda, H., (1979, p. 199-204, jap) **35-267**

Calculating loads of frozen rocks on timber in mines — Sleptsov, A. E., et al., (1980, p. 101-105, rus) **35-634**

Snow static loads on roofs in relation to weather conditions in Piedmont — Balzaretti, P., (1980, p. 36-40, ita) **35-945**

Roofs in cold regions: Marson's Store, Claremont, New Hampshire — Tobiasson, W., et al., (1980, 13p., eng) **35-975**

Improving watertightness of large panel buildings — Omel'chenko, V. A., et al., (1980, 95p., rus) **35-1575**

Roof snow load tolerance standards under revision, (1980, p. 16, eng) **35-1955**

Moisture gain and its thermal consequence for common roof insulations — Tobiasson, W., et al., (1980, p. 4-16, eng) **35-2053**

Unbalanced snow loads on arch shaped roofs — Taylor, D. A., et al., (1980, p. 651-656, eng) **35-2149**

Bituminous roofing membranes: practical considerations — Turenne, R. G., (1980, p. 1-4, eng) **35-2319**

Independent roof sections for long buildings to resist snow loads — Woeste, F. E., et al., (1980, p. 968-972, eng) **35-2411**

Hand-held infrared systems for detecting roof moisture — Tobiasson, W., et al., (1977, p. 261-271, eng) **35-2494**

Cold regions engineering, (1980, Var. p., eng) **35-2710**

Roofs in cold regions — Tobiasson, W., (1980, 21p., eng) **35-2713**

Snow accumulation on and around solar collectors — Harris, J. R., (1980, p. 54-65, eng) **35-3147**

New 2 and 3 inch diameter CRREL snow samplers — Bates, R. E., et al., (1980, p. 199-200, eng) **35-3163**

Snow and living things — McKay, G. A., et al., (1981, p. 3-31, eng) **35-3746**

Snow and buildings — Boyd, D. W., et al., (1981, p. 562-579, eng) **35-3758**

Economic effectiveness of optimizing the amount of thermal insulation of buildings — Boguslavskii, L. D., (1981, 102p., rus) **35-3965**

Wind and snow load statistics for probabilistic design — Ellingwood, B., (1981, p. 1345-1350, eng) **35-4004**

Snow loads for the design of cylindrical curved roofs in Canada 1953-1980 — Taylor, D. A., (1981, p. 63-76, eng) **35-4218**

Roots

Forest strip effect on snow distribution — Savin, I. N., ed., (1978, 96p., rus) **35-1091**

Development of tree roots in cryogenic saline soils — Lamin, I. A., (1978, p. 28-33, rus) **35-1094**

Microorganisms in the rhizosphere of Arctic grasses — Evdokimova, G. A., (1974, p. 98-103, rus) **35-1209**

Control of tundra plant allocation patterns and growth — Chapin, F. S., III, et al., (1980, p. 140-185, eng) **35-1934**

Thermal regime of cryogenic soils in Transbaikal — Russkikh, A. M., (1980, p. 131-132, rus) **35-2297**

Growth conditions and vitality of *Sphagnum* in a tundra community along the Alaska pipeline haul road — Spatt, P. D., et al., (1981, p. 48-54, eng) **35-4050**

Decorative plants for landscaping residential areas in Yakutia — Krotova, Z. E., ed., (1980, 106p., rus) **35-4098**

Root systems of trees and shrubs introduced in Yakutia — Dokhunaev, V. N., (1980, p. 25-32, rus) **35-4101**

Using the Daurskaya larch in landscaping — Timofeev, P. A., (1980, p. 59-63, rus) **35-4102**

Trees and shrubs in Yakutsk — Kornienko, V. A., (1980, p. 64-69, rus) **35-4103**

Roughness coefficient

Review of flow resistance of consolidated smooth and rough ice covers — Pratte, B. D., (1979, p. 52-92, eng) **35-406**

Route surveys

Precipitation in the atmosphere and on the earth's surface — Litvinov, I. V., (1980, 208p., rus) **35-2948**

Vegetation along the gas pipeline route, Yukon Territory — Stanek, W., (1980, 47p., eng) **35-3486**

Rubber

Rubber seal elasticity in freezing weather — Marinskii, M. M., et al., (1980, p. 15, rus) **35-462**

Rubber in asphalt may cut skidding; tests to gage road icing reduction, (1980, p. 24, eng) **35-701**

Rubber ice friction

Rubber-ice friction and vehicle handling — Roberts, A. D., (1981, p. 14-16, eng) **35-3920**

Interface study of rubber-ice friction — Roberts, A. D., et al., (1981, p. 55-69, eng) **35-4157**

Rubber snow friction

Rolling resistance of aircraft wheels in dry snow — Kihlgren, B., (1977, 22p. + tables, sw) **35-702**

Runoff

Snowmelt runoff estimate using energy balance techniques. Davis, V.J., et al. [1978, p.183-192, eng] **35-32**

Mudflows triggered by glacial runoff. Golubovich, V.A., [1980, p.103-106, rus] **35-213**

Heat and water balance in mountain drainage basins. Novorotskii, P.V., [1980, p.224-229, rus] **35-342**

Canadian Hydrology Symposium: 70—Cold Climate Hydrology. [1979, 597p., eng] **35-403**

Application of the UBC watershed model to Peyto Glacier basin. Power, J.M., et al. [1979, p.217-228, eng] **35-415**

Estimation of small basin flood flows in the discontinuous permafrost zone. Vincent, D.G., et al. [1979, p.229-238, eng] **35-416**

Probable maximum flood for the Peace River at site C. Fawkes, P.E., [1979, p.239-250, eng] **35-417**

Runoff simulation, Falls River watershed, Ellesmere Is., N.W.T. Ambler, D.C., [1979, p.277-289, eng] **35-418**

Response of an alpine watershed to snowmelt. Jordan, R.P., [1979, p.323-333, eng] **35-420**

Storm runoff delays induced by snow and ice. Whiteley, H.R., et al. [1979, p.356-379, eng] **35-423**

Measuring peak runoff at culverts on the interior plains. Doyle, P.F., [1979, p.390-402, eng] **35-425**

Snow cover, snowmelt and runoff in the Mackenzie basin. Dey, B., et al. [1979, p.449-460, eng] **35-429**

Runoff and water balance in Arctic lake basins. Newbury, R.W., et al. [1979, p.516-535, eng] **35-431**

Annual water balance of small high Arctic basins. Marsh, P., et al. [1979, p.536-546, eng] **35-432**

Separation of runoff components in glacierized alpine watersheds. Collins, D.N., et al. [1979, p.570-581, eng] **35-435**

Snowmelt-runoff forecasting. Tangborn, W.V., [1980, p.778-786, eng] **35-439**

Glacial runoff control. Krenke, A.N., [1980, p.5-19, rus] **35-466**

Controlling runoff from naleds. Kemmerikh, A.O., [1980, p.20-25, rus] **35-467**

Digital simulation of snowmelt runoff. Merritt, R.G., [1978, 107p., eng] **35-530**

Diurnal regulation of glacial runoff. Sokolov, D.P., et al. [1980, p.120-126, rus] **35-722**

Water balance of the Bratsk reservoir. Geta, R.I., [1978, 134p., rus] **35-811**

Record of Grinnell and Sperry Glaciers, Montana. Johnson, A., [1980, 29p. + 2 maps, eng] **35-862**

Meltwater seepage into frozen ground. Kaliuzhnyi, I.L., et al. [1980, p.375-379, eng] **35-966**

Calculating discharge of icebound rivers. Riazanov, V.S., [1980, p.68-77, rus] **35-1005**

Snowmelt hydrographs from spatially varied input. Martinec, J., [1979, p.100-111, eng] **35-1124**

Linear distributed model for a partly snowbound catchment. Singh, R., et al. [1979, p.167-177, eng] **35-1125**

Calculating runoff from glaciated areas. Lang, H., [1980, p.107-115, rus] **35-1237**

Snow and glacier contributions in Himalayan catchments. Babadur, J.B., et al. [1980, p.121-125, rus] **35-1240**

Factors affecting discharge of glacial rivers. Tsomaia, V.Sh., [1980, p.125-130, rus] **35-1241**

Chemical composition of glacial waters. Izrael', Iu.A., et al. [1980, p.157-162, rus] **35-1249**

Chemical composition of glacier meltwaters. Vilesov, E.N., et al. [1980, p.162-166, rus] **35-1250**

Forecasting flooding of rivers. Klimova, L.A., et al. [1977, p.35-39, rus] **35-1292**

Changes in taiga due to river flow control. Shirokov, V.M., [1980, p.22-30, rus] **35-1332**

Calculating maximum spring flood runoff. Goroshkova, N.I., [1980, p.33-43, rus] **35-1793**

Calculating small river runoff in permafrost areas. Lubimov, G.A., [1980, p.54-63, rus] **35-1795**

Hydrology of northern swamps. Babikov, B.V., [1980, p.14-26, rus] **35-1861**

Hydrology. Grushevskii, M.S., ed. [1980, 177p., rus] **35-1865**

Calculating ultimate intensity of spring flooding in permafrost areas. Goroshkova, N.I., [1980, p.10-17, rus] **35-1866**

Subarctic snowmelt runoff generation. Kane, D.L., et al. [1981, p.591-601, eng] **35-2526**

Hydrology. Grushevskii, M.S., ed. [1978, 224p., rus] **35-2699**

Soil freezing effect on the loss of meltwater runoff. Lysenko, T.A., et al. [1978, p.10-15, rus] **35-2700**

Snowmelt and glacial runoff. Dreier, N.N., [1980, p.25-26, rus] **35-2808**

Glacier runoff related to Columbia River hydroelectric power generation. Tangborn, W.V., [1980, p.62-67, 140-143, rus] **35-2818**

Modeling glacial runoff in river basins. Christensen, M., et al. [1980, p.81-86, 154-157, rus] **35-2821**

Permafrost effect on the length of river freezeup period. Riabova, L.I., [1980, p.77-85, rus] **35-2878**

Research on glacial hydrology in the Mount Tuomer region. Kang, E., et al. [1980, p.18-21, chi] **35-2913**

Using satellite information in solving hydrological problems. Kupriianov, V.V., et al. [1980, p.3-9, rus] **35-2968**

Forecasting mountain river runoff from satellite data. Vostriakova, N.V., [1980, p.52-58, rus] **35-2974**

Studying catchment areas in swamps from aerial photographs. Savel'eva, T.S., [1980, p.93-99, rus] **35-2979**

Seasonal streamflow estimation using snow data. Eschner, A.R., [1980, p.45-53, eng] **35-3146**

Characteristics of the Great Whale River plume. Ingram, R.G., [1981, p.2017-2023, eng] **35-3274**

Irrigation of cryogenic meadow soils. Ugarov, I.S., et al. [1980, p.53-59, rus] **35-3315**

Water resources of Tiumen'. Trofimets, L.N., [1980, p.185-190, rus] **35-3425**

Surface runoff in river basins of permafrost areas. Berkin, N.S., et al. [1980, p.97-102, rus] **35-3462**

Forecasting mountain river discharge from snow survey data. Getker, M.I., et al. [1980, p.3-12, rus] **35-3570**

Meteorology and hydrology in the Hornsund region, Spitsbergen, 1970. Baranowski, S., et al. [1975, p.35-59, eng] **35-3610**

Runoff from a surface study plot. Bengtsson, L., et al. [1979, 12p., eng] **35-3629**

Snowcover ablation and runoff. Male, D.H., et al. [1981, p.360-436, eng] **35-3754**

Runoff characteristics in polar regions. Nasybulin, Sh.S., [1976, p.32-41, rus] **35-3827**

Dynamics of soil water runoff in permafrost areas. Khersonskii E.S., et al. [1980, p.37-43, rus] **35-3993**

Basic features of the meltwater of Batura Glacier. Li, J., et al. [1980, p.111-132, chi] **35-4033**

Calculating the peak discharge of Batura Glacier. Li, N., et al. [1980, p.133-145, chi] **35-4034**

Runoff of deicing salt in Buffalo, New York. Rumer, R.R., Jr., et al. [1974, p.407-411, eng] **35-4257**

Land surface and lake storage during snowmelt runoff, Subarctic areas. FitzGibbon, J.E., et al. [1981, p.277-285, eng] **35-4260**

Runoff forecasting

Seasonal runoff volumes conditioned on forecasted total runoff volume. Hoshi, K., et al. [1980, p.1079-1084, eng] **35-1875**

Glacial hydrology of Pamirs. Kemmerikh, A.O., [1980, p.88-94, rus] **35-1922**

Spring runoff forecasts in the Malmagen area, Sweden. Zarkrisson, K., [1980, 119p. + append., swe] **35-2151**

Proceedings of the 48th Western Snow Conference, 1980. [1980, 137p., eng] **35-2220**

Watershed information system. Thomsen, A.G., et al. [1980, p.14-25, eng] **35-2222**

Snowmelt modeling of upper Missouri River watersheds with SSARR. Cundy, T.W., et al. [1980, p.72-82, eng] **35-2229**

Importance of water supply forecasts in power planning. Gordon, W.R., et al. [1980, p.83-87, eng] **35-2230**

Snowmelt observations in Alberta. Barnaby, I.E., [1980, p.128-137, eng] **35-2235**

Runoff modelling from snow covered area. Martinec, J., [1981, p.113-122, eng] **35-3437**

Analytical method of calculating runoff storage. Kiktenko, V.A., et al. [1980, 200p., rus] **35-3641**

Snow surveys and spring runoff forecasting in the Malmagen area, Sweden. Zakrisson, K., [1981, p.11-17, eng] **35-4016**

Operational applications of satellite snow cover observations. Rango, A., [1980, p.1066-1073, eng] **35-4255**

Runways

Design and operation of airfields. Glushkov, G.I., et al. [1980, 441p., eng] **35-703**

Safety

Legalization of avalanche zoning in Switzerland. Frutiger, H., [1980, p.313-324, eng] **35-2374**

Avalanche zoning in France—regulation and technical bases. Crécy, L. de, [1980, p.325-330, eng] **35-2375**

Natural-hazard maps for land-use planning in Norway. Hestnes, E., et al. [1980, p.331-343, eng] **35-2376**

Snow-avalanche hazard zoning in British Columbia, Canada. Freer, G.L., et al. [1980, p.345-354, eng] **35-2377**

Avalanche zoning in four western U.S. communities. Mears, A.I., [1980, p.355-362, eng] **35-2378**

Avalanche hazard mapping and zoning in the Rocky Mts. Ives, J.D., et al. [1980, p.363-375, eng] **35-2379**

Avalanche zoning in Alaska, U.S.A. Hackett, S.W., et al. [1980, p.377-392, eng] **35-2380**

Avalanche warning system and public education program for Alaska. Hackett, S.W., et al. [1980, p.497-500, eng] **35-2390**

Saline soils

Thermophysical properties of freezing saline soils. Stepanov, A.V., [1979, p.101-105, rus] **35-239**

Formation of Siberian loesses. Koliago, S.A., [1980, p.5-20, rus] **35-296**

Saline soil stabilization with waste cinders. Ashurov, U., [1980, p.16-17, rus] **35-479**

Soil studies in Siberia and Kazakhstan. Orlovskii, N.V., [1979, 326p., rus] **35-878**

Development of tree roots in cryogenic saline soils. Lamin, L.A., [1978, p.73-[illegible]] **35-1094**

Mechanical properties of saline frozen grounds. Markin, K.F., [1973, p.28-49, rus] **35-1600**

Strength of frozen saline loams. Aksenov, V.I., [1973, p.50-54, rus] **35-1601**

Hydrothermal regime of deeply freezing saline soils. Voronina, L.V., et al. [1980, p.67-68, rus] **35-2273**

Salts and moisture migration in cryogenic soils. Melesk, Kh.Kh., [1980, p.110-111, rus] **35-2290**

Methods and equipment for the development of cryogenic saline soils. Kulebakin, P.G., [1980, p.145-148, rus] **35-3057**

Hydrothermal regime of cultivated saline soils. Mandarov, A.A., et al. [1980, p.47-53, rus] **35-3314**

Saline soils of West Siberia. Kurachev, V.M., et al. [1981, 152p., rus] **35-3568**

Salinity

Sea ice: its characteristics, distribution and role in human affairs. Ferguson, N.B., [1980, p.169-176, eng] **35-49**

Temperature fields and sound transmission variations in the Arctic Ocean. Bogorodskii, V.V., et al. [1980, p.967-970, rus] **35-306**

Estuarine salinity of Arctic seas. Brezgunov, V.S., et al. [1980, p.101-105, rus] **35-469**

Upward salt movement when ocean surface freezes or melts. Parkinson, C.L., [1979, p.103-104, eng] **35-674**

Low temperature phase changes in moist, briny clays. Anderson, D.M., et al. [1980, p.139-144, eng] **35-728**

Oceanographic data report from Cambridge Bay, N.W.T., Sep.1971-Apr.1972. [1973, 267p., eng] **35-889**

Oceanography of the d'Iberville Fiord, N.W.T., Mar.-Apr. 1974. [1975, 139p., eng] **35-1058**

Oceanographic conditions in the Okhotsk Sea coast of Hokkaido, winter. Aota, M., et al. [1978, p.93-105, jap] **35-1545**

Oceanographic measurements in the Chukchi Sea, April-August 1977. Garrison, G.R., et al. [1979, 131p., eng] **35-1581**

Ice blocks melting into a salinity gradient. Huppert, H.E., et al. [1980, p.367-384, eng] **35-1910**

Oceanography of the northern Gulf of St. Lawrence. Lewis, J.B., et al. [1980, 52p., eng] **35-2011**

Weathering of sandstone by the combined action of frost and salt. Williams, R.B.G., et al. [1981, p.1-9, eng] **35-2338**

Physical environment of the eastern Bering Sea March 1979. Salo, S.A., et al. [1980, 119p., eng] **35-3469**

Arctic Ocean temperature, salinity and density, March-May 1979. McPhee, M.G., [1981, 20p., eng] **35-3706**

Relationship of stress and strain in sea ice. Denner, W.W., [1980, p.5-32, eng] **35-3836**

Ocean circulation, fronts and ice melting in the Chukchi Sea. Paquette, R.G., et al. [1981, p.4215-4230, eng] **35-3911**

Salinity and thermal state of Bering Sea waters as indices of development of the Chukchi flaw lead in June. Arikainen, A.I., [1981, p.75-82, eng] **35-4134**

Salt ice

Ice melting in organic solvents. Naumov, S.V., et al. [1979, p.78, rus] **35-1274**

Kerosene permeability of salt ice. Saito, T., et al. [1978, p.55-62, jap] **35-1540**

Study on ice on Lake Tofutsu. Kawamura, T., et al. [1978, p.85-91, jap] **35-1544**

Salt water

Melting of ice in cold stratified water. Huppert, H.E., et al. [1980, p.953-960, eng] **35-1060**

Organic admixtures in frozen water-salt systems. Kovalev, O.I., et al. [1980, p.377-379, rus] **35-1388**

C-axes growth rate of ice crystals. Simpson, H.C., et al. [1976, p.219-230, eng] **35-4294**

Salting

Sodium chloride solutions used to prevent highway icing. Beretta, M., [1980, p.17-19, ita] **35-222**

Resistivity of bridge concrete pavement to freezing and salting. Härig, S., [1980, p.271-276, ger] **35-568**

Occurrence of salt and lead in snow dump sites. Scott, W.S., [1980, p.187-195, eng] **35-706**

Damage to bridge parapets by frost and salting. Studer, W., [1980, p.364-366, ger] **35-896**

Parking deck deterioration from chlorides. Jacobson, N.G., et al. [1981, p.438-448, eng] **35-2517**

Water pollution and associated effects from street salting. Field, R., et al. [1975, p.317-340, eng] **35-2569**

Winter salt prospects improved; more barges will aid stockpiling. [1980, p.18-22, eng] **35-2935**

Deicing salts and growth of trees and shrubs along roads. Buschena, C., et al. [1980, 31p., eng] **35-2942**

Salt institute's sensible salting program provides winter guidelines. [1980, p.12-14, eng] **35-3208**

Saline soils of West Siberia. Kurachev, V.M., et al. [1981, 152p., rus] **35-3568**

Chemicals and abrasives for snow and ice control. Keyser, J.H., [1981, p.580-612, eng] **35-3759**

Influence of deicing salts on soil and turf cover. Brod, H.G., et al. [1980, p.461-468, eng] **35-3771**

Alternatives to sodium chloride for highway deicing (Abridgment). Dunn, S.A., et al. [1980, p.12-15, eng] **35-3786**

Minimizing roadway salt problems in Maine (Abridgment) Jacobs, K.M., et al, (1980, p.25-27, eng) 35-3789
Moist salt for skid prevention on highways Hahn, S., et al, (1981, p.39-48, ger) 35-3984
Methods for measuring melting salts on roads Della Faille, G., (1981, p.48-52, ger) 35-3985
Effects of winter salting on the natural environment Silvestre, P., et al, (1981, p.41-52, fre) 35-4006
Alleviation of detrimental frost heaving of soils by chemical treatment Yong, R.N., et al, (1979, 150p., eng) 35-4011
Runoff of deicing salt in Buffalo, New York Rumer, R.R., Jr., et al, (1974, p.407-411, eng) 35-4257
Corrosive effects of deicing salts on automobiles Palmer, J.D., (1971, p.38-43, eng) 35-4322

Sampling

Drilling and sampling in frozen ground Reimers, S., (1980, p.13-17, eng) 35-256
Airborne equipment for sampling ice forming aerosols Berezinskii, N.A., et al, (1980, p.105-110, rus) 35-771
Comparison of areal snow storage sampling procedures for rangeland watersheds Rawls, W.J., et al, (1980, p.71-82, eng) 35-1132
Distribution of pelagic organisms in the Arctic Kosobokova, K.N., et al, (1980, p.183-195, rus) 35-1323
Studying gas permeability of massive frozen rocks Olovin, B.A., (1980, p.90-98, rus) 35-3321

Sanding

Chemicals and abrasives for snow and ice control Keyser, J.H., (1981, p.580-612, eng) 35-3759

Sands

Preliminary experimental study on the instantaneous strength of frozen sand Tian, H., et al, (1980, p.37-40, chi) 35-86
Soil formation on paleocryogenic fines Gorbunova, I.A., (1979, p.122-130, rus) 35-194
Craters in ice and ice-saturated sand on Mars Croft, S.K., et al, (1979, p.8023-8032, eng) 35-1101
Foundations on deeply freezing sands Dokuchaev, V.V., et al, (1973, p.3-11, rus) 35-1597
Origin of the Edoma series in Yakutia Arkhangelov, A.A., et al, (1979, p.110-135, rus) 35-1833
Material composition of Edoma series Kuznetsov, I.V., (1979, p.136-144, rus) 35-1834
Cryogenic structure of the Edoma frozen loess series Arkhangelov, A.A., et al, (1979, p.145-156, rus) 35-1835
Relationship between frost heave and areas of bearing plates Tong, C.G., et al, (1981, p.741-748, eng) 35-2535
Winter road construction on shifting sands Shumilov, I.D., (1980, p.22, rus) 35-2638
Chemical stabilization of soils Sokolovich, V.E., (1980, 119p., rus) 35-2952
Beach thaw depth on Canadian Arctic Islands (1980, p.103-121, fre) 35-2960
Foundation construction on peat soils Konovalov, P.A., (1980, 161p., rus) 35-2997
Sand dunes of Victoria Valley, Antarctica Calkin, P.E., et al, (1974, p.189-216, eng) 35-3139
Sand waves and ice scoring potential on the Norton Basin sea floor Nelson, H., et al, (1981, p.315-331, eng) 35-3244
Relation between strength and water saturation of frozen ground Denisgin, A.G., et al, (1980, p.45-53, rus) 35-3284
Dry processing of frozen placer sands Bazhbeuk-Melikov, N.K., et al, (1977, p.15-28, rus) 35-3806
Vapor condensation in hydraulically filled tailings Klimov, G.I., et al, (1980, p.57-62, rus) 35-3995
Chemical composition of waters infiltrating seasonally thawing sands Anisimova, N.P., (1980, p.82-90, rus) 35-3997
Glacial sands and mechanical durability of lithic fragments Slatt, R.M., et al, (1981, p.171-183, eng) 35-4023

Sanitary engineering

Fundamentals of sanitation and hygiene in urban construction of the Novosibirsk region Dobrinskii, A.A., et al, (1974, 118p., rus) 35-805
Water and sanitation policy in the N.W.T., Canada Christensen, V., (1980, p.9-18, eng) 35-2108
Water and energy conservation alternatives for the North Cameron, J.J., et al, (1980, p.47-88, eng) 35-2110
Wind power generation for sanitation services in the North Crawford, M.A., et al, (1980, p.89-104, eng) 35-2111
Technology for water supply and sanitation in northern communities McGarry, M.G., et al, (1980, p.121-135, eng) 35-2113
Operation, maintenance and management of sanitation facilities in the North Sargent, J.W., (1980, p.248-259, eng) 35-2122
Modified low-pressure communal sewage disposal systems McAmmond, K.W., (1980, p.477-483, eng) 35-2134
Methane productions in sanitary landfills in cold regions Dickason, O.E., et al, (1981, p.507-511, eng) 35-2521
Proceedings, National Conference on Environmental Engineering (1980, 707p., eng) 35-2570
Aquaculture systems for wastewater treatment: an engineering assessment Reed, S.C., et al, (1980, 127p., eng) 35-2859
Aquaculture systems for wastewater treatment Reed, S.C., et al, (1980, p.1-12, eng) 35-2860
Aquaculture systems for wastewater treatment in cold climates Pershe, E.R., (1980, p.105-127, eng) 35-2861
Treatment and disposal system of waste materials at Mizuho Station Hayashida, S., et al, (1981, p.49-60, jap) 35-4174

Saturation

Convection in a porous layer for a temperature dependent viscosity Blythe, P.A., et al, (1981, p.497-506, eng) 35-3519
Transport of matter, impulse and heat in porous media Diersch, H.-J., (1980, p.351-407, ger) 35-3563
Linear expansion due to freezing and other properties of bricks Davison, J.I., (1981, 24p., eng) 35-4209

Scattering

Microwave absorption and scattering by water and ice particles Abshaev, M.T., et al, (1975, p.40-71, rus) 35-1616
Microwave remote sensing of snow and soil moisture Tsang, L., et al, (1980, p.3465-3485, eng) 35-2410

Scotia Sea

Thermobaric and ice conditions, South Orkneys region Petrov, L.S., et al, (1980, p.59-65, rus) 35-2180

Sea ice

Ice distribution in the Danish Strait Kogan, B.A., et al, (1980, p.54-60, rus) 35-31
Creep and fracture of ice and strains of glaciers and sea ice Goodman, D.J., (1977, 149p. + plates, eng) 35-135
Relations between polar ice and climatic changes Zakharov, V.F., (1980, p.70-79, rus) 35-136
Structure and composition of natural ice Savel'ev, B.A., (1980, 280p., rus) 35-149
Geometric properties of the underside of sea ice Rothrock, D.A., et al, (1980, p.3955-3963, eng) 35-156
Surface and geostrophic winds over pack ice Feldman, U., et al, (1979, p.421-429, eng) 35-157
Turbulent heat flux from Arctic leads Andreas, E.L., et al, (1979, p.57-91, eng) 35-159
Passive radiometry of the ocean from space an overview McClain, E.P., (1980, p.7-24, eng) 35-160
Sea ice and icebergs Peters, G.R., (1979, p.41-59, eng) 35-162
Ice flow through straits Pritchard, R.S., et al, (1979, p.61-74, eng) 35-163
Assessment of SAR for oil pollution surveillance in the ice environment Parashar, S.K., et al, (1979, p.99-123, eng) 35-166
Offshore drilling of engineering-geological wells Arkhangel'skii, I.V., (1980, 263p., rus) 35-202
Focus on polar research Washburn, A.L., (1980, p.643-652, eng) 35-250
Sea ice properties and ice core analysis, Beaufort Sea, 1979 Langhorne, P.J., et al, (1980, 172p., eng) 35-335
Physics of ice and ocean Bogorodskii, V.V., ed, (1980, 157p., rus) 35-360
Electrical properties of Arctic sea ice Bogorodskii, V.V., et al, (1980, p.6-14, rus) 35-361
Dependence of sea ice refraction on specific attenuation Khokhlov, G.P., (1980, p.15-17, rus) 35-362
Microwave radiometry of sea ice Nikitin, P.A., (1980, p.18-22, rus) 35-363
Combined microwave-infrared radiometers for sea ice Bogorodskii, V.V., et al, (1980, p.23-26, rus) 35-364
Seasonal variations in sea ice electricity Gavrilo, V.P., et al, (1980, p.37-42, rus) 35-367
Acoustic studies of sea ice cover Gavrilo, V.P., et al, (1980, p.74-69, rus) 35-374
Measuring acoustic and electromagnetic wave propagation in sea ice Bogorodskii, V.V., et al, (1980, p.80-86, rus) 35-375
Special instruments for acoustic studies in the Arctic Basin Gusev, A.V., et al, (1980, p.87-93, rus) 35-376
Acoustic instruments used on drift stations Bogorodskii, P.V., et al, (1980, p.94-100, rus) 35-377
Acoustic methods of studying ice cover dynamics Sosedova, A.L., et al, (1980, p.112-118, rus) 35-380
Snow cover effect on electrical properties of ice Khokhlov, G.P., (1980, p.149-152, rus) 35-382
Horizontal temperature gradients in ice Volodin, E.S., et al, (1980, p.153-157, rus) 35-383
Weather from the ends of the earth (1978, p.38-46, eng) 35-402
Sea Ice-75: Dynamical report Udin, I., et al, (1976, 64p., eng) 35-531
Electromagnetic properties of sea ice Bogorodskii, V.V., (1980, p.23-51, eng) 35-547
Review of impulse radar sounding of sea ice Rossiter, J.R., (1980, p.77-107, eng) 35-549
Physical properties of sea ice and under-ice current orientation Kovacs, A., et al, (1980, p.109-153, eng) 35-550
Sea ice electrical properties measured with borehole radar and reflectometer Davis, J.L., (1980, p.155-187, eng) 35-551
Crystal anisotropy in sea ice Langhorne, P., (1980, p.189-224, eng) 35-552
Polarization studies in sea ice Arcone, S.A., et al, (1980, p.225-245, eng) 35-553
Modeling of anisotropic electromagnetic reflection from sea ice Golden, K.M., et al, (1980, p.247-294, eng) 35-554
Ice freeboard determination by satellite altimetry Stanley, H.R., et al, (1980, p.295-304, eng) 35-555
Some tests of a VHF synthetic pulse sea ice thickness sensor Tam, S.Y.K., et al, (1980, p.305-312, eng) 35-556
Low frequency methods for measuring sea ice thickness Hoekstra, P., et al, (1980, p.313-330, eng) 35-557
Synthetic pulse radar design Keelty, J.M., et al, (1980, p.349-360, eng) 35-559
Active methods for sea ice thickness measurements Bogorodskii, V.V., (1980, p.361-372, eng) 35-560
Sea ice thickness radar operating in the high frequency band Hunt, F.R., (1980, p.373-384, eng) 35-561
Technology of an airborne impulse radar Butt, K.A., et al, (1980, p.385-412, eng) 35-562
Bulk sea ice surveying Oswald, G.K.A., (1980, p.413-420, eng) 35-563
Seismic refraction measurements from sea ice in western McMurdo Sound McGinnis, L.D., (1979, p.34-35, eng) 35-638
Ross Ice Shelf bottom ice structure Zotikov, I.A., et al, (1979, p.65-66, eng) 35-652
Diatom abundance related to sea ice fluctuations DeFelice, D.R., (1979, p.105-106, eng) 35-675
Drifting buoy measurements on Weddell Sea pack ice Ackley, S.F., (1979, p.106-108, eng) 35-676
Weddell Sea ice moving into mid-latitude westerlies Schwerdtfeger, W., (1979, p.108-109, eng) 35-677
Sustained loading and temperature effects on ice strength Zanegin, V.G., et al, (1978, p.85-87, rus) 35-754
Sea ice reporting from satellite data Nikitin, P.A., et al, (1980, p.65-68, rus) 35-786
Fracture toughness of sea ice Urabe, N., et al, (1980, p.29-37, eng) 35-816
Transport measurements in the Arctic ice-pack Gebhart, B., et al, (1980, p.293-302, eng) 35-833
Numerical modeling of ice drift Taran, B.M., (1980, p.81-85, rus) 35-931
Cyclone effect on ice covered sea Denisov, V.V., et al, (1979, p.49-59, rus) 35-934
Dynamic models of sea ice Ovsienko, S.N., (1978, p.64-69, rus) 35-997
Calculating ice edge movements in seas Nikolaev, S.G., (1978, p.75-82, rus) 35-999
Long range forcasting of sea ice conditions Sheremetevskata, O.I., (1978, p.83-91, rus) 35-1000
January and July performance of the OSU two-level atmospheric general circulation model Schlesinger, M.E., et al, (1980, p.1914-1943, eng) 35-1074
Measurements of sea-ice stresses near grounded obstacles Sackinger, W.M., et al, (1981, p.144-147, eng) 35-1107
Mechanical properties of sea ice Shapiro, L.H., et al, (1979, p.196-202, eng) 35-1111
Ice. Physical properties. Modern methods of glaciology Bogorodskii, V.V., et al, (1980, 384p., rus) 35-1123
Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979 (1980, 534p., eng) 35-1150
Nearshore hydrodynamics of an Arctic barrier island-lagoon system Matthews, J.B., (1980, p.67-72, eng) 35-1152
Microbiology of an ice associated antarctic diatom Whitaker, T.M., et al, (1980, p.250-257, eng) 35-1285
Sea ice loads on hydraulic structures Drabkin, V.V., (1978, p.137-144, rus) 35-1297
Surface morphology of Arctic Ocean ice Grishchenko, V.D., (1980, p.33-35, rus) 35-1315
Ecosystem of Arctic drift ice Mel'nikov, I.A., (1980, p.61-97, rus) 35-1317
Cryopelagic fauna of the Central Arctic Basin Mel'nikov, I.A., et al, (1980, p.97-111, rus) 35-1318
Cryopelagic biocenoses of the Central Arctic Basin Kulikov, A.S., (1980, p.111-118, rus) 35-1319
Microflora in sea ice Tsurikov, V.L., (1980, p.118-132, rus) 35-1320
New data on circulation of sea water and ice in the Southern Ocean Buinitskii, V.Kh., et al, (1980, p.3-18, rus) 35-1344
World of ice: the natural history of the frozen regions John, B.S., (1979, 120p., eng) 35-1348
Major physiographic features of the Arctic and Southern Oceans Treshnikov, A.F., et al, (1979, p.37-54, rus) 35-1399
Iceberg distribution in the Atlantic sector of East Antarctica (1977-78) Kuznetsov, I.M., (1980, p.82-87, rus) 35-1457
Assessing several characteristics of antarctic ice Botnikov, V.N., et al, (1980, p.88-92, rus) 35-1458
Melting of antarctic fast ice Nazintsev, Iu.L., (1980, p.97-101, rus) 35-1460
Construction of reference points for pack ice melting studies Nazintsev, Iu.L., (1980, p.102-103, rus) 35-1461
Effect of coring and section size on sea ice density Fokeev, N.V., (1980, p.109-114, rus) 35-1463
Sonar measurement of Beaufort Sea ice profiles Wadhams, P., et al, (1980, p.401-414, eng) 35-1504
Infrared images of North Water during polar darkness Dey, B., (1980, 425-438, eng) 35-1505

Sea ice *(cont.)*

Kerosene permeability of salt ice Saito, T., et al. (1978, p.55-62, jap) **35-1540**

Failure of sea ice by repeated compression Nohguchi, Y., et al. (1978, p.63-68, jap) **35-1541**

Measurement of flexural waves on a breaking test of sea ice Ishida, T. (1978, p.79-83, jap) **35-1543**

Oceanographic conditions in the Okhotsk Sea coast of Hokkaido, winter Aota, M., et al. (1978, p.93-105, jap) **35-1545**

Inertial period motions of drifting sea ice Ono, N. (1978, p.107-113, jap) **35-1546**

Sea ice conditions and frequency of radar echoes Aota, M., et al. (1978, p.115-123, jap) **35-1547**

Intensity of reflected power of sea ice radar waves Ot, M., et al. (1978, p.125-129, jap) **35-1548**

Arctic sea ice research, 4 measurements of uniaxial compressive strength Nohguchi, Y., et al. (1978, p.131-139, jap) **35-1549**

Friction between sea ice and other objects Tushima, K., et al. (1978, p.141-161, jap) **35-1550**

Development of a new type of model ice for refrigerated towing basins Timco, G.W., et al. (1980, 31p., eng) **35-1588**

Air deployed oceanographic mooring (ADOM) (1980, 77p., eng) **35-1589**

Arctic sea ice decay simulated for a CO2-induced temperature rise Parkinson, C.L., et al. (1979, p.149-162, eng) **35-1657**

Snow cover of sea ice during the AIDJEX, 1975-1976 Hanson, A.M. (1980, p.215-226, eng) **35-1663**

Marine glaciology of Greenland and prospects of oil production Brochu, M. (1980, p.77-81, ita) **35-1674**

Modeling of anisotropic electromagnetic reflection from sea ice Golden, K.M., et al. (1980, 15p., eng) **35-1722**

Calculation of the basic components of the ice balance in the Denmark Strait Antropova, I.V., et al. (1980, 16p., eng) **35-1727**

Offshore engineering information sources Whittick, J.A. (1980, 34p., eng) **35-1879**

Sea ice anisotropy, electromagnetic properties and strength Kovacs, A., et al. (1980, 18p., eng) **35-1891**

Tangential stresses on the lower surface of ice with wind drift Kheisin, D.E., et al. (1980, 7p., eng) **35-1909**

Environmental assessment of the Alaskan continental shelf, TDP, FY81 Weller, G., coord. (1980, 166p., eng) **35-2018**

Environmental assessment of the Alaskan continental shelf, TDP, FY81 Calder, J.A., coord. (1980, 209p., eng) **35-2019**

Environmental assessment of the Alaskan continental shelf, TDP, FY81 Hameedi, J., coord. (1980, 130p., eng) **35-2020**

Glaciological research at the South Pole, Queen Maud Land in the McMurdo Sound area in 1974-1976 Barkov, N.I. (1980, p.107-113, rus) **35-2043**

Polar ice and atmospheric fluctuations Wiese, W., (1981, 22p., eng) **35-2050**

Annual report No.12, Contract N00014-76-C-0234, NR 307-252 (1980, 26p., eng) **35-2055**

Microwave systems for detecting oil slicks in ice-infested waters (1980, 63p., eng) **35-2106**

Symposium on Sea Ice Processes and Models, Seattle, Wa., 1977 Pritchard, R.S., ed. (1980, 474p., eng) **35-2167**

Nonsteady ice drift in the Strait of Belle Isle Sodhi, D.S., et al. (1980, p.177-186, eng) **35-2168**

Continuum sea ice model for a global climate model Ling, C.H., et al. (1980, p.187-196, eng) **35-2169**

Sea ice microalgae in the Canadian Arctic Hsiao, S.I.C., (1980, p.768-793, eng) **35-2172**

Flexural response of a tabular ice island to ocean swell Goodman, D.J., et al. (1980, p.23-27, eng) **35-2200**

Frazil ice in rivers and oceans Martin, S., (1981, p.379-397, eng) **35-2240**

Airborne impulse radar sounding of sea ice Rossiter, J.R., et al. (1980, p.187-191, eng) **35-2244**

Oil in sea ice Lewis, E.L., (1976, 26p., eng) **35-2247**

Radar methods of studying the earth Mel'nik, Iu.A., et al. (1980, 161p., rus) **35-2250**

Weather satellite observations in the South Polar region Gernandt, H., (1980, p.79-95, ger) **35-2436**

Climatic prospects with antarctic but no arctic ice. Flohn, H., (1979, p.35-51, fre) **35-2576**

Maximum thickness and subsequent decay of lake, river and fast sea ice in Canada and Alaska Bilello, M.A., (1980, 160p., eng) **35-2588**

Studies of the temperature-dependence of the brine content of sea ice by the pulse NMR method Mel'nichenko, N.A., et al. (1981, 6p., eng) **35-2589**

General methodological aspects of radar signal interpretation Kotiukh, A.A., (1980, p.203-210, eng) **35-2627**

Wave-ice interaction Evans, D.V., et al. (1968, 102p., eng) **35-2647**

SEASAT imagery of Bering Sea ice Martin, S., (1980, 17p., eng) **35-2708**

Estimation of heat and mass fluxes over Arctic leads Andreas, E.L., (1980, p.2057-2063, eng) **35-2754**

Snow cover Getker, M.I., (1980, p.8-20, rus) **35-2805**

Atmospheric precipitation Struzer, L.R., et al. (1980, p.24-25, rus) **35-2807**

International ice patrol (1981, p.20-31, eng) **35-2884**

Proceedings (1980, 460p., eng) **35-2957**

Shore erosion by ice Dionne, J.C., (1980, p.80-92, fre) **35-2958**

Forecasting dates of ice appearance on seas Shereimetevskaia, O.I., et al. (1980, p.69-76, rus) **35-3000**

Antarctic sea ice growth and oceanic heat flux Allison, I., (1981, p.161-170, eng) **35-3027**

Sea-ice atmosphere interactions in the Weddell Sea using drifting buoys Ackley, S.F., (1981, p.177-191, eng) **35-3029**

All-Union symposium on physical bases of recent climatic changes, Moscow, Apr. 24-25, 1979, Vol. 1 (1980, 108p., rus) **35-3049**

Multi-year sea ice investigation in the East Greenland Current Overgaard, S., (1980, 69p., eng) **35-3082**

Arctic marine diatoms and sea ice Lichu-Federovich, S., (1981, p.57-62, eng) **35-3083**

Proceedings of the workshop on research in the Labrador region, 1980 (1980, 410p., eng) **35-3090**

Remote sensing of oil in sea ice Goobic, G., (1980, p.33-52, eng) **35-3092**

Ice conditions and offshore hydrocarbon production, Labrador Sea Wright, B., et al. (1980, p.307-319, eng) **35-3100**

Ice conditions in Arctic river estuaries Ivanov, V.V., (1980, p.8-11, rus) **35-3105**

Seismic refraction studies in western McMurdo Sound McGinnis, L.D., (1980, p.11, eng) **35-3166**

Sea ice studies in the Weddell Sea aboard USCGC Polar Sea Ackley, S.F., et al. (1980, p.84-96, eng) **35-3188**

Routes in the ice Chubakov, K., et al. (1980, p.104-111, rus) **35-3231**

Ice gouging on the subarctic Bering shelf Thor, D.R., et al. (1981, p.286-314, eng) **35-3243**

Biological studies on the Alaskan continental shelf, 1980, (1981, 359p., eng) **35-3252**

Oceanographic and geologic processes on the Beaufort Sea coast Truett, J.C., (1981, p.52-108, eng) **35-3254**

Formation of sediment-laden sea ice Osterkamp, T.E., et al. (1981, p.641-662, eng) **35-3268**

Temperature dependence of brine content in sea ice Mel'nichenko, N.A., et al. (1980, p.535-537, eng) **35-3304**

Cook Inlet environment, a background study of available knowledge Evans, C.D., et al. (1972, 136p., eng) **35-3359**

Bibliography of the engineering and environments of Arctic coasts and seas (1977, 11p., eng) **35-3360**

Icebreaking procedures on the upper Chesapeake Bay Gamp, H.W., (1981, p.71-78, eng) **35-3361**

Ice and offshore Arctic structures, OTC, 13th, 1981 (1981, 485p., eng) **35-3445**

Design and construction of sea ice roads in the Alaskan Beaufort Sea Potter, R.E., et al. (1981, p.135-140, eng) **35-3449**

Concepts for data collection in the Arctic Hatchwell, J.A., (1972, 72p., eng) **35-3466**

Physical environment of the eastern Bering Sea March 1979 Salo, S.A., et al. (1980, 119p., eng) **35-3469**

Ice cover redistribution in the Kara Sea Appel', I.I., et al. (1980, p.4-28, rus) **35-3490**

Lateral melting effect on the closeness of pack ice Appel', I.L., et al. (1980, p.29-44, rus) **35-3491**

Mathematical model for forecasting ice formation dates on seas Moskal', T.N., (1980, p.45-54, rus) **35-3492**

Equations for long-range forecasts of sea ice conditions Kovalev, E.G., (1980, p.55-60, rus) **35-3493**

Equations for calculating breakup dates of fast ice Arikainen, A.I., (1980, p.68-76, rus) **35-3495**

Forecasting ice conditions in the Anadyr Bay Arikainen, A.I., et al. (1980, p.77-82, rus) **35-3496**

Ice conditions in the Arctic Ocean Arikainen, A.I., et al. (1980, p.83-88, rus) **35-3497**

Ice conditions in the Severnaya Zemlya area Kirillov, A.A., et al. (1980, p.94-100, rus) **35-3499**

Determining mean seasonal characteristics of ice conditions. Kirillov, A.A., et al. (1980, p.135-141, rus) **35-3504**

Functional relations among hydrometeorological phenomena Karklin, V.P., et al. (1980, p.142-145, rus) **35-3505**

Modeling a variable thickness sea ice cover Hibler, W.D., III, (1980, p.1943-1973, eng) **35-3514**

Development and prospects of space glaciology Kotlakov, V.M., (1981, p.7-15, rus) **35-3539**

Variations in microwave emission of sea ice (numerical modeling) Nikitin, P.A., (1980, p.56-63, rus) **35-3544**

Relations between electrical and physical properties of ice Nikitin, P.A., (1980, p.108-110, rus) **35-3547**

Dielectric properties and passive remote sensing of low-salinity sea ice Hallikainen, M., (1980, 78p., eng) **35-3559**

History and critique of Operation Highjump Rose, L.A., (1980, 292p., eng) **35-3630**

Potential schemes for offshore Labrador year round production. Wetzel, V.F., et al. (1980, p.293-305, eng) **35-3631**

Microwave observation of the Weddell polynya Carsey, F.D., (1980, p.2032-2044, eng) **35-3649**

Bering Sea ice edge properties Bauer, J., et al. (1980, p.2045-2055, eng) **35-3650**

FGGE Arctic data buoy program Thorndike, A.S., (1980, p.2097-2099, eng) **35-3655**

Research in sea ice mechanics (1981, 80p., eng) **35-3657**

Under-ice circulation in a shallow lagoon, Beaufort Sea Matthews, J.B., (1981, p.223-234, eng) **35-3698**

Measure of Arctic sea ice characteristics using microwave scatterometry Jackson, B.L., et al. (1979, p.278-280, eng) **35-3707**

Proceedings of the Workshop on Sea Ice Field Measurement, St. John's, 1980 (1980, 360p., eng) **35-3835**

Relationship of stress and strain in sea ice Dennett, W.W., (1980, p.5-32, eng) **35-3836**

Small scale surface strain measurement on sea ice Murat, J.R., (1980, p.55-74, eng) **35-3838**

Measurement of finite strain in sea ice by impulse radar techniques Stander, E., et al. (1980, p.127-164, eng) **35-3841**

Tubular transducer for in situ stress measurements in sea ice Frederking, R., (1980, p.165-192, eng) **35-3842**

ONI ice stress sensor Johnson, J.B., et al. (1980, p.193-207, eng) **35-3843**

Monitoring sea ice ridgebuilding and stresses Biswas, N.N., et al. (1980, p.209-236, eng) **35-3844**

Oil, ice and gas (1980, 169p., eng) **35-3867**

Summary of AMOP oil-ice-gas interaction studies Thornton, D.E., (1980, p.3-5, eng) **35-3868**

Countermeasures equipment for ice-covered ice-infested waters Meikle, K.M., (1980, p.7-11, eng) **35-3869**

Research in oil, gas and ice at the University of Toronto Mackay, D., et al. (1980, p.27-31, eng) **35-3871**

Transport and behaviour of a Prudhoe Bay oil spill. Pritchard, R.S., (1980, p.103-109, eng) **35-3879**

Arctic navigation past, present and future Mayhourn, R., (1981, p.1-18, eng) **35-3906**

Ocean circulation, fronts and ice melting in the Chukchi Sea Paquette, R.G., et al. (1981, p.4215-4230, eng) **35-3911**

Measurement of sea ice microwave properties Troy, B.E., et al. (1981, p.4283-4289, eng) **35-3914**

Oceanography of Canadian waters LeBlond, P.H., comp. (1978, p.207-233, eng) **35-3927**

Barrage technique of leading ships through sea ice Shil'nikov, V.I., (1981, p.32-37, rus) **35-3939**

Methods of determining ice deterioration Komov, N.I., (1981, p.51-55, rus) **35-3944**

Ice deterioration in the Dickson Island area Komov, N.I., (1981, p.59-64, rus) **35-3946**

Genetic-morphologic classification of cracks in ice covers Borodachev, V.E., (1981, p.79-84, rus) **35-3950**

Cracks in stationary sea and lake ice Kalesnik, S.I., (1981, p.85-89, rus) **35-3951**

Correlation between geometric parameters of ice floes Losev, S.M., (1981, p.92-96, rus) **35-3953**

Relationship between ice drift and atmospheric pressure Gorbunov, Iu.A., (1981, p.97-103, rus) **35-3954**

Ice cover mobility in the Long Strait Gorbunov, Iu.A., (1981, p.110-113, rus) **35-3956**

Measuring ice cover thickness in summer Lazarev, F.I., (1981, p.113-116, rus) **35-3957**

Peculiarities of spatial variations in ice packing Losev, S.M., (1981, p.120-128, rus) **35-3959**

Morphometric characteristics of drifting ice in Long Strait Gorbunov, Iu.A., et al. (1981, p.129-136, rus) **35-3960**

Maritime services to support polar resource development (1981, 78p., eng) **35-4042**

Bering Sea ice-edge phenomena Martin, S., et al. (1980, p.189-211, eng) **35-4140**

Eastern Bering Sea ice dynamics and thermodynamics Pease, C.H., (1980, p.213-222, eng) **35-4141**

Anticipated oil-ice interactions in the Bering Sea Martin, S., (1980, p.223-243, eng) **35-4142**

Ice gouging on the subarctic Bering shelf Thor, D.R., et al. (1980, p.279-302, eng) **35-4145**

Statistical features of sea ice ridging in the Gulf of Bothnia Lepparanta, M., (1980, 46p., eng) **35-4181**

Polex-North-76 (scientific results) Part 2 Treshnikov, A.F., ed. (1979, 194p., rus) **35-4182**

Complex full-scale experiment "Ilana" Gudkovich, Z.M., et al. (1979, p.7-15, rus) **35-4183**

Ice conditions in Laptev Sea Gudkovich, Z.M., et al. (1979, p.16-19, rus) **35-4184**

Ice cover reflectivity in the Laptev Sea Appel', I.I., et al. (1979, p.27-31, rus) **35-4185**

Calculating heat spent for sea ice melting Gudkovich, Z.M., (1979, p.21-27, rus) **35-4186**

Hydrologic observations in Laptev Sea Gudkovich, Z.M., et al. (1979, p.38-44, rus) **35-4187**

Ice drift in the Laptev Sea Gorbunov, Iu.A., et al. (1979, p.45-65, rus) **35-4188**

Ice transfer through the New Siberian straits Gorbunov, Iu.A., (1979, p.66-72, rus) **35-4189**

Ice disintegration due to thermodynamic processes Losev, S.M., (1979, p.82-91, rus) **35-4191**

Grounded ice hummocks in Arctic seas Gorbunov, Iu.A., (1979, p.107-110, rus) **35-4193**

Canadian field activities in ice engineering, Pt. 1 Nakawo, M., (1981, p.107-114, jap) **35-4270**

General conditions in arctic areas. Karri, J., [1981, 56p + 5 figs., fin] 35-4293
Bibliography of continental shelf development, Alaska. Rosier, K., [1977, 415p., eng] 35-4317

Sea ice distribution

Sea ice: its characteristics, distribution and role in human affairs. Ferguson, N.B., [1980, p.169-176, eng] 35-49
POAC '79, Trondheim, Norway, Aug. 1979, Vol.3. [1979, 608p., eng] 35-161
On the drift ice conditions in the Atlantic sector of the Antarctic. Vinje, T.E., [1979, p.75-82, eng] 35-164
Radar data for navigation of coastal and ice covered areas. Worsfold, R.D., et al. [1979, p.83-98, eng] 35-165
Positioning in polar regions. Osterholt, P.A., [1979, p.125-137, eng] 35-167
Underground technology for offshore hydrocarbon development in Antarctica. Spetistoesser, J.F., [1979, p.233-245, eng] 35-173
Overview on the seasonal sea ice zone. Weeks, W.F., et al. [1979, p.320-337, eng] 35-178
Ice and iceberg studies using state-of-the-art remote sensing. Lowry, R.T., et al. [1979, p.551-569, eng] 35-180
Research priorities for Arctic ships. Voelker, R.P., [1979, p.571-581, eng] 35-181
Antarctic ice charts, 1977-1978. [1978, 105p., eng] 35-532
Oilspill in pack ice. [1980, 231p., eng] 35-544
Proceedings. [1980, 505p., eng] 35-545
Remote sounding of sea ice-past, present and future applications. Mercer, J.B., [1980, p.1-22, eng] 35-546
Sea ice thickness in relation to pressure ridge heights and depths. Wadhams, P., [1980, p.53-75, eng] 35-548
Seasonal variation of total antarctic sea ice area, 1973-75. Zwally, H.J., et al. [1979, p.102-103, eng] 35-673
Fast ice regimes of the Beaufort and Chukchi Sea coasts, Alaska. Barry, R.G., et al. [1979, p.129-152, eng] 35-699
Sea ice features of the eastern Arctic from radar data. Ketchum, R.D., Jr., et al. [1980, 14p. + 24 figs., eng] 35-841
Robeson Channel ice drift and oceanographic measurements, 1970-1975. Dunbar, M., et al. [1980, 24p. + 125 figs., eng] 35-887
Bibliography on northern sea ice and related subjects. Bradford, J.D., comp. [1980, 194p., eng] 35-890
Variations of August ice cover in the Beaufort Sea. Dey, B., [1980, p.213-217, eng] 35-894
Satellite data on antarctic ice conditions. Dobromyslov, V.N., [1978, p.99-102, rus] 35-1002
Horizontal coherency of the motion of summer Arctic sea ice. Colony, R., et al. [1980, p.1281-1289, eng] 35-1052
Oceanography of the d'Iberville Fiord, N.W.T., Mar.-Apr. 1974. [1975, 139p., eng] 35-1058
Review of technology for Arctic offshore oil and gas recovery, Vol.1. Sackinger, W.M., [1980, 95p., eng] 35-1061
Report of the Workshop on Arctic Oil and gas Recovery, 1980. Sackinger, W.M., [1980, 38p., eng] 35-1062
Oil and ice in the Beaufort Sea. Wadhams, P., [1980, p.23-35, eng] 35-1114
Arctic sea-ice variations from time-lapse passive microwave imagery. Campbell, W.J., et al. [1980, p.99-106, eng] 35-1115
Passive microwave imagery of sea ice at 33 GHz. Ketchum, R.D., et al. [1980, p.211-223, eng] 35-1128
Geologic processes on the Beaufort Sea shelf (Oct.-Dec. 1979). Barnes, P., et al. [1980, p.193-249, eng] 35-1158
Oceanographic measurements in the Chukchi Sea, April-August 1977. Garrison, G.R., et al. [1979, 131p., eng] 35-1581
Arctic sea ice and atmospheric circulation. Johnson, C.M., [1980, p.1782-1791, eng] 35-1720
On the drift and deformation of sea ice fields in the Bothnian Bay. Leppäranta, M., [1980, 79p., eng] 35-1758
North Atlantic ice conditions, 1979. [1979, 64p., eng] 35-1759
Marine life and biogeography of the Canadian Eastern Arctic. Dunbar, M.J., et al. [1980, 119p., eng] 35-1760
Heat budgets of the Southeast Beaufort Sea for the years 1974 and 1975. Tummers, E.L., [1980, 204p., eng] 35-1777
Free drift of sea ice: a comparison of models. Gaskill, H.S., et al. [1980, 132p., eng] 35-1845
Sea ice, temperature variations, and atmospheric changes in the Bering Sea. Niebauer, H.J., [1980, p.7507-7515, eng] 35-1912
Ice drift forecasting in the Bay and Sea of Bothnia. Udin, I., et al. [1976, 40p., eng] 35-2056
Divergence and rotation of an ice field off Okhotsk Sea coast of Hokkaido. Tabata, T., et al. [1980, p.273-282, eng] 35-2170
Antarctic climatic research. Dolgin, I.M., ed. [1980, 206p., rus] 35-2178
Thermobaric and ice conditions South Ob'[illegible] region. Petrov, L.S., et al. [1980, p.59-65, rus] 35-2180
Winter climatic conditions in the Somov Sea. Petrov, L.S., et al. [1980, p.72-78, rus] 35-2181
Global circulation model of ocean, atmosphere and sea ice. Washington, W.M., et al. [1980, p.1887-1908, eng] 35-2472
Stochastic dynamic analysis of polar sea ice variability. Lemke, P., et al. [1980, p.2100-2120, eng] 35-2473
Sea ice atlas of Arctic Canada 1969-1974. Lindsay, D.G., [1977, 219p., eng] 35-2630
Icebergs. Wang, C., [1979, p.82-83, chi] 35-2909
Eastern-western Arctic sea ice analysis. [1979, 104p., eng] 35-2928
Review of sea-ice weather relationships in the Southern Hemisphere. Ackley, S.F., [1981, p.127-159, eng] 35-3026
Variations of sea ice conditions in Lützow-Holm Bay area, in Antarctica in the last 20 years. Kusunoki, K., [1981, p.171-176, eng] 35-3028
Atmospheric trace gases in association with sea ice. Gosink, T.A., [1980, p.82-83, eng] 35-3186
Seismotectonic studies of western Alaska and sea ice studies in Beaufort Sea. Biswas, N.N., et al. [1981, p.575-618, eng] 35-3250
Environmental assessment of the Alaskan continental shelf, Vol.4. Hazards. [1981, 677p., eng] 35-3255
Geologic processes of the Beaufort Sea shelf and coast. Barnes, P., et al. [1981, p.257-355, eng] 35-3261
Super sea-ice kettles in the arctic nearshore zone Reindeer Island. Reimnitz, E., et al. [1981, p.344-355, eng] 35-3266
Spaceborne monitoring of Canadian Arctic winter sea ice dynamics. Dey, B., [1981, p.3223-3235, eng] 35-3372
Proceedings of the International Geoscience and Remote Sensing Symposium, 1981. [1981, 755p., eng] 35-3432
Observation of sea ice properties with the NIMBUS-7 SMMR. Cavalieri, D.J., et al. [1981, p.69-78, eng] 35-3433
NORSEX project to study ice-ocean dynamics. Farrally, B.A., et al. [1981, p.86-88, eng] 35-3436
Satellite observations of the ice edge in coastal areas from Queen Maud Land to the Filchner Ice Shelf. Gernandt, H., [1979, p.127-131, ger] 35-3489
Greenland remote sensing studies using NOAA-5 satellite data. [1980, 65p., fre] 35-3551
International Geoscience and Remote Sensing Symposium, 1981, Vol.2. [1981, p.755-1461, eng] 35-3585
Microwave radiance of early fall sea ice at 1.55 cm. Carsey, F.D., et al. [1981, p.989-994, eng] 35-3590
Ice distribution and winter surface circulation, Kachemak Bay, Alaska. Gatto, L.W., [1981, p.995-1001, eng] 35-3591
Construction of artificial drilling islands in the Beaufort Sea. Boone, D.J., [1980, p.187-195, eng] 35-3633
Mooring systems and rig anchor release in drilling operations, Arctic. Lasch, J.E., et al. [1980, p.339-344, eng] 35-3638
South polar surface energy balance variations. Weller, G., [1980, p.2006-2014, eng] 35-3646
Eastern Bering Sea ice processes. Pease, C.H., [1980, p.2015-2023, eng] 35-3647
Sea ice simulation from a global circulation model. Parkinson, C.L., et al. [1980, p.2080-2091, eng] 35-3653
Arctic Canada sea ice and weather conditions, summer 1978. Dey, B., [1980, p.2092-2097, eng] 35-3654
Final SURSAT Ice Workshop, Toronto, 1980. [1981, 7 sections, eng] 35-3656
Bering Sea ice project. [1980, 34p., eng] 35-3675
Cruise report of ice feature observations from the *CCGS Franklin*, summer 1979. Winsor, W.D., et al. [1980, 104p., eng] 35-3701
Ice conditions in Viscount Sound, Northwest Passage. Allan, A.J., [1980, p.77-104, eng] 35-3702
Seasonal ice outlook eastern Arctic, 1981. [1981, 2 pieces (15 + 3p.), eng] 35-3769
Problems presented by ice cover to oilspill clean-up in the Beaufort Sea. McGonigal, D., [1980, p.13-25, eng] 35-3870
Variations in antarctic sea ice distribution. Dobromyslov, V.V., et al. [1981, p.40-44, eng] 35-3904
Seasonality of Southern Ocean sea ice. Gordon, A.L., [1981, p.4193-4197, eng] 35-3910
Problems of the Arctic and the Antarctic, collection of articles; Vol. 48, 1976. Treshnikov, A.F., ed. [1981, 173p., eng] 35-4129
Calculation of air temperature in numerical models of redistribution of ice. Appel', I.L., [1981, p.23-28, eng] 35-4130
Salinity and thermal state of Bering Sea waters as indices of development of the Chukchi flaw lead in June. Arikainen, A.I., [1981, p.75-82, eng] 35-4134
Eastern Bering Sea shelf: oceanography and resources. Hood, D.W., ed. [1980, 625p., eng] 35-4136
Recent fluctuations in sea ice distribution in the eastern Bering Sea. Niebauer, H.J., [1980, p.133-140, eng] 35-4137
Ice growth and distribution in the Bering Sea. McNutt, S.L., [1980, p.141-165, eng] 35-4138
Nearshore ice characteristics in the eastern Bering Sea. Stringer, W.J., [1980, p.167-187, eng] 35-4139
Ice regime of Norton Sound, Bering Sea. Kay, V.M., et al. [1980, p.263-278, eng] 35-4144
Airborne multifrequency radiometry of sea ice. Skou, N., [1980, 198p., eng] 35-4247

Sea level

Pleistocene geology of Amchitka Island, Aleutian Islands, Alaska. Gard, L.M., Jr., [1980, 38p., eng] 35-990
Sea level, ice and climatic change. Proceedings of the Symposium, 7-8 Dec. during the 17th General Assembly of IUGG, Canberra. Allison, I., ed. [1981, 471p., eng] 35-3017
Total gas content of ice and past changes of the northwest Greenland ice sheet. Raynaud, D., et al. [1981, p.235-237, eng] 35-3034
Climatic change, ice sheets and sea level. Flohn, H., [1981, p.431-440, eng] 35-3041
Permafrost in submerged areas of northern Bering Sea. Hopkins, D.M., [1981, p.188-202, eng] 35-3260
Antarctic precipitation and global sea level. Oerlemans, J., [1981, p.770-772, eng] 35-3364
Ice sheets and ice melts. Emiliani, C., [1980, p.82-91, eng] 35-3905

Sea spray

Superstructure icing study. Wise, J.L., et al. [1980, 10p + figs., eng] 35-2582
Vessel icing: know where to expect it. Comiskey, A., [1976, p.6-7, eng] 35-3924
Vessel icing forecasts. Ball, J., [1979, p.10-11, eng] 35-3925
Thermal regime of current-conducting deicing coating. Avrutov, E.A., [1981, p.90-101, eng] 35-4135

Sea water

Estuarine salinity of Arctic seas. Brezgunov, V.S., et al. [1980, p.101-105, rus] 35-469
Upward salt movement when ocean surface freezes or melts. Parkinson, C.L., [1979, p.103-104, eng] 35-674
Cl-36 in polar ice, rainwater and seawater. Finkel, R.C., et al. [1980, p.983-986, eng] 35-1536
Global circulation model of ocean, atmosphere and sea ice. Washington, W.M., et al. [1980, p.1887-1908, eng] 35-2472
Topographic control of the polar front off southern Greenland. Sommerhoff, G., et al. [1979, p.63-69, ger] 35-2645
Acoustic fluctuations due to the temperature fine structure of the ocean. Unni, S., et al. [1981, p.676-680, eng] 35-2801
Chemical oceanography in the southern Beaufort Sea, 1974-1975. Wong, C.S., et al. [1980, 51p., eng] 35-2946
Miocene stable isotope record. Woodruff, F., et al. [1981, p.665-668, eng] 35-3137
Study of the large scale cooling in the Bay of Bothnia. Sahlberg, J., et al. [1980, 32p., eng] 35-3699
Salinity and thermal state of Bering Sea waters as indices of development of the Chukchi flaw lead in June. Arikainen, A.I., [1981, p.75-82, eng] 35-4134
Exchange crystallization freeze desalination process. Johnson, D.W., et al. [1976, p.231-240, eng] 35-4295

Sealing

Rubber seal elasticity in freezing weather. Mar'inskii, M.M., et al. [1980, p.15, rus] 35-462
Improving watertightness of large panel buildings. Omel'chenko, A.A., et al. [1980, 95p., rus] 35-1575

Seasonal ablation

Studies of the perennial snow patch in Karasawa, Hotakadake. Ken, K., et al. [1979, p.165-170, jap] 35-264
Location, morphology, mass balance and ablation of snow on Hakusan Mount. Matsuoka, H., et al. [1979, p.171-180, jap] 35-265
Simple parameterization for ice sheet ablation rate. Pollard, D., [1980, p.384-388, eng] 35-1168
Melting of antarctic fast ice. Nazintsev, Iu.L., [1980, p.97-101, rus] 35-1460

Seasonal freeze thaw

Soil water migration in seasonally frozen zones. Zhou, Y., [1980, p.46-53, chi] 35-89
Active layer at the south foot of Tanggula Shan. Toung, B., et al. [1980, p.19-24, chi] 35-121
Geocryologic altitudinal zonation of northern Tien Shan. Gorbunov, A.P., et al. [1979, p.67-83, rus] 35-189
Soil formation on paleocryogenic fines. Gorbunova, I.A., [1979, p.122-130, rus] 35-194
Loose surface deposits of the Angara River area. Gorbachev, V.N., [1980, p.21-39, rus] 35-297
Climatic maps for road construction. Efimenko, V.N., et al. [1980, p.19-21, rus] 35-481
Snowmelt infiltration into seasonally frozen soils. Kane, D.L., [1980, p.153-161, eng] 35-730
Blasting frozen ground. Frash, G.B., et al. [1980, p.20-22, rus] 35-782
BM-305 drill-crane for frozen ground. Satsukevich, K.P., [1980, p.9-10, rus] 35-923
Classification of cryogenic processes. Vtiurin, B.I., et al. [1980, p.13-22, rus] 35-950
Virgin spruce forests of southern taiga. Orlov, A.IA., et al. [1980, p.38-45, rus] 35-955
Thermodynamical study of the Martian permafrost. Coradini, M., et al. [1979, p.8115-8130, eng] 35-1103
Low temperature effect on soil microorganisms. Bakhov, P.Kh., [1974, p.15-22, rus] 35-1203
Growth of bacteria in frozen soils. Tokhver, V., [1974, p.56-60, rus] 35-1205

Seasonal freeze thaw *(cont.)*
Studying growth of microorganisms in freezing soils. Rakhno, P.Kh., (1974, p.61-67, rus) **35-1206**
Frost effect on nitrogen transformations in soils. Khonnolainen, G., et al, (1974, p.136-139, rus) **35-1211**
Microorganisms of West Siberian soils. Klevenskaia, I.I., (1974, p.146-149, rus) **35-1213**
Thawing and freezing in tundra soils. Ryden, B.E., et al, (1980, p.251-281, eng) **35-1484**
Foundations on deeply freezing sands. Dokuchaev, V.V., et al, (1973, p.3-11, rus) **35-1597**
Subsurface drainage systems in soil freezing zones. Shtykov, V.I., (1980, p.53-56, rus) **35-1638**
Rational seasonal load restrictions and overload permits. Connor, B., (1980, 52p., eng) **35-1681**
Mathematical models of cryogenic slope processes. Pozdniakov, V.V., et al, (1980, p.54-60, rus) **35-1764**
Environmental engineering, Yukon River-Prudhoe Bay Haul Road. Brown, J., ed, (1980, 187p., eng) **35-1768**
Haul Road performance and associated investigations in Alaska. Berg, R.L., (1980, p.53-100, eng) **35-1770**
Hydrology of northern swamps. Babikov, B.V., (1980, p.14-26, rus) **35-1861**
Roadbed design for permafrost areas. Mikhailov, G.D., (1981, p.12-15, rus) **35-2098**
Thermal conductivity of frozen of thawed concretes. Sobol', S.V., (1980, p.109-111, rus) **35-2104**
Water and sewer utilities for Barrow, Alaska. Leman, L.D., (1980, p.484-506, eng) **35-2135**
Soil preservation in permafrost and deep seasonal freezing areas. Kovda, V.A., et al, (1980, p.5-8, rus) **35-2252**
Concepts, terminology and classification of freezing soils. Sokolov, I.A., et al, (1980, p.9-10, rus) **35-2253**
Thermal resources of soils with deep seasonal freezing. Chigir, V.G., (1980, p.55-58, rus) **35-2269**
Chemical element transfer in freezing soils. Zolotareva, B.N., et al, (1980, p.65-66, rus) **35-2272**
Thermal regime of deeply freezing forest soils. Gorbachev, V.N., (1980, p.69-70, rus) **35-2274**
Litter formation in seasonally freezing forest soils. Krupskaia, L.T., (1980, p.85-86, rus) **35-2282**
Relation between water-intake types in rivers and soil temperature. Solomennik, S.F., (1980, p.150-151, rus) **35-2302**
Geocryology of the Khangay Mountains (Mongolia). Chigir, V.G., (1980, p.175-177, rus) **35-2310**
Chilled gas pipeline: frost-heave design. Svec, O.J., (1981, p.705-718, eng) **35-2532**
Scientific conference of Karelian biologists. Komulainen, A.A., ed, (1970, 167p., rus) **35-2613**
Freeze thaw of peat soils. Piatetskii, G.E., (1970, p.91-93, rus) **35-2617**
Tundra and analogous soils. Everett, K.R., et al, (1981, p.139-179, eng) **35-2705**
Tundra vegetation in relation to microtopography near Atkasook, Alaska. Peterson, K.M., et al, (1980, p.473-482, eng) **35-3200**
Design and construction of drainage systems. Tulaev, A.I.A., (1980, 191p., rus) **35-3233**
Seasonally freezing layer in the Lake Baykal area. Zabolotnik, S.I., et al, (1980, p.106-113, rus) **35-3323**
Seasonal cryolithozone in Central Siberia. Zabolotnik, S.I., et al, (1980, p.113-120, rus) **35-3324**
Cryogenic structure of eluvium in southwestern Yakutia. Spesivtsev, V.I., (1980, p.167-173, rus) **35-3334**
Chart of ground water movement in East Siberia. Piguzova, V.M., (1980, p.135-138, rus) **35-4003**
Climate and permafrost in areas of low winter snow-cover. Harris, S.A., (1981, p.64-70, eng) **35-4053**
Microband fabric in seasonally frozen soils. Mermut, A.R., et al, (1981, p.578-586, eng) **35-4082**
Soil and permafrost surveys in the Arctic. Linell, K.A., et al, (1981, 279p., eng) **35-4128**
Optimization of earthwork planning. Ratskevich, G.I., (1981, p.84-88, rus) **35-4289**
Calculating water flow in freezing pipes. Karaush, S.A., et al, (1981, p.117-122, rus) **35-4290**

Seasonal variations
Seasonal variation of total antarctic sea ice area, 1973-75. Zwally, H.J., et al, (1979, p.102-103, eng) **35-673**
Forecasting winter air temperature in West Siberia. Sorokina, L.P., (1971, p.29-38, rus) **35-757**
Shore erosion in artificial lakes of permafrost areas. Savkin, V.M., (1980, p.77-84, rus) **35-1335**
Road dust along the Haul Road, Alaska. Everett, K.R., (1980, p.101-128, eng) **35-1771**
Snow surveys in Idaho, Montana, Wyoming, Utah and Nevada, 1921-1979. Wilson, J.A., et al, (1980, 393p., eng) **35-1843**
Shore processes on Sakhalin Island. Nikol'skaia, V.V., (1976, p.64-68, rus) **35-1853**
Seasonal runoff volumes conditioned on forecasted total runoff volume. Hoshi, K., et al, (1980, p.1079-1084, eng) **35-1875**
Atmospheric circulation effect on Siberian climate. Sergeev, N.I., (1980, p.31-48, rus) **35-2487**
Far North air temperature and wind velocity variations in winter. Sorokina, L.P., (1980, p.41-51, rus) **35-3415**
Determining mean seasonal characteristics of ice conditions. Kirillov, A.A., et al, (1980, p.135-141, rus) **35-3504**
Modeling a variable thickness sea ice cover. Hibler, W.D., III, (1980, p.1943-1973, eng) **35-3514**
Seasonal growth and accumulation of N, P, and K by grass irrigated with wastes. Palazzo, A.J., (1981, p.64-68, eng) **35-3515**
Seasonality of Southern Ocean sea ice. Gordon, A.L., (1981, p.4193-4197, eng) **35-3910**
Measuring ice cover thickness in summer. Lazarev, E.I., (1981, p.113-116, rus) **35-3957**
Seasonal variations of weather in the non-chernozem zone. Kornilova, R.P., (1981, p.137-1-2, rus) **35-3973**
Meteorological and seasonal effects of snow chemistry of Ross Ice Shelf, Antarctica. Warburton, J.A., et al, (1981, p.17-37, eng) **35-4147**

Sediment transport
Mudflows, No.4. Vinogradov, Il'.B., ed, (1980, 148p., rus) **35-203**
Modeling the erosion-shear process. Stepanov, B.S., (1980, p.31-35, rus) **35-206**
Nivation cirques and rivers as self-organizing systems. Armand, A.D., (1980, p.3-15, rus) **35-778**
Formation of morainal deposits. Lavrushin, Iu.A., (1980, p.123-135, rus) **35-809**
Glacial lithogenesis under conditions of active volcanism. Geptner, A.R., (1980, p.136-146, rus) **35-810**
Sediment displacement in the Ottauquechee River 1975-1978. Martinson, C., (1980, 14p., eng) **35-974**
Stratigraphy and glacial sediments of central Arctic Ocean. Clark, D.L., et al, (1980, 57p. + maps, eng) **35-1844**
Hibernia and Ben Nevis seabed study; Polaris V Cruise report, June 1980. Amos, C.L., et al, (1980, 40p., eng) **35-1846**
Distribution and features of bottom sediments in Alaskan coastal waters. Sellmann, P.V., (1980, 50p., eng) **35-2598**
Genesis of basal till and sediment changes of the Roseg Glacier. Kilger, B., (1979, p.143-155, ger) **35-2641**
Sea ice shaping of Arctic shores and sediments. Martini, I.P., (1980, p.93-102, fre) **35-2959**
Sand dunes of Victoria Valley, Antarctica. Calkin, P.E., et al, (1974, p.189-216, eng) **35-3139**
Oceanographic and geologic processes on the Beaufort Sea coast. Truett, J.C., (1981, p.52-108, eng) **35-3254**
Morphology, erosion and barrier islands of the Beaufort Sea coast, Alaska. Hopkins, D.M., et al, (1981, p.178-186, eng) **35-3259**
Depth of glacial erosion in Greenland and North America. Laine, E.P., (1980, p.188-198, eng) **35-3679**
Effects of placer mining on hydrologic systems in Alaska. Madison, R.J., (1981, 25p., eng) **35-3813**
Geocryological processes in the Far East. Shumilov, Iu.V., (1976, p.46-54, rus) **35-3829**
Erosion and deposition on Arctic shelves. Pavlidis, Iu.A., et al, (1981, p.33-96, rus) **35-3887**
Sedimentation in a glacier-fed lake. Smith, N.D., (1981, p.75-82, eng) **35-4085**

Sedimentary rocks
Physical processes in perennially frozen conglomerates. Olovin, B.A., (1981, p.96-116, rus) **35-3288**

Sedimentation
Sedimentation on the Antarctic continental slope. Anderson, J.B., et al, (1979, p.265-283, eng) **35-327**
Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979. (1980, 534p., eng) **35-1150**
Morphology, sedimentation and oil spills near Kenai Peninsula and Montague I. Hayes, M.O., et al, (1980, p.5-13, eng) **35-1151**
Geologic processes of the Beaufort Sea shelf (April-June 1979). Barnes, P., et al, (1980, p.130-188, eng) **35-1156**
Sedimental process in Harding Lake. Kajihara, M., et al, (1980, p.24-35, eng) **35-1561**
Cryolithogenesis as an independent type of lithogenesis. Popov, A.I., (1979, p.7-25, rus) **35-1828**
Stratigraphy and glacial sediments of central Arctic Ocean. Clark, D.L., et al, (1980, 57p. + maps, eng) **35-1844**
Removal of organics by overland flow. Martel, C.J., et al, (1980, 9p., eng) **35-2052**
Geological, geochemical and geotechnical observations on the Bering Shelf, Alaska. Larsen, M.C., et al, (1980, Var.p., eng) **35-2538**
Sedimentation in proglacial Sunwapta Lake, Alberta. Gilbert, R., et al, (1981, p.81-93, eng) **35-2707**
Proceedings. (1980, 460p., eng) **35-2957**
Environmental assessment of the Alaskan continental shelf, Vol.5, Hazards. (1981, 659p., eng) **35-3234**
Sedimentological studies in lower Cook Inlet, Alaska. Rappeport, M.L., (1981, p.170-180, eng) **35-3238**
Deposition and erosion on the inner shelf, N.E. Bering Sea. Hunter, R.E., et al, (1981, p.332-267, eng) **35-3245**
Graded storm sand layers offshore from the Yukon Delta, Alaska. Nelson, C.H., (1981, p.368-388, eng) **35-3246**
Ocean basins and margins. Volume 5, The Arctic Ocean. Nairn, A.E.M., ed, (1981, 672p., eng) **35-3431**
Sedimentary and geomorphological consequences of the nated occurrence. Cegla, J., et al, (1977, p.63-84, eng) **35-3622**
Sedimentation in Lower Cook Linet, Alaska. Larrance, J.D., et al, (1979, p.269-282, eng) **35-3810**
Geocryological processes in the Far East. Shumilov, Iu.V., (1976, p.46-54, rus) **35-3829**
Erosion and deposition on Arctic shelves. Pavlidis, Iu.A., et al, (1981, p.33-96, rus) **35-3887**
Recent deposits and Pleistocene paleogeography of Chukotskiy Peninsula. Kaplin, P.A., ed, (1980, 295p., rus) **35-3930**
Sedimentation in a glacier-fed lake. Smith, N.D., (1981, p.75-82, eng) **35-4085**
Eastern Bering Sea shelf: oceanography and resources. Hood, D.W., ed, (1980, 625p., eng) **35-4136**
Sedimentation in the northern Bering Sea. Larsen, M.C., et al, (1980, p.247-261, eng) **35-4143**

Sediments
Evidence of climatic fluctuation in Quaternary deposit involution layers. Tang, Y., (1980, p.41-45, chi) **35-87**
Microbial activities and Canadian river-bank materials and sediments. Albright, L.J., et al, (1980, p.1363-1366, eng) **35-115**
Spilled oil retention potential. Beaufort Sea coast of Alaska. Nummedal, D., et al, (1979, p.247-253, eng) **35-174**
Spore-pollen analysis of recent tundra deposits. Savvinova, G.M., (1980, p.85-91, rus) **35-287**
Pliocene marine sediments of southern McMurdo Sound area. Leckie, R.M., et al, (1979, p.54-56, eng) **35-645**
Cryolithology of the Mamontovaya Mountain formations. Kuznetsov, Iu.V., (1976, p.12-21, rus) **35-1145**
Recent and ancient glaciation of plains and mountainous regions of the USSR. Zubakov, V.A., ed, (1978, 131p., rus) **35-1420**
Buried glacier ice in West Siberia. Solomatin, V.I., et al, (1921, p.66-77, rus) **35-1422**
Bottom sediments under the Novolazarevskaya ice shelf. Kolobov, D.D., et al, (1980, p.93-96, rus) **35-1459**
Sediment-laden icebergs in antarctic waters. Anderson, J.B., et al, (1980, p.387-396, eng) **35-1502**
Geothermal conditions of sedimentary mantle in the Siberian Platform. Slavin, V.I., et al, (1980, p.5-13, rus) **35-1570**
Palynology of Pinedale sediments, Devlins Park, Boulder County, Colorado. Legg, T.E., et al, (1980, p.319-333, eng) **35-1668**
Analysis of sedimentary facies in South Muzart Valley, Tian Shan. Tang, Y., (1980, p.83-86, chi) **35-2679**
Size analysis of glacial sediments. Gu, G., (1980, p.91-92, chi) **35-2682**
Relation of lake-sediment composition to mineralization. Nichol, I., et al, (1975, p.112-125, eng) **35-2739**
Geochemical drainage dispersion from sulphide mineralization. Mehrtens, M.B., et al, (1973, p.1-10, eng) **35-2742**
Some cognizance of the formation of glacial melt-water sedimentation. Zhang, H., (1980, p.59-60, chi) **35-2921**
Morphology of the Onyx River system, McMurdo Sound region, Antarctica. Shaw, J., et al, (1980, p.223-238, eng) **35-2953**
Sea ice shaping of Arctic shores and sediments. Martini, I.P., (1980, p.93-102, fre) **35-2959**
Beach thaw depth on Canadian Arctic Islands. (1980, p.103-121, fre) **35-2960**
USCGC *Glacier* Deep Freeze 80. Anderson, J.B., et al, (1980, p.58-75, eng) **35-3191**
Formation of sediment-laden sea ice. Osterkamp, T.E., et al, (1981, p.641-662, eng) **35-3268**
Radiocarbon date list 1; Labrador and northern Quebec, Canada. Short, S.K., comp, (1981, 33p., eng) **35-3681**

Seepage
Frozen core earth dams. Kronik, IA.A., et al, (1980, p.52-55, rus) **35-8**
Snowmelt infiltration into seasonally frozen soils. Kane, D.L., (1980, p.153-161, eng) **35-730**
Water seepage in flooded dams. Ivanov, D.I., (1979, p.60-65, rus) **35-1625**
Soil infiltration on land treatment sites. Abele, G., et al, (1980, 41p., eng) **35-1726**
Removal of organics by overland flow. Martel, C.J., et al, (1980, 9p., eng) **35-2052**
Cost of land treatment systems. Reed, S.C., et al, (1979, 135p., eng) **35-2464**
Land treatment of wastewaters for rural communities. Reed, S.C., et al, (1975, p.23-39, eng) **35-2568**
Energy and costs for agricultural reuse of wastewater. Sletten, R.S., et al, (1980, p.339-346, eng) **35-2572**
Land treatment systems and the environment. McKim, H.L., et al, (1979, p.201-225, eng) **35-2752**
Seepage alimentation of glaciers. Bazhev, A.B., (1980, p.73-81, 147-154, rus) **35-2820**
Chemical composition of waters infiltrating seasonally thawing sands. Anisimova, N.P., (1980, p.82-90, rus) **35-3997**
Water seepage from Lake Syrdakh. Tishin, M.I., (1980, p.90-97, rus) **35-3998**
Formation of meltwater losses. Kaliuzhnyi, I.I., et al, (1981, 160p., rus) **35-4311**

Seismic prospecting
Geophysical investigation of the dome C area. Bentley, C.R., et al, (1979, p.98-100, eng) **35-670**
Field operation of explosion seismic experiment in Antarctica. Ikami, A., et al, (1980, p.158-182, jap) **35-1056**

Geophysical methods of studying permafrost in the USSR. Akimov, A.T., et al. [1980, 51p., rus] 35-1928
Seismic evidence for a gas-bearing layer in Prudhoe Bay. Boucher, G., et al. [1981, p.63-71, eng] 35-2419
Dome C geophysical survey, 1979-80. Shabtaie, S., et al. [1980, p.2-5, eng] 35-3165

Seismic reflection

Distribution of gas-charged sediments in Norton Basin, Bering Sea. Holmes, M.L., et al. [1981, p.261-287, eng] 35-3242
Faulting in Norton Sound and Chirikov Basin, Alaska. Johnson, J.L., et al. [1981, p.420-444, eng] 35-3248

Seismic refraction

Seismic refraction measurements from sea ice in western McMurdo Sound. McGinnis, L.D. [1979, p.34-35, eng] 35-638
Seismic refraction studies in western McMurdo Sound. McGinnis, L.D. [1980, p.11, eng] 35-3166
Beaufort seacoast permafrost studies. Rogers, J.C., et al. [1981, p.1-44, eng] 35-3235
Gas inclusions in subsea permafrost, Prudhoe Bay, Alaska. Boucher, G., et al. [1981, p.276-283, eng] 35-3262

Seismic surveys

Aerial survey of ice thickness of the Dufek Massif. Behrendt, J.C., et al. [1980, p.1014-1017, eng] 35-218
Seismic wave velocities in frozen and thawed rocks. Dzhurik, V.I. [1980, p.96-103, rus] 35-776
Geophysical evidence of shallow nearshore permafrost, Prudhoe Bay, Alaska. Rogers, J.C., et al. [1980, p.4845-4853, eng] 35-1117
Features of permafrost beneath the Beaufort Sea. Sellmann, P.V., et al. [1980, p.103-110, eng] 35-1153
Offshore permafrost studies, Beaufort Sea, Alaska. Hartz, R.W., et al. [1980, p.111-122, eng] 35-1154
Preliminary estimate of ice cover flow in Antarctica using seismic data. Sytnskii, A.D., et al. [1980, p.36-40, rus] 35-2029
Seismic and impact-pressure monitoring of flowing avalanches. Schaerer, P.A., et al. [1980, p.179-187, eng] 35-2360
Deepwater vibrator operations, Beaufort Sea, Alaska, 1979 winter season. Mertz, R.W., et al. [1981, p.172-181, eng] 35-2578
Measurement of permafrost table by portable seismograph. Zhou, F., et al. [1980, p.9-12, chi] 35-2651
Quaternary sedimentation and inferred glacier fluctuations, Scotland. Boulton, G.S., et al. [1981, p.39-51, eng] 35-2938
Environmental assessment of the Alaskan continental shelf, Vol.5, Hazards. [1981, 659p., eng] 35-3234
Synthesis report: environmental geology of Kodiak Shelf. Hampton, M.A. [1981, p.49-58, eng] 35-3236
Sedimentological studies in lower Cook Inlet, Alaska. Rappeport, M.L., [1981, p.170-180, eng] 35-3238
Observations of natural ice-micro-tremors of the Hans Glacier. Gorski, M., [1975, p.95-100, eng] 35-3612
Seismic detection of avalanches. Bonnet, G., [1980, p.30-41, fre] 35-3982

Seismic velocity

Seismic wave velocities in frozen and thawed rocks. Dzhurik, V.I., [1980, p.96-103, rus] 35-776
Construction of seismically stable structures on permafrost. Kharitonov, V.A., [1980, 79p., rus] 35-2872
Seismic velocity measurement in the Arctic Archipelago. Acheson, C.H., [1981, p.707-716, eng] 35-3061

Seismology

Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979. [1980, 534p., eng] 35-1150
Seismotectonic studies of western Alaska and sea ice studies in Beaufort Sea. Biswas, N.N., et al. [1981, p.575-618, eng] 35-3250
Environmental assessment of the Alaskan continental shelf, Vol.4, Hazards. [1981, 677p., eng] 35-3255

Sensor mapping

Global snow cover of 1978-79 as observed with the NIMBUS-7 SMMR. Kuenzi, K.F., et al. [1981, p.83-84, eng] 35-3435
Survey paper on remote sensing techniques to map snow cover. Barnes, J.C., [1981, p.123-132, eng] 35-3438

Settlement (structural)

Modeling hard rock slope resistance to earthquakes. Tselikov, E.I., et al. [1980, p.121-125, rus] 35-147
Deformation of buildings and foundations in permafrost areas. Barabanshchikov, S.G., et al. [1980, p.7-9, rus] 35-449
Deformation of peat bearing grounds. Kukushkin, V.A., et al. [1980, p.10-12, rus] 35-623
Studying clay shale deformation during thawing. Dokuchaev, V.V., et al. [1973, p.12-22, rus] 35-1598
Foundation design manual for buildings and structures. [1977, 276p., rus] 35-1711
Piles in permafrost for bridge foundations. Crory, F.E., et al. [1967, 41p., eng] 35-2753
Overconsolidated surficial deposits on the Beaufort Sea shelf. Reimnitz, E., et al. [1981, p.284-312, eng] 35-3263
Rig foundations for deep drilling in the North. Belotserkovskaia, G.V., [1981, p.12-13, rus] 35-3341
On the buried ice near the highway bridge at the Batura Glacier terminus. Shi, Y., [1980, p.166-172, chi] 35-4037

Sewage

Fundamentals of sanitation and hygiene in urban construction of the Novosibirsk region. Dobrinskii, A.A., et al. [1974, 118p., rus] 35-805
Ground freezing halts sewer collapse. [1980, p.85, eng] 35-1698

Sewage disposal

Sewage disposal and environmental impact in winter. Slaughter, R., et al. [1979, p.547-558, eng] 35-433
Township of Temagami: one alternative for servicing a northern community. Cooper, B.J., [1980, p.140-149, eng] 35-2115
Modified low-pressure communal sewage disposal systems. McAmmond, K.W., [1980, p.477-483, eng] 35-2134
Revegetation at two construction sites in New Hampshire and Alaska. Palazzo, A.J., et al. [1980, 21p., eng] 35-2586

Sewage treatment

Sewage treatment in northern settlements. Fedotov, V.P., [1980, p.20-21, rus] 35-600
Builder's guide to water and energy. Seifert, R.D., et al. [1980, 78p., eng] 35-2021
Cost of land treatment systems. Reed, S.C., et al. [1979, 135p., eng] 35-2464
Land treatment: present status, future prospects. Pound, C.E., et al. [1978, p.98-102, eng] 35-2760

Shaft sinking

Water seepage control in mining excavations. Shparber, P.A., [1980, p.41-44, rus] 35-868
Blasting artificially frozen rocks. Klochkov, V.F., et al. [1980, p.36-38, rus] 35-1358
Artificial freezing of rocks when sinking shafts. Kachur, V.D., et al. [1980, p.17-18, rus] 35-2636

Shafts (excavations)

Timbering, maintenance and preservation of mining excavations. Gritsko, G.I., ed. [1979, 114p., rus] 35-196
Timbering used in mines of permafrost areas. Plesnivtsev, V.V., [1979, p.64-67, rus] 35-198
Stability of mining excavations in permafrost. Sherstov, V.A., et al. [1980, 56p., rus] 35-1283
Heat and mass transfer in massive rocks and in underground structures. Kremnev, O.A., et al. [1980, 383p., rus] 35-2874
Utilization of explosive energy in construction. Danilenko, I.I., [1981, 167p., rus] 35-3531

Shear properties

Snow-pack structure: stability analyzed by pattern-recognition techniques. LaChapelle, E.R., et al. [1980, p.506-511, eng] 35-2392

Shear strain

Steady state velocities and temperatures in cold ice-sheets. Lliboutry, L., [1979, p.135-148, eng] 35-3723

Shear strength

Adhesive shear strength of ice to bonded solid lubricants. Jones, J.R., et al. [1972, p.464-471, eng] 35-274
Geotechnical properties of fine-grained permafrost soils. Roggensack, W.D., [1977, 449p., eng] 35-1467
Plate loading and vane-cone test measurements for fresh and sintered snow. Yong, R.N., et al. [1980, 32p., eng] 35-2010

Shear stress

Cohesion of snow at temperature gradients. Marbouty, D., et al. [1980, p.291-295, fre] 35-1371
Measurement of the shear stress on the underside of simulated ice covers. Calkins, D.J., et al. [1980, 11p., eng] 35-1723
Steady motion of ice sheets. Morland, L.W., et al. [1980, p.229-246, eng] 35-1819
Model for snow-slab failure under conditions of dynamic loading. Johnson, J.B., [1980, p.245-254, eng] 35-2367
Slip-velocity hypothesis of wind flow over a snow cover. Bergen, J.D., [1980, p.447-452, eng] 35-2385
Analysis of velocity profiles under ice in shallow streams. Calkins, D.J., et al. [1981, p.94-111, eng] 35-2545
Characteristics of flow below a rough floating cover. Gogus, M., et al. [1981, p.122-142, eng] 35-2547
Stress and velocity in an ice strip, using a Newtonian viscous approximation. Hutter, K., et al. [1980, p.385-403, eng] 35-3811
On plastic design of an ice-strengthened frame. Varsta, P., et al. [1978, 54p., eng] 35-4179

Shelters

Contractor support. Murphy, R.L., [1979, p.238-239, eng] 35-684
1980-81 ANARE report. [1980, 62p., eng] 35-1400
Summit house: forces and forms cooperating in an extreme environment. Goldstein, E.W., [1980, 103p., eng] 35-2236
New U.S. station for Antarctica. Esser, A.C., [1981, p.288-299, eng] 35-2510
Shelters for winter maintenance of equipment. Taits, V.G., [1981, p.10-12, rus] 35-4279
Automatically raising shelters for winter concreting. Kraitser, A.L., et al. [1981, p.21-24, rus] 35-4284

Ship icing

Atlases of hydrometeorological phenomena especially dangerous for sea navigation. Korniushin, O.G., et al. [1980, p.3-7, rus] 35-27
Determining icing conditions from satellite data. Bezuglyi, I., et al. [1980, p.28, rus] 35-1644
Icing on fishing vessels; some solutions. [1974, p.5, eng] 35-2248
Vessel's hull work in ice. Khristov, R., et al. [1981, p.47, rus] 35-3483
Design, testing, and shipboard evaluation of a heat pipe de-icing system. Okihara, T., et al. [1980, 6p., eng] 35-3770
Superstructure icing forecasting guide for Alaska waters. [1980, 5p., eng] 35-3790
Vessel icing - know where to expect it. Comiskey, A., [1976, p.6-7, eng] 35-3924
Vessel icing forecasts. Ball, J., [1979, p.10-11, eng] 35-3925
Thermal regime of current-conducting deicing coating. Avrutov, E.A., [1981, p.90-101, eng] 35-4135
Trawler icing: a compilation of work done at N.R.C. Stallabrass, J.R., [1980, 103p., eng] 35-4222

Ships

Positioning in polar regions. Osterholt, P.A., [1979, p.125-137, eng] 35-167
Research priorities for Arctic ships. Voelker, R.P., [1979, p.571-581, eng] 35-181
Deep Freeze 1980 Cruise Report. [1980, 72p., eng] 35-184
Seagoing passenger hovercraft "Chaika". Zotoastrov, V.K., et al. [1980, p.5-7, rus] 35-317
Designing ice-breaking cargo ships. Kashtelian, V.I., et al. [1979, p.4-6, rus] 35-319
Military air-cushion ships. Korytov, N., [1980, p.10-12, rus] 35-351
Cargo ships for ice navigation. Miroshnichenko, I.P., et al. [1979, p.3-14, rus] 35-536
Ship resistance in thick brash ice. Mellor, M., [1980, p.305-321, eng] 35-748
Projects for transportation technology in Canada, 1979. [1980, 83p., eng] 35-840
River transport in the North. Zhivotkevich, N., [1980, p.7-9, rus] 35-905
Ice navigation on rivers. Tronin, V., et al. [1980, p.10-11, rus] 35-906
Tug-boats for ice navigation. Grinbaum, A., et al. [1980, p.46-47, rus] 35-913
Ice navigation qualifications of raft tugs. Gorbunov, IU., [1980, p.33-35, rus] 35-917
Ice friction against ship's body. Vinogradov, E.S., [1976, p.86-90, rus] 35-935
Reinforcing fast ice for unloading military equipment. Zemlin, S., [1980, p.70-71, rus] 35-969
Determining propulsive performance of ships in ice. Malyi, P., et al. [1980, p.45, rus] 35-1605
Preventing the freezing of cargo. Sharapov, V., et al. [1980, p.17, rus] 35-1643
Hull resistance test in floe of synthetic ice. [1980, p.1-6, jap] 35-1963
River transport of the Baykal Amur railroad area. Degtiarev, V.V., et al. [1980, 89p., rus] 35-2966
Controlling iceberg roll stability during towing around drillships. Benedict, C.P., et al. [1981, p.109-114, eng] 35-3446
Vessel's hull work in ice. Khristov, R., et al. [1981, p.47, rus] 35-3483
History and critique of Operation Highjump. Rose, L.A., [1980, 292p., eng] 35-3630
Southcentral region of Alaska deep-draft navigation study. [1981, c140p. + 10 appends., eng] 35-3674
Arctic lubrication. [1981, p.186, 189, eng] 35-3697
Ice loads acting on the ship's hull during interaction with ice. Edwards, R., et al. [1980, p.237-274, eng] 35-3845
Field measurement of kinematic friction between ice and rigid structures. Comfort, G., et al. [1980, p.303-321, eng] 35-3847
Safety rules for docking ships under severe climatic conditions. Ivanov, L.V., et al. [1980, 152p., rus] 35-3897
On plastic design of an ice-strengthened frame. Varsta, P., et al. [1978, 54p., eng] 35-4179

Shock waves

Analysis of non-steady plastic shock waves in snow. Brown, R.L., [1980, p.279-287, eng] 35-1822
Propagation of stress waves in alpine snow. Brown, R.L., [1980, p.235-243, eng] 35-2366
Dynamic testing of free field stress gages in frozen soil. Aitken, G.W., et al. [1980, 26p., eng] 35-2601

Shore erosion

Conference on climate, relief and human activities. [1978, 155p., rus] 35-11
Badland topography in the Arctic. Korzhuev, S.S., [1978, p.95-96, rus] 35-15
Development of cryogenic relief in Pamirs and Tien Shan. Ermolin, E.D., [1979, p.88-105, rus] 35-191
Boguchany artificial lake. Ground water and engineering geology of the area. Odintsov, M.M., ed. [1979, 157p., rus] 35-278
Artificial lakes in permafrost areas. Kronik, IA.A., et al. [1980, p.120-129, rus] 35-766
Studies in the Lateglacial of north-west Europe. Lowe, J.J., ed. [1980, 205p., eng] 35-796
Influence of water runoff redistribution on the natural conditions of Siberia. Saks, V.N., ed. [1980, 184p., rus] 35-1331

Shore erosion *(cont.)*
Shore erosion in artificial lakes of permafrost areas. Savkin, V. M., (1980, p.77-84, rus) 35-1335
Influence of high water stage on shores of deep reservoirs of Siberia (the Krasnoyarsk reservoir taken as an example). Kuskovskii, V. S., (1980, p.140-143, rus) 35-1341
Erosion of northern sea shores. Arkhikov, E. L., et al, (1976, p.50-56, rus) 35-1852
Proceedings. (1980, 460p., eng) 35-2957
Shore erosion by ice. Dionne, J. C., (1980, p.80-92, fre) 35-2958
All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers. Treshnikov, A. F., ed, (1980, 147p., rus) 35-3103
River diversion effect on permafrost conditions of Arctic shores. Popov, B. A., et al, (1980, p.113-117, rus) 35-3127
Shore morphology and stratigraphy of Lake Hoytiainen, Finland. Vesajoki, H., (1980, 30p., eng) 35-3209
Morphology, erosion and barrier islands of the Beaufort Sea coast, Alaska. Hopkins, D. M., et al, (1981, p.178-186, eng) 35-3259
Periglacial forms produced by shore ice at Hornsund (Spitsbergen). Jahn, A., (1977, p.19-29, eng) 35-3619

Shoreline modification
Morphology, sedimentation and oil spills near Kenai Peninsula and Montague I. Hayes, M.O., et al, (1980, p.5-13, eng) 35-1151
Forecasting of subsea permafrost conditions in Chukchi and Beaufort Seas. Hopkins, D. M., et al, (1980, p.123-129, eng) 35-1155
Shoreline history and Beaufort Seas. Hopkins, D. M., et al, (1980, p.371-379, eng) 35-1159
River diversion effect on permafrost conditions of Arctic shores. Popov, B. A., et al, (1980, p.113-117, rus) 35-3127
Shore morphology and stratigraphy of Lake Hoytiainen, Finland. Vesajoki, H., (1980, 30p., eng) 35-3209
Prediction of offshore permafrost conditions. Smith, P. A., et al, (1981, p.159-255, eng) 35-3257

Shores
Methodology of forecasting natural phenomena in Siberia. Druzhinin, I. P., ed, (1980, 144p., rus) 35-148
[illegible] regions. Marcellus, R. W., et al, (1979, p.201-215, eng) 35-171
Spilled oil retention potential. Beaufort Sea coast of Alaska. Nummedal, D., et al, (1979, p.247-253, eng) 35-174
Boguchany artificial lake. Ground water and engineering geology of the area. Odintsov, M.M., ed, (1979, 157p., rus) 35-278
Water transfer of chemical elements in taiga landscapes. Kuz'min, V. V., (1973, p.23-32, rus) 35-765
Fire danger in different Far North landscapes. Snytkin, G. V., (1971, p.83-93, rus) 35-1394
Cryogenic soils of tundra lake landscapes. Eveev, A.V., (1980, p.173-174, rus) 35-2309
Composition and properties of Upper Pleistocene deposits of the Yana-Indigirka coastal lowland. Trush, N.I., et al, (1975, p.59-69, eng) 35-2401
Thermal regime of permafrost in Yakutia. Zaitsev, V.N., (1975, p.99-104, eng) 35-2403
General methodological aspects of radar signal interpretation. Kotiukh, A.A., (1980, p.203-210, eng) 35-2627
Sea ice shaping of Arctic shores and sediments. Martini, I.P., (1980, p.93-102, fre) 35-2959
Evaluation of Ontario shoreline protection materials. Carmichael, T.J., et al, (1980, p.248-262, fre) 35-2962
Biologic-floristic studies related to environmental protection in polar regions. Shliakov, R.N., ed, (1980, 149p., rus) 35-3062
Weeds growing on Arctic shores. Shliakova, E.V., (1980, p.117-131, rus) 35-3074
Plant communities of the White Sea shores. Breslina, I.P., (1980, p.132-143, rus) 35-3075
Palsa bogs, sand dunes and salt marshes, environmentally sensitive habitats in the coastal region southeastern Labrador. Roberts, B.A., et al, (1980, p.245-263, eng) 35-3096
Subsea permafrost in the Laptev Sea area. Fartyshev, A.I., et al, (1980, p.134-135, rus) 35-3133
Summer air temperature and precipitation in northern Alaska. Haugen, R.K., et al, (1980, p.403-412, eng) 35-3196
Geologic processes of the Beaufort Sea shelf and coast. Barnes, P., et al, (1981, p.257-355, eng) 35-3261
Bibliography of the engineering and environments of Arctic coasts and seas. (1977, 11p., eng) 35-3360
Natural resources of the northeastern USSR. Lozhkin, A.V., ed, (1976, 152p., rus) 35-3825
Climatic conditions of the Magadan Region. Mel'nikova, T.V., (1976, p.5-21, rus) 35-3826
Thermokarst lakes in the Anadyr lowlands. Riabchun, V.K., (1976, p.66-72, rus) 35-3831
U.S. Coast Guard Arctic oil spill research program. Tebeau, P.A., et al, (1980, p.111-128, eng) 35-3880
Erosion and deposition on Arctic shelves. Pavlidis, Iu.A., et al, (1981, p.33-96, rus) 35-3887
Origin of the Timpton springs. Artemenko, I.G., (1980, p.14-21, rus) 35-3990
Shoreline vegetation of the arctic Alaska coast. Taylor, R.J., (1981, p.37-42, eng) 35-4049
History of permafrost development in Eurasia as exemplified by its regions. Mel'nikov, P.I., ed, (1981, 198p., rus) 35-4065
Yamal Peninsula. Danilova, N.S., et al, (1981, p.84-91, rus) 35-4072

Side looking radar
Application of airborne radar surveying in geologic and geographic investigations. Glushkov, V.M., ed, (1981, 238p., rus) 35-3224
Bering Sea ice project. (1980, 34p., eng) 35-3675

Signy Island
Rate of peat accumulation in antarctic moss banks. Fenton, J.H.C., (1980, p.211-228, eng) 35-1170
Microbiology of an ice associated antarctic diatom. Whitaker, T.M., et al, (1980, p.250-257, eng) 35-1285
Simulation approach to primary production. Jones, H.E., et al, (1981, p.239-256, eng) 35-3382

Silver iodide
Ice formation on silver iodide particles. Gorbunov, B.Z., et al, (1980, p.57-63, rus) 35-768
Ice crystal formation on AgI particles. Medalev, Kh.Kh., et al, (1975, p.107-113, rus) 35-1618
Effect of aerosols on the ice-forming activity. Baklanov, A.M., et al, (1980, p.61-65, eng) 35-1778
Ice forming properties of AgI. Kim, N.S., (1980, p.89-98, rus) 35-2698
Using silver iodide in cloud seeding. Bakhanova, R.A., et al, (1980, p.98-101, rus) 35-2992
Free silver separating on AgI particles under ultraviolet irradiation. Bakhanova, R.A., (1980, p.102-106, rus) 35-2993

Sintering
Hydrogeology of karst in the Rawil region. Wildberger, A., (1981, 175p. + maps, ger) 35-4167

Site accessibility
Snow-modelling techniques at Baker Lake, N.W.T. Adam, K.M., et al, (1980, p.394-408, eng) 35-2130
Preparation of construction sites in cold regions. Pavlov, V.I., et al, (1981, p.23-25, rus) 35-4246

Site surveys
Spaceborne surveys of [illegible] development. Egorov, A.B., et al, (1978, p.101-102, rus) 35-17
Remote sensing for earth dam site selection and construction materials. Merry, C.J., et al, (1980, p.158-170, eng) 35-153
Surveying construction sites of the Baykal Amur railroad. Sochava, V.B., et al, (1975, p.3-12, rus) 35-791
Structural design and construction on permafrost. Il'rovskaia, A.P., et al, (1980, p.4-5, rus) 35-1031
Aerial surveys of pipeline construction sites. Karpov, V.G., et al, (1980, p.20-21, rus) 35-1301
Post occupancy evaluation of a planned community in Arctic Canada. Bechtel, R.B., et al, (1980, 27p., eng) 35-2596
Post occupancy evaluation for communities in hot or cold regions. Bechtel, R.B., et al, (1980, 57p., eng) 35-2600
Introduction to abiotic components in tundra. Brown, J., (1981, p.79, eng) 35-3377
Avalanches and planning. Schwarz, W., (1981, p.425-442, ger) 35-4216

Skid resistance
Rubber in asphalt may cut skidding; tests to gage road icing reduction. (1980, p.24, eng) 35-701
Rubber-ice friction and vehicle handling. Roberts, A.D., (1981, p.14-16, eng) 35-3920
Moist salt for skid prevention on highways. Hahn, S., et al, (1981, p.39-48, ger) 35-3984

Skis
Identification of lower extremity dynamics during snow skiing. Lee, C.W., et al, (1980, p.123-130, eng) 35-2154
Skiing. Perla, R., et al, (1981, p.709-740, eng) 35-3764
Mechanics of skis. Glenne, B., (1981, p.741-765, eng) 35-3765
Colloquium on Security and Freedom in the Mountains in Winter, 1980. (1981, p.64-87, fre) 35-4048
Dynamics of snow-skis. Piziali, R.L., (1970, 393p., eng) 35-4172

Sliding
Plowing blocks. Gorbunov, A.P., (1980, p.160-167, rus) 35-3333
Stress and velocity in an ice strip, using a Newtonian viscous approximation. Hutter, K., et al, (1980, p.385-403, eng) 35-3811
Field measurement of kinematic friction between ice and rigid structures. Comfort, G., et al, (1980, p.303-321, eng) 35-3847

Slope orientation
Hydrologic role of shallow [illegible] soils in cold climates. Slaughter, C.W., et al, (1979, p.380-389, eng) 35-424
Mudflow formation in high mountains. Vinogradov, V.A., (1980, p.82-85, rus) 35-455
Alpine soil factors in disturbance and revegetation. Burns, S.F., (1980, p.210-227, eng) 35-592
Study of snow melting in Mt. Asahidake, Hokkaido. Kubota, H., et al, (1978, p.181-188, jap) 35-1185
Modelling snow cover formation. Maltugin, Il'F., (1980, p.60-68, rus) 35-1227
Calculating snow cover stability on slopes. Bozhinskii, A.N., et al, (1980, p.84-88, rus) 35-1231
Conference of young scientists, 3rd, Krasnoyarsk, 1971. Studies of the nature of Siberian forests. (1972, 325p., rus) 35-1373
Biomass dynamics in green-moss fir forests of different age. Kuzikov, I.E., (1972, p.16-21, rus) 35-1374
Microclimatology of mountain taiga. Molokov, V.A., (1972, p.268-275, rus) 35-1382
Snow accumulation and ablation on the west slope of Mt. Asahidake, Hokkaido. Yamada, T., et al, (1978, p.1-12, jap) 35-1537
Subalpine cryosolic soils in Banff and Jasper National Parks. Achuff, P.L., et al, (1980, p.579-581, eng) 35-1708
Weathering in some arctic-alpine soils. Ellis, S., (1980, p.371-385, eng) 35-1709
Mechanical properties of snow deposited on a slope. Navarre, J.P., et al, (1979, 39p., fre) 35-1889
Snow drifting on phosphate mine dumps in southeastern Idaho. Chacho, E., et al, (1980, p.31-42, eng) 35-2224
Avalanche hazard in the Cairngorm Mountains, Scotland. Ward, R.G.W., (1980, p.31-41, eng) 35-2345
Snow cover and the weather in fracture zones of avalanches. Gubler, H., (1980, p.65-74, eng) 35-2348
Snow-slab studies at Whistler Mountain, British Columbia, Canada. Stethem, C., et al, (1980, p.85-91, eng) 35-2350
Snow cover distribution in Transcaucasia. Papinashvili, L.K., (1980, p.72-79, rus) 35-2987
Snow accumulation on and around solar collectors. Harris, J.R., (1980, p.54-65, eng) 35-3147
Plowing blocks. Gorbunov, A.P., (1980, p.160-167, rus) 35-3333
Erosion prediction for exploration and production structures in the Arctic. Kobayashi, N., et al, (1981, p.459-470, eng) 35-3453
Active avalanche protection: structural models. Belzaretti, P., (1981, p.61-65, ita) 35-3512
Structure and strength of snow cover in mountain slopes. Kondrashov, I.V., (1980, p.85-88, rus) 35-3578
Avalanches in the Inyl'chek River basin. Maksimov, N.V., (1980, p.121-126, rus) 35-3583
Vegetation, substrate and topography of interior Alaska. Neiland, B.J., (1975, 6lp. + 3 appends., eng) 35-3683
Snow accumulation on the southern slope of Caucasus. Tsomaia, V.Sh., et al, (1980, p.83-98, rus) 35-3802
High altitude vegetation of Sayan Mountains. Danilov, M.P., (1981, p.119-133, rus) 35-3895
Stability analysis of some slopes in the area of Saglek fjord. Price, A.G., (1981, p.57-72, eng) 35-3979
Biomass of Alaskan black spruce forests. Van Cleve, K., (1979, p.28-36, rus) 35-4326

Slope processes
Problems of the relations between climatic zones and exogenic relief formation. Aseev, A.A., et al, (1978, p.9-21, rus) 35-12
Weathering of permafrost in subarctic regions. Logunova, I.E., et al, (1978, p.93-94, rus) 35-14
Studying coastal plains and shelves of Arctic seas. Danilov, I.D., ed, (1979, 135p., rus) 35-64
Slope processes in permafrost areas. Kolesnikov, S.I., (1979, p.68-74, rus) 35-65
Quaternary geology of the Narssaq area, South Greenland. Funder, S., (1979, 24p., eng) 35-110
Mining problems in seismic permafrost areas. Nikolaev, V.V., et al, (1980, p.191-197, rus) 35-143
Modeling hard rock slope resistance to earthquakes. Tselikov, F.I., et al, (1980, p.121-125, rus) 35-147
Formation of rock glaciers. Gorbunov, A.P., (1979, p.5-34, rus) 35-186
Mudflows, No.4. Vinogradov, Iu.B., ed, (1980, 148p., rus) 35-203
Landslide formation on clay slopes. Demchishin, M.G., (1980, p.34-38, rus) 35-226
Calculating slope stability. Kas'ianov, V.V., (1980, p.47-50, rus) 35-228
Avalanches and landslides along the Baykal Amur railroad. Perov, V.F., ed, (1980, 189p., rus) 35-252
Methods of engineering-geological investigations of high slopes susceptible to cave-ins and landslides. Zolotarev, G.S., ed, (1980, 184p. + append., rus) 35-344
Regularities governing landslide processes in the European USSR and regional landslide forecasting. Kuntiiev, V.V., (1980, 213p., rus) 35-386
Mudflow formation in high mountains. Vinogradov, V.A., (1980, p.82-85, rus) 35-455
Avalanche classification. Kanaev, I.A., (1980, p.11-24, rus) 35-711
Avalanche formation in Transbaikal. Alekseev, V.R., et al, (1972, p.40-49, rus) 35-761
Use of earth dam reservoirs for stabilizing landslide slopes. Shapiro, Iu.S., et al, (1980, p.80-84, rus) 35-773
Using cosmic radiation in monitoring mudflows. Dubinchuk, V.T., (1980, p.85-89, rus) 35-774
Slope processes in Alpine taiga. Rashba, I.N., (1978, p.86-122, rus) 35-880
Cryogenic slope processes in Tien Shan. Tarakanov, A.G., (1980, p.98-105, rus) 35-953

Geocryological conditions of formation of Upper Pleistocene and Holocene deposits in the northern eastern USSR Novoseletskii, R.N., ed. (1976, 88p., rus) 35-1143
Mechanics of viscous solifluction Riabchun, V.K. (1976, p.43-62, rus) 35-1146
Soviet glaciological studies in 1979 Kotliakov, V.M., et al. (1980, p.5-13, rus) 35-1219
Modelling snow cover formation Malugin, I.F. (1980, p.60-68, rus) 35-1227
Protective measures in glacial mudflow areas Fleishman, S.M. (1980, p.268-271, rus) 35-1257
International geological congress, 26th, 1979 Hydrogeology, engineering geology and construction materials. Reports of soviet geologists Kulikov, G.V., ed. (1980, 247p., rus) 35-1349
Forecasting regional landslides Kiuntsel', V.V., et al. (1980, p.193-199, rus) 35-1353
Complex geographic studies and the development of mountainous regions Gvozdetskii, N.A., ed. (1980, 150p., rus) 35-1435
Slope processes control in mountains Tushinskii, G.K., et al. (1980, p.66-73, rus) 35-1439
Biological components of landscapes in the eastern Baikal Amur railroad area Babushkin, M.N., ed. (1979, 183p., rus) 35-1518
Railroad embankments on unstable slopes Basistov, M.A. (1980, p.5-7, rus) 35-1525
Slope stabilization techniques for permafrost areas Pal'kin, R.S., et al. (1980, p.30-32, rus) 35-1637
Mathematical models of cryogenic slope processes Pozdniakov, A.V., et al. (1980, p.54-60, rus) 35-1764
Temperature variation effects on rock debris movements Zhemerichko, M.I. (1980, p.91-94, rus) 35-1766
Hydrometeorological provisions for the Baykal Amur railroad Dobroumov, B.M., et al. (1980, p.3-10, rus) 35-1791
Modeling mudflow processes Stepanov, B.S., et al. (1980, p.3-9, rus) 35-1799
Transportation-shear mudflow process A model with concentrated parameters Vinogradov, R.B., et al. (1980, p.10-12, rus) 35-1800
Mathematical model of mudflow movement Stepanov, B.S. (1980, p.13-16, rus) 35-1801
Calculating mudflow density Stepanova, T.S., (1980, p.17-26, rus) 35-1802
Morphologic peculiarities of mudflow foci Khomin, R.V., (1980, p.27-33, rus) 35-1803
Mapping the areas of glacial mudflows Khomin, R.V., (1980, p.34-41, rus) 35-1804
Glacial mudflows produced by volcanic activity Balabaev, F.G., et al. (1980, p.42-48, rus) 35-1805
Mudflows in Altai and Sayan Mountains Abramenko, N.A. (1980, p.49-54, rus) 35-1806
Ultimate densities of mudflow masses Stepanov, B.S., (1980, p.59-63, rus) 35-1808
Experimental site "Chemolgan-78" for mudflow studies Kirenskaia, T.L., et al. (1980, p.64-71, rus) 35-1809
Motion picture technique of studying mudflow kinematics Gavrishina, L.N., (1980, p.72-77, rus) 35-1810
Slope and stream erosion in source areas of dispersed mudflows Golubovich, V.A., et al. (1980, p.78-81, rus) 35-1811
Determining density of loose clastic deposits in outcrops Tsukerman, I.G., (1980, p.82-94, rus) 35-1812
Seismic mudflow-alarm systems Krasiukov, V.A., (1980, p.95-100, rus) 35-1813
Seismic signal device for mudflow danger Kovalenko, P.I., et al. (1980, p.101-110, rus) 35-1814
Cryogenic patterned microrelief Chigir, V.G., (1979, p.66-101, rus) 35-1831
Shore processes on Sakhalin Island Nikol'skaia, V.V., (1976, p.64-68, rus) 35-1853
Topography developing processes in northern taiga Nikol'skaia, V.V., et al. (1976, p.81-85, rus) 35-1854
Industrial activities effect on natural conditions of the Far East Nikol'skaia, V.V., (1976, p.89-95, rus) 35-1855
Geomorphological processes under different climatic conditions Poser, H., ed. (1974, 439p., ger) 35-1942
Genesis and development of patterned ground forms Stingl, H., (1974, p.249-262, ger) 35-1944
Cryoplanation in the Alps and Canadian Rocky Mts. Karrasch, H., (1974, p.287-300, ger) 35-1947
Avalanche activity and geomorphological processes in the Salzburg Alps Pippan, T., (1974, p.301-312, ger) 35-1948
Geomorphological processes in the Canadian Cordillera Slaymaker, O., (1974, p.319-332, eng) 35-1950
Arid and periglacial processes in the subtropical semidesert mountains Höllermann, P., (1974, p.333-353, ger) 35-1951
Slope processes in cold environment of northern Finland Soderman, G., (1980, p.83-152, eng) 35-2105
Surface stability in the presence of industrial activities in permafrost areas Grave, N.A., ed. (1980, 142p., rus) 35-2184
Vegetation disturbance on solifluction slopes Sukhodrovskii, V.L., (1980, p.36-42, rus) 35-2188
Periglacial formation of the Yenisey Ridge Vorob'ev, I.V., et al. (1975, p.42-48, eng) 35-2400
Studying global factors of climato-morphogenetic phenomena of the Far East Nikol'skaia, V.V., ed. (1979, 163p., rus) 35-3045
Mountain alluvium in the Far East Korotkii, A.M., et al. (1979, p.94-117, rus) 35-3046
Cryolithologic analysis Gasanov, Sh.Sh., (1981, 195p., rus) 35-3211
Isotope methods of studying rock stream formation Morkovkina, I.K., et al. (1981, p.90-96, rus) 35-3300
Studies of slope processes in northern Yakutian research stations Sukhodrovskii, V.L., (1980, p.156-160, rus) 35-3332
Plowing blocks Gorbunov, A.P., (1980, p.160-167, rus) 35-3333
Glacial and morphoclimatic indices of the Baykal Highlands Vyrkin, V.B., et al. (1980, p.113-118, rus) 35-3479
Space surveying methods for studying exogenic processes Plastinin, L.A., et al. (1981, p.22-26, rus) 35-3540
Slope and slope processes Mosley, M.P., (1981, p.114-122, eng) 35-3565
Glaciology of mountainous regions (snow cover, avalanches) Kanaev, I.A., ed. (1980, 144p., rus) 35-3569
Calculating total snow transfer in storms Kharitonov, G.G., (1980, p.23-40, rus) 35-3572
Statistical analysis of avalanche formation conditions Chirkova, A.A., (1980, p.74-78, rus) 35-3576
Avalanches in the Inyl'chek River basin Maksimov, N.V., (1980, p.121-126, rus) 35-3583
Polish Scientific Spitsbergen Expeditions, 1970-1974, Vol.1 (1975, 196p., eng) 35-3608
Ablation of ice-moraine ridges of the Hornsund region Szponar, A., (1975, p.101-125, eng) 35-3613
Slope cover deposits of mountain areas, SW Spitsbergen Martini, A., (1975, p.147-185, eng) 35-3616
Polish Scientific Spitsbergen Expeditions, 1970-1974, Vol.2 (1977, 138p., eng) 35-3618
Debris forms on the Skoddefjellet slope Jania, J., (1977, p.91-117, eng) 35-3624
Glacial mudflows in Pamirs Kemmerikh, A.O., (1978, p.307-309, eng) 35-3686
Snow accumulation on the southern slope of Caucasus Tsomaia, V.Sh., et al. (1980, p.83-98, rus) 35-3802
Alpine mass movement forms (noncatastrophic) classification, description, and significance White, S.E., (1981, p.127-137, eng) 35-4087
Forestry problems in permafrost areas Nikolaiuk, V.A., (1981, p.6-11, rus) 35-4276
Regionalization by environmental protection demands Chepurko, N.I., et al. (1981, p.44-50, rus) 35-4277
Avalanche formation in the Katun' River basin Chubenko, A.G., (1981, p.77-86, rus) 35-4303
Glacial mudflows in Altai Mountains Vinogradov, V.A., (1981, p.87-92, rus) 35-4304
Manual of engineering geology Churinov, M.V., ed. (1981, 325p., rus) 35-4305
Alpine tundras of the Bol'shoy Annachag Range (upper course of the Kolyma River) Berman, D.I., ed. (1980, 178p., rus) 35-4332
Landscape structure of the Sibit-Tyellakh River basin Egorova, G.N., (1980, p.32-53, rus) 35-4334

Slope protection

Protection of embankment slopes in permafrost areas Vorotnikov, V.S., et al. (1980, p.3-5, rus) 35-104
Concrete plates for protecting slopes in cold regions Il'din, L.N., (1980, p.17-19, rus) 35-105
Slope protection for artificial exploration islands at Prudhoe Bay Leidersdorf, C.B., et al. (1981, p.437-448, eng) 35-3451
Bioengineering for land reclamation and conservation Schiechtl, H., (1980, 404p., eng) 35-3595

Slope stability

Protection of embankment slopes in permafrost areas Vorotnikov, V.S., et al. (1980, p.3-5, rus) 35-104
Concrete plates for protecting slopes in cold regions Il'din, L.N., (1980, p.17-19, rus) 35-105
Modeling hard rock slope resistance to earthquakes Tselikov, F.I., et al. (1980, p.121-125, rus) 35-147
Mudflows, No.4 Vinogradov, Iu.B., ed. (1980, 148p., rus) 35-203
Landslide formation on clay slopes Demchishin, M.G., (1980, p.34-38, rus) 35-226
Calculating slope stability Kos'ianov, V.V., (1980, p.47-50, rus) 35-228
Stability of tailing embankments Ogloblin, V.F., et al. (1980, p.68-71, rus) 35-230
Modeling the strength and stability of roadbed IAkovleva, T.G., et al. (1980, 255p., rus) 35-281
Proceedings of the 4th High Altitude Revegetation Workshop (1980, 258p., eng) 35-576
Roadbeds on moist fines Knizhnik, G.B., et al. (1980, p.4-5, rus) 35-599
Stability of slopes in permafrost McRoberts, E.C., (1973, 370p., eng) 35-708
Stabilization of slopes cut in perennially frozen fines Pal'kin, R.S., et al. (1980, p.5-6, rus) 35-1139
Forecasting regional landslides Kiuntsel', V.V., et al. (1980, p.193-199, rus) 35-1353
Behavior of thawing slopes in permafrost Pufahl, D.E., (1976, 323p., eng) 35-1468
Tension resistant inclusions in soils Andrawes, K.Z., et al. (1980, p.1313-1326, eng) 35-1494
Heat treatment of unstable clay slopes Il'ichanov, A.P. (1980, p.39-40, rus) 35-1530
Slope stabilization techniques for permafrost areas Pal'kin, R.S., et al. (1980, p.30-32, rus) 35-1637
Laboratory measurements of subsurface displacements during thaw of low-angle slopes of a frost-susceptible soil Rein, R.G., Jr., et al. (1980, p.349-358, eng) 35-1670
Determining density of loose clastic deposits in outcrops Tsukerman, I.G., (1980, p.82-94, rus) 35-1812
Earth pressure on retaining wall built on frozen ground Novikov, F.IA., (1981, p.146-152, eng) 35-2841
Possibility of artificial strengthening of clay soils Zhikhovich, V.V., (1981, p.7-11, rus) 35-3337
Synthetic fabrics for stabilizing slopes of earth structures Marchenko, A.S., (1981, p.5-6, rus) 35-3533
Stability analysis of some slopes in the area of Saglek fjord Price, A.G., (1981, p.57-72, eng) 35-3979

Slopes

Calculating snow cover stability on slopes Bozhinskii, A.N., et al. (1980, p.84-88, rus) 35-1231
Time-dependent surface elevation of an ice slope Hutter, K., (1980, p.247-266, eng) 35-1820
Crude oil spills on subarctic permafrost in interior Alaska Johnson, L.A., et al. (1980, 67p., eng) 35-2001
Extent of meltwater areas in Antarctica Klokov, V.D., (1980, p.29-35, rus) 35-2028
Ice and steep slopes present design challenges for arctic production islands (1980, p.24-28, eng) 35-2858
Forest cutting and avalanches on heavy snow slopes Saeki, M., et al. (1981, p.15-20, jap) 35-4203

Sludges

Land application of sludge Johnson, R.A., et al. (1981, p.8-9, eng) 35-1692
Municipal sludge management: environmental factors Reed, S.C., ed. (1977, var.p., eng) 35-2715

Sluices (hydraulic engineering)

Stepping up ship passage through sluices Kluev, V., et al. (1980, p.38-39, rus) 35-1604
Extending the navigation period on rivers Vinogradova, N., (1980, p.24-25, rus) 35-1606

Slush

Interpretation of Alberta ice jams data Michel, B., (1980, 15p., eng) 35-839

Smoke generators

Ice forming properties of 1,5-dioxynaphthalene and phloroglucinol Aksenov, M.IA., et al. (1980, p.68-75, rus) 35-2695
Ice-forming ability of calcium iodide and ammonium fluoride Plaude, N.O., (1980, p.76-81, rus) 35-2696
Ice forming properties of copper acetylacetonate Aksenov, M.IA., et al. (1980, p.82-88, rus) 35-2697
Ice forming properties of AgI Kim, N.S., (1980, p.89-98, rus) 35-2698
Assembly for measuring the size of ice-forming particles Beliaev, S.P., et al. (1980, p.57-63, rus) 35-2865

Snow accumulation

Vegetation in relation to snowfall in a forested watershed Mathers, T.J., (1980, p.36-50, eng) 35-38
Snow regimes of forested and open lands Dvalishvili, O.I., (1976, p.104-107, rus) 35-73
Snow cover effect on electrical properties of ice Khokhlov, G.P., (1980, p.149-152, rus) 35-382
Modelling basin snow storage in a high Arctic environment Woo, M., et al. (1979, p.206-216, eng) 35-414
Probable maximum flood for the Peace River at site C Fawkes, P.E., (1979, p.239-250, eng) 35-417
Annual water balance of small high Arctic basins Marsh, P., et al. (1979, p.536-546, eng) 35-432
Numerical forecast for snow cover distribution in the Ishikari Plain Shiotsuki, Y., et al. (1978, p.46-66, eng) 35-573
Snow, wind and vegetation in the Front Range, Colorado Marr, J.W., (1980, p.1-15, eng) 35-577
Pipeline design for northern conditions Nixon, V.I., (1980, p.19-21, rus) 35-615
Glaciology of mountain regions (snow cover, avalanches and glaciers) Suslov, V.F., ed. (1980, 144p., rus) 35-709
Mathematical models of snow cover formation Konovalov, V.G., (1980, p.3-10, rus) 35-710
Snow accumulation on glaciers Kuznetsov, N.A., (1980, p.105-111, rus) 35-720
Snow cover distribution over the surface of glaciers Nozdrukhin, V.K., et al. (1980, p.135-137, rus) 35-725
Avalanche formation in Transbaikal Alekseev, V.R., et al. (1972, p.40-49, rus) 35-761
Snow static loads on roofs in relation to weather conditions in Piedmont Balzaretti, P., (1980, p.36-40, ita) 35-945
Snow load damage to forest strips Tarasenko, A.N., et al. (1978, p.83-90, rus) 35-1100
Rebound of falling snow flakes in snow accumulation process, 1 Kobayashi, D., (1978, p.113-120, jap) 35-1180
Characteristics on the distribution of snow accumulation in Sapporo Naruse, R., et al. (1978, p.139-153, jap) 35-1182

Snow accumulation *(cont.)*

Wet snow accretion on power lines under high wind speed. Wakahama, G., et al. (1978, p.169-180, jap) **35-1184**

Snow accumulation in the Baykal Lake Basin. Cherkasov, V.F., et al. (1976, p.145-148, rus) **35-1192**

Calculating snow reserves in mountains. Maltugin, I.F., (1980, p.69-75, rus) **35-1228**

Measuring water vapor condensation on snow fields. Higuchi, K., et al. (1980, p.118-121, rus) **35-1239**

Avalanche protection structures. Rzhevskii, B.N., et al. (1980, p.241-249, rus) **35-1252**

Snow accumulation and ablation: a stochastic model. Cary, L.E., et al. (1979, p.32-43, eng) **35-1398**

Firn densification: an empirical model. Herron, M.M., et al. (1980, p.375-385, eng) **35-1501**

Snow accumulation and ablation on the west slope of Mt Asahidake, Hokkaido. Yamada, T., et al. (1978, p.1-12, jap) **35-1537**

Snow accumulation and melting at different altitudes of Mt. Teine, Hokkaido. Suizu, S., et al. (1978, p.47-54, jap) **35-1539**

Transitional forms of glaciation. Ivanov, N.I., (1970, p.245-263, rus) **35-1573**

Snow cover of sea ice during the AIDJEX, 1975-1976. Hanson, V.M., (1980, p.215-226, eng) **35-1663**

Remote sensing for snowpack measurements and water supply forecasting. Brown, A.J., et al. (1980, p.11-19, eng) **35-1734**

Snow distribution control by forest strips. Ivanov, A.F., (1980, p.36-39, rus) **35-1859**

Some features of snow accumulation on a Mirnyy-Vostok profile. Lipenkov, V.Ya., (1980, p.59-65, rus) **35-2033**

Nature of snow cover density distribution along a Pionerskaya Station - Dome C profile. Dzurgerov, M.B., et al. (1980, p.66-69, rus) **35-2034**

Snow cover data in Finland, 1976. (1979, 108p., fin) **35-2061**

Spring runoff forecasts in the Malmagen area, Sweden. Zarkisson, K., (1980, 119p. + append., swe) **35-2151**

Method for monthly charting of antarctic atmospheric precipitation. Briazgin, N.N., (1980, p.106-112, rus) **35-2183**

Studying snowdrifting problems with small-scale models outdoors. Tabler, R.D., et al. (1980, p.1-13, eng) **35-2221**

Avalanche hazard in the Cairngorm Mountains, Scotland. Ward, R.G.W., (1980, p.31-41, eng) **35-2345**

Frequency of major avalanche winters. Fitzharris, B.B., et al. (1980, p.43-52, eng) **35-2346**

Self-similarity of wind profiles in blowing snow allows outdoor modeling. Tabler, R.D., (1980, p.421-434, eng) **35-2383**

Snow and avalanches in the Davos area. Fohn, P., et al. (1980, p.30-43, ger) **35-2564**

Accidents and damage due to avalanches. Schild, M., et al. (1980, p.93-151, ger) **35-2566**

Hydrology. Grushevskii, M.S., ed. (1978, 224p., rus) **35-2699**

Soil freezing effect on the loss of meltwater runoff. Tyesnko, T.V., et al. (1978, p.10-15, rus) **35-2700**

Calculating spring flood hydrographs. Polishchuk, O.N., (1978, p.16-28, rus) **35-2701**

Statistical analysis of snow survey data. Akhundzhanov, Sa.M., (1978, p.29-33, rus) **35-2702**

Workshop session of the authors of avalanche maps, prepared for the World Atlas of Snow and Ice resources. Glazovskaia, T.G., et al. (1980, p.26-27, rus) **35-2809**

Recommendations of the working session of the authors of avalanche maps. (1980, p.27-30, rus) **35-2810**

Evaluating glacial runoff in a Himalayan river basin. Ramamoorthi, V.S., (1980, p.39-42, 120-124, rus) **35-2814**

Streamflow formation in a glacierized watershed in the Rocky Mountains, Canada. Young, G.J., (1980, p.55-62, 134-139, rus) **35-2817**

Calculating annual precipitation accumulation in glacier basins. Tarasova, I.N., (1980, p.200-203, rus) **35-2832**

Patch clearcuts to manage snow in lodgepole pine. Gary, H.L., (1980, p.335-346, eng) **35-2931**

Satellite information for studying snow cover dynamics. Tsarev, B.K., (1980, p.15-20, rus) **35-2969**

Forecasting mountain river runoff from satellite data. Vostrakova, N.V., (1980, p.52-58, rus) **35-2974**

Relationships between snow distribution and climate in mountain areas. Yamada, T., et al. (1981, p.109-118, eng) **35-3024**

Snow gage accuracy in the Arctic. Briazgin, N.N., et al. (1980, p.101-103, rus) **35-3123**

Sand dunes of Victoria Valley, Antarctica. Calkin, P.E., et al. (1974, p.189-216, eng) **35-3139**

Snow accumulation on and around solar collectors. Harris, J.R., (1980, p.54-65, eng) **35-3147**

Snow surveys at the Duchesnay Experiment Station, 1978-1979 winter. Frechette, A., (1980, p.91-100, fre) **35-3150**

Antarctic precipitation and global sea level. Oerlemans, J., (1981, p.770-772, eng) **35-3364**

Calculating evaporation of snow retained by a forest canopy. Grudinin, G.V., (1980, p.148-160, rus) **35-3423**

Statistical analysis of avalanche formation conditions. Chirkova, V.A., (1980, p.74-78, rus) **35-3576**

Structure and strength of snow cover on mountain slopes. Kondrashov, I.V., (1980, p.85-88, rus) **35-3578**

Glaciological data from JARE-20. Wada, M., et al. (1981, 43p., eng) **35-3599**

Inclination of young broad-leaved trees caused by snow accretion. Ozeki, Y., et al. (1980, p.27-31, jap) **35-3661**

Avalanche formation in Carpathian Mountains. Grishchenko, V.F., et al. (1978, p.297-299, eng) **35-3685**

Measurements of avalanches in forests. Fiebiger, G., (1979, p.183-194, ger) **35-3727**

Snow and agriculture. Steppuhn, H., (1981, p.60-125, eng) **35-3748**

Snow and buildings. Boyd, D.W., et al. (1981, p.562-579, eng) **35-3758**

Avalanches in the Tskhenistskali River basin. Abdushelishvili, K.L., et al. (1980, p.75-82, rus) **35-3801**

Mathematical synthesis of hourly snowfall. Sage, J.D., (1974, 188p., eng) **35-4173**

Forestry problems in permafrost areas. Nikolaiuk, V.A., (1981, p.6-11, rus) **35-4276**

Avalanche formation in the Katun' River basin. Chubenko, A.G., (1981, p.77-86, rus) **35-4303**

Glacial mudflows in Altai Mountains. Vinogradov, V.A., (1981, p.87-92, rus) **35-4304**

Snow acoustics

Acoustic emission response of snow. St. Lawrence, W.F., (1980, p.209-216, eng) **35-2363**

Acoustic emissions from unstable snow slopes. Sommerfeld, R.A., (1980, p.319-329, eng) **35-3141**

Snow air interface

Dependence of polar ice albedo on air temperature. Strokina, L.A., (1980, p.57-60, rus) **35-1004**

Modelling snow cover formation. Maltugin, I.U.F., (1980, p.60-68, rus) **35-1227**

Heat and mass transfer in the glacier-snow field system. Mazo, V.L., (1980, p.74-79, rus) **35-1229**

Energy and mass balance of a deep alpine snow cover. Davis, R., et al. (1980, p.62-67, eng) **35-2227**

Snow composition

Temporal variations and correlations of Ross Ice Shelf snow chemistry. Molenar, J.V., et al. (1979, p.72-74, eng) **35-655**

Enhanced enrichment of metals in precipitation on Ross Ice Shelf. Warburton, J.A., et al. (1979, p.75-76, eng) **35-656**

Heavy metal enrichment in antarctic snow and firn. Warburton, J.A., et al. (1979, p.76-78, eng) **35-657**

Nitrogenous chemical composition of antarctic snow and ice. Parker, B.C., et al. (1979, p.80-82, eng) **35-660**

Occurrence of salt and lead in snow dump sites. Scott, W.S., (1980, p.187-195, eng) **35-706**

Sources of twelve trace metals in antarctic snows. Boutron, C., et al. (1980, p.5631-5638, eng) **35-1118**

Stratospheric sulfate in antarctic snow. Delmas, R., et al. (1980, p.5645-5649, eng) **35-1119**

Isotope and chemical composition of snow cover in East Antarctica (Studies along the Mirnyy-Vostok profile). Gordienko, F.G., et al. (1980, p.36-48, rus) **35-1224**

Trace metals in antarctic snows since the 1880's. Boutron, C., (1980, p.7426-7432, eng) **35-1911**

Tritium in ice near Molodezhnaya Station. Herbert, D., et al. (1980, p.91-94, rus) **35-2039**

Time-related changes in snow chemistry - Ross Ice Shelf, Antarctica. Warburton, J.A., et al. (1981, p.27-39, eng) **35-2416**

Historical record of global atmospheric pollution revealed in polar ice sheets. Boutron, C., et al. (1980, p.210-215, eng) **35-2470**

Trace elements in snow and ice of west Qiongtailan Glacier, China. Wang, P., et al. (1980, p.77-79, chi) **35-2677**

Chemical analysis of natural water in the analysis of ice and snow. Sheng, W., (1980, p.90-91, chi) **35-2681**

Role of the lake winter cover in the phosphorous budget. Wolfe, B.R., (1980, p.170-178, eng) **35-3156**

French field activities at Dome C. Lorius, C., (1980, p.76, eng) **35-3182**

Nitrogenous chemical composition of antarctic ice and snow. Parker, B.C., et al. (1980, p.79-81, eng) **35-3185**

Correlation function studies for microwave remote sensing of snow and ice. Vallese, F., et al. (1981, p.685-690, eng) **35-3443**

Chemical composition of atmospheric precipitation in Yakutia. Anisimova, N.P., et al. (1980, p.30-37, rus) **35-3992**

Snow crystals. 2. Evolution. Pahaut, E., et al. (1981, p.3-42, fre) **35-4045**

Deposition of trace metals and sulfates onto arctic snow. Davidson, C.I., (1981, 59p., eng) **35-4248**

Snow compression

Plate loading and vane-cone test measurements for fresh and sintered snow. Yong, R.N., et al. (1980, 32p., eng) **35-2010**

Compressive strain in a natural snow cover. Armstrong, R.L., (1980, p.283-289, eng) **35-2371**

Constitutive relation for the deformation of snow. St. Lawrence, W.F., et al. (1981, p.3-14, eng) **35-2414**

Theoretical studies on motion of snow kicked up by a snowplow. Yoshida, Z., (1980, 36p., eng) **35-3709**

Snow cover

Electrical properties of Arctic sea ice. Bogorodskii, V.V., et al. (1980, p.6-14, rus) **35-361**

Snow survey network in Quebec. Paulin, G., (1979, p.473-489, fre) **35-430**

Snowpack and mine drainage in a western surface mine. Farmer, E.E., et al. (1980, p.79-100, eng) **35-582**

Glaciological studies in Tsurugisawa (ablation and climate). Moribayashi, S., et al. (1980, p.1-28, jap) **35-1064**

Trace metals in remote Arctic snows: natural or anthropogenic. Landy, M.P., et al. (1980, p.574-576, eng) **35-1218**

Variations in Alaska tundra, taiga, and maritime snows. Benson, C.S., (1980, p.202-205, eng) **35-1487**

Solar radiation absorption by snow, firn and ice. Belova, N.I., et al. (1970, p.53-64, rus) **35-1571**

Proceedings, Vol.1. (1980, 516p., eng) **35-1583**

Impact fuse performance in snow (Initial evaluation of a new test technique). Aitken, G.W., et al. (1980, p.31-45, eng) **35-1584**

Climate, snow cover, microclimate and hydrology at Barrow, Alaska. Dingman, S.L., et al. (1980, p.30-65, eng) **35-1931**

Glaciological research at the South Pole, Dome C and in the McMurdo Sound area in 1974-1976. Barkov, N.I., (1980, p.107-113, rus) **35-2043**

Energy and mass balance of a deep alpine snow cover. Davis, R., et al. (1980, p.62-67, eng) **35-2227**

Winter avalanche activity and weather in a Canterbury alpine basin. McNulty, D., et al. (1980, p.103-111, eng) **35-2341**

Model for snow-slab failure under conditions of dynamic loading. Johnson, J.B., (1980, p.245-254, eng) **35-2367**

Climatic conditions and microclimate of taiga geosystems in Siberia. Bufal, V.V., ed. (1980, 232p., rus) **35-2485**

Radiation balance of Siberian taiga. Bufal, V.V., et al. (1980, p.5-30, rus) **35-2486**

Atmospheric precipitation. Struzer, L.R., et al. (1980, p.24-25, rus) **35-2807**

Shapes of snow and ice. Takahashi, K., (1980, 119p., jap) **35-2855**

Arctic stratus clouds and reflection effects on irradiance. Wendler, G., et al. (1981, p.2049-2057, eng) **35-3276**

Dust clouds associated with snow avalanche movement. Kiriluk, I.V., et al. (1980, p.113-120, rus) **35-3582**

Handbook of snow: principles, processes, management and use. Gray, D.M., ed. (1981, 776p., eng) **35-3745**

Physics and properties of snowcover. Langham, E.J., (1981, p.275-337, eng) **35-3752**

Angular anisotropy of reflection from snow cover. Korzov, V.I., et al. (1980, p.43-53, rus) **35-3803**

Measurements of water equivalent of snow. Chang, A.T.C., et al. (1980, p.215-229, eng) **35-3855**

Occurrence of ice layers at the base of high arctic snowpacks. Woo, M.-K., et al. (1981, p.225-230, eng) **35-4095**

Meteorological and seasonal effects of snow chemistry of Ross Ice Shelf, Antarctica. Warburton, J.A., et al. (1981, p.17-37, eng) **35-4147**

Snow cover distribution

Studies in snow and ice. Roulet, N.T., ed. (1980, 193p., eng) **35-35**

Climate and snowcover in Schefferville, Quebec, winter 1978-1979. Strickland, N., (1980, p.17-22, eng) **35-36**

Vegetation in relation to snowfall in a forested watershed. Mathers, T.J., (1980, p.36-50, eng) **35-38**

Snow depth distribution around spruce trees in the Chamonix Valley, France. Roulet, N.T., (1980, p.62-67, eng) **35-40**

Characteristics of snow cover on a lake near Peterborough, Ontario. McCaskell, P.C., (1980, p.71-88, eng) **35-41**

Characteristics of snow distribution on Elizabeth Lake, Labrador. Sagriff, L., (1980, p.89-99, eng) **35-42**

Black ice on Elizabeth Lake, Labrador. Russell, B., (1980, p.100-109, eng) **35-43**

Relationship between a lake ice and snowcover and zooplankton distribution. Roulet, N.T., et al. (1980, p.133-148, eng) **35-46**

Snow regimes of forested and open lands. Dvalishvili, O.I., (1976, p.104-107, rus) **35-73**

Snow evaporation in the Caucasus. Gvakharia, V.K., (1980, p.337-341, rus) **35-108**

Fluctuations of the Ichinokura snow patch. Kowa, S., (1979, p.161-164, jap) **35-263**

Studies of the perennial snow patch in Karasawa, Hotakadake. Ken, K., et al. (1979, p.165-170, jap) **35-264**

Location, morphology, mass balance and ablation of snow on Hakusan Mount. Matsuoka, H., et al. (1979, p.171-180, jap) **35-265**

Summary on the studies of perennial snow patches in Japan. Higuchi, K., et al. (1979, p.181-197, jap) **35-266**

Glaciation of the Kuznetskiy Alatau. Shpin', P.S., (1980, 84p., rus) **35-307**

Canadian Hydrology Symposium '70: Cold Climate Hydrology. (1979, 597p., eng) **35-403**

Remote sensing and cold climate hydrology. Kruus, J., (1979, p.403-413., eng) **35-426**

Computer enhanced snow cover analysis of satellite data. Hogg, W.D., et al. (1979, p.414-423, eng) **35-427**

Comparison of snow cover retreat data from CEQUEAU model and satellite. Fortin, J.P., et al, [1979, p.424-448, fre] 35-428
Snow cover, snowmelt and runoff in the Mackenzie basin. Dey, B., et al, [1979, p.449-460, eng] 35-429
Numerical forecast for snow cover distribution in the Ishikari Plain. Shiotsuki, Y., et al, [1978, p.46-66, eng] 35-573
Glaciology of mountain regions (snow cover, avalanches and glaciers). Suslov, V.F., ed, [1980, 144p., rus] 35-709
Mathematical models of snow cover formation. Konovalov, V.G., [1980, p.3-10, rus] 35-710
Compiling avalanche cadasters. Akif'eva, K.V., et al, [1980, p.25-34, rus] 35-712
Snow accumulation on glaciers. Kuznetsov, N.A., [1980, p.105-111, rus] 35-720
Snow cover distribution over the surface of glaciers. Nozdriukhin, V.K., et al, [1980, p.133-137, rus] 35-723
Redistribution of snow in mountains due to snowstorms. Diunin, A.K., et al, [1980, p.287-294, eng] 35-746
Snow surveys for avalanche forecasting. Troshkina, E.S., [1980, p.57-61, rus] 35-879
Mountain forests of the Baykal Amur railroad zone. Panarin, I.I., et al, [1980, 224p., rus] 35-936
Methodologies for the study of snow phenomena. [1979, 153p., ita] 35-947
Role of snow cover in studying the winter system of taiga. Kolomyts, E.G., [1980, 15p., eng] 35-980
Distribution of water reserves in snow cover in the Moscow Region. Nefedova, E.A., [1980, 5p., eng] 35-983
Snow survey of the National Petroleum Reserve in Alaska, Apr. May, 1979. Glude, W.J., et al, [1980, 13p., eng] 35-991
Forest strip effect on snow distribution. Savin, E.N., ed, [1978, 96p., rus] 35-1091
Snow retention in steppes. Tarasenko, A.N., et al, [1978, p.4-11, rus] 35-1092
Snow retention vegetation in steppes. Romanenko, V.R., et al, [1978, p.11-23, rus] 35-1093
Weeds growing in protective forest strips. Prokudina, N.A., et al, [1978, p.68-75, rus] 35-1098
Forest strip effect on snow cover distribution. Polezhaeva, Z.N., et al, [1978, p.76-83, rus] 35-1099
Snow load damage to forest strips. Tarasenko, A.N., et al, [1978, p.83-90, rus] 35-1100
Snowmelt hydrographs from spatially varied input. Martinec, J., [1979, p.100-111, eng] 35-1124
Satellite pictures and snow measurements. Marbouty, D., et al, [1978, p.517-526, fre] 35-1163
Ice age theory and a climatic model. Pollard, D., et al, [1980, p.301-319, eng] 35-1167
Characteristics on the distribution of snow accumulation in Sapporo. Naruse, R., et al, [1978, p.139-153, jap] 35-1182
Isotope and chemical composition of snow cover in East Antarctica (Studies along the Mirnyy-Vostok profile). Gordienko, F.G., et al, [1980, p.36-48, rus] 35-1224
Modelling snow cover formation. Maliugin, IU.F., [1980, p.60-68, rus] 35-1227
Calculating snow reserves in mountains. Maliugin, IU.F., [1980, p.69-73, rus] 35-1228
Forecasting flooding of rivers. Klimova, L.A., et al, [1977, p.35-39, rus] 35-1292
Ecosystem of Arctic drift ice. Mel'nikov, I.A., [1980, p.61-97, rus] 35-1317
Role of glaciological investigations in the studies and development of mountainous regions. Kotliakov, V.M., et al, [1980, p.37-40, rus] 35-1437
Glacier systems of the Northeastern USSR. Krenke, A.N., et al, [1980, p.17-33, rus] 35-1532
Snow accumulation and ablation on the west slope of Mt. Asahidake, Hokkaido. Yamada, T., et al, [1978, p.1-12, jap] 35-1537
Fluvio-glacial balance of the Arctic. Kotliakov, V.M., et al, [1980, p.11-21, rus] 35-1565
Radar clutter models at 95GHz. Hayes, R.D., [1980, 13p., eng] 35-1590
Insects on snowfields of Mt. Rainier, Washington. Mann, D.H., et al, [1980, p.359-368, eng] 35-1671
Glacial mudflows produced by volcanic activity. Balabaev, F.G., et al, [1980, p.42-48, rus] 35-1805
Snow distribution control by forest strips. Ivanov, A.F., [1980, p.36-39, rus] 35-1859
Glacial hydrology of Pamirs. Kemmerikh, A.O., [1980, p.88-94, rus] 35-1922
Remote sensing studies of the water component. Grinberg, A.M., et al, [1980, p.152-154, rus] 35-1923
Formation processes on snow patches in the Icelandic highlands. Schunke, E., [1974, p.274-286, ger] 35-1946
New data base for climate studies. Matson, M., et al, [1981, p.451-456, eng] 35-2074
Spring runoff forecasts in the Malmagen area, Sweden. Zarkrisson, K., [1980, 119p. + append., swe] 35-2151
Snow management for crop production on the Canadian prairies. Steppuhn, H., [1980, p.50-61, eng] 35-2226
Trends in ice cover development in the Arctic Basin. Vasil'ev, S.V., [1972, p.69-70, rus] 35-2425
High altitude vegetation of West Sayan Mountains. Vlasenko, V.I., [1980, p.175-200, rus] 35-2483
Snow cover distribution on Axel Heiberg Island. Steffen, K., et al, [1980, p.211-223, eng] 35-2628
Statistical analysis of snow survey data. Akhundzhanov, Sh.M., [1978, p.29-33, rus] 35-2702
Calculating maximum river discharge during spring floods. Koriagin, S.V., [1978, p.64-69, rus] 35-2704
Fifth meeting of the editorial board of the World Atlas of Snow and Ice Resources. Dreier, N.N., [1980, p.5-6, rus] 35-2803
Resolutions of the Editorial Board of the World Atlas of Snow and Ice Resources (The fifth meeting, 21 February, 1980). [1980, p.7-8, rus] 35-2804
Snow cover. Getker, M.I., [1980, p.8-20, rus] 35-2805
Part of snowmelt in the discharge of Himalayan Rivers. Krishnamurthy, K., [1980, p.37-39, 118-120, rus] 35-2813
Evaluating glacial runoff in a Himalayan river basin. Ramamoorthi, A.S., [1980, p.39-42, 120-124, rus] 35-2814
Forecasting glacial runoff of mountain rivers. Abal'ian, T.S., et al, [1980, p.42-49, 124-129, rus] 35-2815
Snow surveys in Spitsbergen. Troitskii, L.S., et al, [1980, p.185-192, rus] 35-2829
Glaciation conditions of the Bol'shaya Khadata River Basin. Gokhman, V.V., [1980, p.194-200, rus] 35-2831
Formula for calculating snowmelt runoff. Boiarintsev, E.L., et al, [1980, p.3-11, rus] 35-2875
Snow surveys from earth resources satellites in the Swiss Alps. Haefner, H., [1980, 65p., eng] 35-2930
Using satellite information in solving hydrological problems. Kupriianov, V.V., et al, [1980, p.3-9, rus] 35-2968
Satellite information for studying snow cover dynamics. Tsarev, B.K., [1980, p.15-20, rus] 35-2969
Mapping snow cover distribution from satellite data. Usachev, V.F., et al, [1980, p.21-29, rus] 35-2970
Studying snow cover from satellite photographs. Dzhordzhio, M.V., et al, [1980, p.30-34, rus] 35-2971
Accuracy of mapping snow cover boundaries from satellite data. Prokacheva, V.G., et al, [1980, p.35-43, rus] 35-2972
Using satellite information in glaciology. Desinov, L.V., [1980, p.59-65, rus] 35-2975
Snow cover distribution in Transcaucasia. Papinashvili, L.K., [1980, p.72-79, rus] 35-2987
Relationships between snow distribution and climate in mountain areas. Yamada, T., et al, [1981, p.109-118, eng] 35-3024
Problems of utilization and preservation of natural resources in Siberia. Saks, V.N., ed, [1980, 136p., rus] 35-3042
Studying snow cover from satellite photographs. Vostriakova, N.V., [1980, p.26-30, rus] 35-3043
Snow cover distribution in the St. John River basin. Trivett, N.B.A., et al, [1980, p.19-35, eng] 35-3144
Distributions of extreme snowfall in West Virginia. Chang, M., et al, [1980, p.36-44, eng] 35-3145
Computer mapping of a snow cover. Roulet, N.T., [1980, p.185-188, eng] 35-3159
Vegetation distribution in Chukotskiy Peninsula tundras. Balandin, S.A., et al, [1980, p.1719-1733, rus] 35-3219
Climate and waters of Siberia. Bachurin, G.V., ed, [1980, 232p., rus] 35-3413
Climate forming processes in the Minusinsk Basin. Durnev, V.F., [1980, p.59-77, rus] 35-3417
Snow cover distribution in river basins. Berkin, N.S., et al, [1980, p.200-207, rus] 35-3427
Proceedings of the International Geoscience and Remote Sensing Symposium, 1981. [1981, 755p., eng] 35-3432
Global snow cover of 1978-79 as observed with the NIMBUS-7 SMMR. Kuenzi, K.F., et al, [1981, p.83-84, eng] 35-3435
Runoff modelling from snow covered area. Martinec, J., [1981, p.113-122, eng] 35-3437
Survey paper on remote sensing techniques to map snow cover. Barnes, J.C., [1981, p.123-132, eng] 35-3438
NOAA/NESS satellite snowmapping techniques. Schneider, S.R., et al, [1981, p.133-140, eng] 35-3439
Radar spectral observations of snow. Stiles, W.H., et al, [1981, p.654-668, eng] 35-3440
Glacial and morphoclimatic indices of the Baykal Highlands. Vyrkin, V.B., et al, [1980, p.113-118, rus] 35-3479
Development and prospects of space glaciology. Kotliakov, V.M., [1981, p.7-15, rus] 35-3539
Space survey data in flood forecasts. Vostriakova, N.V., [1980, p.20-26, rus] 35-3546
Glaciology of mountainous regions (snow cover, avalanches). Kanaev, L.A., ed, [1980, 144p., rus] 35-3569
Forecasting mountain river discharge from snow survey data. Getker, M.I., et al, [1980, p.3-12, rus] 35-3570
Calculating total snow transfer in storms. Kharitonov, G.G., [1980, p.23-40, rus] 35-3572
Calculating snow covered areas in high altitude zones. Tsarev, B.K., [1980, p.89-98, rus] 35-3579
Snow and precipitation measurements in mountains for hydrologic forecasts. Shentsis, I.D., [1980, p.103-112, rus] 35-3581
Avalanches in the Inyl'chek River basin. Maksimov, N.V., [1980, p.121-126, rus] 35-3583
Accuracy of operational snow and ice charts. Kukla, G., et al, [1981, p.974-987, eng] 35-3589
Snowpack monitoring using microwave satellite data. Forter, J.L., et al, [1980, 20p., eng] 35-3603
Snow and firn patches between Hornsund and Werenskiold Glacier. Glowicki, B., [1975, p.139-146, eng] 35-3615
Outline of the study of seasonal snow and ice in China. Maohuan, H., [1980, p.1-11, eng] 35-3659
Distribution of snowcover. McKay, G.A., et al, [1981, p.153-190, eng] 35-3750
Snow measurement and data analysis. Goodison, B.E., et al, [1981, p.191-274, eng] 35-3751
Satellite surveys of snow line positions. Tsarev, B.K., [1980, p.128-136, rus] 35-3799
Snow accumulation on the southern slope of Caucasus. Tsomaia, V.Sh., et al, [1980, p.83-98, rus] 35-3802
Regularities governing the formation of elementary geosystems (the central taiga structures of Sos'vinskoe Priob'e as an example). Mikheev, V.S., ed, [1978, 124p., rus] 35-3819
Natural resources of the northeastern USSR. Lozhkin, A.V., ed, [1976, 152p., rus] 35-3825
Climatic conditions of the Magadan Region. Mel'nikova, T.V., [1976, p.5-21, rus] 35-3826
Snow cover of Wrangel Island. Varich, A.A., [1976, p.42-45, rus] 35-3828
Chemical composition of atmospheric precipitation in Yakutia. Anisimova, N.P., et al, [1980, p.30-37, rus] 35-3992
Snow surveys and spring runoff forecasting in the Malmagen area, Sweden. Zakrisson, K., [1981, p.11-17, eng] 35-4016
Meltwater areas on ice covers. Buzuev, A.IA., et al, [1979, p.92-106, rus] 35-4192
Snow loads for the design of cylindrical curved roofs in Canada 1953-1980. Taylor, D.A., [1981, p.63-76, eng] 35-4218
Operational applications of satellite snow cover observations. Rango, A., [1980, p.1066-1073, eng] 35-4255
Ablation study on the Yukikabe snow patch in the Daisetsu Mountains. Sato, A., et al, [1981, p.97-100, jap] 35-4268
Use of satellites in surveying for urban construction. Krest'iashin, S.I., et al, [1981, 159p., rus] 35-4310
Snow conditions in Bavaria; with maps of the Bavarian Alps and subalpine region. Herb, H., [1973, 93p. + 11 maps, ger] 35-4339

Snow cover effect

Snow in the biotic environment. Moffatt, D., [1980, p.163-168, eng] 35-48
Model of the planetary boundary layer over a snow surface. Halberstam, I., et al, [1979, p.431-452, eng] 35-158
Snow-disaster countermeasures and cost analysis. Nakatao, T., et al, [1979, p.205-210, jap] 35-268
On drawbar pull of tracked oversnow vehicle. Muro, T., et al, [1980, p.101-108, jap] 35-269
Oversnow trafficability of tracked vehicles. Muro, T., et al, [1980, p.93-100, jap] 35-273
Comparison of daily snowmelt with snow depth. Storr, D., [1979, p.334-345, eng] 35-421
Storm runoff delays induced by snow and ice. Whiteley, H.R., et al, [1979, p.356-379, eng] 35-423
Spectral solar radiation model for snow-covered mountains. Dozier, J., [1980, p.709-718, eng] 35-438
Tundra plant structure and production in relation to the environment. Wielgolaski, F.E., [1980, p.23-30, eng] 35-486
Rolling resistance of aircraft wheels in dry snow. Kihlgren, B., [1977, 22p. + tables, swe] 35-702
Measurements of radar backscatter from terrain and snow-covered terrain. Stiles, W.H., et al, [1980, 78p. + appends., eng] 35-892
Geodetic survey of snow covered areas. Menukhov, I.I., [1980, p.36-40, rus] 35-930
Role of snow cover in studying the winter system of taiga. Kolomyts, E.G., [1980, 15p., eng] 35-980
Density of snow in Irkutsk. Rozental', R.G., [1980, 10p., eng] 35-982
Linear distributed model for a partly snowbound catchment. Singh, R., et al, [1979, p.167-177, eng] 35-1125
Snow and glacier contributions in Himalayan catchments. Bahadur, J.B., et al, [1980, p.121-125, rus] 35-1240
Role of snow cover in the modelling of water balance. Balek, J., [1980, p.152-157, rus] 35-1248
Freeze-thaw activity at a nivation site in northern Norway. Hall, K., [1980, p.183-194, eng] 35-1660
Erosion of northern sea shores. Archikov, E.I., et al, [1976, p.50-56, rus] 35-1852
Spruce at its upper limits on the Front Range, Colorado. Wardle, P., [1968, p.483-495, eng] 35-1903
Formation processes on snow patches in the Icelandic highlands. Schunke, E., [1974, p.274-286, ger] 35-1946
Technology of pipeline construction in Siberia. [1981, p.33-34, rus] 35-2095
Influence of the observatory summit on radiation measurements. Buser, O., [1980, p.152-154, ger] 35-2567

Snow cover effect *(cont.)*
Climatic role of snow covers. Kukla, G., (1981, p.79-107, eng) 35-3023
Relationships between snow distribution and climate in mountain areas. Yamada, T., et al, (1981, p.109-118, eng) 35-3024
Ecological roles of river icings in the Tsichu River Valley, Northwest Territories, Canada. Gill, D., et al, (1981, p.119-125, eng) 35-3025
Illustrations of biological roles of winter lake cover. Adams, W.P., (1980, p.1-18, eng) 35-3143
Operating the Androscoggin river reservoir system. Grove, W.M., (1980, p.101-105, eng) 35-3151
Modelling of shortwave radiation for snow covered terrain. Waterman, S.E., (1980, p.144-158, eng) 35-3154
Snow effect on cations within a small watershed. Pierson, D.C., et al, (1980, p.182-184, eng) 35-3158
Seasonal cryolithozone in Central Siberia. Zabolotnik, S.I., et al, (1980, p.113-120, rus) 35-3324
Soil heat-balance regime in the north of the USSR. Pavlov, A.V., (1981, p.129-135, eng) 35-3669
Snow and living things. McKay, G.A., et al, (1981, p.3-31, eng) 35-3746
Snow and climate. Berry, M.O., (1981, p.32-59, eng) 35-3747
Snow and ice on lakes. Adams, W.P., (1981, p.437-474, eng) 35-3755
Skiing. Perla, R., et al, (1981, p.709-740, eng) 35-3764
Winter worries. Olcott, J.W., (1980, p.86, eng) 35-3851
Fluorescent boxes help spot hydrants in Alaskan snow. Mulvihill, C.E., (1981, p.110-111, eng) 35-3861
Hydrological research in Canada. Brown, I.C., comp, (1978, p.247-251, eng) 35-3929
Ice deterioration in the Dickson Island area. Komov, N.I., (1981, p.59-64, rus) 35-3946
Damage caused by snow in pine stands. Matyás, C., (1981, p.270-272, hun) 35-4252

Snow cover stability
Climatic peculiarities of the Baykal Amur railroad zone. Galazii, G.I., ed, (1979, 144p., rus) 35-813
Avalanches and countermeasures. Severskii, I.V., (1980, 151p., rus) 35-863
Snow surveys for avalanche forecasting. Troshkina, E.S., (1980, p.57-61, rus) 35-879
Calculating snow cover stability on slopes. Bozhinskii, A.N., et al, (1980, p.84-88, rus) 35-1231
Mechanical properties of snow deposited on a slope. Navarre, J.P., et al, (1979, 39p., fre) 35-1889
Snow management for crop production on the Canadian prairies. Steppuhn, H., (1980, p.50-61, eng) 35-2226
Symposium on snow in motion. (1980, 527p., eng) 35-2342
Snow cover and avalanches in China and in the Batura Glacier area, Pakistan. Yafeng, S., et al, (1980, p.25-30, eng) 35-2344
Snow cover and the weather in fracture zones of avalanches. Gubler, H., (1980, p.65-74, eng) 35-2348
Fundamental processes in conventional avalanche forecasting. LaChapelle, E.R., (1980, p.75-84, eng) 35-2349
Snow-slab studies at Whistler Mountain, British Columbia, Canada. Stethem, C., et al, (1980, p.85-91, eng) 35-2350
Snow-pack structure: stability analyzed by pattern-recognition techniques. LaChapelle, E.R., et al, (1980, p.506-511, eng) 35-2392
Measurements of avalanches in forests. Fiebiger, G., (1979, p.183-194, ger) 35-3727

Snow cover structure
Snow survey of the National Petroleum Reserve in Alaska, Apr. May, 1979. Glude, W.J., et al, (1980, 13p., eng) 35-991
Isotope and chemical composition of snow cover in East Antarctica (Studies along the Mirnyy-Vostok profile). Gordienko, F.G., et al, (1980, p.36-48, rus) 35-1224
Sublimation and metamorphism of snow. Kolomyts, E.G., (1978, p.37-76, rus) 35-1433
Statistical models of snow strength. Sommerfeld, R.A., (1980, p.217-223, eng) 35-2364
Mechanical behaviour and structure of snow under uniaxial tensile stress. Narita, H., (1980, p.275-282, eng) 35-2370
Snow-pack structure: stability analyzed by pattern-recognition techniques. LaChapelle, E.R., et al, (1980, p.506-511, eng) 35-2392
Constitutive relation for the deformation of snow. St. Lawrence, W.F., et al, (1981, p.3-14, eng) 35-2414
Correlation function studies for microwave remote sensing of snow and ice. Vallese, F., et al, (1981, p.685-690, eng) 35-3443
Structure and strength of snow cover on mountain slopes. Kondrashov, I.V., (1980, p.85-88, rus) 35-3578
Spectral albedos of an alpine snowpack. Grenfell, T.C., et al, (1981, p.121-127, eng) 35-3668
Description of a method for calculating snow cover evolution. Rachner, M., et al, (1981, p.117-123, ger) 35-3689
Regularities governing the formation of elementary geosystems (the central taiga structures of Sos'vinskoe Priob'e as an example). Mikheev, V.S., ed, (1978, 124p., rus) 35-3819
Snow crystals. 2. Evolution. Pahaut, E., et al, (1981, p.3-42, fre) 35-4045

Snow creep
Incremental formulation of constitutive equations for deposited snow. Desrues, J., et al, (1980, p.289-307, eng) 35-1823
Tensile strain and fracture of snow. Watanabe, Z., (1980, p.255-262, eng) 35-2368
Avalanches. Schaerer, P.A., (1981, p.475-518, eng) 35-3756
Snow and buildings. Boyd, D.W., et al, (1981, p.562-579, eng) 35-3758

Snow crystal growth
Internal structure and embryo of graupel. Harimaya, T., (1977, p.29-38, eng) 35-571
Simple ice phase parametrization. Stepher[illegible] A., (1979, 122p., eng) 35-1899
Experimental study of temperature-gradient metamorphism. Marbouty, D., (1980, p.303-312, eng) 35-2373
Snowfall formation. Schenemauer, R.S., et al, (1981, p.129-152, eng) 35-3749
First artificial snow crystals (Pt.2). Sekido, Y., (1981, p.41-54, jap) 35-4206
First artificial snow crystals. (Pt. 3). Sekido, Y., (1981, p.115-122, jap) 35-4271

Snow crystal structure
Observation of snow particles at Hidden Valley, Mukut Himal. Higuchi, K., et al, (1978, p.42-44, eng) 35-54
Snow crystal observations at Mt. Yalung Kang, Kangchenjunga region, east Nepal. Higuchi, K., et al, (1978, p.45-49, eng) 35-55
Crystallographic orientation of fractured plane about fresh snow particles. Shio, H., (1979, p.157-164, eng) 35-519
Internal structure and embryo of graupel. Harimaya, T., (1977, p.29-38, eng) 35-571
Snow crystals of unusual type observed at the summit of Mt. Teine. Yamami, N., et al, (1977, p.39-45, eng) 35-572
Winter ice crystals at South Pole. Ohtake, T., et al, (1979, p.201-203, eng) 35-679
On the formation of snow crystals in a vertical wind tunnel. Furukawa, Y., et al, (1980, p.29-32, jap) 35-1065
Snow and cloud physics in Arctic Canada. Magono, C., et al, (1980, p.1656-1664, eng) 35-1414
Physics of snow and avalanche phenomena. Lind, D.A., (1981, p.103-114, eng) 35-1783
Study of gradient metamorphism by simulation in a cold chamber. Delsol, F., et al, (1978, 42p., fre) 35-1890
Snow-slab studies at Whistler Mountain, British Columbia, Canada. Stethem, C., et al, (1980, p.85-91, eng) 35-2350
Compressive strain in a natural snow cover. Armstrong, R.L., (1980, p.283-289, eng) 35-2371
First artificial snow crystals (Pt.1). Sekido, Y., (1980, p.49-60, jap) 35-3663
Snow crystals. 2. Evolution. Pahaut, E., et al, (1981, p.3-42, fre) 35-4045
First artificial snow crystals (Pt.2). Sekido, Y., (1981, p.41-54, jap) 35-4206
First artificial snow crystals. (Pt. 3). Sekido, Y., (1981, p.115-122, jap) 35-4271

Snow crystals
Cohesion of snow at temperature gradients. Marbouty, D., et al, (1980, p.291-295, fre) 35-1371
Effect of crystalline phase on hailstone growth. Ekba, IA.A., et al, (1975, p.151-162, rus) 35-1622
Commemorative monument of the birthplace of the first artificial snow crystals. Higashi, A., (1980, p.61-62, jap) 35-3664
Water content values of ice hydrometeors from aircraft and radar data. Plank, V.G., et al, (1980, p.1293-1299, eng) 35-3865
Doppler radar spectrum of ice particle fallspeeds. Passarelli, R.E., Jr., et al, (1980, p.1318-1322, eng) 35-3866
Wave propagation through snow and ice crystals. Hendry, A., et al, (1981, p.133-139, eng) 35-3885

Snow deformation
Plate loading and vane-cone test measurements for fresh and sintered snow. Yong, R.N., et al, (1980, 32p., eng) 35-2010
Constitutive relation for the deformation of snow. St. Lawrence, W.F., et al, (1981, p.3-14, eng) 35-2414

Snow density
Studies in snow and ice. Roulet, N.T., ed, (1980, 193p., eng) 35-35
Climate and snowcover in Schefferville, Quebec, winter 1978-1979. Strickland, N., (1980, p.17-22, eng) 35-36
Snowcover variation with vegetation type in the Peterborough area. Paul, P., et al, (1980, p.23-35, eng) 35-37
Relationship of snow depth, water equivalent and density. Outerbridge, K., (1980, p.51-61, eng) 35-39
Characteristics of snow cover on a lake near Peterborough, Ontario. McCaskell, P.C., (1980, p.71-88, eng) 35-41
Snow evaporation in the Caucasus. Gvakhariia, V.K., (1980, p.337-341, rus) 35-108
Estimating the areal snow water equivalent in the prairie environment. Gray, D.M., et al, (1979, p.302-322, eng) 35-419
Numerical study of the transmission of solar radiation through snow. O'Neill, A.D.J., et al, (1979, p.346-355, eng) 35-422
Ice characteristics in Whitefish Bay and St. Marys River in winter. Vance, G.P., (1980, 27p., eng) 35-488
Effect of wind on heat transfer in snow. Reimer, A., (1980, p.129-137, eng) 35-727
Methods of meteorological observations (snow measuring observations). Mel'nikova, T.V., (1980, 5p., eng) 35-981
Density of snow in Irkutsk. Rozental', R.G., (1980, 10p., eng) 35-982
Computation of the mean vertical density of snow cover. Glazyrin, G.E., et al, (1980, 4p., eng) 35-984
Snow survey of the National Petroleum Reserve in Alaska, Apr. May, 1979. Glude, W.J., et al, (1980, 13p., eng) 35-991
Comparison of areal snow storage sampling procedures for rangeland watersheds. Rawls, W.J., et al, (1980, p.71-82, eng) 35-1132
Firn densification: an empirical model. Herron, M.M., et al, (1980, p.375-385, eng) 35-1501
Remote sensing of snow properties. Chang, A.T.C., et al, (1980, p.169-185, eng) 35-1742
Studies of microwave radiation from a snow field. Tiuri, M., et al, (1980, p.225-234, eng) 35-1745
Analysis of non-steady plastic shock waves in snow. Brown, R.L., (1980, p.279-287, eng) 35-1822
Comparison of observed and calculated avalanche velocities. LaChapelle, E.R., et al, (1980, p.309-314, eng) 35-1824
Plate loading and vane-cone test measurements for fresh and sintered snow. Yong, R.N., et al, (1980, 32p., eng) 35-2010
Nature of snow cover density distribution along a Pionerskaya Station - Dome C profile. Diurgerov, M.B., et al, (1980, p.66-69, rus) 35-2034
Tritium in ice near Molodezhnaya Station. Herbert, D., et al, (1980, p.91-94, rus) 35-2039
Snow cover data in Finland, 1976. (1979, 108p., fin) 35-2061
Snow-slab studies at Whistler Mountain, British Columbia, Canada. Stethem, C., et al, (1980, p.85-91, eng) 35-2350
Statistical models of snow strength. Sommerfeld, R.A., (1980, p.217-223, eng) 35-2364
Propagation of stress waves in alpine snow. Brown, R.L., (1980, p.235-243, eng) 35-2366
Mechanical behaviour and structure of snow under uniaxial tensile stress. Narita, H., (1980, p.275-282, eng) 35-2370
Compressive strain in a natural snow cover. Armstrong, R.L., (1980, p.283-289, eng) 35-2371
Geometry and density of drifts formed by snow fences. Tabler, R.D., (1980, p.405-419, eng) 35-2382
Designing and making of snow densitometer. Li, W., et al, (1980, p.30-31, chi) 35-2660
Workshop session of the authors of avalanche maps, prepared for the World Atlas of Snow and Ice resources. Glazovskaia, T.G., et al, (1980, p.26-27, rus) 35-2809
Recommendations of the working session of the authors of avalanche maps. (1980, p.27-30, rus) 35-2810
Correlation function studies for microwave remote sensing of snow and ice. Vallese, F., et al, (1981, p.685-690, eng) 35-3443
Investigation of the snow adjacent to Dye-2, Greenland. Ueda, H.T., et al, (1981, 23p., eng) 35-3651
Avalanche formation in Carpathian Mountains. Grishchenko, V.F., et al, (1978, p.297-299, eng) 35-3685
Improved snow study kit. Richens, V.B., et al, (1973, p.109-113, eng) 35-4318

Snow depth
Studies in snow and ice. Roulet, N.T., ed, (1980, 193p., eng) 35-35
Climate and snowcover in Schefferville, Quebec, winter 1978-1979. Strickland, N., (1980, p.17-22, eng) 35-36
Snowcover variation with vegetation type in the Peterborough area. Paul, P., et al, (1980, p.23-35, eng) 35-37
Vegetation in relation to snowfall in a forested watershed. Mathers, T.J., (1980, p.36-50, eng) 35-38
Relationship of snow depth, water equivalent and density. Outerbridge, K., (1980, p.51-61, eng) 35-39
Snow depth distribution around spruce trees in the Chamonix Valley, France. Roulet, N.T., (1980, p.62-67, eng) 35-40
Characteristics of snow cover on a lake near Peterborough, Ontario. McCaskell, P.C., (1980, p.71-88, eng) 35-41
Characteristics of snow distribution on Elizabeth Lake, Labrador. Sagriff, L., (1980, p.89-99, eng) 35-42
Winter oxygen loss in three southern Ontario lakes. Jackson, M.B., (1980, p.149-159, eng) 35-47
Snow in the biotic environment. Moffatt, D., (1980, p.163-168, eng) 35-48
Snow evaporation in the Caucasus. Gvakhariia, V.K., (1980, p.337-341, rus) 35-108

Snow depth in relationship with avalanche control structure design. Balzaretti, P., (1980, p.44-46, ita) 35-223

Photogrammetry for snow depth measurements and glacier formation. Tsuchiya, I., (1976, p.178-187, jap) 35-260

Studies of the perennial snow patch in Karasawa, Hotakadake. Ken, K., et al, (1979, p.165-17(, jap) 35-264

On drawbar pull of tracked oversnow vehicle. Muro, T., et al, (1980, p.101-108, jap) 35-269

Estimating the areal snow water equivalent in the prairie environment. Gray, D.M., et al, (1979, p.302-322, eng) 35-419

Comparison of daily snowmelt with snow depth. Storr, D., (1979, p.334-345, eng) 35-421

Numerical study of the transmission of solar radiation through snow. O'Neill, A.D.J., et al, (1979, p.346-355, eng) 35-422

Annual water balance of small high Arctic basins. Marsh, P., et al, (1979, p.536-546, eng) 35-432

Ice characteristics in Whitefish Bay and St. Marys River in winter. Vance, G.P., (1980, 27p., eng) 35-488

Digital simulation of snowmelt runoff. Merritt, R.G., (1978, 107p., eng) 35-530

Rolling resistance of aircraft wheels in dry snow. Kihlgren, B., (1977, 22p. + tables, sw) 35-702

Compiling avalanche cadasters. Akif'eva, K.V., et al, (1980, p.25-34, rus) 35-712

Methods of meteorological observations (snow measuring observations). Mel'nikova, T.V., (1980, 5p., eng) 35-981

Permafrost in the Chic-Chocs Mts., Quebec. Gray, J.T., et al, (1979, p.299-316, eng) 35-1046

Comparison of areal snow storage sampling procedures for rangeland watersheds. Rawls, W.J., et al, (1980, p.71-82, eng) 35-1132

Characteristics on the distribution of snow accumulation in Sapporo. Naruse, R., et al, (1978, p.139-153, jap) 35-1182

Snow accumulation in the Baykal Lake Basin. Cherkasov, A.E., et al, (1976, p.145-148, rus) 35-1192

Surface water resources in the Tomsk region. Krasheninnikov, M.V., et al, (1976, p.149-155, rus) 35-1193

Modelling snow cover formation. Maliugin, II.F., (1980, p.60-68, rus) 35-1227

Observation of snow depth in Teshio mountainous region. Aburakawa, H., (1978, p.175-178, jap) 35-1554

Transitional forms of glaciation. Ivanov, N.I., (1970, p.245-263, rus) 35-1573

Snow cover of sea ice during the AIDJEX, 1975-1976. Hanson, A.M., (1980, p.215-226, eng) 35-1663

Microwave remote sensing of snowpack properties. (1980, 275p., eng) 35-1732

Remote sensing data on snow properties. Shafer, B.A., (1980, p.1-10, eng) 35-1733

Remote sensing for snowpack measurements and water supply forecasting. Brown, A.J., et al, (1980, p.11-19, eng) 35-1734

Radar observations of snowpacks. Stiles, W.E., et al, (1980, p.131-146, eng) 35-1740

Remote sensing of snow properties. Chang, A.T.C., et al, (1980, p.169-185, eng) 35-1742

Passive microwave sensors for studying snowpack properties. Chang, A.T.C., et al, (1980, p.235-248, eng) 35-1746

Snow surveys in Idaho, Montana, Wyoming, Utah and Nevada, 1921-1979. Wilson, J.A., et al, (1980, 393p., eng) 35-1843

Water conditions in California; basic data supplement, July 1980. Johnson, H.D., et al, (1980, 29p., eng) 35-2059

Snow cover data in Finland, 1976. (1979, 108p., fin) 35-2061

Attack under winter conditions. Georgiev, E., (1980, 6p., eng) 35-2152

Spectral albedo of snow. Wiscombe, W.J., et al, (1980, p.68-71, eng) 35-2228

Snowmelt observations in Alberta. Barnaby, I.E., (1980, p.128-137, eng) 35-2235

Process-oriented model for simulating avalanche danger. Judson, A., et al, (1980, p.53-63, eng) 35-2347

High altitude vegetation of West Sayan Mountains. Vlasenko, V.I., (1980, p.175-200, rus) 35-2483

Snow and avalanches in the Davos area. Föhn, P., et al, (1980, p.30-43, ger) 35-2564

Snow and avalanche conditions in the Swiss Alps. Schild, M., et al, (1980, p.44-92, ger) 35-2565

Accidents and damage due to avalanches. Schild, M., et al, (1980, p.93-151, ger) 35-2566

Snow cover distribution on Axel Heiberg Island. Steffen, K., et al, (1980, p.211-223, eng) 35-2628

Workshop session of the authors of avalanche maps, prepared for the World Atlas of Snow and Ice resources. Glazovskaia, T.G., et al, (1980, p.26-27, rus) 35-2809

Recommendations of the working session of the authors of avalanche maps. (1980, p.27-30, rus) 35-2810

Snow surveys in Spitsbergen. Troitskii, L.S., et al, (1980, p.185-192, rus) 35-2829

Glaciation conditions of the Bol'shaya Khadata River Basin. Gokhman, V.V., (1980, p.194-200, rus) 35-2831

Studying snow cover from satellite photographs. Dzhordzhio, M.V., et al, (1980, p.30-34, rus) 35-2971

Snow cover distribution in Transcaucasia. Papinashvili, L.K., (1980, p.72-79, rus) 35-2987

Snow cover distribution in the St. John River basin. Trivett, N.B.A., et al, (1980, p.19-35, eng) 35-3144

Snow sampling bias in the boreal forest. Granberg, H.B., (1980, p.66-75, eng) 35-3148

Computer mapping of a snow cover. Roulet, N.T., (1980, p.185-188, eng) 35-3159

Seasonally freezing layer in the Lake Baykal area. Zabolotnik, S.I., et al, (1980, p.106-113, rus) 35-3323

Statistical analysis of avalanche formation conditions. Chirkova, A.A., (1980, p.74-78, rus) 35-3576

Accuracy of operational snow and ice charts. Kukla, G., et al, (1981, p.974-987, eng) 35-3589

Snowpack monitoring using microwave satellite data. Forter, J.L., et al, (1980, 20p., eng) 35-3603

Description of a method for calculating snow cover evolution. Rachner, M., et al, (1981, p.117-123, ger) 35-3689

Snow accumulation on the southern slope of Caucasus. Tsomaia, V.Sh., et al, (1980, p.83-98, rus) 35-3802

Snow cover of Wrangel Island. Varich, A.A., (1976, p.42-45, rus) 35-3828

Modeling snow cover elements at Crater Lake, Oregon. Hamilton, W.L., (1980, 112p., eng) 35-3974

Snow surveys and spring runoff forecasting in the Malmagen area, Sweden. Zakrisson, K., (1981, p.11-17, eng) 35-4016

Climate and permafrost in areas of low winter snow-cover. Harris, S.A., (1981, p.64-70, eng) 35-4053

Snow conditions in Bavaria; with maps of the Bavarian Alps and subalpine region. Herb, H., (1973, 93p. + 11 maps, ger) 35-4339

Snow elasticity

Incremental formulation of constitutive equations for deposited snow. Desrues, J., et al, (1980, p.289-307, eng) 35-1823

Mechanical properties of snow: treatment as a Burgers body. Navarre, J.P., et al, (1977, 31p., fre) 35-1885

Mechanical properties of snow: incremental rheological regularities. Navarre, J.P., et al, (1979, 28p., fre) 35-1887

Mechanical properties of snow: incremental rheological regularities, Pt.2. Navarre, J.P., et al, (1979, 21p., fre) 35-1888

Snow electrical properties

Electric polarity of graupel particles. Kikuchi, K., et al, (1979, p.21-30, eng) 35-512

Electrical properties of snow particles. Kikuchi, K., et al, (1979, p.31-48, eng) 35-513

Microwave remote sensing of snowpack properties. (1980, 275p., eng) 35-1732

Liquid distribution and the dielectric constant of wet snow. Colbeck, S.C., (1980, p.21-39, eng) 35-1735

Dielectric behavior of snow: a study versus liquid water content. Ambach, W., et al, (1980, p.69-92, eng) 35-1737

Snow electromagnetic measurements. Linlor, W.I., et al, (1980, p.93-117, eng) 35-1738

Microwave remote sensing of snowpacks. Kong, J.A., et al, (1980, p.147-167, eng) 35-1741

Studies of microwave radiation from a snow field. Tiuri, M., et al, (1980, p.225-234, eng) 35-1745

Electric charge current due to drifting snow. Itagaki, K., (1977, p.211-216, eng) 35-3776

Snow erosion

Conference on climate, relief and human activities. (1978, 155p., rus) 35-11

Formation and movements of rock streams. Tiurin, A.I., et al, (1978, p.104-106, rus) 35-19

Cryogenic processes in Transbaikal steppes. Bazhenova, O.I., (1978, p.106-108, rus) 35-20

Nival processes. Embleton, C., (1979, p.307-324, eng) 35-1689

Snow evaporation

Analysis of snow evaporation measurements. Lauscher, F., (1978, p.193-198, ger) 35-33

Snow evaporation in the Caucasus. Gvakhariia, V.K., (1980, p.337-341, rus) 35-108

Determining early dates for dusting snow cover. Romanov, P.G., (1979, p.122-124, rus) 35-243

Snow evaporation under a forest canopy during a chinook. Swanson, R.H., (1980, p.26-30, eng) 35-2223

Calculating spring flood hydrographs. Polishchuk, O.N., (1978, p.16-28, rus) 35-2701

Calculating evaporation of snow retained by a forest canopy. Grudinin, G.V., (1980, p.148-160, rus) 35-3423

Snow fences

Studying snowdrifting problems with small-scale models outdoors. Tabler, R.D., et al, (1980, p.1-13, eng) 35-2221

Geometry and density of drifts formed by snow fences. Tabler, R.D., (1980, p.405-419, eng) 35-2382

Self-similarity of wind profiles in blowing snow allows outdoor modeling. Tabler, R.D., (1980, p.421-434, eng) 35-2383

Research on prevention of snow-drifts by blower fences. Zhonglong, W., et al, (1980, p.435-445, eng) 35-2384

Wyoming reduces drifting with new fence designs. (1979, p.12, eng) 35-2932

Wind tunnel modeling of snow fences and natural snow fence controls. Iversen, J.D., (1980, p.106-124, eng) 35-3152

Bioengineering for land reclamation and conservation. Schiechtl, H., (1980, 404p., eng) 35-3595

Snowdrift control. Verge, R.W., et al, (1981, p.630-647, eng) 35-3761

Active avalanche protection: structural models. Balzaretti, P., (1981, p.61-66, ita) 35-3986

Avalanches and planning. Schwarz, W., (1981, p.425-442, ger) 35-4216

Snow fields

Rock weathering in snow field areas. Vyrkin, V.B., (1980, p.101-107, rus) 35-3472

Snow friction

Skiing. Perla, R., et al, (1981, p.709-740, eng) 35-3764

Snow hardness

Improved snow study kit. Richens, V.B., et al, (1973, p.109-113, eng) 35-4318

Snow heat flux

Effect of wind on heat transfer in snow. Reimer, A., (1980, p.129-137, eng) 35-727

Air temperature and snow heat energy at night in Sapporo. Ishikawa, N., et al, (1978, p.121-137, jap) 35-1181

Snow hydrology

Design of snow-gauge using photoelectric effects. Tanaka, K., et al, (1976, p.171-177, jap) 35-259

Response of an alpine watershed to snowmelt. Jordan, R.P., (1979, p.323-333, eng) 35-420

Comparison of snow cover retreat data from CEQUEAU model and satellite. Fortin, J.P., et al, (1979, p.424-448, fre) 35-428

Spring runoff forecasts in the Malmagen area, Sweden. Zarkrisson, K., (1980, 119p. + append., swe) 35-2151

Proceedings of the 48th Western Snow Conference, 1980. (1980, 137p., eng) 35-2220

Watershed information system. Thomsen, A.G., et al, (1980, p.14-25, eng) 35-2222

Energy and mass balance of a deep alpine snow cover. Davis, R., et al, (1980, p.62-67, eng) 35-2227

Mapping snow surface temperature from satellite data, Sierra Nevada. Frampton, M., et al, (1980, p.88-96, eng) 35-2231

Seasonal streamflow estimation using snow data. Eschner, A.R., (1980, p.45-53, eng) 35-3146

International Geoscience and Remote Sensing Symposium, 1981, Vol.2. (1981, p.755-1461, eng) 35-3585

Snow hydrology studies using data from the Heat Capacity Mapping Mission. Barnes, J.C., et al, (1981, p.1211-1217, eng) 35-3594

WREL, Water Resources Engineering, Lulea—the activities of the division. (1980, 46p., eng) 35-3793

Snow ice interface

Occurrence of ice layers at the base of high arctic snowpacks. Woo, M.-K., et al, (1981, p.225-230, eng) 35-4095

Snow impurities

Analysis of Cl-36 in environmental water samples using an electrostatic accelerator. Elmore, D., et al, (1979, p.22-25, eng) 35-1593

Determination of heavy metals in snow without preconcentration. Landy, M.P., (1980, p.39-49, eng) 35-1710

Spectral albedo of snow. Wiscombe, W.J., et al, (1980, p.68-71, eng) 35-2228

Time-related changes in snow chemistry—Ross Ice Shelf, Antarctica. Warburton, J.A., et al, (1981, p.27-39, eng) 35-2416

Model for the spectral albedo of snow. II: Snow containing atmospheric aerosols. Warren, S.G., et al, (1980, p.2734-2745, eng) 35-2718

Snow line

Comparison of snow cover retreat data from CEQUEAU model and satellite. Fortin, J.P., et al, (1979, p.424-448, fre) 35-428

Role of glaciological investigations in the studies and development of mountainous regions. Kotlikov, V.M., et al, (1980, p.37-40, rus) 35-1437

Modern and Pleistocene snow lines in Montana and Wyoming mountains. Zwick, T.T., (1980, p.347-352, eng) 35-1826

Remote sensing studies of the water component. Grinberg, A.M., et al, (1980, p.152-154, rus) 35-1923

Thermal regime in lakes of the Kodar Range. Glavatskii, N.S., et al, (1980, p.15-28, rus) 35-2333

Regime of glaciers. Krenke, A.N., (1980, p.20-23, rus) 35-2806

Global snow cover of 1978-79 as observed with the NIMBUS-7 SMMR. Kuenzi, K.F., et al, (1981, p.83-84, eng) 35-3435

Glacial and morphoclimatic indices of the Baykal Highlands. Vyrkin, V.B., et al, (1980, p.113-118, rus) 35-3479

Development and prospects of space glaciology. Kotlikov, V.M., (1981, p.7-15, rus) 35-3539

Space survey data in flood forecasts. Vozniakova, N.V., (1980, p.20-26, rus) 35-3546

Calculating snow covered areas in high altitude zones. Tsarev, B.K., (1980, p.89-9E, rus) 35-3579

Some achievement on mountain glacier researches in China. Yafeng, S., (1980, p.13-26, eng) 35-3660

Snow line *(cont.)*

Satellite surveys of snow line positions. Tsarev, B.K., (1980, p.128-136, rus) **35-3799**

Mass balance of Peyto Glacier, Alberta, Canada, 1965 to 1978. Young, G.J., (1981, p.307-318, eng) **35-4263**

Snow loads

Conditions of snow sliding on metal sheet roofs. Maeda, H., (1979, p.199-204, jap) **35-267**

Snow-disaster countermeasures and cost analysis. Nakatao, T., et al, (1979, p.205-210, jap) **35-268**

Designing overhead power lines for mountains. Tikhanova, O.P., et al, (1980, p.49-53, rus) **35-311**

Pipeline design for northern conditions. Nosov, V.I., (1980, p.19-21, rus) **35-615**

Snow static loads on roofs in relation to weather conditions in Piedmont. Balzaretti, P., (1980, p.36-40, ita) **35-945**

Wooden structures for the North. Dmitriev, P.A., (1980, p.15-12, rus) **35-1086**

Impact fuse performance in snow (Initial evaluation of a new test technique). Aitken, G.W., et al, (1980, p.31-45, eng) **35-1584**

Roof snow load tolerance standards under revision, (1980, p.16, eng) **35-1955**

Unbalanced snow loads on arch shaped roofs. Taylor, D.A., et al, (1980, p.651-656, eng) **35-2149**

Independent roof sections for long buildings to resist snow loads. Woeste, F.E., et al, (1980, p.968-972, eng) **35-2411**

New 2 and 3 inch diameter CRREL snow samplers. Bates, R.E., et al, (1980, p.199-200, eng) **35-3163**

Inclination of young broad-leaved trees caused by snow accretion. Ozeki, Y., et al, (1980, p.27-31, jap) **35-3661**

Snow and living things. McKay, G.A., et al, (1981, p.3-31, eng) **35-3746**

Snow and buildings. Boyd, D.W., et al, (1981, p.562-579, eng) **35-3758**

Wind and snow load statistics for probabilistic design. Ellingwood, B., (1981, p.1345-1350, eng) **35-4004**

Snow loads for the design of cylindrical curved roofs in Canada 1953-1980. Taylor, D.A., (1981, p.63-76, eng) **35-4218**

Inflatable structures in power engineering. Kul'nev, A.N., (1981, p.32-36, rus) **35-4230**

Damage caused by snow in pine stands. Matyas, C., (1981, p.270-272, hun) **35-4252**

Snow manufacturing

Snow manufacturing for ski trails, (1980, p.61, eng) **35-1956**

Snow mechanics

Physical aspects of the wind-snow interaction in blowing snow. Maeno, N., et al, (1979, p.127-141, eng) **35-517**

Vertical profile and horizontal increase of drift snow transport. Takeuchi, M., (1979, p.143-156, eng) **35-518**

Fluidization of snow. Maeno, N., et al, (1979, p.109-120, eng) **35-697**

Rebound of falling snow flakes in snow accumulation process, I. Kobayashi, D., (1978, p.113-120, jap) **35-1180**

Nival processes. Embleton, C., (1979, p.307-324, eng) **35-1689**

Analysis of non-steady plastic shock waves in snow. Brown, R.L., (1980, p.279-287, eng) **35-1822**

Mechanical properties of snow: treatment as a Burgers body. Navarre, J.P., et al, (1977, 31p., fre) **35-1885**

Mechanical properties of snow: experimental study by triaxial compression. Navarre, J.P., et al, (1979, 25p., fre) **35-1886**

Mechanical properties of snow: incremental rheological regularities. Navarre, J.P., et al, (1979, 28p., fre) **35-1887**

Mechanical properties of snow: incremental rheological regularities. Pt.2. Navarre, J.P., et al, (1979, 21p., fre) **35-1888**

Mechanical properties of snow deposited on a slope. Navarre, J.P., et al, (1979, 39p., fre) **35-1889**

University course in snow dynamics. Montagne, J., (1980, p.97-103, eng) **35-2352**

Modeling of snow flow. Dent, J.D., et al, (1980, p.131-140, eng) **35-2356**

Mechanical behaviour and structure of snow under uniaxial tensile stress. Narita, H., (1980, p.275-282, eng) **35-2370**

Snow transport over mountain crests. Föhn, P.M.B., (1980, p.469-480, eng) **35-2387**

Vertical profile and horizontal increase of drift-snow transport. Takeuchi, M., (1980, p.481-492, eng) **35-2388**

Observations of ground avalanches with a video tape recorder (VTR). Akitaya, E., (1980, p.493-496, eng) **35-2389**

Theoretical studies on motion of snow kicked up by a snowplow. Yoshida, Z., (1980, 36p., eng) **35-3709**

Physics and properties of snowcover. Langham, E.J., (1981, p.275-337, eng) **35-3752**

Snow drifting. Kind, R.J., (1981, p.338-359, eng) **35-3753**

Snow melting

Snow regimes of forested and open lands. Dvalishvili, O.I., (1976, p.104-107, rus) **35-73**

Determining early dates for dusting snow cover. Romanov, P.G., (1979, p.122-124, rus) **35-243**

Snow sliding from roofs by using river water. Fukazawa, D., (1976, p.188-195, jap) **35-261**

Fluctuations of the Ichinokura snow patch. Koiwa, S., (1979, p.161-164, jap) **35-263**

Meltwater seepage into frozen ground. Kaluzhnyi, I.L., et al, (1980, p.375-379, eng) **35-966**

Differences in snow-melting rate between urban and rural areas in Sapporo. Aburakawa, H., et al, (1978, p.155-168, jap) **35-1183**

Study of snow melting in Mt. Asahidake, Hokkaido. Kubota, H., et al, (1978, p.181-188, jap) **35-1185**

Thawing and freezing in tundra soils. Ryden, B.E., et al, (1980, p.251-281, eng) **35-1484**

Study on ablation hollows on a melting snow surface. Takahashi, S., (1978, p.13-46, jap) **35-1538**

Snow accumulation and melting at different altitudes of Mt. Teine, Hokkaido. Suzu, S., et al, (1978, p.47-54, jap) **35-1539**

Liquid water content in a melting snowpack. Jones, E.B., et al, (1980, p.41-67, eng) **35-1736**

Snowmelt and glacial runoff. Dreier, N.N., (1980, p.25-26, rus) **35-2808**

Solar radiation and snow melting in winter in Shinjo area, Japan. Abe, O., et al, (1980, p.245-270, jap) **35-2891**

Why does the road turn to melting. Wang, C., (1979, p.81, chi) **35-2908**

Water fights snow for bullet trains, automated sprinklers clear tracks, (1981, p.25, eng) **35-2941**

Actosynoptic conditions starting thaws over Georgia. Kordzakhia, R.S., (1980, p.89-94, rus) **35-3989**

Climatic role of snow covers. Kukla, G., (1981, p.79-107, eng) **35-3023**

Seasonal streamflow estimation using snow data. Eschner, A.R., (1980, p.45-53, eng) **35-3146**

Heat sink capacity of a snow dump site. Feick, J.R., et al, (1980, p.179-181, eng) **35-3157**

Space survey data in flood forecasts. Vostriakova, N.V., (1980, p.20-26, rus) **35-3546**

Thermal methods of snow control on roads. Williams, G.P., (1981, p.613-629, eng) **35-3760**

Snow cover of Wrangel Island. Varich, A.A., (1976, p.42-45, rus) **35-3828**

Meltwater areas on ice covers. Buzuev, A.IA., et al, (1979, p.92-106, rus) **35-4192**

Snow surface energy exchange. Male, D.H., et al, (1981, p.609-627, eng) **35-4212**

Radiation balance of melting snow in open boreal forest. Petzold, D.E., (1981, p.287-293, eng) **35-4261**

Simple snowfall detector employing infrared rays reflection. Tsubata, I., et al, (1981, p.77-82, jap) **35-4266**

Snow morphology

Location, morphology, mass balance and ablation of snow on Hakusan Mount. Matsuoka, H., et al, (1979, p.171-180, jap) **35-265**

Model for the spectral albedo of snow. I: Pure snow. Wiscombe, W.J., et al, (1980, p.2712-2733, eng) **35-2717**

Model for the spectral albedo of snow. II: Snow containing atmospheric aerosols. Warren, S.G., et al, (1980, p.2734-2745, eng) **35-2718**

Snow optics

Light attenuation and visibility in drifting snow. Takeuchi, M., et al, (1976, p.165-170, jap) **35-258**

Spectral solar radiation model for snow-covered mountains. Dozier, J., (1980, p.709-718, eng) **35-438**

Solar reflectance of a snow field. Choudhury, B.J., et al, (1979, p.121-128, eng) **35-698**

Development of a portable albedometer. Aburakawa, H., et al, (1978, p.171-174, jap) **35-1553**

Reflectance of snow at millimeter wavelengths. Anderson, R.C., et al, (1980, 40p., eng) **35-1582**

Microwave signatures of the natural snow cover at Weissfluhjoch. Matzler, C., et al, (1980, p.203-223, eng) **35-1744**

Studies of microwave radiation from a snow field. Tiuri, M., et al, (1980, p.225-234, eng) **35-1745**

Spectral albedo of snow. Wiscombe, W.J., et al, (1980, p.68-71, eng) **35-2228**

On the angular variation of solar reflectance of snow. Choudhury, B.J., et al, (1981, p.465-472, eng) **35-2340**

Combined method of cloud separation against snow background. Naidenova, K.A., (1980, p.163-169, rus) **35-2442**

Influence of the observatory summit on radiation measurements. Buser, O., (1980, p.152-154, ger) **35-2567**

Model for the spectral albedo of snow. I: Pure snow. Wiscombe, W.J., et al, (1980, p.2712-2733, eng) **35-2717**

Model for the spectral albedo of snow. II: Snow containing atmospheric aerosols. Warren, S.G., et al, (1980, p.2734-2745, eng) **35-2718**

On the angular variation of solar reflectance of snow. Choudhury, B.J., et al, (1981, p.465-472, eng) **35-2750**

Incident flux and snow cover albedo for partially cloudy skies. Choudhury, B.J., et al, (1980, p.76-90, eng) **35-3149**

Modelling of shortwave radiation for snow covered terrain. Waterman, S.E., (1980, p.144-158, eng) **35-3154**

Some characteristics of the antarctic aerosols. Hogan, A., et al, (1980, p.78-86, eng) **35-3411**

On the angular variation of solar reflectance of snow. Choudhury, B.J., et al, (1981, p.465-472, eng) **35-3601**

Radiative properties of snow for clear sky solar radiation. Choudhury, B., (1981, p.103-120, eng) **35-3667**

Spectral albedos of an alpine snowpack. Grenfell, T.C., et al, (1981, p.121-127, eng) **35-3668**

Snow and climate. Berry, M.O., (1981, p.32-59, eng) **35-3747**

Albedo of snow for partially cloudy skies. Choudhury, B.J., et al, (1981, p.371-389, eng) **35-3964**

Intensity fluctuations of a laser beam in falling snow. Zhukov, A.F., et al, (1980, p.103-107, eng) **35-4159**

Snow pellets

Observation of snow particles at Hidden Valley, Mukut Himal. Higuchi, K., et al, (1978, p.42-44, eng) **35-54**

Electric polarity of graupel particles. Kikuchi, K., et al, (1979, p.21-30, eng) **35-512**

Electrical properties of snow particles. Kikuchi, K., et al, (1979, p.31-48, eng) **35-513**

Size distribution of snowflakes and graupel particles. Yagi, T., et al, (1979, p.79-92, eng) **35-515**

Internal structure and embryo of graupel. Harimaya, T., (1977, p.29-38, eng) **35-571**

Observation of size distribution of graupel and snow flakes. Harimaya, T., (1978, p.67-77, eng) **35-574**

Simple ice phase parametrization. Stephens, M.A., (1979, 122p., eng) **35-1899**

Snow permeability

Theoretical studies on air flow within snow. I: Equations of motion. Yoshida, Z., (1978, p.11-27, jap) **35-1172**

Air flow through snow during laminar flow of a fluid over snow. Yoshida, Z., (1978, p.29-40, jap) **35-1173**

Air flow within snow during fluid flow in surface transition layer. Yoshida, Z., (1978, p.41-54, jap) **35-1174**

Snow physics

Physical properties of the snow cover on Mt. Tateyama in Central Honshu, Japan. Kawata, K., et al, (1976, p.157-164, jap) **35-257**

Theoretical studies on air flow within snow. I: Equations of motion. Yoshida, Z., (1978, p.11-27, jap) **35-1172**

Air flow through snow during laminar flow of a fluid over snow. Yoshida, Z., (1978, p.29-40, jap) **35-1173**

Air flow within snow during fluid flow in surface transition layer. Yoshida, Z., (1978, p.41-54, jap) **35-1174**

Formation and properties of fluidized snow. Maeno, N., et al, (1978, p.77-92, jap) **35-1177**

Viscosity and heat transfer of fluidized snow. Nishimura, K., et al, (1978, p.93-102, jap) **35-1178**

Physics of snow and avalanche phenomena. Lind, D.A., (1981, p.103-114, eng) **35-1783**

Incremental formulation of constitutive equations for deposited snow. Desrues, J., et al, (1980, p.289-307, eng) **35-1823**

Simple ice phase parametrization. Stephens, M.A., (1979, 122p., eng) **35-1899**

Propagation of stress waves in alpine snow. Brown, R.L., (1980, p.235-243, eng) **35-2366**

Viscosity and heat transfer in fluidized snow. Maeno, N., et al, (1980, p.263-274, eng) **35-2369**

Radio wave attenuation due to snow and rain. Akeyama, A., et al, (1980, p.580-585, eng) **35-2413**

Snow surveys from earth resources satellites in the Swiss Alps. Haefner, H., (1980, 65p., eng) **35-2930**

Handbook of snow: principles, processes, management and use. Gray, D.M., ed, (1981, 776p., eng) **35-3745**

Physics and properties of snowcover. Langham, E.J., (1981, p.275-337, eng) **35-3752**

Snow crystals. 2: Evolution. Pahaut, E., et al, (1981, p.3-42, fre) **35-4045**

Snow pillows

Comparison of daily snowmelt with snow depth. Storr, D., (1979, p.334-345, eng) **35-421**

Snow plasticity

Theoretical studies on motion of snow kicked up by a snowplow. Yoshida, Z., (1980, 36p., eng) **35-3709**

Snow removal

Winter maintenance of railroad tracks. Buzunov, Z.T., (1980, p.10-11, rus) **35-5**

Handbook for winter road service. Ahlbrecht, H., et al, (1978, 319p., ger) **35-152**

Winter maintenance of road pavements, (1980, p.12-25, eng) **35-529**

Double-blade snowplow DE-223. Ivanov, A.N., et al, (1980, p.10, rus) **35-539**

New high-efficiency snowplows. Kolchin, M., (1980, p.14-15, rus) **35-938**

Snow cleaning plan of Milan. Pezzitti, G., (1980, p.20-35, ita) **35-944**

Types of new snowplows. Vasil'ev, A.A., (1980, p.12-14, rus) **35-1023**

Winter maintenance, (1980, p.10-15, eng) **35-1262**

Tough plow blades save big bucks, (1980, p.55-57, eng) **35-1499**

Method for snow and ice removal. Manzano, B.B., (1974, 61p., eng) **35-1563**

Rail transit winterization technology and systems operations study. LaMarca, J.J., et al, [1980, 157p., eng] 35-1848

Tungsten carbide pads for snowplow blades [1980, p.53, eng] 35-1954

Snowplowable raised pavement markers. Liptak, R.E., [1979, 16p., eng] 35-2054

Construction equipment for snow removal [1980, p.54, eng] 35-2138

Some aids for solving winter weather problems [1980, p.15-25, eng] 35-2560

Snowplows DE-223 and DE-225 [1981, p.25, rus] 35-2849

Winter Olympics will open with assist by two midwest machine manufacturers [1980, p.32-34, eng] 35-2933

101 modern machines keep Olympics moving [1980, p.28, eng] 35-2934

Water fights snow for bullet trains, automated sprinklers clear tracks [1981, p.25, eng] 35-2941

Five stage program beats snow with Toledo's mobilized forces [1980, p.9-11, eng] 35-3207

Salt institute's sensible salting program provides winter guidelines [1980, p.12-14, eng] 35-3208

Snow removal service for a medium-sized lowland city [1981, p.23-32, ita] 35-3511

Theoretical studies on motion of snow kicked up by a snowplow. Yoshida, Z., [1980, 36p., eng] 35-3709

Snow and living things. McKay, G.A., et al, [1981, p.3-31, eng] 35-3746

Chemicals and abrasives for snow and ice control. Keyser, J.H., [1981, p.580-612, eng] 35-3759

Thermal methods of snow control on roads. Williams, G.P., [1981, p.613-629, eng] 35-3760

Snow removal equipment. Minsk, L.D., [1981, p.648-670, eng] 35-3762

Snow and ice control on railroads, highways and airports. Minsk, L.D., et al, [1981, p.671-706, eng] 35-3763

Guideway snow and ice control and roadside maintenance. [1980, 27p., eng] 35-3783

Thermal removal of snow and ice on guideways. Kramer, T.J., [1980, p.1-8, eng] 35-3784

Coupling protects snow thrower's motor and power train. Hogan, B.J., [1981, p.82-83, eng] 35-3853

Nation's highest road is opened to top of Colorado's Mt. Evans [1981, p.6, eng] 35-4160

Earth's heat may solve problem of dangerous iced bridge decks [1981, p.12, eng] 35-4161

Cities vs. snow: how goes the battle [1981, p.37-38, eng] 35-4313

Snow retention

Forest strip effect on snow distribution. Savin, E.N., ed, [1978, 96p., rus] 35-1091

Snow retention in steppes. Tarasenko, A.N., et al, [1978, p.4-11, rus] 35-1092

Snow retention vegetation in steppes. Romanenko, V.R., et al, [1978, p.11-23, rus] 35-1093

Forest strip composition and patterns in Siberian steppes. Popova, O.S., [1978, p.44-47, rus] 35-1096

Biomass of narrow forest strips in steppes. Dolgtlevich, M.I., et al, [1978, p.57-68, rus] 35-1097

Weeds growing in protective forest strips. Prokudina, N.A., et al, [1978, p.68-75, rus] 35-1098

Forest strip effect on snow cover distribution. Polezhaeva, Z.N., et al, [1978, p.76-83, rus] 35-1099

Snow distribution control by forest strips. Ivanov, A.F., [1980, p.36-39, rus] 35-1859

Snow roads

Public works, Deep Freeze '79. Evans, R.L., [1979, p.235-237, eng] 35-683

Design and operation of airfields. Glushkov, G.I., et al, [1980, 441p., eng] 35-703

Snow pads for pipeline construction in Alaska. Johnson, P.R., et al, [1980, 28p., eng] 35-2584

Improving the system of cargo transportation on winter roads. Dmitrievskii, V.A., [1981, p.15, rus] 35-3344

Travel over snow. Adam, K.M., [1981, p.521-561, eng] 35-3757

Effectiveness of road facilities in Yakutia. Shtyrev, I.N., [1978, p.112-114, rus] 35-4116

Pipeline construction in swampy taiga. Karpenko, M.P., [1981, p.29-31, rus] 35-4239

Snow samplers

Proposed metric snow samplers. Farnes, P.E., et al, [1980, p.107-119, eng] 35-2233

Proceedings of the 37th annual meeting, June 5 and 6, 1980. [1980, 224p., eng] 35-3142

Snow sampling bias in the boreal forest. Granberg, H.B., [1980, p.66-75, eng] 35-3148

New 2 and 3 inch diameter CRREL snow samplers. Bates, R.E., et al, [1980, p.199-200, eng] 35-3163

Snow slides

Snow sliding from roofs by using river water. Fukazawa, D., [1976, p.188-195, jap] 35-261

Method for measuring snow gliding. Watanabe, S., et al, [1976, p.196-197, jap] 35-262

Conditions of snow sliding on metal sheet roofs. Maeda, H., [1979, p.199-204, jap] 35-267

Nival processes. Embleton, C., [1979, p.307-324, eng] 35-1689

Snow accumulation on and around solar collectors. Harris, J.R., [1980, p.54-65, eng] 35-3147

Snow stabilization

Active avalanche protection: structural models. Belzaretti, P., [1981, p.61-65, ita] 35-3512

Active avalanche protection: structural models. Balzaretti, P., [1981, p.61-66, ita] 35-3986

Snow stratigraphy

Characteristics of snow cover on a lake near Peterborough, Ontario. McCaskell, P.C., [1980, p.71-88, eng] 35-41

Characteristics of snow distribution on Elizabeth Lake, Labrador. Sagriff, L., [1980, p.89-99, eng] 35-42

Snow surveys for avalanche forecasting. Troshkina, E.S., [1980, p.57-61, rus] 35-879

Isotope and chemical composition of snow cover in East Antarctica (Studies along the Mirnyy-Vostok profile). Gordienko, F.G., et al, [1980, p.36-48, rus] 35-1224

Sublimation and metamorphism of snow. Kolomyts, E.G., [1978, p.37-76, rus] 35-1433

Transitional forms of glaciation. Ivanov, N.I., [1970, p.245-263, rus] 35-1573

Snow stratigraphy and snow water equivalence. Ellerbruch, D.A., et al, [1980, p.225-233, eng] 35-2365

Short-term fluctuations in heavy metal concentrations in antarctic snow. Landy, M.P., et al, [1981, p.144-146, eng] 35-3368

Measurements of avalanches in forests. Fiebiger, G., [1979, p.183-194, ger] 35-3727

Snow strength

Statistical models of snow strength. Sommerfeld, R.A., [1980, p.217-223, eng] 35-2364

Model for snow-slab failure under conditions of dynamic loading. Johnson, J.B., [1980, p.245-254, eng] 35-2367

Tensile strain and fracture of snow. Watanabe, Z., [1980, p.255-262, eng] 35-2368

Snow pads for pipeline construction in Alaska. Johnson, P.R., et al, [1980, 28p., eng] 35-2584

Structure and strength of snow cover on mountain slopes. Kondrashov, I.V., [1980, p.85-88, rus] 35-3578

Investigation of the snow adjacent to Dye-2, Greenland. Ueda, H.T., et al, [1981, 23p., eng] 35-3651

Avalanches. Schaerer, P.A., [1981, p.475-518, eng] 35-3756

Snow surface

Dependence of polar ice albedo on air temperature. Strokina, L.A., [1980, p.57-60, rus] 35-1004

Measuring water vapor condensation on snow fields. Higuchi, K., et al, [1980, p.118-121, rus] 35-1239

Estimation technique for snow surface albedo. Petzold, D.E., [1977, p.1-11, eng] 35-2156

Radiant energy exchange in forest snow cover. Marks, B., et al, [1980, p.43-49, eng] 35-2225

Interaction between wind and snow surface. Kobayashi, S., et al, [1979, p.35-47, eng] 35-2245

Geometry and density of drifts formed by snow fences. Tabler, R.D., [1980, p.405-419, eng] 35-2382

Slip-velocity hypothesis of wind flow over a snow cover. Bergen, J.D., [1980, p.447-452, eng] 35-2385

Threshold wind-speeds and elastic impact in snow transport. Schmidt, R.A., [1980, p.453-467, eng] 35-2386

Snow transport over mountain crests. Föhn, P.M.B., [1980, p.469-480, eng] 35-2387

Snow and avalanches in the Davos area. Föhn, P., et al, [1980, p.30-43, ger] 35-2564

Modelling of shortwave radiation for snow-covered terrain. Waterman, S.E., [1980, p.144-158, eng] 35-3154

Effects of surface dust on snowmelt rates. Drake, J.J., [1981, p.219-223, eng] 35-4094

Snow surface energy exchange. Male, D.H., et al, [1981, p.609-627, eng] 35-4212

Snow surface temperature

Dependence of polar ice albedo on air temperature. Strokina, L.A., [1980, p.57-60, rus] 35-1004

Mapping snow surface temperature from satellite data, Sierra Nevada. Frampton, M., et al, [1980, p.88-96, eng] 35-2231

Snow survey tools

Improved snow study kit. Richens, V.B., et al, [1973, p.109-113, eng] 35-4318

Snow surveys

Glaciological research at Trent University and a bibliography, 1968-1980. Adams, W.P., [1980, p.178-193, eng] 35-50

Snow regimes of forested and open lands. Dvalishvili, O.I., [1976, p.104-107, rus] 35-73

Recent research of snow and ice in the world: Pt.1. Zhang, X., [1980, p.54-58, chi] 35-90

Recent research of snow and ice in the world; Pt.2. Zhang, X., [1980, p.48-52, chi] 35-126

Snow survey network in Quebec. Paulin, G., [1979, p.473-489, fre] 35-430

Compiling avalanche cadasters. Akif'eva, K.V., et al, [1980, p.25-34, rus] 35-712

Avalanche formation in Transbaikal. Alekseev, V.R., et al, [1972, p.40-49, rus] 35-761

Methods of meteorological observations (snow measuring observations). Mel'nikova, T.V., [1980, 5p., eng] 35-981

Snow survey of the National Petroleum Reserve in Alaska, Apr. May, 1979. Glude, W.J., et al, [1980, 13p., eng] 35-991

Review of research on snow and ice. Nishimura, H., et al, [1980, p.33-69, jap] 35-1066

Outline of glaciological research in the USSR. Kusunoki, K., [1980, p.71-73, jap] 35-1067

Airborne snow survey using natural gamma radiation. Carroll, T.R., et al, [1980, p.1-10, eng] 35-1161

Resolutions of the Working Session of the Section of Glaciology, Feb. 18-20, 1980. [1980, p.20-22, rus] 35-1221

Remote sensing of snow properties. Chang, A.T.C., et al, [1980, p.169-185, eng] 35-1742

Snow surveys in Idaho, Montana, Wyoming, Utah and Nevada, 1921-1979. Wilson, J.A., et al, [1980, 393p., eng] 35-1843

Swiss Federal Institute for Snow and Avalanche Research on Weissfluhjoch, near Davos. De Quervain, M., [1980, 54p., ger] 35-1877

Water conditions in California; basic data supplement, July 1980. Johnson, H.D., et al, [1980, 29p., eng] 35-2059

Snow and avalanche research in France. Blugnot, G., [1980, p.73, eng] 35-2162

Snow survey of the Northern Hemisphere. Taylor, R.A.H., [1980, p.75-76, eng] 35-2163

Airborne measurement of snow water equivalent. Carroll, T.R., et al, [1980, p.97-106, eng] 35-2232

Calibration procedure for airborne gamma ray snow surveys. Glynn, J.E., et al, [1980, p.120-127, eng] 35-2234

Snow and avalanches in the Swiss Alps, winter 1978-79. [1980, 155p., ger] 35-2563

Snow and avalanche conditions in the Swiss Alps. Schild, M., et al, [1980, p.44-92, ger] 35-2565

Hydrology. Grushevskii, M.S., ed, [1978, 224p., rus] 35-2699

Statistical analysis of snow survey data. Akhundzhanov, Sh.M., [1978, p.29-33, rus] 35-2702

Regime of glaciers. Krenke, A.N., [1980, p.20-23, rus] 35-2806

Glaciological and geocryological field studies on King George Island during the 25th Soviet antarctic Expedition. Vtiurin, B.I., [1980, p.30, rus] 35-2811

Snow surveys in Spitsbergen. Troitskii, L.S., et al, [1980, p.185-192, rus] 35-2829

Glaciation conditions of the Bol'shaya Khadata River Basin. Gokhman, V.V., [1980, p.194-200, rus] 35-2831

Recent research of snow and ice in the World (3). Zhang, X., [1980, p.61-65, chi] 35-2922

Snow surveys from earth resources satellites in the Swiss Alps. Haefner, H., [1980, 65p., eng] 35-2930

Satellite information for studying snow cover dynamics. Tsarev, B.K., [1980, p.15-20, rus] 35-2969

Mapping snow cover distribution from satellite data. Usachev, V.F., et al, [1980, p.21-29, rus] 35-2970

Accuracy of mapping snow cover boundaries from satellite data. Prokacheva, V.G., et al, [1980, p.35-43, rus] 35-2972

Forecasting mountain river runoff from satellite data. Vostriakova, N.V., [1980, p.52-58, rus] 35-2974

Using satellite information in glaciology. Desinov, L.V., [1980, p.59-65, rus] 35-2975

Identification of avalanches on satellite photographs. Kravtsova, V.I., [1980, p.66-74, rus] 35-2976

Problems of utilization and preservation of natural resources in Siberia. Saks, V.N., ed, [1980, 136p., rus] 35-3042

Studying snow cover from satellite photographs. Vostriakova, N.V., [1980, p.26-30, rus] 35-3043

All-Union symposium on physical bases of recent climatic changes, Moscow, Apr. 23-25, 1979. Vol. 1. [1980, 108p., rus] 35-3049

Proceedings of the 37th annual meeting, June 5 and 6, 1980. [1980, 224p., eng] 35-3142

Snow surveys at the Duchesnay Experiment Station, 1978-1979 winter. Fréchette, A., [1980, p.91-100, fre] 35-3150

Lakes in the northeastern part of the Siberian Platform. Parmuzin, IU.P., et al, [1981, 190p., rus] 35-3412

Microwave emission signatures of snow in Finland. Tiuri, M., [1981, p.670-675, eng] 35-3441

Microwave remote sensing of earth terrain (snow, ice, vegetation). Zuniga, M.Z., et al, [1981, p.691-695, eng] 35-3444

Development and prospects of space glaciology. Kotliakov, V.M., [1981, p.7-15, rus] 35-3539

Studying microwave emission from a snow cover. Gershenzon, V.E., et al, [1981, p.58-62, rus] 35-3541

Alaska coastal bibliography and index statewide. [1980, 407p., eng] 35-3553

Glaciology of mountainous regions (snow cover, avalanches). Kanaev, L.A., ed, [1980, 144p., rus] 35-3569

Mathematical methods in avalanche forecasting. Maksimov, N.V., et al, [1980, p.99-102, rus] 35-3580

Calculating water reserves from aerial snow survey data. Moskalev, IU.D., [1980, p.127-138, rus] 35-3584

Application of microwave remote sensing for snow and ice properties. Campbell, W.J., et al, [1981, p.951-957, eng] 35-3587

Accuracy of operational snow and ice charts. Kukla, G., et al, [1981, p.974-987, eng] 35-3589

Satellite surveys of snow line positions. Tsarev, B.K., [1980, p.128-136, rus] 35-3799

Snow surveys *(cont.)*

Avalanches in the Iskhemistskali River basin. Abdushelishvili, K.I., et al. (1980, p.75-82, rus) **35-3801**

Snow accumulation on the southern slope of Caucasus. Tsomaia, V.Sh., et al. (1980, p.83-98, rus) **35-3802**

Modeling snow cover elements at Crater Lake, Oregon. Hamilton, W.L., (1980, 112p., eng) **35-3974**

Environmental studies in the central Quebec Labrador peninsula. Moore, T.R., ed. (1981, 141p., eng) **35-3975**

Glaciological research in eastern Queen Maud Land. Higashi, A., (1981, p.129-130, jap) **35-4273**

General conditions in arctic areas. Karu, J., (1981, 56p. + 5 figs., fin) **35-4293**

Snow temperature

Differences in snow-melting rate between urban and rural areas in Sapporo. Aburakawa, H., et al. (1978, p.155-168, jap) **35-1183**

Process-oriented model for simulating avalanche danger. Judson, A., et al. (1980, p.53-60, eng) **35-2347**

Snow-slab studies at Whistler Mountain, British Columbia, Canada. Stethem, C., et al. (1980, p.85-91, eng) **35-2350**

Ablation in a vertical ice profile in Greenland. Ambach, W., (1979, p.55-62, ger) **35-2644**

Microclimate and weathering processes in the area of Darwin Mountains and Bull Pass, Dry Valleys. Mottke, F.-D., (1980, p.14-16, eng) **35-3168**

Microwave emission signatures of snow in Finland. Tiuri, M., (1981, p.670-675, eng) **35-3441**

POLEX-South data, Part 2. Micrometeorological data at Mizuho Station, Antarctica in 1979. Wada, M., et al. (1981, 321p., eng) **35-3598**

Runoff from a surface study plot. Bengtsson, L., et al. (1979, 12p., eng) **35-3629**

Snow and climate. Berry, M.O., (1981, p.32-59, eng) **35-3747**

Snow thermal properties

Effect of wind on heat transfer in snow. Reimer, A., (1980, p.129-137, eng) **35-727**

Nival processes. Embleton, C., (1979, p.307-324, eng) **35-1689**

Microwave remote sensing of snowpacks. Kong, J.A., et al. (1980, p.147-167, eng) **35-1741**

Microwave signatures of the natural snow cover at Weissfluhjoch. Matzler, C., et al. (1980, p.203-223, eng) **35-1744**

Studies of microwave radiation from a snow field. Tiuri, M., et al. (1980, p.225-234, eng) **35-1745**

Viscosity and heat transfer in fluidized snow. Maeno, N., et al. (1980, p.263-274, eng) **35-2369**

Thermodynamics of snow metamorphism due to variations in curvature. Colbeck, S.C., (1980, p.291-301, eng) **35-2372**

Incident flux and snow cover albedo for partially cloudy skies. Choudhury, B.J., et al. (1980, p.76-90, eng) **35-3149**

Heat sink capacity of a snow dump site. Feick, J.R., et al. (1980, p.179-181, eng) **35-3157**

POLEX-South data, Part 2. Micrometeorological data at Mizuho Station, Antarctica in 1979. Wada, M., et al. (1981, 321p., eng) **35-3598**

Physics and properties of snowcover. Langham, E.J., (1981, p.275-337, eng) **35-3752**

Snow vehicles

Snow scooter and cross-country vehicle as farmers' wood transport vehicles. Halttunen, J., et al. (1981, p.28-30, fin) **35-2798**

Snowmobile noise regulations. Bumpass, D., (1980, 11p. + appends., eng) **35-2856**

Travel over snow. Adam, K.M., (1981, p.521-561, eng) **35-3757**

Snow water content

Snow water content measured by airplane. (1980, p.497-498, eng) **35-695**

Computation of the mean vertical density of snow cover. Glazyrin, G.E., et al. (1980, 4p., eng) **35-984**

Comparison of areal snow storage sampling procedures for rangeland watersheds. Rawls, W.J., et al. (1980, p.71-82, eng) **35-1132**

Measurements of free water content of wet snow by calorimetric method. Akitaya, E., (1978, p.103-111, jap) **35-1179**

Microwave remote sensing of snowpack properties. (1980, 275p., eng) **35-1732**

Remote sensing data on snow properties. Shafer, B.A., (1980, p.1-10, eng) **35-1733**

Remote sensing for snowpack measurements and water supply forecasting. Brown, A.J., et al. (1980, p.11-19, eng) **35-1734**

Liquid distribution and the dielectric constant of wet snow. Colbeck, S.C., (1980, p.21-39, eng) **35-1735**

Liquid water content in a melting snowpack. Jones, E.B., et al. (1980, p.41-67, eng) **35-1736**

Dielectric behavior of snow: a study versus liquid water content. Ambach, W., et al. (1980, p.69-92, eng) **35-1737**

Snow electromagnetic measurements. Linlor, W.I., et al. (1980, p.93-117, eng) **35-1738**

Radar observations of snowpacks. Stiles, W.E., et al. (1980, p.131-146, eng) **35-1740**

Microwave radiometric observations of snowpacks. Ulaby, F.T., et al. (1980, p.187-201, eng) **35-1743**

Studies of microwave radiation from a snow field. Tiuri, M., et al. (1980, p.225-234, eng) **35-1745**

Passive microwave sensors for studying snowpack properties. Chang, A.T.C., et al. (1980, p.235-248, eng) **35-1746**

Water conditions in California: basic data supplement, July 1980. Johnson, H.D., et al. (1980, 29p., eng) **35-2059**

Energy and mass balance of a deep alpine snow cover. Davis, R., et al. (1980, p.62-67, eng) **35-2227**

Microwave remote sensing of snow and soil moisture. Tsang, L., et al. (1980, p.3465-3485, eng) **35-2410**

Microwave remote sensing of snowpacks. Stiles, W.H., et al. (1980, 404p., eng) **35-2929**

Radar spectral observations of snow. Stiles, W.H., et al. (1981, p.654-668, eng) **35-3440**

Description of a method for calculating snow cover evolution. Rachner, M., et al. (1981, p.117-123, ger) **35-3689**

Snow water equivalent

Studies in snow and ice. Roulet, N.T., ed. (1980, 193p., eng) **35-35**

Climate and snowcover in Schefferville, Quebec, winter 1978-1979. Strickland, N., (1980, p.17-22, eng) **35-36**

Snowcover variation with vegetation type in the Peterborough area. Paul, P., et al. (1980, p.23-35, eng) **35-37**

Relationship of snow depth, water equivalent and density. Outerbridge, K., (1980, p.51-61, eng) **35-39**

Characteristics of snow cover on a lake near Peterborough, Ontario. McCaskell, P.C., (1980, p.71-88, eng) **35-41**

Characteristics of snow distribution on Elizabeth Lake, Labrador. Sagriff, L., (1980, p.89-99, eng) **35-42**

Snow regimes of forested and open lands. Dvalishvili, O.I., (1976, p.104-107, rus) **35-73**

Physical properties of the snow cover on Mt. Tateyama in Central Honshu, Japan. Kawata, K., et al. (1976, p.157-164, jap) **35-257**

Estimating the areal snow water equivalent in the prairie environment. Gray, D.M., et al. (1979, p.302-322, eng) **35-419**

Remote sensing and cold climate hydrology. Kruus, J., (1979, p.403-413, eng) **35-426**

Snowmelt and water equivalent guage for British conditions. Waring, E.A., et al. (1980, p.129-134, eng) **35-484**

Digital simulation of snowmelt runoff. Merritt, R.G., (1978, 107p., eng) **35-530**

Continuous monitoring of snow water equivalent using cosmic ray neutrons. Kodama, M., (1980, p.295-303, eng) **35-747**

Distribution of water reserves in snow cover in the Moscow Region. Nefedova, E.A., (1980, 5p., eng) **35-983**

Computation of the mean vertical density of snow cover. Glazyrin, G.E., et al. (1980, 4p., eng) **35-984**

Forest strip effect on snow distribution. Savin, E.N., ed. (1978, 96p., rus) **35-1091**

Airborne snow survey using natural gamma radiation. Carroll, T.R., et al. (1980, p.1-10, eng) **35-1161**

Satellite pictures and snow measurements. Marbouty, D., et al. (1978, p.517-526, fre) **35-1163**

Problems in meteorology and hydrology of Siberia. (1976, 218p., rus) **35-1189**

Snow accumulation in the Baykal Lake Basin. Cherkasov, A.E., et al. (1976, p.145-148, rus) **35-1192**

Surface water resources in the Tomsk region. Krasheninnikov, M.V., et al. (1976, p.149-155, rus) **35-1193**

Calculating snow reserves in mountains. Maliugin, II.F., (1980, p.69-73, rus) **35-1228**

Forecasting flooding of rivers. Klimova, L.A., et al. (1977, p.35-39, rus) **35-1292**

Snow accumulation and ablation: a stochastic model. Cary, L.E., et al. (1979, p.32-43, eng) **35-1398**

Role of glaciological investigations in the studies and development of mountainous regions. Kotliakov, V.M., et al. (1980, p.37-40, rus) **35-1437**

Water resources of mountains. L'vovich, M.I., et al. (1980, p.50-65, rus) **35-1438**

Snow accumulation and melting at different altitudes of Mt. Teine, Hokkaido. Suzu, S., et al. (1978, p.47-54, jap) **35-1539**

Fluvio-glacial balance of the Arctic. Kotliakov, V.M., et al. (1980, p.11-21, rus) **35-1565**

Microwave remote sensing of snowpack properties. (1980, 275p., eng) **35-1732**

Microwave measurements of snow water equivalence. Boyne, H.S., et al. (1980, p.119-129, eng) **35-1739**

Radar observations of snowpacks. Stiles, W.E., et al. (1980, p.131-146, eng) **35-1740**

Microwave radiometric observations of snowpacks. Ulaby, F.T., et al. (1980, p.187-201, eng) **35-1743**

Microwave signatures of the natural snow cover at Weissfluhjoch. Mätzler, C., et al. (1980, p.203-223, eng) **35-1744**

Passive microwave sensors for studying snowpack properties. Chang, A.T.C., et al. (1980, p.235-248, eng) **35-1746**

Calculating maximum spring flood runoff. Goroshkova, N.I., (1980, p.33-43, rus) **35-1793**

Snow distribution control by forest strips. Ivanov, A.F., (1980, p.36-39, rus) **35-1859**

Hydrology. Grushevskii, M.S., ed. (1980, 177p., rus) **35-1865**

Calculating ultimate intensity of spring flooding in permafrost areas. Goroshkova, N.I., (1980, p.10-17, rus) **35-1866**

Glacial hydrology of Pamirs. Kemmerikh, A.O., (1980, p.88-94, rus) **35-1922**

Remote sensing studies of the water component. Grinberg, A.M., et al. (1980, p.152-154, rus) **35-1923**

Snow cover data in Finland, 1976. (1979, 108p., fin) **35-2061**

Spring runoff forecasts in the Malmagen area, Sweden. Zarkrisson, K., (1980, 119p. + append., swe) **35-2151**

Proceedings of the 48th Western Snow Conference, 1980. (1980, 137p., eng) **35-2220**

Watershed information system. Thomsen, A.G., et al. (1980, p.14-25, eng) **35-2222**

Snowmelt modeling of upper Missouri River watersheds with SSARR. Cundy, T.W., et al. (1980, p.72-82, eng) **35-2229**

Airborne measurement of snow water equivalent. Carroll, T.R., et al. (1980, p.97-106, eng) **35-2232**

Proposed metric snow samplers. Farnes, P.E., et al. (1980, p.107-119, eng) **35-2233**

Calibration procedure for airborne gamma ray snow surveys. Glynn, J.E., et al. (1980, p.120-127, eng) **35-2234**

Snow stratigraphy and snow water equivalence. Ellerbruch, D.A., et al. (1980, p.225-233, eng) **35-2365**

Snow cover distribution on Axel Heiberg Island. Steffen, K., et al. (1980, p.211-223, eng) **35-2628**

Hydrology. Grushevskii, M.S., ed. (1978, 224p., rus) **35-2699**

Soil freezing effect on the loss of meltwater runoff. Lysenko, T.A., et al. (1978, p.10-15, rus) **35-2700**

Calculating spring flood hydrographs. Polishchuk, O.N., (1978, p.16-28, rus) **35-2701**

Statistical analysis of snow survey data. Akhundzhanov, Sh.M., (1978, p.29-33, rus) **35-2702**

Calculating maximum river discharge during spring floods. Kortagin, S.V., (1978, p.64-69, rus) **35-2704**

Snow cover. Getker, M.I., (1980, p.8-20, rus) **35-2805**

Part of snowmelt in the discharge of Himalayan Rivers. Krishnamurthy, K., (1980, p.37-39, 118-120, rus) **35-2813**

Modeling formation of runoff in a basin with widespread glaciation. Borovikova, L.N., et al. (1980, p.49-55, 130-134, rus) **35-2816**

Formula for calculating snowmelt runoff. Bolarintsev, E.I., et al. (1980, p.3-11, rus) **35-2875**

Microwave remote sensing of snowpacks. Stiles, W.H., et al. (1980, 404p., eng) **35-2929**

Patch clearcuts to manage snow in lodgepole pine. Gary, H.L., (1980, p.335-346, eng) **35-2931**

Using satellite information in solving hydrological problems. Kuprianov, V.V., et al. (1980, p.3-9, rus) **35-2968**

Studying snow cover from satellite photographs. Dzhordzhio, M.V., et al. (1980, p.30-34, rus) **35-2971**

Forecasting mountain river runoff from satellite data. Vostriakova, N.V., (1980, p.52-58, rus) **35-2974**

Studying snow cover from satellite photographs. Vostriakova, N.V., (1980, p.26-30, rus) **35-3043**

Snow cover distribution in the St. John River basin. Trivett, N.B.A., et al. (1980, p.19-35, eng) **35-3144**

Snow sampling bias in the boreal forest. Granberg, H.B., (1980, p.66-75, eng) **35-3148**

Snow surveys at the Duchesnay Experiment Station, 1978-1979 winter. Frechette, A., (1980, p.91-100, fre) **35-3150**

AES Nipher shields for recording precipitation gauges: an assessment. Goodison, B.E., et al. (1980, p.196-198, eng) **35-3162**

New 2 and 3 inch diameter CRREL snow samplers. Bates, R.E., et al. (1980, p.199-200, eng) **35-3163**

Climate and waters of Siberia. Bachurin, G.V., ed. (1980, 232p., rus) **35-3413**

Water resources of Tiumen'. Trofimets, L.N., (1980, p.185-190, rus) **35-3425**

Snow cover distribution in river basins. Berkin, N.S., et al. (1980, p.200-207, rus) **35-3427**

Surface runoff in river basins of permafrost areas. Berkin, N.S., et al. (1980, p.97-102, rus) **35-3462**

Space survey data in flood forecasts. Vostriakova, N.V., (1980, p.20-26, rus) **35-3546**

Glaciology of mountainous regions (snow cover, avalanches). Kanaev, L.A., ed. (1980, 144p., rus) **35-3569**

Forecasting mountain river discharge from snow survey data. Getker, M.I., et al. (1980, p.3-12, rus) **35-3570**

Snow and precipitation measurements in mountains for hydrologic forecasts. Shentsis, I.D., (1980, p.103-112, rus) **35-3581**

Calculating water reserves from aerial snow survey data. Moskalev, IU.D., (1980, p.127-138, rus) **35-3584**

Analytical method of calculating runoff storage. Kiktenko, V.A., et al. (1980, 200p., rus) **35-3641**

Snow and agriculture. Steppuhn, H., (1981, p.60-125, eng) **35-3748**

Snow measurement and data analysis Goodison, B E , et al, (1981, p 191-274, eng) 35-3751
Runoff characteristics in polar regions Nasybulin, Sh S , (1976, p 32-41, rus) 35-3827
Measurements of water equivalent of snow Chang, A T C , et al, (1980, p 215-229, eng) 35-3855
Hydroclimatically anomalous years in West Siberia Glukh, I S , (1981, p 93-100, rus) 35-3972
Modeling snow cover elements at Crater Lake, Oregon Hamilton, W L , (1980, 112p , eng) 35-3974
Chemical composition of atmospheric precipitation in Yakutia Anisimova, N P , et al, (1980, p 30-37, rus) 35-3992
Snow surveys and spring runoff forecasting in the Malmagen area, Sweden Zakrisson, K , (1981, p 11-17, eng) 35-4016

Snowdrifts

Light attenuation and visibility in drifting snow Takeuchi, M , et al, (1976, p 165-170, jap) 35-258
Modelling basin snow storage in a high Arctic environment Woo, M , et al, (1979, p 206-216, eng) 35-414
Vertical profile and horizontal increase of drift snow transport Takeuchi, M , (1979, p 143-156, eng) 35-518
Fluidization of snow Maeno, N , et al, (1979, p 109-120, eng) 35-697
Redistribution of snow in mountains due to snowstorms Diunin, A K , et al, (1980, p 287-294, eng) 35-746
Climatic peculiarities of the Baykal Amur railroad zone Galazii, G I , ed, (1979, 144p , rus) 35-813
Role of snow cover in studying the winter system of taiga Kolomyts, E G , (1980, 15p , eng) 35-980
Snow-modelling techniques at Baker Lake, N W T Adam, K M , et al, (1980, p 394-408, eng) 35-2130
Studying snowdrifting problems with small-scale models outdoors Tabler, R D , et al, (1980, p 1-13, eng) 35-2221
Snow drifting on phosphate mine dumps in southeastern Idaho Chacho, E , et al, (1980, p 31-42, eng) 35-2224
Interaction between wind and snow surface Kobayashi, S , et al, (1979, p 35-47, eng) 35-2245
Snow cover and avalanches in China and in the Batura Glacier area, Pakistan Yafeng, S , et al, (1980, p 25-30, eng) 35-2344
Drifting-snow similitude transport-rate and roughness modeling Iversen, J D , (1980, p 393-403, eng) 35-2381
Geometry and density of drifts formed by snow fences Tabler, R D , (1980, p 405-419, eng) 35-2382
Self-similarity of wind profiles in blowing snow allows outdoor modeling Tabler, R D , (1980, p 421-434, eng) 35-2383
Research on prevention of snow-drifts by blower fences Zhonglong, W , et al, (1980, p 435-445, eng) 35-2384
Threshold wind-speeds and elastic impact in snow transport Schmidt, R A , (1980, p 453-467, eng) 35-2386
Snow transport over mountain crests Fohn, P M B , (1980, p 469-480, eng) 35-2387
Vertical profile and horizontal increase of drift-snow transport Takeuchi, M , (1980, p 481-492, eng) 35-2388
Wyoming reduces drifting with new fence designs (1979, p 12, eng) 35-2932
Snow gage accuracy in the Arctic Briazgin, N N , et al, (1980, p 101-103, rus) 35-3123
Snow accumulation on and around solar collectors Harris, J R , (1980, p 54-65, eng) 35-3147
Wind tunnel modeling of snow fences and natural snow fence controls Iversen, J D , (1980, p 106-124, eng) 35-3152
Climate forming processes in the Minusinsk Basin Durnev, V F , (1980, p 59-77, rus) 35-3417
[illegible] G G , (1980, p 23-40, rus) 35-3572
Snow drifting Kind, R J , (1981, p 338-359, eng) 35-3753
Snow and buildings Boyd, D W , et al, (1981, p 562-579, eng) 35-3758
Snowdrift control Verge, R W , et al, (1981, p 630-647, eng) 35-3761
Electric charge current due to drifting snow Itagaki, K , (1977, p 211-216, eng) 35-3776
Wind-tunnel analysis of the effect of plantings on snowdrift control Ring, S I , (1980, p 8-12, eng) 35-3785
Snowdrifts and protective vegetation along the roads Saito, S , (1981, 101-106, jap) 35-4269

Snowfall

Vegetation in relation to snowfall in a forested watershed Mathers, T J , (1980, p 36-50, eng) 35-38
Snow crystal observations at Mt Yalung Kang, Kangchenjunga region, east Nepal Higuchi, K , et al, (1978, p 45-49, eng) 35-55
Numerical forecast for snow cover distribution in the Ishikari Plain Shiotsuki, Y , et al, (1978, p 46-66, eng) 35-573
Radar reflectivity and precipitation rate Whinnery, R , et al, (1979, p 212-213, eng) 35-680
Climatic peculiarities of the Baykal Amur railroad zone Galazii, G I , ed, (1979, 144p , rus) 35-813
Rebound of falling snow flakes in snow accumulation process, I Kobayashi, D , (1978, p 113-120, jap) 35-1180
Measurement of snowfall by MRL-2 radar Koloskov, B P , (1979, p 43-52, rus) 35-1188
Forecasting visibility in snowfalls Zenkevich, D I , (1980, p 11-17, rus) 35-1359
Mathematical model of snowfall Prokop'eva, I P , (1980, p 18-24, rus) 35-1360
Frequency of major avalanche winters Fitzharris, B B , et al, (1980, p 43-52, eng) 35-2346
Distributions of extreme snowfall in West Virginia Chang, M , et al, (1980, p 36-44, eng) 35-3145
AES Nipher shields for recording precipitation gauges an assessment Goodison, B E , et al, (1980, p 196-198, eng) 35-3162
Avalanche formation in Carpathian Mountains Grishchenko, V F , et al, (1978, p 297-299, eng) 35-3685
Snowfall formation Schenemauer, R S , et al, (1981, p 129-152, eng) 35-3749
Snow measurement and data analysis Goodison, B E , et al, (1981, p 191-274, eng) 35-3751
Doppler radar spectrum of ice particle fallspeeds Passarelli, R E , Jr , et al, (1980, p 1318-1322, eng) 35-3866
General features of Batura Glacier Zhang, X , et al, (1980, p 8-27, chi) 35-4027
Intensity fluctuations of a laser beam in falling snow Zhukov, V F , et al, (1980, p 103-107, eng) 35-4159
Use of Markov chain in the study of snow occurrences Boldue, S , (1970, 139p , eng) 35-4171
Mathematical synthesis of hourly snowfall Sage, J D , (1974, 188p , eng) 35-4173
Simple snowfall detector employing infrared rays reflection Isubata, I , et al, (1981, p 77-82, jap) 35-4266
Snow conditions in Bavaria, with maps of the Bavarian Alps and subalpine region Herb, H , (1973, 93p + 11 maps, ger) 35-4339

Snowflakes

Observation of snow particles at Hidden Valley, Mukut Himal Higuchi, K , et al, (1978, p 42-44, eng) 35-54
Size distribution of snowflakes and graupel particles Yagi, T , et al, (1979, p 79-92, eng) 35-515
Crystallographic orientation of fractured plane about fresh snow particles Shio, H , (1979, p 157-164, eng) 35-519
Observation of size distribution of graupel and snow flakes Harimaya, T , (1978, p 67-77, eng) 35-574
Electron microscopy study of snowflakes Sartin, A , et al, (1980, p 39-43, eng) 35-817
Density of snow in Irkutsk Rozental', R G , (1980, 10p , eng) 35-982
Rebound of falling snow flakes in snow accumulation process, I Kobayashi, D , (1978, p 113-120, jap) 35-1180
On the statistical investigation of fall velocity of snowflakes Sasyo, Y , et al, (1980, p 61-79, eng) 35-2155
Electrical processes in atmospheres (1977, 865p , eng) 35-3775
Charging mechanism of snowflakes and soft hail Kikuchi, K , (1977, p 315-321, eng) 35-3780
Measuring snowflake size and fall velocity Suzuki, M , et al, (1981, p 1-8, jap) 35-4201

Snowmelt

Snowmelt runoff estimate using energy balance techniques Daoo, V J , et al, (1978, p 183-192, eng) 35-32
Design of snow-gauge using photoelectric effects Tanaka, K , et al, (1976, p 171-177, jap) 35-259
Canadian Hydrology Symposium '70 Cold Climate Hydrology (1979, 597p , eng) 35-403
Modelling basin snow storage in a high Arctic [illegible] 35-414
Probable maximum flood for the Peace River at site C Fawkes, P E , (1979, p 239-250, eng) 35-417
Runoff simulation, Falls River watershed, Ellesmere Is , N W T Ambler, D C , (1979, p 277-289, eng) 35-418
Response of an alpine watershed to snowmelt Jordan, R P , (1979, p 323-333, eng) 35-420
Comparison of daily snowmelt with snow depth Storr, D , (1979, p 334-345, eng) 35-421
Storm runoff delays induced by snow and ice Whiteley, H R , et al, (1979, p 356-379, eng) 35-423
Measuring peak runoff at culverts on the interior plains Doyle, P F , (1979, p 390-402, eng) 35-425
Computer enhanced snow cover analysis of satellite data Hogg, W D , et al, (1979, p 414-423, eng) 35-427
Snow cover, snowmelt and runoff in the Mackenzie basin Dey, B , et al, (1979, p 449-460, eng) 35-429
Snowmelt-runoff forecasting Tangborn, W V , (1980, p 778-786, eng) 35-439
Snowmelt and water equivalent guage for British conditions Waring, E A , et al, (1980, p 129-134, eng) 35-484
Digital simulation of snowmelt runoff Merritt, R G , (1978, 107p , eng) 35-530
Snowmelt infiltration into seasonally frozen soils Kane, D L , (1980, p 153-161, eng) 35-730
Water pollution from snow removal operations Pierstorff, B W , et al, (1980, p 377-388, eng) 35-851
Snow survey of the National Petroleum Reserve in Alaska, Apr -May, 1979 Glude, W J , et al, (1980, 13p , eng) 35-991
Snowmelt hydrographs from spatially varied input Martinec, J , (1979, p 100-111, eng) 35-1124
Linear distributed model for a partly snowbound catchment Singh, R , et al, (1979, p 167-177, eng) 35-1125
Airborne snow survey using natural gamma radiation Carroll, T R , et al, (1980, p 1-10, eng) 35-1161
Satellite pictures and snow measurements Marbouty, D et al, (1978, p 517-526, fre) 35-1163
Specific features in the formation of chemical composition of natural waters in East Antarctica Bardin, V I , et al (1980, p 166-171, rus) 35-1251
Hydrology of a small lake in the Canadian high Arctic, Woo, M -K , (1980, p 227-235, eng) 35-1664
Hydrology Grushevskii, M S , ed, (1980, 177p , rus) 35-1865
Calculating ultimate intensity of spring flooding in permafrost areas Gorushkova, N I , (1980, p 10-17, rus) 35-1866
Seasonal runoff volumes conditioned on forecasted total runoff volume Hoshi, K , et al, (1980, p 1079-1084, eng) 35-1875
Some observations concerning nivation and snow melt in Swedish Lapland Rudberg, S , (1974, p 263-273, eng) 35-1945
Mudflows in relation to climate and topography, Canadian Rocky Mts Owens, I F , (1974, p 313-318, eng) 35-1949
Estimating washload produced by snowmelt erosion on small watersheds Rendon-Herrero, O , (1980, p 66-83, eng) 35-1972
Spring runoff forecasts in the Malmagen area, Sweden Zakrisson, K , (1980, 119p + append , swe) 35-2151
Proceedings of the 48th Western Snow Conference, 1980 (1980, 137p , eng) 35-2220
Watershed information system Thomsen, A G , et al, (1980, p 14-25, eng) 35-2222
Energy and mass balance of a deep alpine snow cover Davis, R , et al, (1980, p 62-67, eng) 35-2227
Snowmelt modeling of upper Missouri River watersheds with SSARR Cundy, T W , et al, (1980, p 72-82, eng) 35-2229
Snowmelt observations in Alberta Barnaby, I E , (1980, p 128-137, eng) 35-2235
Subarctic snowmelt runoff genetation Kane, D L , et al, (1981, p 591-601, eng) 35-2526
Calculating spring flood hydrographs Polishchuk, O N , (1978, p 16-28, rus) 35-2701
Effect of snowmelt on water quality Sigel, D L , (1980, p 238-242, eng) 35-2797
Part of snowmelt in the discharge of Himalayan Rivers Krishnamurthy, K , (1980, p 37-39, 118-120, rus) 35-2813
Forecasting glacial runoff of mountain rivers Abalian, I S , et al, (1980, p 42-49, 124-129, rus) 35-2815
Modeling formation of runoff in a basin with widespread glaciation Borovikova, I N , et al, (1980, p 49-55, 130-134, rus) 35-2816
Dusting effect on ice and snow melting Denisov, B M , (1980, p 67-72, 143-147, rus) 35-2819
Impact of floods from glacier-dammed lakes, Yukon, Canada Young, G J , (1980, p 101-107, 170-175, rus) 35-2825
Formula for calculating snowmelt runoff Bonamtsev, E I , et al, (1980, p 3-11, rus) 35-2875
Determining the content of anion of SO4 in snow meltwater Cheng, W , (1980, p 70-71, chi) 35-2924
Snow effect on cations within a small watershed Pierson, D C , et al, (1980, p 182-184, eng) 35-3158
Runoff modelling from snow covered area Martinec, J , (1981, p 113-122, eng) 35-3437
Surface runoff in river basins of permafrost areas Berkin, N S , et al, (1980, p 97-102, rus) 35-3462
Runoff from a surface study plot Bengtsson, L , et al, (1979, 12p , eng) 35-3629
Analytical method of calculating runoff storage Kiktenko, V A , et al, (1980, 200p , rus) 35-3641
Snowcover ablation and runoff Male, D H , et al, (1981, p 360-436, eng) 35-3754
Effect of forest canopy on subarctic woodland solar radiation Petzold, D E , (1981, p 27-38, eng) 35-3977
Effects of surface dust on snowmelt rates Drake, J J , (1981, p 219-223, eng) 35-4094
Operational applications of satellite snow cover observations Rango, A , (1980, p 1066-1073, eng) 35-4255
Land surface and lake storage during snowmelt runoff, Subarctic areas FitzGibbon, J E , et al, (1981, p 277-285, eng) 35-4260
Glacial mudflows in Altai Mountains Vinogradov, V A , (1981, p 87-92, rus) 35-4304
Formation of meltwater losses Kaluzhnyi, I I , et al, (1981, 160p , rus) 35-4311

Snowstorms

Redistribution of snow in mountains due to snowstorms Diunin, A K , et al, (1980, p 287-294, eng) 35-746

Snowstorms *(cont.)*

Drifting-snow similitude - transport-rate and roughness modeling - Iversen, J.D. (1980, p.393-403, eng) **35-2381**

Satellite recording of dynamic processes at the earth surface - Bertl, B.I. (1981, p.108-113, rus) **35-3336**

Calculating total snow transfer in storms - Khantanov, G.G. (1980, p.24-40, rus) **35-3572**

Role of the winter land breeze in the formation of Great Lake snow storms - Passarelli, R.E., Jr., et al. (1981, p.482-491, eng) **35-4005**

Soil air interface

Climatic peculiarities of the Baykal-Amur railroad zone - Galazii, G.I., ed. (1979, 144p., rus) **35-813**

Heat transfer at the soil-air interface - Yakushevskaya, K.I. (1980, p.79-92, rus) **35-2441**

Soil analysis

Germination in Barrow, Alaska, tundra soil cores - Teck, M.V. (1980, p.343-348, eng) **35-1669**

Tundra fire effects on soils and plants in the Seward Peninsula - Racine, C.H. (1981, p.71-84, eng) **35-4054**

Soil chemistry

Properties and classification of some cold desert soils - Bockheim, J.G. (1980, p.45-69, eng) **35-219**

Loose surface deposits of the Angara River area - Gorbachev, V.N. (1980, p.21-39, rus) **35-297**

Forest fire effects on soil formation in permafrost areas - Popova, I.P. (1980, p.40-52, rus) **35-298**

Chemistry of cryogenic mountain forest soils - Zueva, K.G. (1980, p.73-84, rus) **35-301**

Podsol soils of taiga - Korsunov, V.M., et al. (1980, p.104-128, rus) **35-303**

Edaphic factors and their influence in patterns of tundra revegetation - Everett, K.R. (1980, p.30-37, eng) **35-579**

Grey-podsol soils of northern taiga - Tsypanova, A.N. (1974, p.25-30, rus) **35-689**

Analyzing humus substances in taiga soils - Sloboda, A.V. (1974, p.50-57, rus) **35-692**

Occurrence of salt and lead in snow dump sites - Scott, W.S. (1980, p.187-195, eng) **35-706**

Water transfer of chemical elements in taiga landscapes - Kuzmin, V.V. (1978, p.23-32, rus) **35-765**

Nitrogen in cryogenic meadow soils - Korobtsev, I.I., et al. (1976, p.136-144, rus) **35-804**

Dynamics of NH_4 and NO_3 in cropped soils irrigated with wastewater - Iskandar, I.K., et al. (1980, 20p., eng) **35-872**

Central Siberian tundra soils - Vasil'evskaia, V.D. (1980, 235p., rus) **35-1281**

Water soluble substances in podsolized sandy and loam soils - Strelkova, V.V. (1979, p.3-22, rus) **35-1418**

Carbon and nutrient budgets and their control in coastal tundra - Chapin, F.S., III, et al. (1980, p.458-482, eng) **35-1941**

Removal of organics by overland flow - Martel, C.J., et al. (1980, 9p., eng) **35-2052**

Cryogenic processes in mountain and lowland soils - Khavkina, N.V., et al. (1980, p.51-53, rus) **35-2268**

Chemical element transfer in freezing soils - Zolotareva, B.N., et al. (1980, p.65-66, rus) **35-2272**

Migration and crystallization of substances in tundra soils - Zvereva, T.S., et al. (1980, p.107-109, rus) **35-2289**

Thermal regime and chemical processes in tundra soils - Antonov, N.V., et al. (1980, p.117-118, rus) **35-2293**

Cryogenic mountain-forest soils - Molokov, V.A., et al. (1980, p.167-169, rus) **35-2306**

Soil microflora and artificial lakes - Nikitina, Z.I., et al. (1979, p.63-75, rus) **35-2324**

Microbiology of sedge-pine forest soils - Vishnyakova, Z.V. (1980, p.130-144, rus) **35-2479**

Chemistry of pine forest soils - Kulagina, M.V. (1980, p.98-112, rus) **35-2481**

Enzyme kinetic model for nitrification in soil amended with ammonium - Leggett, D.C., et al. (1980, 20p., eng) **35-2583**

Peat deposits in northern bogs - Belova, A.A. (1970, p.49-50, rus) **35-2615**

Nitrogen and ash-elements in northern forest soils - Morozova, R.M., et al. (1970, p.93-94, rus) **35-2618**

Larch introduced in Karelian forests - Valtaev, V.N. (1977, p.75-84, rus) **35-2692**

Problems of geochemical contrasts in Finnish soils - Kauranne, L.K., et al. (1977, p.34-44, eng) **35-2723**

Mercury as a pathfinder for base metal deposits, Swedish Lapland - Duerdil, Y., et al. (1975, p.1-5, eng) **35-2734**

Geochemical sampling media useful in glaciated terrain - Boyle, D.R., et al. (1975, p.6-15, eng) **35-2735**

Investigations of molybdenum-copper deposits, southern Norway - Vokes, F.M., et al. (1975, p.32-40, eng) **35-2736**

Lime requirement methods for cold-region soils - Loynachan, T.E. (1981, p.75-80, eng) **35-2926**

Organic matter in soils of Kola Peninsula - Pereverzev, V.N., et al. (1980, 227p., rus) **35-3279**

Self-cleaning of polluted soils in cold regions - Shchetinkov, V.I. (1980, p.84-89, rus) **35-3477**

Effectiveness of land application for P removal from waste water - Iskandar, I.K., et al. (1980, p.616-621, eng) **35-3705**

Soil development on moraines of the Klutlan Glacier, Canada - Jacobson, G.L., et al. (1980, p.87-100, eng) **35-3719**

Soil oxygen flux in an Alaskan tussock tundra - Stuart, L., (1979, 95p., eng) **35-3766**

Modeling nitrogen transport and transformations in soils 2. Validation - Iskandar, I.K., et al. (1981, p.303-312, eng) **35-4080**

Modeling N transport and transformations in soils - Selim, H.M., et al. (1981, p.233-241, eng) **35-4081**

Growth and phosphate absorption in tundra plants - Chapin, F.S., III, (1981, p.83-94, eng) **35-4086**

Humification processes in soils of the Okhotsk Sea area - Andreev, D.P., (1979, p.146-149, rus) **35-4331**

Soil classification

Discussion about "Permafrost classification for engineering" - Zhang, C., (1980, p.58-60, chi) **35-128**

Soil colloids

Migration and crystallization of substances in tundra soils - Zvereva, T.S., et al. (1980, p.107-109, rus) **35-2289**

Soil compaction

Stability of tailing embankments - Ogloblin, V.F., et al. (1980, p.68-71, rus) **35-230**

Dynamic sounding method of determining earth dam densities - Tishin, V.G., et al. (1980, p.25, rus) **35-505**

Deformation of peat bearing grounds - Kukushkin, V.A., et al. (1980, p.10-12, rus) **35-623**

Consolidation of weak clay soils - Razorenov, N.I., (1979, p.94-98, rus) **35-1279**

Clay soil strength and water saturation - Ivanov, I.P., et al. (1980, p.31-39, rus) **35-1567**

Bases and foundations (1976, 96p., rus) **35-1715**

Foundation construction on peat soils - Konovalov, P.A., (1980, 161p., rus) **35-2997**

Soil composition

Solutions and use of chronofunctions in studying soil development - Bockheim, J.G., (1980, p.71-85, eng) **35-220**

Origin and geography of forest soils - Korsunov, V.M., ed. (1980, 131p., rus) **35-295**

Loose surface deposits of the Angara River area - Gorbachev, V.N., (1980, p.21-39, rus) **35-297**

Profiles of taiga soils - Korsunova, I.M., et al. (1980, p.85-103, rus) **35-302**

Soils of northern peat bogs - Popov, V.A., (1974, p.10-16, rus) **35-688**

Humus profile of taiga podsols - Archegova, I.B., (1974, p.43-49, rus) **35-691**

Radioactive elements in cryogenic soils - Gil', T.V., (1980, p.52-57, rus) **35-1515**

Study of a Belgian pingo rampart - Bastin, B., et al. (1974, p.341-357, fre) **35-1995**

Nitrogen and ash-elements in northern forest soils - Morozova, R.M., et al. (1970, p.93-94, rus) **35-2618**

Tundra and analogous soils - Everett, K.R., et al. (1981, p.139-179, eng) **35-2705**

Application of humus analysis to geotechnical prospecting, some case histories - Nuutilainen, J., et al. (1977, p.1-5, eng) **35-2720**

Soil processes in tundra - Sloboda, A.V., (1980, p.29-40, rus) **35-2762**

Time for the formation of organic matter in the second humic zone of soddy-podsolic soils - Tolchel'nikov, R.S., et al. (1980, p.1475-1478, rus) **35-2766**

Distribution and variability of soils near Atkasook, Alaska - Everett, K.R., (1980, p.433-446, eng) **35-3198**

Organic matter in soils of Kola Peninsula - Pereverzev, V.N., et al. (1980, 227p., rus) **35-3279**

Forest regeneration and microfungi in soils, Scheffersville, Canada - Lucarotti, C.J., (1981, p.7-26, eng) **35-3976**

Podsol formed in carbonate-bearing tills, Scheffersville area - Belisle, J., et al. (1981, p.85-95, eng) **35-3980**

Microband fabric in seasonally frozen soils - Mermut, A.R., et al. (1981, p.578-586, eng) **35-4082**

Sandy semipodsolic taiga soils - Grigor'ev, A.B., (1979, p.176-184, rus) **35-4123**

Algae in cryogenic soils - Pivovarova, Zh.F., et al. (1979, p.125-133, rus) **35-4329**

Soil conservation

Builder's guide to water and energy - Seifert, R.D., et al. (1980, 78p., eng) **35-2021**

Soil creep

Landslide formation on clay slopes - Demchishin, M.G., (1980, p.34-38, rus) **35-226**

Calculating slope stability - Kas'ianov, V.V., (1980, p.47-50, rus) **35-228**

Movement rate of solifluction lobes in the Yukon Territory - Alexander, C.S., et al. (1980, p.365-379, eng) **35-1129**

Computer simulation of creep of clay - Pusch, R., et al. (1981, p.95-104, eng) **35-1675**

Analysis of foundations in permafrost - Vialov, S.S., et al. (1980, p.97-117, eng) **35-1974**

Soil dating

Late Weichselian ice sheets in Eurasia and Greenland - Andersen, B.G., (1981, p.1-65 + 5 sheets, eng) **35-2063**

Soil erosion

Problems of the relations between climatic zones and exogenic relief formation - Ascev, A.A., et al. (1978, p.9-21, rus) **35-12**

Mudflows, No.4 - Vinogradov, Yu.B., ed. (1980, 148p., rus) **35-203**

Mudflow forming processes - Vinogradov, Yu.B., (1980, p.3-19, rus) **35-204**

Modeling the erosion-shear process - Stepanov, B.S., (1980, p.31-35, rus) **35-206**

Forecasting rain-induced mudflows - Kurenskaia, T.I., (1980, p.36-45, rus) **35-207**

Mudflow classification - Vinogradov, Yu.B., (1980, p.46-50, rus) **35-208**

Classification of mudflow formation foci - Khomin, R.V., (1980, p.51-56, rus) **35-209**

Mudflow phenomena in the USSR - Raushenbakh, I.O., (1980, p.90-102, rus) **35-212**

Mudflows triggered by glacial runoff - Golubovich, V.A., (1980, p.103-106, rus) **35-213**

Formation of glacial mudflows - Markov, I.N., et al. (1980, p.107-112, rus) **35-214**

Mudflow impact tests - Bolarskii, I.A., (1980, p.120-126, rus) **35-216**

Forest-strip method of reclaiming eroded soils - Budaev, Kh.R., ed. (1976, 159p., rus) **35-799**

Land reclamation in Transbaikal - Budaev, Kh.R., (1976, p.10-17, rus) **35-800**

Resistance of taiga soils to erosion - Babintseva, R.M., et al. (1976, p.49-54, rus) **35-802**

Erosion of cryogenic soils - Kerzhentsev, A.S., (1976, p.66-77, rus) **35-803**

Weeds growing in protective forest strips - Prokudina, N.A., et al. (1978, p.68-75, rus) **35-1098**

Environmental impact of tracked vehicles in tundra - Sparrow, S.D., et al. (1978, p.20-27, eng) **35-1162**

Studies of forest soils and vegetation in the northeastern USSR - Shcherbakov, I.P., ed. (1971, 176p., rus) **35-1390**

Revegetation of felled areas in taiga - Mikhaleva, V.M., (1971, p.34-51, rus) **35-1392**

Revegetation of cryogenic soils damaged by industrial activities - Moskalenko, N.G., et al. (1980, p.144-164, rus) **35-1454**

Abstracts of papers from the 31st Alaska Science Conference, 1980 (1980, 148p., eng) **35-1469**

Mathematical models of cryogenic slope processes - Pozdniakov, A.V., et al. (1980, p.54-60, rus) **35-1764**

Revegetation along roads and pipelines in Alaska - Johnson, L.A., (1980, p.129-150, eng) **35-1772**

Slope and stream erosion in source areas of dispersed mudflows - Golubovich, V.A., et al. (1980, p.78-81, rus) **35-1811**

Determining density of loose clastic deposits in outcrops - Tsukerman, I.G., (1980, p.82-94, rus) **35-1812**

Age structure of stands in northern taiga - Listov, A.A., (1980, p.25-29, rus) **35-1858**

Geoecology of the Colorado Front Range - Ives, J.D., ed. (1980, 484p., eng) **35-1900**

Soil loss in the Colorado Front Range, sampling design and areal variation - Bovis, M.J., (1978, p.10-21, eng) **35-1902**

Geomorphological processes under different climatic conditions - Poser, H., ed. (1974, 439p., ger) **35-1942**

Some observations concerning nivation and snow melt in Swedish Lapland - Rudberg, S., (1974, p.263-273, eng) **35-1945**

Estimating washload produced by snowmelt erosion on small watersheds - Rendon-Herrero, O., (1980, p.66-83, eng) **35-1972**

Surface stability in the presence of industrial activities in permafrost areas - Grave, N.A., ed. (1980, 142p., rus) **35-2184**

Thermal balance and environmental protection of northern landscapes - Pavlov, A.V., (1980, p.13-31, rus) **35-2186**

Radiation regime of disturbed tundra surfaces - Skriabin, P.N., (1980, p.32-36, rus) **35-2187**

Vegetation disturbance on solifluction slopes - Sukhodrovskii, V.L., (1980, p.36-42, rus) **35-2188**

Cryogenic soils of Lake Baykal area - Parshikov, V.P., (1980, p.18-20, rus) **35-2258**

Soil preservation in northern territories - Chigir, V.G., (1980, p.188-190, rus) **35-2313**

Soil disturbance in pipeline construction areas - Sopina, E.P., (1980, p.190-191, rus) **35-2314**

Land erosion maps of the Central Region for environmental protection - Kosov, B.F., et al. (1979, p.95-101, rus) **35-2327**

Environmental protection in the North - Denisov, G.V., (1981, p.29, rus) **35-2784**

Locating soil erosion areas on aerial photographs - Bobrovitskaia, N.N., et al. (1980, p.108-111, rus) **35-2981**

Environmental protection of the lower Ob' river area - Greshnova, E.V., (1980, p.136-137, rus) **35-3134**

Formation of gullies in tundra - Konstantinov, I.P., (1981, p.80-95, rus) **35-3287**

Permafrost investigations in economically developing areas of the USSR - Pavlov, A.V., ed. (1980, 183p., rus) **35-3305**

Landscape indications technique of forecasting permafrost conditions - Moskalenko, N.G., (1980, p.8-18, rus) **35-3307**

Revegetation of disturbed tundra soils - Skriabin, P.N., et al. (1980, p.23-31, rus) **35-3309**

Permafrost changes beneath pipelines. Turbina, M.I., (1980, p.31-36, rus) 35-3310
Artificial release of avalanches and its influence on the soil cover. Christa, R., (1979, p.175-181, ger) 35-3726

Soil formation

Aerial photography in soil mapping. Monakhov, A.K., (1980, p.455-356, rus) 35-109
Cryogenic phenomena in Kazakhstan and Central Asia. Gorbunov, A.P., ed. (1979, 145p., rus) 35-185
Soil formation on paleocryogenic fines. Gorbunova, I.A., (1979, p.122-130, rus) 35-194
Solutions and use of chronofunctions in studying soil development. Boekheim, J.G., (1980, p.71-85, eng) 35-220
Soil development on moraines of Taylor Glacier, lower Taylor Valley, Antarctica. Pastor, J., et al. (1980, p.341-348, eng) 35-225
Types of tundra soils. Elovskaia, I.G., et al. (1980, p.158-194, rus) 35-292
Origin and geography of forest soils. Korsunov, V.M., ed. (1980, 131p., rus) 35-295
Formation of Siberian loesses. Koliago, S.A., (1980, p.5-20, rus) 35-296
Loose surface deposits of the Angara River area. Gorbachev, V.N., (1980, p.21-39, rus) 35-297
Forest fire effects on soil formation in permafrost areas. Popova, E.P., (1980, p.40-52, rus) 35-298
Soil formation in mountain taiga. Ogorodnikov, A.V., (1980, p.58-72, rus) 35-300
Profiles of taiga soils. Korsunova, I.M., et al. (1980, p.85-103, rus) 35-302
Podsol soils of taiga. Korsunov, V.M., et al. (1980, p.104-128, rus) 35-303
Podsolization in northern taiga. Vasil'evskaia, V.D., et al. (1980, p.94-101, rus) 35-501
Soils of the lower Ob' forest tundra near the Urengoy deposit. Ivanov, V.V., et al. (1980, p.12-19, rus) 35-533
Pale yellow soils of northern taiga. Sokolov, I.A., et al. (1980, p.30-37, rus) 35-534
Alpine tundra soils of the northern Urals. Zaboeva, I.V., et al. (1974, p.3-9, rus) 35-687
Soils of northern peat bogs. Popov, V.A., (1974, p.10-16, rus) 35-688
Podsol soils of Central and Eastern European USSR (developed on loams). Rode, A.A., ed. (1980, 304p., rus) 35-877
Electrophysical properties of peat and their practical application. Lych, A.M., et al. (1980, 176p., rus) 35-937
Drainage effect on gleyed north taiga soils. Vartholomeev, I.A., et al. (1980, p.44-51, rus) 35-957
Soil formation in northern taiga. Sikonov, V.V., (1979, p.501-511, eng) 35-960
Environmental protection in tundra. Tiverovskii, I.A., et al. (1979, p.512-520, eng) 35-961
Genesis of gray forest soils. Akhtyrtsev, B.P., (1979, p.521-531, eng) 35-962
Soils of drained forest swamps. Melent'eva, N.V., (1980, 127p., rus) 35-1134
Central Siberian tundra soils. Vasil'evskaia, V.D., (1980, 235p., rus) 35-1281
Central Siberian tundra soils. Vasil'evskaia, V.D., (1980, 235p., rus) 35-1281
Productivity of North Karelia forests. Orlov, E.D., (1980, p.100-113, rus) 35-1327
Chemical composition of litter decaying in northern swamps. Egorova, R.A., et al. (1980, p.135-155, rus) 35-1329
Influence of water runoff redistribution on the natural conditions of Siberia. Saks, V.N., ed. (1980, 184p., rus) 35-1331
Peculiarities and conditions of formation of light podsol soils. Kul'shin, V.A., (1980, p.176-178, rus) 35-1342
Conference of young scientists, 3rd, Krasnoyarsk, 1971. Studies of the nature of Siberian forests. (1972, 325p., rus) 35-1373
Microbiology of Siberian swamp soils. Krapivina, L.A., (1972, p.186-189, rus) 35-1377
Soils of pine forests of different age. Sorokina, O.A., (1972, p.190-195, rus) 35-1378
Cryogenic soils of Karelia. Perevozchikova, E.M., et al. (1979, p.149-168, rus) 35-1419
Changes in northern swamps due to river flow control. Ivanov, K.E., et al. (1980, p.90-105, rus) 35-1430
Soils and vegetation of alassy. Destatkin, R.V., (1980, p.72-79, rus) 35-1568
Soils of Taymyr Peninsula. Vasil'evskaia, V.D., (1980, p.8-16, rus) 35-1612
Studying soil geography and landscape geochemistry in the Baykal Amur railroad zone. Snytko, V.A., ed. (1980, 184p., rus) 35-1627
Landscape types of the Baykal Amur railroad area. Kuz'min, V.A., (1980, p.11-98, rus) 35-1629
Soil formation in mountain taiga of the northern Amur region. Khismatullin, Sh.D., (1980, p.98-124, rus) 35-1630
Landscape types in the Muya River Basin. Nefed'eva, I.G., (1980, p.125-139, rus) 35-1631
Exogenic geologic processes and phenomena (Southern Yakutia). Ospennikov, E.N., et al. (1980, 227p., rus) 35-1701
All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct 29-31, 1980. Abstracts. (1980, 203p., rus) 35-2251
Origin, geography, classification and terminology of northern soils. Sokolov, I.A., et al. (1980, p.11-13, rus) 35-2254
Elementary processes in cryogenic tundra soils. Vasil'evskaia, V.D., (1980, p.28-29, rus) 35-2261
Soil formation in alpine tundra and taiga. Makeev, A.O., et al. (1980, p.30-31, rus) 35-2262
Cryogenic processes and soil formation in taiga. Gorbachev, V.N., (1980, p.32-33, rus) 35-2263
Indications of cryogenic soils. Gugalinskaia, L.A., (1980, p.33-35, rus) 35-2264
Cryogenic soils of the Selemdzha River Basin. Ivanov, G.I., et al. (1980, p.44-46, rus) 35-2267
Hydrothermal regime of deeply freezing saline soils. Voronina, L.V., et al. (1980, p.67-68, rus) 35-2273
Soil formation in different Alpine landscapes. Kuz'min, V.A., et al. (1980, p.71-73, rus) 35-2275
Cryogenic arid steppe soils. Snytko, V.A., (1980, p.78-79, rus) 35-2278
Soils of taiga and forested bald-peak areas. Ogorodnikov, A.V., (1980, p.81-83, rus) 35-2280
Cryogenic Alpine soils of Mongolia. Maksimovich, S.V., (1980, p.83-85, rus) 35-2281
Physical properties and moisture regime of meadow soils. Khudiakov, O.I., et al. (1980, p.102-104, rus) 35-2287
Development of grey forest soils. Alifanov, V.M., (1980, p.154-156, rus) 35-2304
Origin and evolution of Bol'shezemel'skaya Tundra soils. Fominykh, L.A., et al. (1980, p.159-161, rus) 35-2305
Cryogenic mountain-forest soils. Molokov, V.A., et al. (1980, p.167-169, rus) 35-2306
Influence of Pleistocene geocryology on recent soil formation. Vorob'eva, G.A., et al. (1980, p.169-171, rus) 35-2307
Buried soils in the Edoma formation of Yakutia. Gubin, S.V., (1980, p.171-173, rus) 35-2308
Cryogenic soils of tundra lake landscapes. Evseev, A.V., (1980, p.173-174, rus) 35-2309
Field manual for soil science (according to natural zones). Khantuleva, A.A., ed. (1980, 148p. (pertinent p.15-38), rus) 35-2443
Tundra and analogous soils. Everett, K.R., et al. (1981, p.139-179, eng) 35-2705
Soil processes in tundra. Stoboda, A.V., (1980, p.29-40, rus) 35-2762
Time for the formation of organic matter in the second humic zone of soddy-podsolic soils. Tolchel'nikov, R.S., et al. (1980, p.1473-1479, rus) 35-2766
Facies of soil cryogenesis and peculiarities of soil profile arrangement in them. Makeev, O.V., (1981, 87p., rus) 35-3053
Problems of Pleistocene paleogeography in glacial and periglacial regions. Velichko, A.A., ed. (1981, 251p., rus) 35-3293
Relic cryogenic microrelief near Vyaz'ma. Berdnikov, V.V., (1981, p.200-211, rus) 35-3294
Decomposition and accumulation of organic matter in tundra. Heal, O.W., et al. (1981, p.587-633, eng) 35-3393
Saline soils of West Siberia. Kurachev, V.M., et al. (1981, 152p., rus) 35-3568
Soil development on moraines of the Klutlan Glacier, Canada. Jacobson, G.L., et al. (1980, p.87-100, eng) 35-3719
Genesis of burozems and of brown forest and taiga soils similar to them. Ehwald, E., (1980, p.131-143, eng) 35-4154

Soil freezing

Heat transfer in freezing soils. Bronfenbrener, L.E., et al. (1980, p.6-8, rus) 35-101
Mathematical modeling and experimental study of heat and mass transfer processes. Bondarev, E.A., ed. (1979, 136p., rus) 35-233
Phase composition of sorption moisture at subzero temperature. Efimov, S.S., (1979, p.97-100, rus) 35-238
Thermophysical properties of freezing saline soils. Stepanov, A.V., (1979, p.101-105, rus) 35-239
Ground frost penetration and surface temperature. Fukuda, M., et al. (1980, p.71-80, jap) 35-272
Heat and mass transfer in a freezing unsaturated porous medium. Jame, Y.-W., et al. (1980, p.811-819, eng) 35-440
Freezing and melting temperatures of soil water. Homshaw, L.G., (1980, p.399-414, eng) 35-487
Soil freezing beneath cold-storage plants. Fedorovich, D.I., et al. (1970, p.81-83, eng) 35-498
Artificial freezing of the ground in underground construction. Trupak, N.G., (1979, 452p., eng) 35-704
Conference on Soil-Water Problems in Cold Region, 4th, 1979. (1980, 262p., eng) 35-724
Low temperature phase changes in moist, briny clays. Anderson, D.M., et al. (1980, p.139-144, eng) 35-728
Simple energy balance model of ice segregation. Outcalt, S., (1980, p.145-151, eng) 35-729
Freezing potentials in wet clays. 1. Early results. Hanley, T.O., et al. (1980, p.163-168, eng) 35-731
Freezing potentials in wet clays. 2. Specific systems. Rao, S.R., et al. (1980, p.169-175, eng) 35-732
Frost heave in an instrumented soil column. Berg, R., et al. (1980, p.211-221, eng) 35-737
Heat and moisture transfer in soils during freezing. Fukuda, M., et al. (1980, p.223-232, eng) 35-738
Numerical solution of soil freezing problems. Goodrich, L.E., (1980, p.237-242, eng) 35-740
Frost heave model based upon heat and water flux. Guymon, G.L., et al. (1980, p.253-262, eng) 35-742
Theory and application of ground freezing in civil engineering. Jessberger, H.L., (1980, p.3-27, eng) 35-815
Adsorption force theory of frost heaving. Takagi, S., (1980, p.57-81, eng) 35-819
Adsorbed film controversy. Miller, R.D., (1980, p.83-86, eng) 35-820
Ice formation in freezing fines. Danielian, IU.S., et al. (1979, p.89-94, rus) 35-873
Formation of ice laminae in freezing moist grounds. Danielian, IU.S., et al. (1980, p.103-107, rus) 35-874
Classification of cryogenic processes. Vtiurin, B.I., et al. (1980, p.13-22, rus) 35-950
Low soil temperature effect on soil metabolism. Meniailo, L.N., et al. (1980, p.70-74, rus) 35-958
Modeling moisture-ice fields in freezing fines. Kiuntsel', V.V., et al. (1980, p.80-84, rus) 35-968
Modeling moisture-ice fields in freezing fines. Kiuntsel', V.V., et al. (1980, p.80-84, rus) 35-968
Field studies of membrane encapsulated soil layers with additives. Eaton, R.A., et al. (1980, 46p., eng) 35-977
Land reclamation in non-chernozem areas. Aleksankin, A.V., et al. (1980, 288p., rus) 35-996
Unfrozen water in freezing clay soils. Merzliakov, V.P., (1980, p.20-24, rus) 35-1034
Temperature fields of concrete and earth dams. Zubkov, V.I., (1980, p.94-98, rus) 35-1035
Tunnel problems put on ice. (1980, p.32-33, eng) 35-1068
Low temperature effect on soil microorganisms. Rakhno, P.Kh., (1974, p.15-22, rus) 35-1203
Growth of bacteria in frozen soils. Tokhver, V., (1974, p.56-60, rus) 35-1205
Studying growth of microorganisms in freezing soils. Rakhno, P.Kh., (1974, p.61-67, rus) 35-1206
Frost effect on nitrogen transformations in soils. Khonnolainen, G., et al. (1974, p.136-139, rus) 35-1211
Thawing and freezing in tundra soils. Ryden, B.E., et al. (1980, p.251-281, eng) 35-1484
New approach to the morphological stability of the Stefan problem. Lièvre, C., et al. (1980, p.119-133, eng) 35-1497
Thermal variation of soil water tension during soil freezing. Takeda, K., et al. (1978, p.181-183, jap) 35-1556
Plastic covers for preventing frost heave. Voitov, S.A., (1979, p.75-84, rus) 35-1626
Subsurface drainage systems in soil freezing zones. Shtykov, V.I., (1980, p.53-56, rus) 35-1638
Swelling of frozen soils and its effect on structure foundations. Orlov, V.O., et al. (1980, 286p., eng) 35-1697
Ground freezing halts sewer collapse. (1980, p.85, eng) 35-1698
Ice formation in the active layer. Parmuzina, O.IU., (1980, p.131-152, eng) 35-1761
Freezing phenomena in soils. Miller, R.D., (1980, p.254-299, eng) 35-1781
Frost fracturing processes. Tumel', N.V., (1979, p.26-49, rus) 35-1829
Moisture redistribution in frozen soils (based on field observations). Parmuzina, O.IU., (1979, p.194-197, rus) 35-1840
Hydrology. Grushevskii, M.S., ed. (1980, 177p., rus) 35-1865
Gamma method of studying freezing soils. Lavrov, S.A., (1980, p.76-81, rus) 35-1872
Neumann solution applied to soil systems. Lunardini, V.J., (1980, 7p., eng) 35-1893
Pore-water pressure profile of a freezing soil. Fukuda, M., et al. (1980, p.31-36, eng) 35-1991
Supercooling and freezing temperatures of soil water. Shtykov, V.I., (1980, p.105-107, rus) 35-2288
Temperature and freezing of forest soils during drainage. Chesnokov, V.A., (1980, p.115-117, rus) 35-2292
Dynamics of thermal processes. Shvets, I.T., ed. (1980, 180p., rus) 35-2334
Temperature field of freezing ground. Tarabrin, V.A., et al. (1980, p.106-111, rus) 35-2336
Temperature field dynamics in freezing-thawing soils. Melamed, V.G., et al. (1975, p.52-62, eng) 35-2399
Construction effect on cryogenic soils. Garagulia, I.S., et al. (1975, p.70-80, eng) 35-2402
Soil moisture migration in freezing soils. Ershov, E.D., et al. (1976, p.89-91, eng) 35-2405
Vegetation and forest dynamics of the upper Dietrich River Valley, Alaska. Densmore, D., (1980, p.183p., eng) 35-2408
High altitude vegetation of West Sayan Mountains. Vlasenko, V.I., (1980, p.175-200, rus) 35-2483
Frost depth prediction for highway subgrade soils. Haas, W.M., et al. (1981, p.719-733, eng) 35-2533
Oxygen and hydrogen isotope effects on freezing of soil water. Michel, F., et al. (1978, 43p., eng) 35-2537

Soil freezing *(cont.)*

Hydrology. Grushevskii, M.S., ed. (1978, 224p., rus) **35-2699**

Soil freezing effect on the loss of meltwater runoff. Lysenko, T.A., et al. (1978, p.10-15, rus) **35-2700**

Ground water freezing temperatures. Lev, V.D., et al. (1980, p.16-20, rus) **35-2770**

Thermal interactions between ground and concrete piles. Andreev, V.V., et al. (1981, p.33-35, rus) **35-2786**

Role of naleds in water balance of river basins. Lebedev, V.M., et al. (1980, p.86-93, rus) **35-2879**

Effect of latent heat on frost penetration in moist soil. Hooper, F.C., et al. (1979, p.789-790, eng) **35-2889**

Roadbeds built of frost heave soils. Dobrov, E.M., et al. (1980, p.3-4, rus) **35-3003**

Bedrock heave in the central Canadian Arctic. Dyke, L.D. (1981, p.157-167, eng) **35-3085**

Forecasting thermal regime of frozen rocks beneath natural and artificial covers. Smorygin, G.I. (1980, 189p., rus) **35-3223**

Physical and mechanical properties of frozen peat soils. Roman, L.T. (1981, 134p., rus) **35-3225**

Heat and mass transfer in freezing ground. Kaliuzhnyi, I.L., et al. (1981, p.164-170, rus) **35-3301**

Frost heave mechanics. Konrad, J.-M. (1980, 472p., eng) **35-3405**

Building subsurface drainage in freezing weather. Viksne, A.A., et al. (1981, p.22-24, rus) **35-3536**

Some perspectives on frost shattering. McGreevy, J.P. (1981, p.56-75, eng) **35-3564**

Some approaches to modeling phase change in freezing soils. Hromadka, T.V., II, et al. (1981, p.137-145, eng) **35-3670**

Phase composition of water in frozen soils. Kaliuzhnyi, I.L., et al. (1978, p.255-260, eng) **35-3684**

Interphase surfaces in freezing moist ground. Danielian, R.S., et al. (1981, p.781-785, eng) **35-3818**

Vapor condensation in aeration zones at subzero temperatures. Papernov, I.M., et al. (1980, p.62-82, rus) **35-3996**

Alleviation of detrimental frost heaving of soils by chemical treatment. Yong, R.N., et al. (1979, 150p., eng) **35-4011**

Heat transfer between pipes and surrounding media. Ivashkova, V.K., et al. (1979, p.34-39, rus) **35-4057**

Microband fabric in seasonally frozen soils. Mermut, A.R., et al. (1981, p.578-586, eng) **35-4082**

Manual of engineering geology. Churinov, M.V., ed. (1981, 325p., rus) **35-4305**

Formation of meltwater losses. Kaliuzhnyi, I.I., et al. (1981, 160p., rus) **35-4311**

Soil mechanics

Dynamic properties of frozen silt under cyclic loading. Czajkowski, R.L., et al. (1980, p.963-980, eng) **35-526**

Mechanical properties of saline frozen grounds. Markin, K.F., (1973, p.28-49, rus) **35-1600**

Computer simulation of creep of clay. Pusch, R., et al. (1981, p.95-104, eng) **35-1675**

Soil infiltration on land treatment sites. Abele, G., et al. (1980, 41p., eng) **35-1726**

Experimental determination of the processes producing small polygonal sorted alpine soils. Pissart, A., (1974, p.241-248, fre) **35-1943**

Avalanche activity and geomorphological processes in the Salzburg Alps. Pippan, T., (1974, p.301-312, ger) **35-1948**

Present condition (1980) of the TAPS gravel workpad. Krzewinski, T.G., et al. (1981, p.678-692, eng) **35-2530**

Dynamic testing of free field stress gages in frozen soil. Aitken, G.W., et al. (1980, 26p., eng) **35-2601**

Laboratory and field use of soil tensiometers above and below 0 deg C. Ingersoll, J. (1981, 17p., eng) **35-3796**

Soil and permafrost surveys in the Arctic. Linell, K.A., et al. (1981, 279p., eng) **35-4128**

Soil microbiology

Microbiology of tundra and taiga soils. Stenina, T.A., (1974, p.35-42, rus) **35-690**

Podsol soils of Central and Eastern European USSR (developed on loams). Rode, A.A., ed. (1980, 304p., rus) **35-877**

Soil studies in Siberia and Kazakhstan. Orlovskii, N.V., (1979, 326p., rus) **35-878**

Drainage effect on paluded north taiga soils. Varfolomeev, L.A., et al. (1980, p.44-51, rus) **35-957**

Genesis of gray forest soils. Akhtyrtsev, B.P., (1979, p.521-531, eng) **35-962**

Dynamics of microbiological processes in soils and the factors influencing it. Pts. 1 and 2. Ryys, O., ed. (1974, 2 vols., rus) **35-1202**

Low temperature effect on soil microorganisms. Rakhno, P.Kh., (1974, p.15-22, rus) **35-1203**

Microbiology of cryogenic soils. Aristovskaia, T.V., et al. (1974, p.23-29, rus) **35-1204**

Growth of bacteria in frozen soils. Tokiver, V., (1974, p.56-60, rus) **35-1205**

Studying growth of microorganisms in freezing soils. Rakhno, P.Kh., (1974, p.61-67, rus) **35-1206**

Psychrophilic bacteria in cryogenic soils. Savvinova, I.N., (1974, p.68-70, rus) **35-1207**

Aerobic and anaerobic bacteria in podsols. Emtsev, V.T., et al. (1974, p.83-87, rus) **35-1208**

Bacterial activities in tundra soils. Parinkina, O.M., (1974, p.104-108, rus) **35-1210**

Frost effect on nitrogen transformations in soils. Khonnolainen, G., et al. (1974, p.136-139, rus) **35-1211**

Microbiology of Kola Peninsula swamp soils. Peteverzev, V.N., et al. (1974, p.140-142, rus) **35-1212**

Microorganisms of West Siberian soils. Klevenskaia, I.L., (1974, p.146-149, rus) **35-1213**

Seasonal variations in microbiology of Alpine soils. Naplekova, N.N., (1974, p.153-156, rus) **35-1214**

Microbiology of forest tundra soils. Ishchenko, N.F., (1974, p.118-121, rus) **35-1215**

Microbiology of taiga soils. Firsova, V.P., et al. (1974, p.147-150, rus) **35-1216**

Microflora of northern transition-type peat soils. Zagural'skaia, L.M., et al. (1980, p.114-123, rus) **35-1328**

Epiphyte algae of peat mosses. Antipina, G.S., (1980, p.167-175, rus) **35-1330**

Conference of young scientists, 3rd, Krasnoyarsk, 1971. Studies of the nature of Siberian forests. (1972, 325p., rus) **35-1373**

Microflora biomass in pine biocenoses. Aiunts, K.M., (1972, p.177-180, rus) **35-1376**

Microbiology of Siberian swamp soils. Krapivina, L.A., (1972, p.186-189, rus) **35-1377**

Microclimatology of mountain taiga. Molokov, V.A., (1972, p.268-275, rus) **35-1382**

Arctic ecosystem: the coastal tundra at Barrow, Alaska. Brown, J., ed. (1980, 571p., eng) **35-1929**

Tundra soil microflora. Bunnell, F.L., et al. (1980, p.255-290, eng) **35-1937**

Activities and decomposition of tundra soil microflora. Flanagan, P.W., et al. (1980, p.291-334, eng) **35-1938**

Crude oil spills on subarctic permafrost in interior Alaska. Johnson, L.A., et al. (1980, 67p., eng) **35-2001**

Biologic activity of taiga soils. Popova, E.P., (1980, p.98-100, rus) **35-2285**

Biological processes in Transbaikal soils. Kerzhentsev, A.S., (1980, p.100-102, rus) **35-2286**

Biologic productivity and nutrient cycles of cryogenic soils. Gershevich, E.G., (1980, p.183-186, rus) **35-2312**

Soil microflora and artificial lakes. Nikitina, Z.L., et al. (1979, p.63-75, rus) **35-2324**

Dynamics of forest biogeocenoses in Siberia. Smagin, V.N., ed. (1980, 208p., rus) **35-2474**

Microbiology of sedge-pine forest soils. Vishniakova, Z.V., (1980, p.130-144, rus) **35-2479**

Microbiology of cryogenic forest soils. Sorokin, N.D., (1980, p.113-130, rus) **35-2482**

New terms: "dynamics" and "ecogenesis" of biogeocenoses. Smagin, V.N., (1980, p.201-205, rus) **35-2484**

Analysis of water in the Martian regolith. Anderson, D.M., et al. (1979, p.33-38, eng) **35-2756**

Biocenotic role of animals in the Yamal forest tundra. Danilov, N.N., ed. (1977, 146p., rus) **35-2866**

Role of animals in Subarctic biogeocenoses. Danilov, N.N., (1977, p.3-30, rus) **35-2867**

Mycorhiza fungi and mycorhizae of forest-forming species in the North. Shubin, V.I., ed. (1980, 185p., rus) **35-3054**

Adenosine triphosphate, chlorophyll, and organic nitrogen in the dry valleys. Friedmann, E.I., et al. (1980, p.164-166, eng) **35-3193**

Tundra ecosystems: a comparative analysis. Bliss, L.C., ed. (1981, 813p., eng) **35-3373**

Microflora of tundra. Holding, A.J., (1981, p.561-585, eng) **35-3392**

Biological cycle in forest tundras of the southern Magadan area. Ignatenko, I.V., ed. (1979, 164p., rus) **35-4323**

Algae in cryogenic soils. Pivovarova, Zh.F., et al. (1979, p.125-133, rus) **35-4329**

Humification processes in soils of the Okhotsk Sea area. Andreev, D.P., (1979, p.146-149, rus) **35-4331**

Alpine tundras of the Bol'shoy Annachag Range (upper course of the Kolyma River). Berman, D.I., ed. (1980, 178p., rus) **35-4332**

Microbiology of Alpine tundra soils. Kulichevskaia, I.S., (1980, p.68-77, rus) **35-4336**

Soil physics

Ecology of subarctic mire. Sonesson, M., ed. (1980, 313p., eng) **35-1470**

Physical properties of the tundra soil-water system at Stordalen, Abisko. Ryden, B.E., et al. (1980, p.27-54, eng) **35-1472**

Soil pollution

Environmental impact of highway deicing. Bäckman, L., (1980, 62p. + tables, swe) **35-570**

Revegetation-restoration for the Trans-Alaska pipeline system. Hubbard, G.E., (1980, p.113-125, eng) **35-584**

Occurrence of salt and lead in snow dump sites. Scott, W.S., (1980, p.187-195, eng) **35-706**

Water pollution from snow removal operations. Pierstorff, B.W., et al. (1980, p.377-388, eng) **35-851**

Petroleum industry impact on Alaska's south shore. Jackson, J.B., et al. (1980, 78p., eng) **35-861**

Environmental protection in mining areas. Efendiev, E.A., (1980, p.43-49, rus) **35-2189**

Deicing salts and growth of trees and shrubs along roads. Buschena, C., et al. (1980, 31p., eng) **35-2942**

Self-cleaning of polluted soils in cold regions. Shchetnikov, A.I., (1980, p.84-89, rus) **35-3477**

Influence of deicing salts on soil and turf cover. Brod, H.G., et al. (1980, p.461-468, eng) **35-3771**

Minimizing roadway salt problems in Maine (Abridgment). Jacobs, K.M., et al. (1980, p.25-27, eng) **35-3789**

Soil pollution by hydrocarbons. Solntseva, N.P., (1981, p.50-58, rus) **35-4278**

Soil pressure

Pressure distribution in frozen soils. Groenevelt, P.H., et al. (1979, p.582-591, eng) **35-436**

Summary of the adsorption force theory of frost heaving. Takagi, S., (1980, p.233-236, eng) **35-739**

Model for the prediction of ice lensing and frost heave in soils. Gilpin, R.R., (1980, p.918-930, eng) **35-1492**

Soil profiles

Spore-pollen analysis of recent tundra deposits. Savvinova, G.M., (1980, p.85-91, rus) **35-287**

Origin and geography of forest soils. Korsunov, V.M., ed. (1980, 131p., rus) **35-295**

Loose surface deposits of the Angara River area. Gorbachev, V.N., (1980, p.21-39, rus) **35-297**

Profiles of taiga soils. Korsunova, T.M., et al. (1980, p.85-103, rus) **35-302**

Podsolization in northern taiga. Vasil'evskaia, V.D., et al. (1980, p.94-101, rus) **35-501**

Spectral reflectivity of cryogenic soils. Sadovnikov, I.N., (1980, p.45-52, rus) **35-535**

Pedology of the Darwin Glacier area. Bockheim, J.G., et al. (1979, p.58-59, eng) **35-647**

Materials on the soils of Komi ASSR. Zaboeva, I.V., ed. (1974, 96p., rus) **35-686**

Alpine tundra soils of the northern Urals. Zaboeva, I.V., et al. (1974, p.3-9, rus) **35-687**

Humus profile of taiga podsols. Archegova, I.B., (1974, p.43-49, rus) **35-691**

Erosion of cryogenic soils. Kerzhentsev, A.S., (1976, p.66-77, rus) **35-803**

Taiga soils with second humus layer. Nechaeva, E.G., (1980, p.169-206, rus) **35-882**

Influence of high water stage on shores of deep reservoirs of Siberia (the Krasnoyarsk reservoir taken as an example). Kuskovskii, V.S., (1980, p.140-143, rus) **35-1341**

Soils of Taymyr Peninsula. Vasil'evskaia, V.D., (1980, p.8-16, rus) **35-1612**

Cryogenic processes and soil formation in taiga. Gorbachev, V.N., (1980, p.32-33, rus) **35-2263**

Indications of cryogenic soils. Gugalinskaia, L.A., (1980, p.33-35, rus) **35-2264**

Origin of loams in Vorkuta tundra. Archegova, I.B., (1980, p.37-39, rus) **35-2265**

Cryogenic soils of the Selemdzha River Basin. Ivanov, G.I., et al. (1980, p.44-46, rus) **35-2267**

Cryogenic processes in mountain and lowland soils. Khavkina, N.V., et al. (1980, p.51-53, rus) **35-2268**

Soils of taiga and forested bald-peak areas. Ogorodnikov, A.V., (1980, p.81-83, rus) **35-2280**

Biological processes in Transbaikal soils. Kerzhentsev, A.S., (1980, p.100-102, rus) **35-2286**

Thermal regime of cryogenic soils in Transbaikal. Russkikh, A.M., (1980, p.131-132, rus) **35-2297**

Evaluating the landscape conditions of soil formation. Uchvatov, V.P., (1980, p.152-154, rus) **35-2303**

Development of grey forest soils. Altfanov, V.M., (1980, p.154-156, rus) **35-2304**

Cryogenic mountain-forest soils. Molokov, V.A., et al. (1980, p.167-169, rus) **35-2306**

Field manual for soil science (according to natural zones). Khantuleva, A.A., ed. (1980, 148p. (pertinent p.15-38), rus) **35-2443**

Soil mantle in the permafrost-taiga region. Sokolov, I.A., (1980, p.17-28, eng) **35-2761**

Soil processes in tundra. Sloboda, A.V., (1980, p.29-40, rus) **35-2762**

Thixotropic nongleyed cryogenic soils. Sokolov, I.A., (1980, p.41-55, eng) **35-2763**

Time for the formation of organic matter in the second humic zone of soddy-podsolic soils. Tolchel'nikov, R.S., et al. (1980, p.1475-1478, rus) **35-2766**

Facies of soil cryogenesis and peculiarities of soil profile arrangement in them. Makeev, O.V., (1981, 87p., rus) **35-3053**

Soil development and rock weathering in the Ellsworth Mountains. Bockheim, J.G., et al. (1980, p.33-34, eng) **35-3170**

Problems of Pleistocene paleogeography in glacial and periglacial regions. Velichko, A.A., ed. (1981, 251p., rus) **35-3293**

Soil science

Adenosine triphosphate, chlorophyll, and organic nitrogen in the dry valleys. Friedmann, E.I., et al. (1980, p.164-166, eng) **35-3193**

Soil stabilization

Cements for swamp soil stabilization. Vasil'eva, M.P., et al. (1980, p.23-24, rus) **35-313**

Increasing frost resistance of cement soil layer soils. Dudkin, A.S., et al. (1980, p.7-8, rus) **35-476**

Soil stabilization technique for freezing weather. Asmatulaev, B.A., (1980, p.9-10, rus) **35-477**

Saline soil stabilization with waste cinders. Ashurov, U., [1980, p.16-17, rus] 35-479
Deformation of cemented clayey soils. Petrukhin, V.P., et al, [1980, p.51-57, eng] 35-496
Cement injection technique for thawed permafrost. Shugalei, R.T., et al, [1980, p.63-64, rus] 35-597
Exhibition: Foundation construction in the USSR. Smirnov, L.V., [1980, p.42-45, rus] 35-608
Deep stabilization of soils with synthetic resins. Bleskina, N.A., et al, [1980, 147p., rus] 35-875
Road pavements of cemented earth. Khabibullina, E.N., [1980, p.11-12, rus] 35-918
Field studies of membrane encapsulated soil layers with additives. Eaton, R.A., et al, [1980, 46p., eng] 35-977
Equipment for chemical soil stabilization. Muliukov, E.I., et al, [1980, p.21-22, rus] 35-1028
International geological congress, 26th, 1979. Hydrogeology, engineering geology and construction materials. Reports of soviet geologists. Kulikov, G.V., ed, [1980, 247p., rus] 35-1349
Fly-ash cement for soil stabilization. Voronkevich, S.D., et al, [1980, p.204-212, rus] 35-1354
Tension resistant inclusions in soils. Andrawes, K.Z., et al, [1980, p.1313-1326, eng] 35-1494
Heat treatment of unstable clay slopes. IUrdanov, A.P., [1980, p.39-40, rus] 35-1530
Bases and foundations. [1976, 96p., rus] 35-1715
Subgrade cooling for stabilization of permafrost beneath structures. Barthelemy, J.L., [1980, p.235-261, eng] 35-1980
Cryo-anchor-proven performance for Arctic foundation stabilization. Cady, E.C., [1980, p.262-278, eng] 35-1981
Permafrost and construction work in Svalbard. Mellerud, O.T., [1980, p.39-43, nor] 35-1992
Thixotropic stabilization of clays. Kozhobaev, K.A., [1976, p.92-94, eng] 35-2407
Winter road construction on shifting sands. Shumilov, L.D., [1980, p.22, rus] 35-2638

Soil Stabilization

Polymer fabrics for soil stability in foundation construction. [1981, p.14, eng] 35-2839

Soil stabilization

Problems in roadbed stability of the Ching-hai Tibet highway. [1979, p.43-51, chi] 35-2902
Chemical stabilization of soils. Sokolovich, V.E., [1980, 119p., rus] 35-2952
Frost resistant road toppings. Khabibullina, E.N., et al, [1980, p.14-15, rus] 35-3006
Possibility of artificial strengthening of clay soils. Zhikhovich, V.V., [1981, p.7-11, rus] 35-3337
Cements for stabilizing loess and clay soils. Zgadzai, L.K., et al, [1981, p.113-117, rus] 35-3461
Bioengineering for land reclamation and conservation. Schiechtl, H., [1980, 404p., eng] 35-3595
Plant growth on a gravel soil: greenhouse studies. Palazzo, A.J., et al, [1981, 8p., eng] 35-3692
Bank stabilization, Bethel, Alaska. [1981, 63p. + appends., eng] 35-3812
Glacial sands and mechanical durability of lithic fragments. Slatt, R.M., et al, [1981, p.171-183, eng] 35-4023

Soil strength

Foundation performance of a steel tower silo at Richmond, Ontario. Scott, J.D., et al, [1980, p.85-89, eng] 35-277
Stability of slopes in permafrost. McRoberts, E.C., [1973, 370p., eng] 35-708
Craters in ice and ice-saturated sand on Mars. Croft, S.K., et al, [1979, p.8023-8032, eng] 35-1101
Clay soil strength and water saturation. Ivanov, I.P., et al, [1980, p.31-39, rus] 35-1567
Terrain-vehicle model for analysis of steerability of tracked vehicles. Baladi, G.Y., et al, [1980, p.135-149, eng] 35-1586
Strength of frozen saline loams. Aksenov, V.I., [1973, p.50-54, rus] 35-1601
Strength of frozen sandy loam. Artemov, Z.P., [1973, p.55-61, rus] 35-1602
Testing peat strength with different dies. Dimov, L.A., et al, [1980, p.12-14, rus] 35-1634
Overconsolidated surficial deposits on the Beaufort Sea shelf. Reimnitz, E., et al, [1980, 37p., eng] 35-1914
Large scale development of remote housing in subarctic areas. Robertson, W.A., et al, [1980, p.426-438, eng] 35-2132

Soil structure

Properties and classification of some cold desert soils. Bockheim, J.G., [1980, p.45-69, eng] 35-219
Soil maps of tundra and forest tundra. Liverovskaia, I.T., [1980, p.18-22, rus] 35-1287
Influence of Pleistocene geocryology on recent soil formation. Vorob'eva, G.A., et al, [1980, p.169-171, rus] 35-2307
Geocryology of the Khangay Mountains (Mongolia). Chigir, V.G., [1980, p.175-177, rus] 35-2310
Soil cover structure in Alpine tundras. Ignatenko, I.V., et al, [1980, p.54-67, rus] 35-4335

Soil surveys

Alpine soil factors in disturbance and revegetation. Burns, S.F., [1980, p.210-227, eng] 35-592
Environmental studies in the central Quebec Labrador peninsula. Moore, T.R., ed, [1981, 141p., eng] 35-3975
Soil and permafrost surveys in the Arctic. Linell, K.A., et al, [1981, 279p., eng] 35-4128

Soil temperature

Techniques for measuring soil surface temperature. Smirnov, S.A., [1972, 11p., eng] 35-247
Forecasting tundra soil temperature. Savvinov, D.D., [1980, p.195-200, rus] 35-293
Mountain forests of the Baykal Amur railroad zone. Panarin, I.I., et al, [1980, 224p., rus] 35-936
Meteorological consequences of natural or deliberate changes in the surface environment. Vowinckel, E., et al, [1980, p.87-110, eng] 35-1008
Proposed history of permafrost development in Labrador-Ungava. Ives, J.D., [1979, p.233-244, eng] 35-1041
Thermal vertical supports for the trans-Alaska pipeline. Pearson, S.W., [1979, p.225-231, eng] 35-1109
Surface heat balance in simulations of permafrost behavior. Miller, T.W., [1979, p.240-250, eng] 35-1110
Central Siberian tundra soils. Vasil'evskaia, V.D., [1980, 235p., rus] 35-1281
Physical weathering in Taylor Valley. Miotke, F.-D., [1979, p.117-142, ger] 35-1310
Studies of forest soils and vegetation in the northeastern USSR. Shcherbakov, I.P., ed, [1971, 176p., rus] 35-1390
Thermal and water regimes of Yakutian soils. Savvinov, D.D., [1971, p.118-175, rus] 35-1396
Seasonal development of tundra plants. Deeva, N.M., [1980, p.59-96, rus] 35-1405
Model for the prediction of ice lensing and frost heave in soils. Gilpin, R.R., [1980, p.918-930, eng] 35-1492
Temperatures of north taiga soils. Krauklis, A.A., et al, [1980, p.61-70, rus] 35-1705
Designing drainage systems for northern swamps. Popov, IU.A., et al, [1980, p.27-28, rus] 35-1863
Removal of organics by overland flow. Martel, C.J., et al, [1980, 9p., eng] 35-2052
Waste heat utilization through soil heating. McFadden, T., et al, [1980, p.105-120, eng] 35-2112
Studies of utility construction in cold regions. Fielding, M.B., [1980, p.136-139, eng] 35-2114
Use of a geothermal model in northern municipal projects. Kent, D., et al, [1980, p.317-331, eng] 35-2126
All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct. 29-31, 1980. Abstracts. [1980, 203p., rus] 35-2251
Soil preservation in permafrost and deep seasonal freezing areas. Kovda, V.A., et al, [1980, p.5-8, rus] 35-2252
Soil formation in sporadic permafrost areas. Sazonov, A.G., [1980, p.39-41, rus] 35-2266
Thermal resources of soils with deep seasonal freezing. Chigir, V.G., [1980, p.55-58, rus] 35-2269
Seasonal thawing depth in tundras. Tumel', N.V., [1980, p.59-60, rus] 35-2270
Induced changes in Subarctic soil temperatures. Pereverzev, V.N., et al, [1980, p.61-62, rus] 35-2271
Thermal regime of deeply freezing forest soils. Gorbachev, V.N., [1980, p.69-70, rus] 35-2274
Land reclamation in areas of discontinuous permafrost. Zamana, L.V., [1980, p.73-75, rus] 35-2276
Hydrothermal regimes of cryogenic soils. Kulikov, A.I., et al, [1980, p.76-78, rus] 35-2277
Winter soil temperature maps of the Northeastern USSR. Mikhailov, V.M., [1980, p.90-93, rus] 35-2283
Relations between zero-isotherm depths and frozen layer thicknesses. Vecherskii, S.S., [1980, p.96-98, rus] 35-2284
Supercooling and freezing temperatures of soil water. Shtykov, V.I., [1980, p.105-107, rus] 35-2288
Temperature and freezing of forest soils during drainage. Chesnokov, V.A., [1980, p.115-117, rus] 35-2292
Thermal regime of forest soils. Shugalei, L.S., et al, [1980, p.129-131, rus] 35-2296
Thermal regime of cryogenic soils in Transbaikal. Russkikh, A.M., [1980, p.131-132, rus] 35-2297
Changes in cryogenic soil temperature due to cultivation. Khudiakov, O.I., et al, [1980, p.134-136, rus] 35-2298
Cryogenic soil temperatures in fellage areas. Krasnoshchekov, IU.N., [1980, p.136-137, rus] 35-2299
Moss cover effect on soil temperature. Buzykin, A.I., [1980, p.141-143, rus] 35-2300
Taiga soil temperature in fellage areas. Sorokin, N.D., [1980, p.143-144, rus] 35-2301
Relation between water-intake types in rivers and soil temperature. Solomennik, S.F., [1980, p.150-151, rus] 35-2302
Radiation regime of southern tagia. Grigor'ev, G.N., [1980, p.49-109, rus] 35-2488
Climate and microclimate of taiga. Trofimova, I.E., [1980, p.144-182, rus] 35-2490
Methane productions in sanitary landfills in cold regions. Dickason, O.E., et al, [1981, p.507-511, eng] 35-2521
Ground temperature studies at an arctic drained lake site. Judge, A., et al, [1981, p.642-658, eng] 35-2527
Horizontal distribution of permafrost in China. Ding, D., et al, [1981, p.659-663, eng] 35-2528
Hydrothermal and physical properties of northern taiga soils. Verkholantseva, L.A., [1971, p.51-53, rus] 35-2609
Biochemical processes in Far North taiga soils. Zaboeva, I.V., et al, [1971, p.58-59, rus] 35-2610
Remote measuring and auto-recording of ground temperature. Yu, J., et al, [1980, p.7-9, chi] 35-2650
Piles in permafrost for bridge foundations. Crory, F.E., et al, [1967, 41p., eng] 35-2753
Vegetation effect on hydrothermal regime of tundra soils. Skriabin, S.Z., et al, [1981, p.82-86, rus] 35-2769
Thermal interactions between ground and concrete piles. Andreev, V.V., et al, [1981, p.33-35, rus] 35-2786
Measuring ground temperature of permafrost with thermistor. Cheng, G., [1980, p.66-68, chi] 35-2923
Calculation and control of cryogenic regime of soil. Pavlov, A.V., [1980, 240p., rus] 35-2947
Soil temperature variations due to river diversion. Seriakova, L.P., et al, [1980, p.107-109, rus] 35-3125
Microclimate and weathering processes in the area of Darwin Mountains and Bull Pass, Dry Valleys. Miotke, F.-D., [1980, p.14-16, eng] 35-3168
Moisture migration in earth dams. Chzhan, R.V., [1981, p.117-121, rus] 35-3289
Heat balance of soils with disturbed and undisturbed vegetational cover. Ivanova, I.I., et al, [1980, p.19-23, rus] 35-3308
Climate and hydrology of permafrost areas. Bachurin, G.V., et al, [1980, p.3-41, rus] 35-3414
Physiological processes in plants of Central Yakutia. Kononov, K.E., [1981, p.39-45, rus] 35-3509
Runoff from a surface study plot. Bengtsson, L., et al, [1979, 12p., eng] 35-3629
Soil heat-balance regime in the north of the USSR. Pavlov, A.V., [1981, p.129-135, eng] 35-3669
Thermal and hydraulic design of pipelines for oil and petroleum products. Agapkin, V.M., et al, [1981, 256p., rus] 35-3931
Vegetation of the Valday taiga. Glazov, M.V., [1979, p.10-29, rus] 35-4118

Soil texture

Tundra soils and their nutrients. Gersper, P.L., et al, [1980, p.219-254, eng] 35-1936
Microband fabric in seasonally frozen soils. Mermut, A.R., et al, [1981, p.578-586, eng] 35-4082

Soil trafficability

Snow pads for pipeline construction in Alaska. Johnson, P.R., et al, [1980, 28p., eng] 35-2584

Soil water

Freeze-dried and critical-point-dried clay - a comparison. Murray, R.S., et al, [1980, p.232-234, eng] 35-224
Forest fire effects on soil formation in permafrost areas. Popova, E.P., [1980, p.40-52, rus] 35-298
Response of an alpine watershed to snowmelt. Jordan, R.P., [1979, p.323-333, eng] 35-420
Freezing and melting temperatures of soil water. Homshaw, L.G., [1980, p.399-414, eng] 35-487
Edaphic factors and their influence in patterns of tundra revegetation. Everett, K.R., [1980, p.30-37, eng] 35-579
Frost heave in an instrumented soil column. Berg, R., et al, [1980, p.211-221, eng] 35-737
Numerical solution of soil freezing problems. Goodrich, L.E., [1980, p.237-242, eng] 35-740
Computation of rate of heave versus load under quasi-steady state. Miller, R.D., et al, [1980, p.243-251, eng] 35-741
Remote sensing of soil moisture. Kondrat'ev, K.IA., et al, [1977, p.66-76, rus] 35-901
Classification of cryogenic processes. Vtiurin, B.I., et al, [1980, p.13-22, rus] 35-950
Review of techniques for measuring soil moisture *in situ*. McKim, H.L., et al, [1980, 17p., eng] 35-976
Field studies of membrane encapsulated soil layers with additives. Eaton, R.A., et al, [1980, 46p., eng] 35-977
Forest-floor nitrogen dynamics in a birch ecosystem, Alaska. Van Cleve, K., et al, [1980, p.359-381, eng] 35-988
Snow retention in steppes. Tarasenko, A.N., et al, [1978, p.4-11, rus] 35-1092
Consolidation of weak clay soils. Razor[illegible]v, N.I., [1979, p.94-98, rus] 35-1279
Physical properties of the tundra soil-water system at Stordalen, Abisko. Ryden, B.E., et al, [1980, p.27-54, eng] 35-1472
Tundra and climatic factors. Ryden, B.E., [1980, p.55-62, eng] 35-1473
Diurnal variation of soil water tension during soil freezing. Takeda, K., et al, [1978, p.181-183, jap] 35-1556
Clay soil strength and water saturation. Ivanov, I.P., et al, [1980, p.31-39, rus] 35-1567
Ice formation in the active layer. Parmuzina, O.IU., [1980, p.131-152, eng] 35-1761
Freezing phenomena in soils. Miller, R.D., [1980, p.254-299, eng] 35-1781
Tundra soils and their nutrients. Gersper, P.L., et al, [1980, p.219-254, eng] 35-1936
On the theory of frost heave. Förland, T., et al, [1980, p.45-48, eng] 35-1993
Snow management for crop production on the Canadian prairies. Steppuhn, H., [1980, p.50-61, eng] 35-2226

Soil water ***(cont.)***

Controlling hydrothermal regime of cryogenic soils. Konstantinov, V.D., et al. (1980. p.122-124. rus) **35-2294**

Microwave remote sensing of snow and soil moisture. Tsang, L., et al. (1980. p.3465-3485. eng) **35-2410**

Analysis of water in the Martian regolith. Anderson, D.M., et al. (1979. p.33-38. eng) **35-2756**

Effect of snowmelt on water quality. Sigel, D.L. (1980. p.238-242. eng) **35-2797**

Effect of latent heat on frost penetration in moist soil. Hooper, F.C., et al. (1979. p.789-790. eng) **35-2889**

Microclimate and weathering processes in the area of Darwin Mountains and Bull Pass, Dry Valleys. Miotke, F.-D. (1980. p.14-16. eng) **35-3168**

Distribution and variability of soils near Atkasook, Alaska. Everett, K.R. (1980. p.433-446. eng) **35-3198**

Two low Arctic vegetation maps near Atkasook, Alaska. Komarkova, V., et al. (1980. p.447-472. eng) **35-3199**

Relation between strength and water saturation of frozen ground. Dertugin, A.G., et al. (1980. p.45-53. rus) **35-3284**

Soil hydraulic conductivity and moisture retention features. Ingersoll, J. (1981. 11p. eng) **35-3644**

Some approaches to modeling phase change in freezing soils. Hromadka, T.V., II, et al. (1981. p.137-145. eng) **35-3670**

Laboratory and field use of soil tensiometers above and below 0 deg C. Ingersoll, J. (1981. 17p. eng) **35-3796**

Evaluation of soil moisture from space photographs. Nazirov, M., et al. (1980. p.115-122. eng) **35-3797**

Modeling N transport and transformations in soils. Selim, H.M., et al. (1981. p.233-241. eng) **35-4081**

Vegetation of the Valday taiga. Glazov, M.V. (1979. p.10-29. rus) **35-4118**

Transition zone between taiga and swamps. Armand, A.D. (1979. p.194-213. rus) **35-4125**

Soil water migration

Frozen soil and ground water. Wen, B. (1980. p.21. chi) **35-82**

Soil water migration in seasonally frozen zones. Zhon, Y. (1980. p.46-53. chi) **35-89**

Heat transfer in freezing soils. Bronfenbrener, L.E., et al. (1980. p.6-8. rus) **35-101**

Designing pile foundations for sagging grounds. Klepikov, S.N., et al. (1980. p.53-58. rus) **35-229**

Studying artificial freezing parameters for driving horizontal workings. Sasonov, I.D., et al. (1980. 248p. rus) **35-384**

Pressure distribution in frozen soils. Groenevelt, P.H., et al. (1979. p.582-591. eng) **35-436**

Heat and mass transfer in a freezing unsaturated porous medium. Jame, Y.-W., et al. (1980. p.811-819. eng) **35-440**

Conference on Soil-Water Problems in Cold Region, 4th, 1979. (1980. 262p., eng) **35-724**

Thermally induced water migration in frozen soils. Perfect, E., et al. (1980. p.101-109. eng) **35-725**

Snowmelt infiltration into seasonally frozen soils. Kane, D.L. (1980. p.153-161. eng) **35-730**

Freezing potentials in wet clays. 2. Specific systems. Rao, S.R., et al. (1980. p.169-175. eng) **35-732**

Experimental studies with frozen soil in an "ice sandwich" permeameter. Horiguchi, K., et al. (1980. p.177-183. eng) **35-733**

Heat and moisture transport similar to those in permafrost. Hayes, L.J., et al. (1980. p.185-192. eng) **35-734**

Heat and moisture transfer in soils during freezing. Fukuda, M., et al. (1980. p.223-232. eng) **35-738**

Summary of the adsorption force theory of frost heaving. Takagi, S. (1980. p.233-236. eng) **35-739**

Frost heave model based upon heat and water flux. Guymon, G.L., et al. (1980. p.253-262. eng) **35-742**

Moisture dynamics of tagia soils. Sazonov, A.G. (1973. p.55-62. rus) **35-763**

Adsorption force theory of frost heaving. Takagi, S. (1980. p.57-81. eng) **35-819**

Moving boundary problems in the hydrodynamics of porous media. Nakano, Y. (1978. p.125-134. eng) **35-843**

Ice formation in freezing fines. Danielian, II.S., et al. (1979. p.89-94. rus) **35-873**

Formation of ice laminae in freezing moist grounds. Danielian, II.S., et al. (1980. p.103-107. rus) **35-874**

Land reclamation in no-chernozem areas. Aleksankin, A.V., et al. (1980. 28 p., rus) **35-996**

Active layer hydrology in discontinuous permafrost. Wright, R.K. (1979. p.359-368. eng) **35-1050**

Diversion of a part of the Irtysh River waters. Petrov, I.B. (1980. p.110-114. rus) **35-1339**

Bearing strength of frozen fines. Vrachev, V.V., et al. (1980. p.73-80. rus) **35-1389**

Studies of forest soils and vegetation in the northeastern USSR. Shcherbakov, I.P., ed. (1971. 176p., rus) **35-1390**

Thermal and water regimes of Yakutian soils. Savvinov, D.D. (1971. p.118-175. rus) **35-1396**

Recent soil processes and fertility of Karelian soils. P'iavchenko, N.I., ed. (1979. 174p., rus) **35-1417**

Water soluble substances in podsolized sandy and loam soils. Strelkova, A.A. (1979. p.3-22. rus) **35-1418**

Geotechnical properties of fine-grained permafrost soils. Ruggensack, W.D. (1977. 449p., eng) **35-1467**

Model for the prediction of ice lensing and frost heave in soils. Gilpin, R.R. (1980. p.918-930. eng) **35-1492**

Methodology for foundations on expansive clays. O'Neill, M.W., et al. (1980. p.1345-1367. eng) **35-1495**

Sub-surface processes related to ground water and ice. Embleton, C., et al. (1979. p.187-212. eng) **35-1687**

Soil infiltration on land treatment sites. Abele, G., et al. (1980. 41p., eng) **35-1726**

Moisture redistribution in frozen soils (based on field observations). Parmuzina, O.IU. (1979. p.194-197. rus) **35-1840**

Hydrology. Grushevskii, M.S., ed. (1980. 177p., rus) **35-1865**

Gamma method of studying freezing soils. Lavrov, S.A. (1980. p.76-81. rus) **35-1872**

Pore-water pressure profile of a freezing soil. Fukuda, M., et al. (1980. p.31-36. eng) **35-1991**

All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct. 29-31, 1980. Abstracts. (1980. 203p., rus) **35-2251**

Concepts, terminology and classification of freezing soils. Sokolov, I.A., et al. (1980. p.9-10. rus) **35-2253**

Chemical element transfer in freezing soils. Zolotareva, B.N., et al. (1980. p.65-66. rus) **35-2272**

Hydrothermal regimes of cryogenic soils. Kulikov, A.I., et al. (1980. p.76-78. rus) **35-2277**

Soil water reserves in permafrost areas. Oznobikhin, V.I., et al. (1980. p.80-81. rus) **35-2279**

Supercooling and freezing temperatures of soil water. Shtykov, V.I. (1980. p.105-107. rus) **35-2288**

Migration and crystallization of substances in tundra soils. Zvereva, T.S., et al. (1980. p.107-109. rus) **35-2289**

Relation between water-intake types in rivers and soil temperature. Solomennik, S.F. (1980. p.150-151. rus) **35-2302**

Thermally actuated water migration in frozen soils. Williams, P.J., et al. (1980. 74p., eng) **35-2317**

Dynamics of thermal processes. Shvets, I.T., ed. (1980. 180p., rus) **35-2334**

Temperature field of freezing ground. Tarabrin, V.A., et al. (1980. p.106-111. rus) **35-2336**

Soil moisture migration in freezing soils. Ershov, E.D., et al. (1976. p.89-91. eng) **35-2405**

Frost heave of roads. Jones, R.H. (1980. p.77-86. eng) **35-2468**

Forecasting and controlling soil moisture in roadbeds. Korsunskii, M.B., et al. (1980. p.17-19. rus) **35-2637**

Ground water freezing temperatures. Lev, V.D., et al. (1980. p.16-20. rus) **35-2770**

Thermal interaction between ground and concrete piles. Andreev, V.V., et al. (1981, p.33-35, rus) **35-2786**

Pore water pressure of saturated gravel during freezing. Chen, X., et al. (1980. p.33-37. chi) **35-2916**

Studying catchment areas in swamps from aerial photographs. Savel'eva, T.S. (1980. p.93-99. rus) **35-2979**

Moisture migration in earth dams. Chzhan, R.V. (1981. p.117-121. rus) **35-3289**

Heat and mass transfer in freezing ground. Kaliuzhnyi, I.L., et al. (1981. p.164-170. rus) **35-3301**

Irrigation of cryogenic meadow soils. Ugarov, I.S., et al. (1980. p.53-59. rus) **35-3315**

Frost heave mechanics. Konrad, J.-M. (1980. 472p., eng) **35-3405**

Climate and hydrology of permafrost areas. Bachurin, G.V., et al. (1980. p.3-41. rus) **35-3414**

Water resources of small river basins. Antipov, A.N. (1980. p.175-184. rus) **35-3424**

Mathematical models of water balance in permafrost areas. Nikitin, S.P. (1980. p.213-218. rus) **35-3428**

Physical framework for describing the genesis of ground ice. Pavlik, H.F. (1980. p.531-548., eng) **35-3555**

Phase composition of water in frozen soils. Kaliuzhnyi, I.L., et al. (1978. p.255-260. eng) **35-3684**

Interphase surfaces in freezing moist ground. Danielian, II.S., et al. (1981. p.781-785. eng) **35-3818**

Runoff characteristics in polar regions. Nasybulin, Sh.S. (1976. p.32-41. rus) **35-3827**

Dynamics of soil water runoff in permafrost areas. Khersonskii E.S., et al. (1980. p.37-43. rus) **35-3993**

Chart of ground water movement in East Siberia. Piguzova, V.M. (1980. p.135-138. rus) **35-4003**

Microclimate and transpiration of taiga soils. Grishina, L.A., et al. (1979. p.70-85. rus) **35-4120**

Seasonal variations of soil water composition in taiga. Grishina, L.A., et al. (1979. p.86-104. rus) **35-4121**

Formation of meltwater losses. Kaliuzhnyi, I.I., et al. (1981. 160p., rus) **35-4311**

Soils

Soils of Siberia and the Far East; a current bibliography. (1978. 2 volumes, rus) **35-852**

Soils of Siberia and the Far East; a current bibliography. (1978. 4 volumes, rus) **35-853**

Soils of Siberia and the Far East; a current bibliography. (1980. 58p., rus) **35-854**

Problems of the North; a current bibliography. (1980. 3 volumes, rus) **35-858**

Problems of the North; a current bibliography. (1980. 198p., rus) **35-859**

Effects of fire in Alaska and adjacent Canada - a literature review. Viereck, L.A., et al. (1980. 124p., eng) **35-891**

Boreal ecosystem. Larsen, J.A. (1980. 500p., eng) **35-1913**

Geobotanical atlas of the Prudhoe Bay region, Alaska. Walker, D.A., et al. (1980. 69p., eng) **35-2150**

Thermal regime of taiga soils. Linevich, N.L. (1980. p.183-195. rus) **35-2491**

Effects of a tundra fire on soil and vegetation. Racine, C. (1980. 21p., eng) **35-2602**

Multivariate comparisons of IBP Tundra Biome site characteristics. French, D.D. (1981. p.47-75. eng) **35-3376**

Introduction to abiotic components in tundra. Brown, J. (1981. p.79. eng) **35-3377**

Eagle Summit, Alaska, USA. Anderson, J.H., et al. (1981. p.779-780. eng) **35-3402**

Calculating foundations on saturated bases for dynamic loads. Krasnikov, N.D., et al. (1981. p.7-21. rus) **35-4288**

Solar activity

Solar tracks in the snow. Olson, S. (1980. p.313, 316. eng) **35-1656**

Solar activity effect on ice conditions in oceans. Kovalev, E.G., et al. (1980. p.89-93. rus) **35-3498**

Solar radiation

Relationship between a lake ice and snowcover and zooplankton distribution. Roulet, N.T., et al. (1980. p.133-148. eng) **35-46**

Comparison of daily snowmelt with snow depth. Storr, D. (1979. p.334-345. eng) **35-421**

Numerical study of the transmission of solar radiation through snow. O'Neill, A.D.J., et al. (1979. p.346-355. eng) **35-422**

Spectral solar radiation model for snow-covered mountains. Dozier, J. (1980. p.709-718. eng) **35-438**

Calculating thickness of melting ice covers. Ergin, V.P. (1980. p.51-55. rus) **35-454**

Using wind power and solar radiation for heating. Cromack, D.E. (1979. 110p., eng) **35-522**

Continuous monitoring of snow water equivalent using cosmic ray neutrons. Kodama, M. (1980. p.295-303. eng) **35-747**

Mathematical model of ice melting. Efromson, V.A. (1978. p.70-74. rus) **35-998**

Solar energy for artificial thawing of permafrost. Novoseletskii, R.N., et al. (1976. p.63-77. rus) **35-1147**

Thermal effect of radiation on forest litter. Konev, V.A. (1972. p.230-235. rus) **35-1379**

Radiation measurements on Lewis Glacier, Kenya. Hastenrath, S., et al. (1980. p.439-444. eng) **35-1506**

Solar radiation absorption by snow fir and ice. Sosnovskii, N.I., et al. (1970. p.53-64. rus) **35-1571**

Heat budgets of the Southeast Beaufort Sea for the years 1974 and 1975. Tummers, E.L. (1980. 204p., eng) **35-1777**

Solar air heating systems for buildings in cold climates. Ward, D.S. (1980. p.40-53. eng) **35-1970**

Short-wave radiation regime in Antaretica based on 20 years of observation. Marshunova, M.S. (1980. p.11-19. rus) **35-2179**

On the angular variation of solar reflectance of snow. Choudhury, B.J., et al. (1981. p.465-472. eng) **35-2340**

Albedo variations of ice on Lake Simcoe, Canada, March 1978. Reid, J.D., et al. (1980. p.168-176. eng) **35-2458**

Climatic conditions and microclimate of taiga geosystems in Siberia. Bufal, V.V., ed. (1980. 232p., rus) **35-2485**

Radiation balance of Siberian taiga. Bufal, V.V., et al. (1980. p.5-30. rus) **35-2486**

Climate and microclimate of taiga. Trofimova, I.E. (1980. p.144-182. rus) **35-2490**

Solar penetration radiometer and its preliminary testing results. Xie, Y., et al. (1980. p.12-14. chi) **35-2652**

On the angular variation of solar reflectance of snow. Choudhury, B.J., et al. (1981. p.465-472. eng) **35-2750**

Solar radiation and snow melting in winter in Shinjo area, Japan. Abe, O., et al. (1980. p.245-270. jap) **35-2891**

Albedo of melting ice cover. Beilinson, M.M., et al. (1979. p.108-112. rus) **35-2986**

Growth and retreat of ice sheets. Budd, W.F., et al. (1981. p.369-409. eng) **35-3040**

Changes in radiation and heat balance due to human activities. Potapova, L.S. (1980. p.82-90. rus) **35-3051**

Passive solar heating in Alaska. Final report. Zarling, J.P. (1980. 17p., eng) **35-3077**

Proceedings of the 37th annual meeting, June 5 and 6, 1980. (1980. 224p., eng) **35-3142**

Incident flux and snow cover albedo for partially cloudy skies. Choudhury, B.J., et al. (1980. p.76-90. eng) **35-3149**

Modelling of shortwave radiation for snow covered terrain. Waterman, S.E. (1980. p.144-158. eng) **35-3154**

Net shortwave radiation model for glacierized basins. Munro, D.S., et al. (1980. p.159-169. eng) **35-3155**

Arctic stratus clouds and reflection effects on irradiance. Wendler, G., et al. (1981. p.2049-2057. eng) **35-3276**

Measuring solar radiation in ice on Lake Syrdakh. Tishin, M.I., et al. (1980. p.38-40. rus) **35-3312**

Climate forming processes in the Minusinsk Basin. Durnev, V.F. (1980. p.59-77. rus) **35-3417**

Climatic variations in the Ob' River area. Trofimova, I.E., [1980, p.114-128, rus] 35-3420
On the angular variation of solar reflectance of snow. Choudhury, B.J., et al, [1981, p.465-472, eng] 35-3601
Radiative properties of snow for clear sky solar radiation. Choudhury, B., [1981, p.103-120, eng] 35-3667
Continental ice sheets and the planetary radiation budget. Oerlemans, J., [1980, p.349-359, eng] 35-3678
Typification of central taiga facies in West Siberia according to thermal conditions and the structure of radiation-meteorological fields. Trofimova, I.E., [1978, p.97-123, rus] 35-3824
Passive solar design elements for the Subarctic. Zarling, J., [1980, p.11-16, eng] 35-3857
Thermal energy exchange in East Antarctica. Aver'ianov, V.G., [1981, p.32-39, eng] 35-3903
New observations on the daily variation of natural ice albedo. Bolsenga, S.J., [1980, 36p., eng] 35-3921
Effect of forest canopy on subarctic woodland solar radiation. Petzold, D.E., [1981, p.27-38, eng] 35-3977
Snow surface energy exchange. Male, D.H., et al, [1981, p.609-627, eng] 35-4212

Solid phases

Planar freeze front during solidification of an aqueous solution. O'Callaghan, M.G., et al, [1980, p.673-677, eng] 35-1678
Solidification in two-phase flow. Petrie, D.J., et al, [1980, p.784-786, eng] 35-1680
Mathematical model of nozzle blockage by freezing. Sampson, P., et al, [1981, p.231-241, eng] 35-3269
Heat transfer during solidification around a cooled horizontal cylinder. Bathelt, A.G., et al, [1979, p.103-111, eng] 35-3353

Solids

Adhesive shear strength of ice to bonded solid lubricants. Jones, J.R., et al, [1972, p.464-471, eng] 35-274
Physical kinetics and transfer processes in phase transformations. Pavliukevich, N.V., et al, [1980, 208p., rus] 35-806
Dry ash handling system in cold climate conditions. Rafay, T., et al, [1981, p.493-506, eng] 35-2520

Solifluction

Problems of the relations between climatic zones and exogenic relief formation. Aseev, A.A., et al, [1978, p.9-21, rus] 35-12
Weathering of permafrost in subarctic regions. Loginova, I.E., et al, [1978, p.93-94, rus] 35-14
Cryogenic processes in the Baykal-Amur railroad area. Lekhatinov, A.M., [1978, p.99-101, rus] 35-16
Studying coastal plains and shelves of Arctic seas. Danilov, I.D., ed, [1979, 135p., rus] 35-64
Slope processes in permafrost areas. Kolesnikov, S.F., [1979, p.68-74, rus] 35-65
Quaternary geology of the Narssaq area, South Greenland. Funder, S., [1979, 24p., eng] 35-110
Mining problems in seismic permafrost areas. Nikolaev, V.V., et al, [1980, p.191-197, rus] 35-143
Roadbeds on moist fines. Knizhnik, G.B., et al, [1980, p.4-5, rus] 35-599
Cryogenic slope processes in Tien Shan. Tarakanov, A.G., [1980, p.98-105, rus] 35-953
Movement rate of solifluction lobes in the Yukon Territory. Alexander, C.S., et al, [1980, p.365-379, eng] 35-1129
Geocryological conditions of formation of Upper Pleistocene and Holocene deposits in the northern eastern USSR. Novoseletskii, R.N., ed, [1976, 88p., rus] 35-1143
Mechanics of viscous solifluction. Riabchun, V.K., [1976, p.43-62, rus] 35-1146
Gullies in permafrost areas. Shishkina, L.P., [1980, p.22-24, rus] 35-1288
Railroad embankments on unstable slopes. Basistov, M.A., [1980, p.5-7, rus] 35-1525
Mathematical models of cryogenic slope processes. Pozdniakov, A.V., et al, [1980, p.54-60, rus] 35-1764
Cryogenic patterned microrelief. Chigir, V.G., [1979, p.66-101, rus] 35-1831
Climatic geomorphology of the Far East. Kapitsa, A.P., ed, [1978, 144p., rus] 35-1850
Climate and topography of Wrangel Island. Skryl'nik, G.P., [1976, p.20-43, rus] 35-1851
Erosion of northern sea shores. Archikov, E.I., et al, [1976, p.50-56, rus] 35-1852
Topography developing processes in northern taiga. Nikol'skaia, V.V., et al, [1976, p.81-85, rus] 35-1854
Industrial activities effect on natural conditions of the Far East. Nikol'skaia, V.V., [1976, p.89-95, rus] 35-1855
Topography development under monsoon and continental climates. Korotkii, A.M., et al, [1976, p.124-138, rus] 35-1857
Quantitative evaluation of nivation in the Colorado Front Range. Thorn, C.E., [1976, p.1169-1178, eng] 35-1901
Soil loss in the Colorado Front Range: sampling design and areal variation. Bovis, M.J., [1978, p.10-21, eng] 35-1902
Some observations concerning nivation and snow melt in Swedish Lapland. Rudberg, S., [1974, p.263-273, eng] 35-1945
Cryoplanation in the Alps and Canadian Rocky Mts. Karrasch, H., [1974, p.287-300, ger] 35-1947
Surface stability in the presence of industrial activities in permafrost areas. Grave, N.A., ed, [1980, 142p., rus] 35-2184
Vegetation disturbance on solifluction slopes. Sukhodrovskii, V.L., [1980, p.36-42, rus] 35-2188
Origin of loams in Vorkuta tundra. Archegova, I.B., [1980, p.37-39, rus] 35-2265
Studying global factors of climato-morphogenetic phenomena of the Far East. Nikol'skaia, V.V., ed, [1979, 163p., rus] 35-3045
Mountain alluvium in the Far East. Korotkii, A.M., et al, [1979, p.94-117, rus] 35-3046
Cryolithologic analysis. Gasanov, Sh.Sh., [1981, 195p., rus] 35-3211
Studies of slope processes at northern Yakutian research stations. Sukhodrovskii, V.L., [1980, p.156-160, rus] 35-3332
Glacial and morphoclimatic indices of the Baykal Highlands. Vyrkin, V.B., et al, [1980, p.113-118, rus] 35-3479
Debris forms on the Skoddefjellet slope. Jania, J., [1977, p.91-117, eng] 35-3624
Geocryological processes in the Far East. Shumilov, IU.V., [1976, p.46-54, rus] 35-3829
Thermokarst lakes in the Anadyr lowlands. Riabchun, V.K., [1976, p.66-72, rus] 35-3831

Solutions

Sodium chloride solutions used to prevent highway icing. Beretta, M., [1980, p.17-19, ita] 35-222
All-Union scientific conference on chemistry of low temperatures, Moscow, Nov.28-29, 1979. Abstracts. [1979, 90p., rus] 35-1272
Thermodynamic analysis of water crystallization. Oleinkov, N.N., et al, [1979, p.76, rus] 35-1273
Ice melting in organic solvents. Naumov, S.V., et al, [1979, p.78, rus] 35-1274
Freezing of water solutions of sulfates. Naumov, S.V., et al, [1979, p.79, rus] 35-1275
Ice removal from frozen salt solutions. Telegina, L.L., et al, [1979, p.80, rus] 35-1276
Water soluble substances in podsolized sandy and loam soils. Strelkova, A.A., [1979, p.3-22, rus] 35-1418
Planar freeze front during solidification of an aqueous solution. O'Callaghan, M.G., et al, [1980, p.673-677, eng] 35-1678
Migration and crystallization of substances in tundra soils. Zvereva, T.S., et al, [1980, p.107-109, rus] 35-2289
Salts and moisture migration in cryogenic soils. Melesk, Kh.Kh., [1980, p.110-111, rus] 35-2290

Sound transmission

Temperature fields and sound transmission variations in the Arctic Ocean. Bogorodskii, V.V., et al, [1980, p.967-970, rus] 35-306
Acoustic fluctuations due to the temperature fine structure of the ocean. Urnn, S., et al, [1981, p.676-680, eng] 35-2801
LNG carrier underwater noise study for Baffin Bay. Leggat, L.J. et al. [1981. 14p. + 14 figs. eng] 35-4221
Pulse propagation in the central Arctic Ocean. Kutschale, H.W., [1981, 33 leaves, eng] 35-4256

Sound waves

Geophysical evidence of shallow nearshore permafrost, Prudhoe Bay, Alaska. Rogers, J.C., et al, [1980, p.4845-4853, eng] 35-1117

Sounding

Numerical interpretation of resistivity sounding data in permafrost. He, Y., [1980, p.37-39, chi] 35-2663
Valley glacier activity in the Transantarctic Mountains. Bentley, C.R., [1981, p.247-251, eng] 35-3036
Deep geoelectric and electromagnetic soundings at Dome C. Thyssen, F., et al, [1980, p.69-71, eng] 35-3179
Interpretation of monopulse ice radar soundings on two Peruvian glaciers. Jezek, K.C., et al, [1981, p.958-973, eng] 35-3588

South Africa

South African iceberg power and water project. DeMarle, D.J., [1980, p.129-133, eng] 35-2218

South Atlantic Ocean

On the drift ice conditions in the Atlantic sector of the Antarctic. Vinje, T.E., [1979, p.75-82, eng] 35-164
Physical characteristics and life expectancy of tabular antarctic icebergs. Orheim, O., [1980, p.11-18, eng] 35-2198
Variations in antarctic sea ice distribution. Dobromyslov, V.V., et al, [1981, p.40-44, eng] 35-3904

South Georgia

Tundra and analogous soils. Everett, K.R., et al, [1981, p.139-179, eng] 35-2705
Simulation approach to primary production. Jones, H.E., et al, [1981, p.239-256, eng] 35-3382

South Orkney Islands

Thermobaric and ice conditions, South Orkneys region. Petrov, L.S., et al, [1980, p.59-65, rus] 35-2180

South Sandwich Islands

Field experiments on antarctic tabular icebergs. Kristensen, M., et al, [1981, p.445-448, eng] 35-4342

South Shetland Islands

Tundra and analogous soils. Everett, K.R., et al, [1981, p.139-179, eng] 35-2705
Glaciological and geocryological field studies on King George Island during the 25th Soviet antarctic Expedition. Vtiurin, B.I., [1980, p.30, rus] 35-2811

Spaceborne photography

Spaceborne surveys of naled development. Gavrilov, A.B., et al, [1978, p.101-102, rus] 35-17
Passive radiometry of the ocean from space: an overview. McClain, E.P., [1980, p.7-24, eng] 35-160
Weather from the ends of the earth. [1978, p.38-46, eng] 35-402
Seasonal variation of total antarctic sea ice area, 1973-75. Zwally, H.J., et al, [1979, p.102-103, eng] 35-673
Pulsating glaciers of the Gissar-Alay Mountains. Glazyrin, G.E., et al, [1980, p.81-100, rus] 35-718
Structural geology map of the Baykal-Amur railroad area. Kuskov, A.P., et al, [1979, p.56-63, rus] 35-777
Sea ice reporting from satellite data. Nikitin, P.A., et al, [1980, p.65-68, rus] 35-786
Soviet glaciological studies in 1979. Kotliakov, V.M., et al, [1980, p.5-13, rus] 35-1219
Spaceborne photography data for land reclamation. Vostokova, E.A., et al, [1980, p.159-167, rus] 35-1447
Infrared images of North Water during polar darkness. Dey, B., [1980, 425-438, eng] 35-1505
Determining icing conditions from satellite data. Bezuglyi, L., et al, [1980, p.28, rus] 35-1644
New data base for climate studies. Matson, M., et al, [1981, p.451-456, eng] 35-2074
1977 tundra fire at Kokolik River, Alaska. Hall, D.K., et al, [1978, 11p., eng] 35-2591
Spaceborne photography for determining tectonic taliks. Liang, F., et al, [1980, p.61-62, chi] 35-2671
Application of airphoto in the study of periglacial geomorphic dynamics. Liang, F., et al, [1980, p.72-73, chi] 35-2675
Fifth meeting of the editorial board of the World Atlas of Snow and Ice Resources. Dreier, N.N., [1980, p.5-6, rus] 35-2803
Resolutions of the Editorial Board of the World Atlas of Snow and Ice Resources (The fifth meeting, 21 February, 1980). [1980, p.7-8, rus] 35-2804
Flank and frontal moraines of surging glaciers. Repin, A.G., [1980, p.209-212, rus] 35-2835
Using satellite information in solving hydrological problems. Kupriianov, V.V., et al, [1980, p.3-9, rus] 35-2968
Satellite information for studying snow cover dynamics. Tsarev, B.K., [1980, p.15-20, rus] 35-2969
Mapping snow cover distribution from satellite data. Usachev, V.F., et al, [1980, p.21-29, rus] 35-2970
Studying snow cover from satellite photographs. Dzhordzhio, M.V., et al, [1980, p.30-34, rus] 35-2971
Accuracy of mapping snow cover boundaries from satellite data. Prokacheva, V.G., et al, [1980, p.35-43, rus] 35-2972
Ice conditions of the Aral Lake from satellite data. Temnikov, S.N., [1980, p.44-51, rus] 35-2973
Forecasting mountain river runoff from satellite data. Vostriakova, N.V., [1980, p.52-58, rus] 35-2974
Using satellite information in glaciology. Desinov, L.V., [1980, p.59-65, rus] 35-2975
Identification of naleds on satellite photographs. Kravtsova, V.I., [1980, p.66-74, rus] 35-2976
Identification of naleds on satellite photographs. Abakumenko, V.P., et al, [1980, p.75-82, rus] 35-2977
Studying wetland systems from satellite data. Vinogradov, B.V., [1980, p.83-92, rus] 35-2978
Using analog computers in preliminary processing of satellite data. Mikhailov, V.A., [1980, p.125-130, rus] 35-2983
Problems of utilization and preservation of natural resources in Siberia. Saks, V.N., ed, [1980, 136p., rus] 35-3042
Studying snow cover from satellite photographs. Vostriakova, N.V., [1980, p.26-30, rus] 35-3043
Complex geocryological interpretation of space photographs. Deleur, M.S., et al, [1980, p.98-106, rus] 35-3322
Spaceborne monitoring of Canadian Arctic winter sea ice dynamics. Dey, B., [1981, p.3223-3235, eng] 35-3372
Problems in satellite studies of Siberia. Mikheev, V.S., [1980, p.15-28, rus] 35-3476
Satellite observations of the ice edge in coastal areas from Queen Maud Land to the Filchner Ice Shelf. Gernandt, H., [1979, p.127-131, ger] 35-3489
Compiling a medium-scale vegetation map of the northern Baykal area from space survey data. Belov, A.V., [1980, p.97-102, rus] 35-3543
Evaluation of soil moisture from space photographs. Nazirov, M., et al, [1980, p.115-122, eng] 35-3797
Interpretation of satellite photographs. Borisoglebskii, G.I., et al, [1980, p.123-127, rus] 35-3798
Satellite surveys of snow line positions. Tsarev, B.K., [1980, p.128-136, rus] 35-3799
Studying stationary polynyas from satellite photographs. Karelin, I.D., [1981, p.104-109, rus] 35-3955
Drainage in the faulted Aldan Plateau zone. Lygin, A.M., [1980, p.22-30, rus] 35-3991
Use of satellites in surveying for urban construction. Krest'iashin, S.I., et al, [1981, 159p., rus] 35-4310

Spacecraft
Computer enhanced snow cover analysis of satellite data. Hogg, W.D., et al, (1979, p.414-423, eng) 35-427
Mathematical models of snow cover formation. Konovalov, V.G., (1980, p.3-10, rus) 35-710
Oceanology from space. Bunitskii, V.Kh., ed, (1980, 167p., rus) 35-1343
Satellite measurements of ocean surface temperature. Staritsyn, D.K., (1980, p.52-61, rus) 35-1345
Eddy formation in oceanic Subarctic fronts. Bulatov, N.V., (1980, p.61-72, rus) 35-1346
Processing the infrared satellite reconnaissance data. Staritsyn, D.K., (1980, p.112-118, rus) 35-1347
Satellite experiments on SHF earth radiation. Basharinov, A.E., et al, (1979, p.263-267, eng) 35-1690
Remote sensing studies of the water component. Grinberg, A.M., et al, (1980, p.152-154, rus) 35-1923
New data base for climate studies. Matson, M., et al, (1981, p.451-456, eng) 35-2074
Weather satellite observations in the South Polar region. Gernandt, H., (1980, p.79-95, ger) 35-2436
NOAA Polar Orbiter data (TIROS-N and NOAA-6) users guide. Kidwell, K.B., comp, (1921, c115p., eng) 35-2577
Satellite recording of dynamic processes at the earth surface. Berri, B.L., (1981, p.108-113, rus) 35-3336
Development and prospects of space glaciology. Kotlyakov, V.M., (1981, p.7-15, rus) 35-3539
Space surveying methods for studying exogenic processes. Plastinin, I.A., et al, (1981, p.22-26, rus) 35-3540
Studying microwave emission from a snow cover. Gershenzon, V.E., et al, (1981, p.58-62, rus) 35-3541
Radiophysical methods of sounding atmosphere and ocean surface from space. Gurvich, A.S., et al, (1981, p.63-70, rus) 35-3542
Variations in microwave emission of sea ice (numerical modeling). Nikitin, P.A., (1980, p.56-63, rus) 35-3544
Space survey data in flood forecasts. Vostriakova, N.V., (1980, p.20-26, rus) 35-3546
Spectral brightness of northern landscapes. Kondrat'ev, K.IA., et al, (1980, p.72-83, rus) 35-3804
Wave propagation due to rain and ice crystals. Dilworth, I.J., et al, (1981, p.126-132, eng) 35-3884

Specific heat
Thermal diffusivity of frozen soil. Haynes, F.D., et al, (1980, 30p., eng) 35-2603

Spectra
Modelling of shortwave radiation for snow covered terrain. Waterman, S.E., (1980, p.144-158, eng) 35-3154
Net shortwave radiation model for glacierized basins. Munro, D.S., et al, (1980, p.159-169, eng) 35-3155
Spectral albedos of an alpine snowpack. Grenfell, T.C., et al, (1981, p.121-127, eng) 35-3668
Doppler radar spectrum of ice particle fallspeeds. Passarelli, R.E., Jr., et al, (1980, p.1318-1322, eng) 35-3866
Translational Raman spectrum of hexagonal monocrystalline ice. Faure, P., et al, (1981, p.120-126, fre) 35-3882
New observations on the daily variation of natural ice albedo. Bolsenga, S.J., (1980, 36p., eng) 35-3921

Spectroscopy
Combined method of cloud separation against snow background. Naidenova, K.A., (1980, p.163-169, rus) 35-2442
Radar spectral observations of snow. Stiles, W.H., et al, (1981, p.654-668, eng) 35-3440

Spheres
Measurements of restitution coefficients of ice. Araoka, K., et al, (1978, p.55-65, jap) 35-1175

Spillways
Passing ice over stone linings of spillways. Pravdivets, IU.P., (1981, p.43-46, rus) 35-2099

Spongy ice
Hailstone formation under a dry regime and in mixed fractions. Bartishvili, G.S., (1975, p.140-150, rus) 35-1621

Sporadic permafrost
Cryogenic processes in Transbaikal steppes. Bazhenova, O.I., (1978, p.106-108, rus) 35-20
Geocryologic altitudinal zonation of northern Tien Shan. Gorbunov, A.P., et al, (1979, p.67-83, rus) 35-189
Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979. Abstracts of the papers, (1979, 211p., rus) 35-245
Formation of ground water balance in the USSR. Lebedev, A.V., (1980, 287p., rus) 35-345
Geophysical methods of studying permafrost in the USSR. Akimov, A.T., et al, (1980, 51p., rus) 35-1928
Soil formation in sporadic permafrost areas. Sazonov, A.G., (1980, p.39-41, rus) 35-2266
Cryogenic Alpine soils of Mongolia. Maksimovich, S.V., (1980, p.83-85, rus) 35-2281
Engineering-geological conditions of oil and gas-bearing areas in Northern Zaural'e. Zakharov, IU.F., et al, (1981, 143p., rus) 35-3227
Frozen rocks in the southern Krasnoyarsk area. Shats, M.M., (1980, p.120-124, rus) 35-3325
Waters of the Lake Baykal area. Bachurin, G.V., (1980, p.190-200, rus) 35-3426

Springs (water)
Permafrost conditions in Spitsbergen. Liestol, O., (1980, p.23-28, eng) 35-1990
Water chemistry in a permafrost environment, Alaska. Krothe, N.C., (1981, p.570-590, eng) 35-2525
Origin of the Timpton springs. Artemenko, I.G., (1980, p.14-21, rus) 35-3990
Hydrogeology of karst in the Rawil region. Wildberger, A., (1981, 175p. + maps, ger) 35-4162
Origin of water feeding North Slope icings. Hall, D.K., et al, (1981, p.433-438, eng) 35-4341

St. Lawrence, Gulf
Oceanography of the northern Gulf of St. Lawrence. Lewis, J.B., et al, (1980, 52p., eng) 35-2011

Stability
National power grid stability in the North. Barabanshchikov, S.G., et al, (1980, p.14-16, rus) 35-624
Bench mark stability in permafrost. Bogdanov, B.G., (1980, p.22-23, rus) 35-1860
Stability of icebergs. Bass, D.W., (1980, p.43-47, eng) 35-2204
Catastrophe theory for analyzing iceberg stability. Nye, J.F., et al, (1980, p.49-54, eng) 35-2205
Natural and regulated alpine rivers: resemblances and differences in morphology, their influence on river fauna. Jaeggi, M., (1980, p.85-90, ger) 35-2246
Construction and performance of frozen gravel fills. Tart, R.G., et al, (1981, p.693-704, eng) 35-2531
Controlling iceberg roll stability during towing around drillships. Benedict, C.P., et al, (1981, p.109-114, eng) 35-3446

Stadiums
Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, F.V., ed, (1979, 133p., rus) 35-4055
Calculating artificial thawing of frozen ground. Khromets, D.IU., (1979, p.29-33, rus) 35-4056

Standards
State standards index of the USSR, 1980. (1980, 3 volumes, rus) 35-860
Testing methods for construction in cold regions. Kudashov, E.A., et al, (1980, 108p., eng) 35-987
Roof snow load tolerance standards under revision. (1980, p.16, eng) 35-1955
Urban construction norms for the North. Shubert, A.A., (1981, p.58-62, rus) 35-3457

Static electricity
Electrostatics and the Arctic environment (1). Davey, C.T., (1976, p.1-8, eng) 35-3792

Static loads
Computation of rate of heave versus load under quasi-steady state. Miller, R.D., et al, (1980, p.243-251, eng) 35-741
Snow static loads on roofs in relation to weather conditions in Piedmont. Balzaretti, P., (1980, p.36-40, ita) 35-945
Plate loading and vane-cone test measurements for fresh and sintered snow. Yong, R.N., et al, (1980, 32p., eng) 35-2010
Relation between loading speed and the strength of frozen ground. Deriugin, A.G., (1981, p.53-70, rus) 35-3285

Static stability
Design of hydrostatically supported sand islands for Arctic drilling. Dowse, B.E.W., (1980, p.49-54, eng) 35-1106

Stations
1980-81 ANARE report. (1980, 62p., eng) 35-1400
New U.S. station for Antarctica. Esser, A.C., (1981, p.288-299, eng) 35-2510
Little America: town at the end of the world. Carter, P.A., (1979, 301p., eng) 35-2863
Oil pumping stations in cold regions. Manasypov, F.S., (1981, p.33-34, rus) 35-4242

Statistical analysis
New statistics on area of glaciers in China. (1980, p.7-10, chi) 35-118
Break-up dates for the Yukon River: Pt.1. Rampart to Whitehorse, 1896-1978. Stephens, C.A., et al, (1979, c50 leaves, eng) 35-133
Break-up dates for the Yukon River: Pt.2. Alakanuk to Tanana, 1883-1978. Stephens, C.A., et al, (1979, c50 leaves, eng) 35-134
Index and analysis of surface temperature and wind frequency data. Rayner, J.N., (1961, 18p. + tables, eng) 35-2022
On the statistical investigation of fall velocity of snowflakes. Sasyo, Y., et al, (1980, p.61-79, eng) 35-2155
Great Lakes ice data archive. Hoffman, C.S., (1980, p.5-20, eng) 35-2158
Ice depolarization statistics for 19-GHz satellite-to-earth propagation. Arnold, H.W., et al, (1980, p.546-550, eng) 35-2412
Snow and avalanche conditions in the Swiss Alps. Schild, M., et al, (1980, p.44-92, ger) 35-2565
Cost-effective use of municipal wastewater treatment ponds. Reed, S.C., et al, (1979, p.177-200, eng) 35-2751
Data on the glacier of Chi-lien-shan Mountain. Fei, C., (1979, p.77-80, chi) 35-2907
Avalanche statistics for France, winter 1979-1980. (1980, p.3-20, fre) 35-3981
Avalanche statistics for the 1980-1981 season. (1981, p.43-47, fre) 35-4046

Steel structures
Rock pressure in main and preparatory shafts. Shirokov, A.P., ed, (1977, 170p., rus) 35-68
Arch sets for mines in permafrost areas. Moroz, V.F., (1977, p.154-155, rus) 35-70
Increasing frost resistance of steel structures. Sil'vestrov, A.V., (1980, p.3-8, rus) 35-1085
Steel structure design for freezing weather. Sil'vestrov, A.V., et al, (1980, p.12-15, rus) 35-1363
Strength of materials and structural elements under extreme conditions. Vol.1. Pisarenko, G.S., et al, (1980, 536p., rus) 35-1490
Steel for air temperature below -40C. Belov, L.F., et al, (1981, p.6-7, rus) 35-2076
Calculating frost resistance of steel structures. Shafrai, S.D., (1980, p.26-31, rus) 35-2101
Strength of materials and structural elements under extreme conditions. Vol.II. Pisarenko, G.S., et al, (1980, 771p., rus) 35-2396
Blast treatment for increased strength of welded joints. Petushkov, V.G., et al, (1980, p.11-12, rus) 35-3015
Frost resistance of butt-welded steel joints. Sil'vestrov, A.V., et al, (1981, p.24-26, rus) 35-3338
Steel production structure for the Alaskan Beaufort Sea. Boaz, I.B., et al, (1981, p.449-458, eng) 35-3452
Field measurement of kinematic friction between ice and rigid structures. Comfort, G., et al, (1980, p.303-321, eng) 35-3847
Facings of dome-shaped structures built under severe climatic conditions. Lipnitskii, M.E., (1981, 136p., rus) 35-3864
Frost resistant nickel containing steel 12GN2MFAIL. Mukhanov, K.K., et al, (1981, p.133-136, rus) 35-4292

Steels
Increasing frost resistance of steel structures. Sil'vestrov, A.V., (1980, p.3-8, rus) 35-1085
Steels for Arctic pipelines. Krishnadev, M.R., et al, (1979, p.1941-1944, eng) 35-1780
Strength of welded pipeline joints at low temperatures. Kuchuk-IAtsenko, S.I., et al, (1980, p.1-3, rus) 35-3212
Corrosion of concrete reinforcements from antifreeze admixtures. Sheikin, A.E., et al, (1980, p.35-44, rus) 35-3528

Stefan problem
Mathematical modeling and experimental study of heat and mass transfer processes. Bondarev, E.A., ed, (1979, 136p., rus) 35-233
Stefan problem on heat conductivity with phase transformations. Medvedskii, R.I., (1979, p.71-82, rus) 35-236
Heat and mass transfer in rocks during phase transformations. Melamed, V.G., (1980, 228p., rus) 35-253
Physical kinetics and transfer processes in phase transformations. Pavliukevich, N.V., et al, (1980, 208p., rus) 35-806
Method of a small parameter in the classical Stefan problem. Gliko, A.O., et al, (1980, p.211-216, eng) 35-967
Speed of movement of fluid crystallization fronts. Zhekamukhov, M.K., (1980, p.40-46, rus) 35-1200
New approach to the morphological stability of the Stefan problem. Lièvre, C., et al, (1980, p.119-133, eng) 35-1497
Phase change around a circular pipe. Lunardini, V.J., (1980, 18p., eng) 35-1894
Thermal interaction of structures and permafrost. Porkhaev, G.V., et al, (1980, p.85-96, eng) 35-1973
Washing-up soil in freezing weather. Popov, IU.A., et al, (1980, p.103-108, rus) 35-2103
Mathematical description of crystallization processes. Avdonin, N.A., (1980, 178p., rus) 35-2318
Dynamics of thermal processes. Shvets, I.T., ed, (1980, 180p., rus) 35-2334
Temperature field of freezing ground. Tarabrin, V.A., et al, (1980, p.106-111, rus) 35-2336
Solution of single phase Stefan problems. Grigor'ev, S.G., et al, (1980, p.43-52, rus) 35-2395
Temperature field dynamics in freezing-thawing soils. Melamed, V.G., et al, (1975, p.52-62, eng) 35-2399
Thermal interactions between ground and concrete piles. Andreev, V.V., et al, (1981, p.33-35, rus) 35-2786
Stefan problem with mixed boundary condition. Gupta, R.S., et al, (1981, p.251-259, eng) 35-3270
Stefan-like problems in finite geometry. El-Genk, M.S., et al, (1979, p.69-80, eng) 35-3350
Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, F.V., ed, (1979, 133p., rus) 35-4055
Calculating artificial thawing of frozen ground. Khromets, D.IU., (1979, p.29-33, rus) 35-4056
Heat transfer between pipes and surrounding media. Ivashkova, V.K., et al, (1979, p.34-39, rus) 35-4057
Solutions of the Stefan problem. Meirmanov, A.M., (1981, p.547-549, rus) 35-4274

Steppes
Cryogenic processes in Transbaikal steppes. Bazhenova, O.I., (1978, p.106-108, rus) 35-20

Moss and lichen vegetation in northern forest steppes. Afonina, O.M., et al, [1980, p.66-82, rus] 35-393
Landscape-climatic charts of Buryatiya. Ivanov, G.M., et al, [1976, p.18-36, rus] 35-801
Vegetation of Siberia and the Far East; a current bibliography. [1980, 2 volumes, rus] 35-855
Vegetation of Siberia and the Far East, a current bibliography. [1979, 2 volumes, rus] 35-856
Vegetation of Siberia and the Far East; a current bibliography. [1980, 97p., rus] 35-857
Botanical geography of Altai. Ogureeva, G.N., [1980, 192p., rus] 35-876
Forest strip effect on snow distribution. Savin, E.N., ed, [1978, 96p., rus] 35-1091
Snow retention in steppes. Tarasenko, A.N., et al, [1978, p.4-11, rus] 35-1092
Biomass of narrow forest strips in steppes. Dolgilevich, M.I., et al, [1978, p.57-68, rus] 35-1097
Hydrothermal melioration of northern swamps. Starkov, V.M., [1977, p.68-80, rus] 35-1294
Migration of water soluble substances in cryogenic soils. Panin, P.S., et al, [1980, p.84-88, rus] 35-1336
Chukotskiy Peninsula soils and vegetation. Galanin, A.V., [1980, p.1174-1187, rus] 35-1566
Permafrost in Altai Mountains. Maloletko, A.M., [1970, p.204-212, rus] 35-1572
Mapping vegetational resources of permafrost areas. Geleta, I.F., et al, [1980, p.114-124, rus] 35-1707
Slope orientation factor in landscape development. Shcherbakov, R.A., [1975, p.24-34, rus] 35-1788
Hydrothermal regime of deeply freezing saline soils. Voronina, L.V., et al, [1980, p.67-68, rus] 35-2273
Cryogenic arid steppe soils. Snytko, V.A., [1980, p.78-79, rus] 35-2278
Regionalization of the Non-chernozem zone. Panov, E.P., et al, [1980, 231p., rus] 35-2439
Phenology of Krasnoyarsk forest-steppe forests. Elagin, I.N., [1980, p.159-175, rus] 35-2480
Hydrothermal regime of Transbaikal steppes. Mart'ianova, G.N., [1980, p.104-114, rus] 35-3419
Frost shattering of ground in Transbaikal steppes. Bazhenova, O.I., [1980, p.107-115, rus] 35-3473
Flora of pine forests in central Tuva. Shaulo, D.N., [1981, p.197-210, rus] 35-3896

Stereomapping

Studies of Batura Glacier, Karakoram Mts. Shi, Y., [1980, p.1-7, chi] 35-4026
Stereophotographic mapping of the Batura Glacier drainage area. Chen, J., et al, [1980, p.208-220, chi] 35-4040

Stereophotography

Methods of engineering-geological investigations of high slopes susceptible to cave-ins and landslides. Zolotarev, G.S., ed, [1980, 184p. + append., rus] 35-344
Aerial surveys of pipeline construction sites. Karpov, V.G., et al, [1980, p.20-21, rus] 35-1301
Stereophotogrammetric method for measuring glacier variations. Sun, Z., et al, [1980, p.54-56, chi] 35-2668
Stereophotogrammetric surveys and mapping of the Batura Glacier. Wang, W., et al, [1980, p.22-28, chi] 35-2914
Measurements and analysis on the ice movement of Batura Glacier. Wang, W., [1980, p.28-41, chi] 35-4028
Stereophotographic mapping of the Batura Glacier drainage area. Chen, J., et al, [1980, p.208-220, chi] 35-4040

Stereoscopy

Rapid-sequence stereophotogrammetry of avalanches. [1980, 4p., fre] 35-2337

Storage

Modern design of modular buildings. Gel'man, E.A., [1980, p.61-66, rus] 35-604
NOAA Polar Orbiter data (TIROS-N and NOAA-6) users guide. Kidwell, K.B., comp, [1921, c115p., eng] 35-2577
Installation of gas reservoirs in freezing weather. Leonov, O.N., et al, [1981, p.47-48, rus] 35-4233
Shelters for winter maintenance of equipment. Talts, V.G., [1981, p.10-12, rus] 35-4279

Storage tanks

Construction of bulk plants and gasoline stations. Groznov, G.A., et al, [1980, 332p. (Pertinent p.56-147), rus] 35-2873
New idea to solve storage/transport problems without pipe lines. [1981, p.33-35, eng] 35-4126

Storms

Forecasting wind conditions in the North Atlantic Ocean. Birman, B.A., et al, [1980, p.14-37, rus] 35-29
Extreme winds in the North Pacific. Gorbach, L.V., [1980, p.38-53, rus] 35-30
Design of mound breakwaters in Arctic waters. Bruun, P., et al, [1979, p.265-274, eng] 35-176
Prediction of an iceberg drift trajectory during a storm. Sodhi, D.S., et al, [1980, p.77-82, eng] 35-2210
Graded storm sand layers offshore from the Yukon Delta, Alaska. Nelson, C.H., [1981, p.368-388, eng] 35-3246

Strain measuring instruments

Load bearing capacity test on a freshwater ice cover. Laidley, T.E., et al, [1980, 50p., eng] 35-565
Wire strain gages for measuring surface strain rate in glaciers. Warner, G., et al, [1974, p.24-28, eng] 35-4319

Strain tests

Viscosity and low temperature fracture strain in asphalt mixtures. Ruth, B.E., et al, [1979, p.221-237, eng] 35-332
Mechanical properties of polycrystalline ice. Hooke, R.L., et al, [1980, p.263-275, eng] 35-744
Ice platform design related to strain measurements. Gold, L.W., [1980, p.564-565., fre] 35-837
Tensile strain and fracture of snow. Watanabe, Z., [1980, p.255-262, eng] 35-2368
Mechanical behaviour and structure of snow under uniaxial tensile stress. Narita, H., [1980, p.275-282, eng] 35-2370
Compressive strain in a natural snow cover. Armstrong, R.L., [1980, p.283-289, eng] 35-2371
Asphalt concrete for cold regions. Dempsey, B.J., et al, [1980, 55p., eng] 35-2587
Ice structure anisotropies and ice flow. Baker, R.W., [1981, p.1043-1044, eng] 35-2716
Strain measurements in floating ice platforms. Anderson, K.G., et al, [1980, p.33-53, eng] 35-3837
Small scale surface strain measurement on sea ice. Murat, J.R., [1980, p.55-74, eng] 35-3838
Surface strain measuring instruments for use on sea ice. Goodman, D.G., [1980, p.75-96, eng] 35-3839
Recent developments in strainmeter design. Moore, S., et al, [1980, p.97-125, eng] 35-3840
Measurement of finite strain in sea ice by impulse radar techniques. Stander, E., et al, [1980, p.127-164, eng] 35-3841
Wire strain gages for measuring surface strain rate in glaciers. Warner, G., et al, [1974, p.24-28, eng] 35-4319

Strains

Creep and fracture of ice and strains of glaciers and sea ice. Goodman, D.J., [1977, 149p. + plates, eng] 35-135
Constitutive laws for ice. Morland, L.W., [1979, p.101-108, eng] 35-696
Note on rate process theory and creep response of ice. Hutter, K., [1980, p.335-336, eng] 35-750
Mechanical properties of saline-doped and carbamide (urea)-doped model ice. Timco, G.W., [1980, p.45-56, eng] 35-818
Flow of air, water and ice. Embleton, C., et al, [1979, p.39-72, eng] 35-1685
Ice fabrics in a vertical flow plane, Barnes Ice Cap, Canada. Hooke, R.L., et al, [1980, p.195-214, eng] 35-1817
Dynamics and structure of Griesgletscher, Switzerland. Hambrey, M.J., et al, [1980, p.215-228, eng] 35-1818
Tubular transducer for in situ stress measurements in sea ice. Frederking, R., [1980, p.165-192, eng] 35-3842
Ice loads acting on the ship's hull during interaction with ice. Edwards, R., et al, [1980, p.237-274, eng] 35-3845
Measurements of ice breaking loads. Iyer, S.H., [1980, p.275-302, eng] 35-3846

Stratigraphy

Stratigraphic studies of the Gyajo Glacier, Khumbu Himal. Fushimi, H., [1978, p.17-20, eng] 35-53
Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia. Popov, A.I., ed, [1980, 256p., rus] 35-279
Electrical properties of Arctic sea ice. Bogorodskii, V.V., et al, [1980, p.6-14, rus] 35-361
Geophysical study of a palsa field at Poste-de-la-Baleine, Ungava. Seguin, M.K., et al, [1979, p.327-337, fre] 35-1048
Glacial history and stratigraphy of the Kananaskis Lakes area, Alberta. Jackson, L.E., Jr., [1980, p.459-477, eng] 35-1264
Ice flow during the Fraser Glaciation, Cascade Range, Washington. Heller, P.L., [1980, p.299-308, eng] 35-1667
Stratigraphy and glacial sediments of central Arctic Ocean. Clark, D.L., et al, [1980, 57p. + maps, eng] 35-1844
Great Lakes ice data archive. Hoffman, C.S., [1980, p.5-20, eng] 35-2158
Correlation of perennially frozen rocks. Kaplina, T.N., et al, [1980, p.74-81, rus] 35-2454
Kola Peninsula till stratigraphy. Evzerov, V.IA., et al, [1977, p.30-33, eng] 35-2722
Glacial transport in Finnish Lapland. Hirvas, H., [1977, p.128-136, eng] 35-2732
Geochemical prospecting in stratified till in Finland. Kokkola, M., [1975, p.149-154, eng] 35-2740
Lewis Glacier (Mt. Kenya) and possible links tropical climate. Vincent, C.E., et al, [1981, p.63-78, eng] 35-3022
Shore morphology and stratigraphy of Lake Höytiäinen, Finland. Vesajoki, H., [1980, 30p., eng] 35-3209
Recent deposits and [illegible] Chukotskiy Peninsula. Kaplin, P.A., ed, [1980, 295p., rus] 35-3930
Origin of ice marginal terraces of east Kangerdluarssuk Glacier, Greenland. Huddart, D., et al, [1981, p.31-39, end] 35-4018
Late Cenozoic permafrost of Yakutia. Kaplina, T.N., [1981, p.153-181, rus] 35-4078

Stream flow

Influence of channel cross-section on the regime of streams in winter. Chee, S.P., et al, [1979, p.164-174, eng] 35-410
Snowmelt-runoff forecasting. Tangborn, W.V., [1980, p.778-786, eng] 35-439
Solution to spring ice-jam flooding. Loffredo, J.C., [1980, p.82-83, eng] 35-828
Changes in taiga due to river flow control. Shirokov, V.M., [1980, p.22-30, rus] 35-1332
Seasonal runoff volumes conditioned on forecasted total runoff volume. Hoshi, K., et al, [1980, p.1079-1084, eng] 35-1875
Clearing ice-clogged shipping channels. Vance, G.P., [1980, 13p., eng] 35-2000
Proceedings of the 48th Western Snow Conference, 1980. [1980, 137p., eng] 35-2220
Snowmelt modeling of upper Missouri River watersheds with SSARR. Cundy, T.W., et al, [1980, p.72-82, eng] 35-2229
Investigation of the resistance coefficient for the underside of ice covers. Chee, S.P., et al, [1981, p.23-33, eng] 35-2541
Analysis of velocity profiles under ice in shallow streams. Calkins, D.J., et al, [1981, p.94-111, eng] 35-2545
Characteristics of flow below a rough floating cover. Gogus, M., et al, [1981, p.122-142, eng] 35-2547
Seasonal streamflow estimation using snow data. Eschner, A.R., [1980, p.45-53, eng] 35-3146
Hydraulic geometry of a supra-glacial stream. Park, C.C., [1981, p.1-9, eng] 35-4022
Supraglacial streams, Austre Okstindbreen, Norway. Knighton, A.D., [1981, p.295-306, eng] 35-4262

Streams

Hydrologic role of shallow organic soils in cold climates. Slaughter, C.W., et al, [1979, p.380-389, eng] 35-424
Gravel removal guidelines manual for Arctic and Subarctic floodplains. [1980, 169p., eng] 35-797
Preventing naled formation near hydraulic structures. Merkulov, D.M., [1981, p.38-39, rus] 35-2082
Effect of snowmelt on water quality. Sigel, D.I., [1980, p.238-242, eng] 35-2797
Analytical method of calculating runoff storage. Kiktenko, V.A., et al, [1980, 200p., rus] 35-3641
Potential and developed water-supply sources in Alaska. Dearborn, L.L., [1981, p.1-11, eng] 35-3682
Recovery of a stream from iron ore activities, Schefferville area. Dubreuil, M.A., [1981, p.39-55, eng] 35-3978
Transverse mixing tests in natural streams. Beltaos, S., [1980, p.1607-1625, eng] 35-4127

Streets

Cities vs. snow: how goes the battle. [1981, p.37-38, eng] 35-4313

Strength

Steels for Arctic pipelines. Krishnadev, M.R., et al, [1979, p.1941-1944, eng] 35-1780
Frictional characteristics of materials sliding against ice. Calabrese, S.J., et al, [1980, p.283-289, eng] 35-1953
Relationship between frost heave and areas of bearing plates. Tong, C.G., et al, [1981, p.741-748, eng] 35-2535
Development of ice resistant offshore structures. Oshima, M., et al, [1980, p.307-314, eng] 35-3635
Offshore deck on a multiple leg ice resistant substructure. Kliewer, R.M., et al, [1980, p.315-324, eng] 35-3636

Stress concentration

Acoustic methods of studying ice cover dynamics. Sosedova, A.L., et al, [1980, p.112-118, rus] 35-380

Stress strain diagrams

Creep and fracture of ice and strains of glaciers and sea ice. Goodman, D.J., [1977, 149p. + plates, eng] 35-135
Mechanical properties of polycrystalline ice. Hooke, R.L., et al, [1980, p.263-275, eng] 35-744
Mechanical properties of sea ice. Shapiro, L.H., et al, [1979, p.196-202, eng] 35-1111
Arctic sea ice research, 4 - measurements of uniaxial compressive strength. Nohguchi, Y., et al, [1978, p.131-139, jap] 35-1549
Incremental formulation of constitutive equations for deposited snow. Desrues, J., et al, [1980, p.289-307, eng] 35-1823
Acoustic emission response of snow. St. Lawrence, W.F., [1980, p.209-216, eng] 35-2363
Constitutive relation for the deformation of snow. St. Lawrence, W.F., et al, [1981, p.3-14, eng] 35-2414
Cyclic loading and fatigue in ice. Mellor, M., et al, [1981, p.41-53, eng] 35-2417
Viscoelastic constitutive laws for ice. Morland, L.W., et al, [1980, 56p., eng] 35-3076
Relationship of stress and strain in sea ice. Denner, W.W., [1980, p.5-32, eng] 35-3836

Stresses

Ice flow through straits. Drobkov, G.S., et al, [1979, p.61-74, eng] 35-163
Brittle to ductile transition in polycrystalline ice under tension. Schulson, E.M., [1979, p.87-91, eng] 35-694
Constitutive laws for ice. Morland, L.W., [1979, p.101-108, eng] 35-696
Note on rate process theory and creep response of ice. Hutter, K., [1980, p.335-336, eng] 35-750

Stresses *(cont.)*
Adsorption force theory of frost heaving. Takagi, S., [1980, p.57-81, eng] **35-819**
Measurements of sea-ice stresses near grounded obstacles. Sackinger, W.M., et al, [1981, p.144-147, eng] **35-1107**
Geotechnical properties of fine-grained permafrost soils. Roggensack, W.D., [1977, 449p., eng] **35-1467**
Failure of sea ice by repeated compression. Nohguchi, Y., et al, [1978, p.63-68, jap] **35-1541**
Diurnal variation of soil water tension during soil freezing. Takeda, K., et al, [1978, p.181-183, jap] **35-1556**
Computer simulation of creep of clay. Pusch, R., et al, [1981, p.95-104, eng] **35-1675**
Flow of air, water and ice. Embleton, C., et al, [1979, p.39-72, eng] **35-1685**
Ice transport in Great Lakes. Ruiner, R.R., Jr., et al, [1979, 275p., eng] **35-1773**
Freezing phenomena in soils. Miller, R.D., [1980, p.254-299, eng] **35-1781**
Ice fabrics in a vertical flow plane, Barnes Ice Cap, Canada. Hooke, R.L., et al, [1980, p.195-214, eng] **35-1817**
Dynamics and structure of Griesgletscher, Switzerland. Hambrey, M.J., et al, [1980, p.215-228, eng] **35-1818**
Tangential stresses on the lower surface of ice with wind drift. Khosin, D.E., et al, [1980, 7p., eng] **35-1909**
Guide for operating cars and light trucks on a floating ice sheet. Johnson, P., [1980, 29p., eng] **35-2012**
Borehole compression in antarctic ice cover. Shumskii, P.A., et al, [1980, p.54-58, rus] **35-2032**
Horizontal cracks in deep ice cores from Vostok Station. Portnov, V.G., [1980, p.75-79, rus] **35-2036**
Statistical models of snow strength. Sommerfeld, R.A., [1980, p.217-223, eng] **35-2364**
Propagation of stress waves in alpine snow. Brown, R.L., [1980, p.235-243, eng] **35-2366**
Model for snow-slab failure under conditions of dynamic loading. Johnson, J.B., [1980, p.245-254, eng] **35-2367**
Mechanical behaviour and structure of snow under uniaxial tensile stress. Narita, H., [1980, p.275-282, eng] **35-2370**
Dynamic testing of free field stress gages in frozen soil. Aitken, G.W., et al, [1980, 26p., eng] **35-2601**
Responses of ice sheets to environmental changes. Young, N.W., [1981, p.331-360, eng] **35-3038**
Scourge of surging glaciers. Croot, D.G., et al, [1976, p.328-334, eng] **35-3708**
Small scale surface strain measurement on sea ice. Murat, J.R., [1980, p.55-74, eng] **35-3838**
Tubular transducer for in situ stress measurements in sea ice. Frederking, R., [1980, p.165-192, eng] **35-3842**
OSI ice stress sensor. Johnson, J.B., et al, [1980, p.193-207, eng] **35-3843**
Monitoring sea ice ridgebuilding and stresses. Biswas, N.N., et al, [1980, p.209-236, eng] **35-3844**
Ice-induced stresses in the shell of an icebreaker. Varsta, P., [1977, 26p. + figs., eng] **35-4178**
Ice pressure and ice-induced stresses on an icebreaker. Vuorio, J., et al, [1979, 50p., eng] **35-4180**

Striations
Quaternary geology of the Narssaq area, South Greenland. Funder, S., [1979, 24p., eng] **35-110**

Structural analysis
Effect of aerosols on the ice-forming activity. Baklanov, A.M., et al, [1980, p.61-65, eng] **35-1778**
Structural evaluation of porous pavement in cold climate. Eaton, R.A., et al, [1980, 43p., eng] **35-2006**
Ice-scoured topography and glacier movement, N Scotland and W Greenland. Gordon, J.E., [1981, p.55-65, eng] **35-4020**

Structures
Numerical simulation of snow avalanche impact on structures. Lang, T.E., et al, [1980, 21p., eng] **35-849**
Icing on structures. Minsk, L.D., [1980, 18p., eng] **35-2003**
Scale modeling of snow-avalanche impact on structures. Lang, T.E., et al, [1980, p.189-196, eng] **35-2361**
Protecting structures from frost damage. Chen, X., [1981, p.734-740, eng] **35-2534**
Cost of ice damage to shoreline structures during navigation. Carey, K.L., [1980, 33p., eng] **35-2599**
Atmospheric ice accretion on stationary structures. Makkonen, L., [1981, p.595-600, eng] **35-4156**

Subarctic landscapes
Weathering of permafrost in subarctic regions. Loginova, I.E., et al, [1978, p.93-94, rus] **35-14**
Moss and lichen vegetation in northern forest steppes. Afonina, O.M., et al, [1980, p.66-82, rus] **35-393**
Geographical problems of Soviet Subarctic. Sochava, V.B., et al, [1972, p.3-20, rus] **35-759**
Fodder plants in the permafrost zone. Denisov, G.V., [1980, 182p., rus] **35-1121**
Weather-forming factors and their role in bioclimatology. Pogosian, Kh.P., ed, [1980, 108p., rus] **35-1448**
Thermal regime of soils in the USSR. Dimo, V.N., [1980, p.47-59, rus] **35-1449**
Mesophyte relict flora in northeastern tundras. Khokhriakov, A.P., [1979, p.84-96, rus] **35-1615**
All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct. 29-31, 1980. Abstracts. [1980, 203p., rus] **35-2251**
Origin, geography, classification and terminology of northern soils. Sokolov, I.A., et al, [1980, p.11-13, rus] **35-2254**
Seasonal thawing depth in tundras. Tumel', N.V., [1980, p.59-60, rus] **35-2270**
Induced changes in Subarctic soil temperatures. Pereverzev, V.N., et al, [1980, p.61-62, rus] **35-2271**
Biocenotic role of animals in the Yamal forest tundra. Danilov, N.N., ed, [1977, 146p., rus] **35-2866**
Role of animals in Subarctic biogeocenoses. Danilov, N.N., [1977, p.3-30, rus] **35-2867**
Influence of rodents on forest tundra grasses. Peshkova, N.V., [1977, p.134-145, rus] **35-2868**
Facies of soil cryogenesis and peculiarities of soil profile arrangement in them. Makeev, O.V., [1981, 87p., rus] **35-3053**
Flora of subarctic landscapes of Yakutia. Andreev, V.N., et al, [1980, p.1560-1568, rus] **35-3218**
Lakes in the northeastern part of the Siberian Platform. Parmuzin, Iu.P., et al, [1981, 190p., rus] **35-3412**

Subglacial caves
Nature of the ice-rock interface. Vivian, R., [1980, p.267-277, eng] **35-1821**

Subglacial drainage
Saline discharge at the terminus of Taylor Glacier. Keys, J.R., [1979, p.82-85, eng] **35-661**
Land forms of subglacial origin. Makkaveev, A.N., [1980, p.17-24, rus] **35-788**
Formation of morainal deposits. Lavrushin, Iu.A., [1980, p.123-135, rus] **35-809**
Calculating discharge of icebound rivers. Riazanov, V.S., [1980, p.68-77, rus] **35-1005**
Study and preservation of water resources (1971-1973). Shablevskaia, V.A., ed, [1976, 128p., rus] **35-1366**
Calculating flooding during ice jams. Orlova, T.B., [1976, p.87-89, rus] **35-1368**
Calculating subglacial passage capacity of rivers. Marusenko, I.A.I., [1976, p.89-91, rus] **35-1369**
Nature of the ice-rock interface. Vivian, R., [1980, p.267-277, eng] **35-1821**
Naled type of ice in front of some Spitsbergen glaciers. Baranowski, S., [1977, p.85-89, eng] **35-3623**
Trace experiments on the water flow through the Aletsch Glacier. Lang, H., et al, [1979, p.209-218, eng] **35-3730**
Meltwater movement through the firn in an alpine glacier. Behrens, H., et al, [1979, p.219-228, ger] **35-3731**
Meltwater flow in the water table of a temperate glacier. Ambach, W., et al, [1979, p.229-234, ger] **35-3732**
Migrating subglacial channel of Batura Glacier. Zhang, X., et al, [1980, p.153-165, chi] **35-4036**

Subglacial navigation
Heat and mass transfer at the lower surface of the Ross Ice Shelf. Zotikov, I.A., et al, [1980, p.27-36, rus] **35-1223**
Subglacial towing of a drift vessel. Pikul', V., [1981, p.24-26, rus] **35-2854**

Subglacial observations
Winter variations in water quality of arctic and subarctic rivers. Schreier, H., et al, [1980, p.1345-1351, eng] **35-113**
Physical properties of sea ice and under-ice current orientation. Kovacs, A., et al, [1980, p.109-153, eng] **35-550**
Bulk sea ice surveying. Oswald, G.K.A., [1980, p.413-420, eng] **35-563**
Volcano-ice interactions on Mars. Allen, C.C., [1979, p.8048-8059, eng] **35-1102**
Oil spill control under ice cover. Sittig, M., [1978, 360p. (pertinent p.307-310), eng] **35-1116**
Nearshore hydrodynamics of an Arctic barrier island-lagoon system. Matthews, J.B., [1980, p.67-72, eng] **35-1152**
Geologic processes of the Beaufort Sea shelf (April-June 1979). Barnes, P., et al, [1980, p.130-188, eng] **35-1156**
Geologic processes on the Beaufort Sea shelf (July-Sep. 1979). Barnes, P., et al, [1980, p.189-192, eng] **35-1157**
Temperature profiles in the Barnes Ice Cap, Canada. Hooke, R.L., et al, [1980, p.1174-1188, eng] **35-1266**
Biology of the Central Arctic Basin. Vinogradov, M.E., ed, [1980, 260p., rus] **35-1312**
Surface morphology of Arctic Ocean ice. Grishchenko, V.D., [1980, p.33-35, rus] **35-1315**
Sonar measurement of Beaufort Sea ice profiles. Wadhams, P., et al, [1980, p.401-414, eng] **35-1504**
Measurement of the shear stress on the underside of simulated ice covers. Calkins, D.J., et al, [1980, 11p., eng] **35-1723**
Numerical reconstruction of paleo-ice sheets. Hughes, T.J., [1981, p.221-261, eng] **35-2067**
Hydrology and hydrochemistry of water bodies in different climatic zones. Ivanov, A.V., ed, [1980, 159p., rus] **35-2331**
Vertical temperature distribution in lakes during subglacial warming of water in the spring. Ivanov, A.V., et al, [1980, p.3-14, rus] **35-2332**
Methodology of the geological investigation of Hays Glacier. Dietrich, H., [1980, p.20-24, ger] **35-2430**
Mixing and microorganism survival in the Slave River, N.W.T. Smith, D.W., et al, [1981, p.449-470, eng] **35-2518**
Connection between the Gamburtsev and Vernadskiy Mountains. Koblents, I.A.P., [1980, p.224-233, eng] **35-2629**
Oceanographic investigations in polar regions of the World Ocean. Blinov, N.I., et al, [1980, 239p., rus] **35-2888**
Grain-size distribution of subglacial till. Haldorsen, S., [1981, p.91-105, eng] **35-2940**
Arctic marine diatoms and sea ice. Lichti-Federovich, S., [1981, p.57-62, eng] **35-3083**
Temperatures within subglacial debris: a gap in our knowledge. Menzies, J., [1981, p.271-273, eng] **35-3606**
Under-ice circulation in a shallow lagoon, Beaufort Sea. Matthews, J.B., [1981, p.223-234, eng] **35-3698**
Countermeasures equipment for ice-covered ice-infested waters. Meikle, K.M., [1980, p.7-11, eng] **35-3869**
Proposed study of oil and gas under ice. Pistruzak, W.M., [1980, p.37-46, eng] **35-3873**
Studies of oil spill behaviour under ice. Malcolm, J.D., [1980, p.47-54, eng] **35-3874**
Disposition of gas oil mixtures trapped under ice. Topham, D.R., [1980, p.55-73, eng] **35-3875**
Transport and behaviour of a Prudhoe Bay oil spill. Pritchard, R.S., [1980, p.103-109, eng] **35-3879**
Alaskan Beaufort Sea Oilspill Response Body. Allen, A.A., [1980, p.129-132, eng] **35-3881**
Water seepage from Lake Syrdakh. Tishin, M.I., [1980, p.90-97, rus] **35-3998**
Airborne radio echo sounding on Shirase Glacier. Wada, M., et al, [1981, p.16-25, eng] **35-4221**

Subgrade maintenance
Subgrade cooling for stabilization of permafrost beneath structures. Barthelemy, J.L., [1980, p.235-261, eng] **35-1980**

Subgrade preparation
Earth dam subgrades not susceptible to frost heave. Edapin, V.A., [1980, p.28-29, rus] **35-1642**
Shallow foundations in continuous permafrost. Phukan, A., [1981, p.664-677, eng] **35-2529**

Subgrades
Construction and performance of frozen gravel fills. Tart, R.G., et al, [1981, p.693-704, eng] **35-2531**
Frost depth prediction for highway subgrade soils. Haas, W.M., et al, [1981, p.719-733, eng] **35-2533**
Freeze thaw regularity of railway bed in permafrost. Zhu, Y., [1980, p.38-43, chi] **35-2917**

Sublimation
Surface ablation by melting or sublimation on a submerged rotating disc. Condiff, D.W., et al, [1979, p.134-147, eng] **35-3357**
Sublimation and its control in the CRREL permafrost tunnel. Johansen, N.I., [1981, 12p., eng] **35-3736**

Submarines
Subglacial towing of a drift vessel. Pikul', V., [1981, p.24-26, rus] **35-2854**

Subpermafrost ground water
Formation of ground water balance in the USSR. Lebedev, A.V., [1980, 287p., rus] **35-345**
Water vapor condensation processes in permafrost areas. Shepelev, V.V., [1980, p.43-56, rus] **35-3994**

Subpolar regions
Meteorological consequences of natural or deliberate changes in the surface environment. Vowinckel, E., et al, [1980, p.87-110, eng] **35-1008**
Oceanology from space. Bunitskii, V.Kh., ed, [1980, 167p., rus] **35-1343**
Eddy formation in oceanic Subarctic fronts. Bulatov, N.V., [1980, p.61-72, rus] **35-1346**
Changes in northern swamps due to river flow control. Ivanov, K.E., et al, [1980, p.90-105, rus] **35-1430**
Thermal regime of surface waters in the subarctic zone of the Pacific Ocean. Pokudov, V.V., et al, [1980, 173p., rus] **35-1798**
Geocryological processes in the Far East. Shumilov, Iu.V., [1976, p.46-54, rus] **35-3829**
Environmental protection in subpolar regions. Gladkov, V.P., [1979, p.133-140, rus] **35-4107**
Scientific-technical progress in the North. Vlasov, V.I., [1978, p.15-23, rus] **35-4110**
Economic development of the North. Gromov, N.N., et al, [1981, p.25-30, rus] **35-4287**

Subsea permafrost
Studying coastal plains and shelves of Arctic seas. Danilov, I.D., ed, [1979, 135p., rus] **35-64**
Subsea permafrost in the Laptev sea shelf. Zhigarev, L.A., [1979, p.91-96, rus] **35-66**
Coal loading pier in Svea, Svalbard. Instanes, B., [1979, p.217-232, eng] **35-172**
Seismic refraction measurements from sea ice in western McMurdo Sound. McGinnis, L.D., [1979, p.34-35, eng] **35-638**
Geomorphologic analysis of Arctic continental shelf. Patyk-Kara, N.G., et al, [1980, p.91-98, rus] **35-952**
Permafrost beneath the Beaufort Sea: near Prudhoe Bay, Alaska. Sellmann, P.V., et al, [1980, p.35-48, eng] **35-1105**

Geophysical evidence of shallow nearshore permafrost, Prudhoe Bay, Alaska. Rogers, J.C., et al, (1980, p.4845-4853, eng) 35-1117

Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979. (1980, 534p., eng) 35-1150

Features of permafrost beneath the Beaufort Sea. Sellmann, P.V., et al, (1980, p.103-110, eng) 35-1153

Offshore permafrost studies, Beaufort Sea, Alaska. Hartz, R.W., et al, (1980, p.111-122, eng) 35-1154

Forecasting of subsea permafrost conditions in Chukchi and Beaufort Seas. Hopkins, D.M., et al, (1980, p.123-129, eng) 35-1155

Shoreline history and Beaufort Seas. Hopkins, D.M., et al, (1980, p.371-379, eng) 35-1159

Distribution and features of bottom sediments in Alaskan coastal waters. Sellmann, P.V., (1980, 50p., eng) 35-2598

Unfrozen water content of subsea permafrost. Tice, A.R., et al, (1980, p.400-412, eng) 35-2755

All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers. Treshnikov, A.F., ed, (1980, 147p., rus) 35-3103

River diversion effect on permafrost conditions of Arctic shores. Popov, B.A., et al, (1980, p.113-117, rus) 35-3127

Subsea permafrost in the Laptev Sea area. Fartyshev, A.I., et al, (1980, p.134-135, rus) 35-3133

Seismic refraction studies in western McMurdo Sound. McGinnis, L.D., (1980, p.11, eng) 35-3166

Environmental assessment of the Alaskan continental shelf, Vol.5. Hazards. (1981, 659p., eng) 35-3234

Beaufort seacoast permafrost studies. Rogers, J.C., et al, (1981, p.1-44, eng) 35-3235

Environmental assessment of the Alaskan continental shelf, Vol.4. Hazards. (1981, 677p., eng) 35-3255

Characteristics of permafrost beneath the Beaufort Sea. Sellmann, P.V., et al, (1981, p.125-157, eng) 35-3256

Prediction of offshore permafrost conditions. Smith, P.A., et al, (1981, p.159-255, eng) 35-3257

Review of offshore permafrost studies, Beaufort Sea, Alaska, 1976 to 1980. Hartz, R.M., et al, (1981, p.167-177, eng) 35-3258

Permafrost in submerged areas of northern Bering Sea. Hopkins, D.M., (1981, p.188-202, eng) 35-3260

Gas inclusions in subsea permafrost, Prudhoe Bay, Alaska. Boucher, G., et al, (1981, p.276-283, eng) 35-3262

Subsea permafrost probing, thermal regime and data analysis. Osterkamp, T.E., et al, (1981, p.497-677, eng) 35-3267

Methods and equipment for temperature measurements in subsea permafrost. Osterkamp, T.E., et al, (1981, 32p., eng) 35-3549

Offshore Technology Conference, 12th, 1980. Proceedings, Vol.4. (1980, 646p., eng) 35-3632

Soil and permafrost conditions in the Alaskan Beaufort Sea. Miller, D.L., et al, (1980, p.325-338, eng) 35-3637

Conquering Alaska's Arctic drilling problems. Pt.2. Drilling procedures. Moore, S.D., (1981, p.90, 94, 96, 100, eng) 35-3639

Erosion and deposition on Arctic shelves. Pavlidis, Iu.A., et al, (1981, p.33-96, rus) 35-3887

History of permafrost development in Eurasia as exemplified by its regions. Mel'nikov, P.I., ed, (1981, 198p., rus) 35-4065

Permafrost development in NE European USSR and W Siberia. Baulin, V.V., et al, (1981, p.41-60, rus) 35-4068

History of permafrost development in the Timan-Ural area. Oberman, N.G., (1981, p.60-73, rus) 35-4069

Yamal Peninsula. Danilova, N.S., et al, (1981, p.84-91, rus) 35-4072

Supercooled sediments and permafrost in Arctic seas. Zhigarev, L.A., (1981, p.181-191, rus) 35-4079

Subsurface drainage

Introduction of a measure of anti-frost heave by drainage ditch in the tunnel. Nie, F., (1980, p.44-45, chi) 35-88

Heat and water balance in mountain drainage basins. Novorotskii, P.V., (1980, p.224-229, rus) 35-342

Subsurface drainage systems in soil freezing zones. Shtykov, V.I., (1980, p.53-56, rus) 35-1638

Building subsurface drainage in freezing weather. Viksne, A.A., et al, (1981, p.22-24, rus) 35-3536

Subsurface investigations

Sub-surface processes related to ground water and ice. Embleton, C., et al, (1979, p.187-212, eng) 35-1687

Subsurface structures

Artificial freezing of the ground in underground construction. Trupak, N.G., (1979, 452p., eng) 35-704

Block motion from detonations of buried near-surface explosive arrays. Blouin, S., (1980, 62p., eng) 35-1999

Offshore deck on a multiple leg ice resistant substructure. Kliewer, R.M., et al, (1980, p.315-324, eng) 35-3636

Sunlight

On the angular variation of solar reflectance of snow. Choudhury, B.J., et al, (1981, p.465-472, eng) 35-2750

Supercooled clouds

Measuring ice nuclear concentrations in clouds. Potapov, E.I., (1980, p.128-132, rus) 35-25

On the rebound of supercooled droplets colliding with ice plate (2). Kajikawa, M., et al, (1979, p.93-102, eng) 35-516

Icing characteristics of low altitude, supercooled layer clouds. Revision. Jeck, R.K., (1980, 68p., eng) 35-1579

Ice crystal formation on AgI particles. Medaliev, Kh.Kh., et al, (1975, p.107-113, rus) 35-1618

Methods of studying hailstone structure. Bartishvili, G.S., et al, (1975, p.114-121, rus) 35-1619

Studying hail nuclei in wind tunnels. Tlisov, M.I., et al, (1975, p.122-139, rus) 35-1620

Effect of crystalline phase on hailstone growth. Ekba, I.A.A., et al, (1975, p.151-162, rus) 35-1622

Ice crystal shape effect on mixed clouds. Butkov, M.V., et al, (1980, p.51-63, rus) 35-2991

Turbulence in stratiform clouds in an artificial crystallization zone. Kudriavtseva, S.K., (1980, p.124-137, rus) 35-2995

Studying winter frontal cloud boundaries from radar data. Zabolotskaia, T.N., et al, (1980, p.142-145, rus) 35-2996

Computer simulation of airfoil icing without runback. Lozowski, E.P., et al, (1981, 8p., eng) 35-3562

Frozen drops observed at Fairbanks, Alaska. Sakurai, K., et al, (1981, p.73-76, eng) 35-4265

Supercooled fog

Enhanced enrichment of metals in precipitation on Ross Ice Shelf. Warburton, J.A., et al, (1979, p.75-76, eng) 35-656

Propane dispersal in supercooled fog. Dinevich, V.A., et al, (1980, p.3-11, rus) 35-2693

Ice-forming ability of calcium iodide and ammonium fluoride. Plaude, N.O., (1980, p.76-81, rus) 35-2696

Supercooling

Heat and mass transfer from freely falling drops at low temperatures. Zarling, J.P., (1980, 14p., eng) 35-594

Behavior of H2O and D2O at low temperatures. Stanley, H.E., et al, (1980, p.3404-3422, eng) 35-842

Phase transitions of high pressure ice and water. Yamamoto, K., (1980, p.1841-1845, eng) 35-1672

Supercooling and freezing temperatures of soil water. Shtykov, V.I., (1980, p.105-107, rus) 35-2288

Effects of dendritic ice formation in water pipes. Gilpin, R.R., (1977, p.693-699, eng) 35-2944

Factors affecting the ice nucleation temperature in water pipes. Gilpin, R.R., (1978, p.466-471, eng) 35-2945

Effect of electric currents on ice crystal nucleation. Shichiri, T., et al, (1981, p.207-210, eng) 35-3850

Supersaturation

Ice forming properties of copper acetylacetonate. Chichishvili, K.M., et al, (1980, p.31-36, rus) 35-2871

Ice thermal diffusion chamber for observing various nucleations. Tomlinson, E.M., (1980, 108p., eng) 35-3468

Superstructures

Superstructure icing forecasting guide for Alaska waters. (1980, 5p., eng) 35-3790

Supports

Rock pressure in main and preparatory shafts. Shirokov, A.P., ed, (1977, 170p., rus) 35-68

Timber for mines in permafrost areas. Plesnivtsev, V.V., et al, (1977, p.125-127, rus) 35-69

Arch sets for mines in permafrost areas. Moroz, V.F., (1977, p.154-155, rus) 35-70

Timbering, maintenance and preservation of mining excavations. Gritsko, G.I., ed, (1979, 114p., rus) 35-196

Timbering used in mines of permafrost areas. Plesnivtsev, V.V., (1979, p.64-67, rus) 35-198

Mining excavations in permafrost areas. Avksent'ev, I.V., et al, (1979, p.105-106, rus) 35-199

Calculating loads of frozen rocks on timber in mines. Sleptsov, A.E., et al, (1980, p.101-103, rus) 35-634

Calculating strength of ice floe impact against separate supports. Khrapatyi, N.G., et al, (1978, p.81-85, rus) 35-753

Artificial ice pillars in placer mining. Emel'ianov, V.I., et al, (1978, p.49-73, rus) 35-1082

Instructions for designing walls and water resistant screens. (1976, 33p., rus) 35-1714

Wall-in-the ground method of building foundations and structures. Smorodinov, M.I., et al, (1976, 129p., rus) 35-1718

Ice loads on bridge piers. Koren'kov, V.A., (1980, p.10-11, rus) 35-3004

Suprapermafrost ground water

Formation of ground water balance in the USSR. Lebedev, A.V., (1980, 287p., rus) 35-345

Water vapor condensation processes in permafrost areas. Shepelev, V.V., (1980, p.43-56, rus) 35-3994

Surface drainage

Land treatment of wastewaters for rural communities. Reed, S.C., et al, (1975, p.23-39, eng) 35-2568

Calculating the peak discharge of Batura Glacier. Li, N., et al, (1980, p.133-145, chi) 35-4034

Surface energy

Surface heat balance in simulations of permafrost behavior. Miller, T.W., (1979, p.240-250, eng) 35-1110

Interaction of the water molecule with a rigid prism face of ice. Hale, B.N., et al, (1981, p.1991-1995, eng) 35-4155

Surface properties

Asphalt pavement technology, 1979. (1979, 773p., eng) 35-331

Method for predicting roughness, rutting and cracking of pavements. Ullidtz, P., (1979, p.557-586, eng) 35-333

Geometry and density of drifts formed by snow fences. Tabler, R.D., (1980, p.405-419, eng) 35-2382

Slip-velocity hypothesis of wind flow over a snow cover. Bergen, J.D., (1980, p.447-452, eng) 35-2385

Surface widths of simple liquids and an empirical law of freezing. Mon, K.K., et al, (1981, p.2078-2080, eng) 35-2461

Snow drifting. Kind, R.J., (1981, p.338-359, eng) 35-3753

Surface roughness

Geometric properties of the underside of sea ice. Rothrock, D.A., et al, (1980, p.3955-3963, eng) 35-156

Method for predicting roughness, rutting and cracking of pavements. Ullidtz, P., (1979, p.557-586, eng) 35-333

Interpretation of Alberta ice jams data. Michel, B., (1980, 15p., eng) 35-839

Sea ice features of the eastern Arctic from radar data. Ketchum, R.D., Jr., et al, (1980, 14p. + 24 figs., eng) 35-841

Measurements of restitution coefficients of ice. Araoka, K., et al, (1978, p.55-65, jap) 35-1175

Measurement of the shear stress on the underside of simulated ice covers. Calkins, D.J., et al, (1980, 11p., eng) 35-1723

Arctic ice trafficability, Arctic Islands area. Hammond, C.W., (1972, 10p., eng) 35-1847

Arctic ice trafficability, Beaufort Sea area. Hammond, C.W., (1972, 9p., eng) 35-1958

Interaction between wind and snow surface. Kobayashi, S., et al, (1979, p.35-47, eng) 35-2245

Snow transport over mountain crests. Föhn, P.M.B., (1980, p.469-480, eng) 35-2387

Proceedings of Workshop on Hydraulic Resistance of River Ice, Sep. 1980. (1981, 301p., eng) 35-2539

Flow in ice covered channels: some fundamentals. Gerard, R., (1981, p.8-22, eng) 35-2540

Investigation of the resistance coefficient for the underside of ice covers. Chee, S.P., et al, (1981, p.23-33, eng) 35-2541

Conveyance capacity with ice cover for the Nashwaak River, N.B. Burrell, B., et al, (1981, p.34-56, eng) 35-2542

Hydraulic resistance of the ice cover in the St. Lawrence River. Witherspoon, D.F., (1981, p.79-93, eng) 35-2544

Analysis of velocity profiles under ice in shallow streams. Calkins, D.J., et al, (1981, p.94-111, eng) 35-2545

Characteristics of flow below a rough floating cover. Gogus, M., et al, (1981, p.122-142, eng) 35-2547

Breakup process and ice jams on the Athabasca River. Andres, D.D., (1981, p.143-161, eng) 35-2548

On river ice hydraulics (a discussion). Michel, B., (1981, p.182-190, eng) 35-2550

Hydraulic and ice conditions in relation to winter and spring floods. Tremblay, P.R., et al, (1981, p.209-226, eng) 35-2553

Limitations to numerical modelling of ice in rivers. Petryk, S., et al, (1981, p.243-262, eng) 35-2556

Evaluation of ice jam roughness, Thames River, Ontario. Knowles, W.L., et al, (1981, p.281-294, eng) 35-2558

Hydraulic resistance of ice cover and ice jams. Gerard, R., (1981, p.296-298, eng) 35-2559

Video-pulse radar for measuring ice thickness. Finkel'shtein, M.I., et al, (1981, 16p., eng) 35-2590

Ice surface roughness effect on its microwave emission. Nikitin, P.A., (1980, p.93-97, rus) 35-2984

Interface study of rubber-ice friction. Roberts, A.D., et al, (1981, p.55-69, eng) 35-4157

Surface structure

Shapes of snow and ice. Takahashi, K., (1980, 119p., jap) 35-2855

Surface temperature

Ground frost penetration and surface temperature. Fukuda, M., et al, (1980, p.71-80, jap) 35-272

Oceanology from space. Butnitskii, V.Kh., ed, (1980, 167p., rus) 35-1343

Satellite measurements of ocean surface temperature. Staritsyn, D.K., (1980, p.52-61, rus) 35-1345

Processing the infrared satellite reconnaissance data. Staritsyn, D.K., (1980, p.112-118, rus) 35-1347

Sea ice, temperature variations, and atmospheric changes in the Bering Sea. Niebauer, H.J., (1980, p.7507-7515, eng) 35-1912

Index and analysis of surface temperature and wind frequency data. Rayner, J.N., (1961, 18p. + tables, eng) 35-2022

Measuring building R-values for large areas. Flanders, S.N., et al, (1981, p.137-138, eng) 35-2463

Surface waters

Surface water resources in the Tomsk region. Krasheninnikov, M.V., et al, (1976, p.149-155, rus) 35-1193

Surface waters *(cont.)*

Hydrochemical characteristics of Arctic Basin waters. Rusanov, V.P., [1980, p.15-33, rus] **35-1314**

Water supply in populated areas of the North. Vdovin, IU.I., [1980, 133p., rus] **35-1577**

Cooling tendency in the surface water of the North Atlantic Ocean. [1980, 3p., eng] **35-1729**

Geohydrology of the Delta-Clearwater area, Alaska. Wilcox, D.F., [1980, 26p., eng] **35-1896**

Lake overflow - a hazard to winter travel in northern regions. Nelson, W.G., [1981, p.264-277, eng] **35-2508**

Water chemistry in a permafrost environment, Alaska. Krothe, N.C., [1981, p.570-590, eng] **35-2525**

Geochemical drainage dispersion from sulphide mineralization. Mehrtens, M.B., et al. [1973, p.1-10, eng] **35-2742**

Effect of snowmelt on water quality. Sigel, D.I., [1980, p.238-242, eng] **35-2797**

Waters of the Lake Baykal area. Bachurin, G.V., [1980, p.190-200, rus] **35-3426**

Arctic surface waters and ice cover stability. Zakharov, V.F., [1980, p.122-134, rus] **35-3503**

Interrelationship between surface and ground water in the permafrost zone. Pigurova, V.M., ed. [1980, 146p., rus] **35-3988**

Surfactants

Frost resistance of concrete with surface active admixtures. Dibrov, G.D., et al. [1980, p.64-66, rus] **35-308**

Frost resistance of steamed concretes containing surfactants. Koval'skaia, N.N., et al. [1980, p.13-15, rus] **35-470**

Surfactant admixtures for portland cement. Tonka, A.R., et al. [1980, p.71-75, rus] **35-1364**

Surveys

Satellite recording of dynamic processes at the earth surface. Berri, B.I., [1981, p.108-113, rus] **35-3336**

Variations in microwave emission of sea ice (numerical modeling). Nikitin, P.A., [1980, p.56-63, rus] **35-3544**

Manual of engineering geology. Churinov, M.V., ed. [1981, 325p., rus] **35-4305**

Suspended sediments

Mechanism of mudflow formation. Stepanov, B.S. [1980, p.20-23, rus] **35-205**

Modeling the erosion-shear process. Stepanov, B.S., [1980, p.31-35, rus] **35-206**

Forecasting rain-induced mudflows. Kirenskaia, T.I., [1980, p.36-45, rus] **35-207**

Mudflow classification. Vinogradov, IU.B., [1980, p.46-50, rus] **35-208**

Classification of mudflow formation foci. Khomin, R.V., [1980, p.51-56, rus] **35-209**

Mudflow impact tests. Bolarskii, I.IA., [1980, p.120-126, rus] **35-216**

Sedimental process in Harding Lake. Kajihara, M., et al. [1980, p.24-35, eng] **35-1561**

Estimating washload produced by snowmelt erosion on small watersheds. Rendon-Herrero, O., [1980, p.66-83, eng] **35-1972**

Sedimentation in Lower Cook Inlet, Alaska. Larrance, J.D., et al. [1979, p.269-282, eng] **35-3810**

Recovery of a stream from iron ore activities, Schefferville area. Dubreuil, M.A., [1981, p.39-55, eng] **35-3978**

Swamps

Pile foundation construction in northern swamps. Barskii, B.L., [1980, p.19-20, rus] **35-97**

Aerial photography in soil mapping. Mozhaitsev, A.K., [1980, p.355-356, rus] **35-109**

Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia. Popov, A.I., ed. [1980, 256p., rus] **35-279**

Industrial construction on frozen peat. Vialov, S.S., et al. [1980, 144p., rus] **35-280**

Tussock-forming sedge in tundra swamps. Egorova, A.A., [1980, p.44-65, rus] **35-284**

Micromycete fungi of northeastern Yakutia, Pt.1. Shkarupa, A.G., [1980, p.105-123, rus] **35-289**

Mosses of tundra swamps. Stepanova, N.A., [1980, p.140-157, rus] **35-291**

Cements for swamp soil stabilization. Vasil'eva, M.P., et al. [1980, p.23-24, rus] **35-313**

Special roller-supports for pipeline construction on swamps. Gabelaia, R.D., et al. [1980, p.33-34, rus] **35-314**

Radar technique of studying peat and sapropel deposits. Bogorodskii, V.V., et al. [1980, p.27-29, rus] **35-365**

Vegetation in northern swamps. Boch, M.S., et al. [1980, p.27-38, rus] **35-392**

Forest line vegetation of tundra. Dem'ianov, V.A., [1980, p.926-937, rus] **35-396**

Yamal tundra vegetation. Konstantinova, N.A., et al. [1980, p.76-82, rus] **35-499**

Guyless prestressed crossings. Kolomeitsev, V.T., et al. [1980, p.37-38, rus] **35-506**

Spectral reflectivity of cryogenic soils. Sadovnikov, IU.N., [1980, p.45-52, rus] **35-535**

Construction techniques for the Far North. Karpenko, M.P., [1980, p.33-35, rus] **35-618**

Determining strength of peat soils from aerial photographs. Pirogov, A.G., et al. [1980, p.4-6, rus] **35-620**

Pipeline anchors for northern swamps. Gumerov, A.G., et al. [1980, p.6-7, rus] **35-621**

Anchoring pipelines in northern swamps. Postnikov, V.V., et al. [1980, p.7-10, rus] **35-622**

Cost of construction in northern swamps. Purtov, P.G., et al. [1980, p.20-23, rus] **35-625**

Materials on the soils of Komi ASSR. Zaboeva, I.V., ed. [1974, 96p., rus] **35-686**

Soils of northern peat bogs. Popov, V.A., [1974, p.10-16, rus] **35-688**

Cryogenic lithogenesis under swamp conditions. Usov, V.A., [1980, p.40-44, rus] **35-752**

Drainage induced changes in thermal regime of peat. Khimin, N.M., et al. [1980, p.92-100, rus] **35-769**

Geochemical regimes of mountain soils. Snytko, V.A., et al. [1975, p.44-54, rus] **35-794**

Vegetation of Siberia and the Far East: a current bibliography. [1980, 2 volumes, rus] **35-855**

Vegetation of Siberia and the Far East, a current bibliography. [1979, 2 volumes, rus] **35-856**

Vegetation of Siberia and the Far East, a current bibliography. [1980, 97p., rus] **35-857**

Pipe laying in swamps. Kuzovlev, G.M., [1980, p.15-16, rus] **35-920**

Electrophysical properties of peat and their practical application. Lych, A.M., et al. [1980, 176p., rus] **35-937**

Roads of Siberian oil fields. Bromtskii, E.I., et al. [1980, p.3-5, rus] **35-939**

Drainage effect on paluded north taiga soils. Varfolomeev, L.A., et al. [1980, p.44-51, rus] **35-957**

Land reclamation in non-chernozem areas. Aleksankin, A.V., et al. [1980, 288p., rus] **35-996**

Cost of construction in permafrost areas. Kashlinskii, R.N., [1980, p.21-23, rus] **35-1029**

Cost of road construction in northern swamps. Vasiluk, V.A., [1980, p.2-3, rus] **35-1030**

Soils of drained forest swamps. Melent'eva, N.V., [1980, 127p., rus] **35-1134**

Microbiology of Kola Peninsula swamp soils. Pereverzev, V.N., et al. [1974, p.140-142, rus] **35-1212**

Microorganisms of West Siberian soils. Klevenskaia, I.L., [1974, p.146-149, rus] **35-1213**

Central Siberian tundra soils. Vasil'evskaia, V.D., [1980, 235p., rus] **35-1281**

Hydrologic studies and land reclamation in Siberia. Morozov, G.A., ed. [1977, 86p., rus] **35-1289**

Water balance of northern swamps. Ershova, L.M., [1977, p.39-47, rus] **35-1293**

Hydrothermal melioration of northern swamps. Starkov, V.M., [1977, p.68-80, rus] **35-1294**

Construction equipment for weak soils. Penchuk, V.A., [1980, p.21-23, rus] **35-1302**

Pipeline construction in the Far North. Blinov, M.A., [1980, p.23-25, rus] **35-1303**

Swamp-forest systems of Karelia and their dynamics. P'iavchenko, N.I., ed. [1980, 184p., rus] **35-1324**

Drainage effect on northern swampy forests. P'iavchenko, N.I., et al. [1980, p.52-77, rus] **35-1325**

Paluded spruce forests of Karelia. Medvedeva, V.M., et al. [1980, p.78-99, rus] **35-1326**

Microflora of northern transition-type peat soils. Zagural'skaia, L.M., et al. [1980, p.114-123, rus] **35-1328**

Chemical composition of litter decaying in northern swamps. Egorova, R.A., et al. [1980, p.135-155, rus] **35-1329**

Epiphyte algae of peat mosses. Antipina, G.S., [1980, p.167-175, rus] **35-1330**

Influence of water runoff redistribution on the natural conditions of Siberia. Saks, V.N., ed. [1980, 184p., rus] **35-1331**

Changes in taiga due to river flow control. Shirokov, V.M., [1980, p.22-30, rus] **35-1332**

Geographic studies related to the river-channel diversion project. Malik, L.K., [1980, p.47-51, rus] **35-1333**

Landscapes of northern taiga and swamps. Mikhailov, N.I., [1980, p.95-101, rus] **35-1337**

International geological congress, 26th, 1979. Hydrogeology, engineering geology and construction materials. Reports of soviet geologists. Kulikov, G.V., ed. [1980, 247p., rus] **35-1349**

Physical properties of weak grounds. Bocharova, I.S., et al. [1980, p.167-175, rus] **35-1351**

Study and preservation of water resources (1971-1973). Shablevskaia, V.A., ed. [1976, 128p., rus] **35-1366**

Reclamation of paluded lands in permafrost areas. Kulikov, IU.N., [1976, p.6-8, rus] **35-1367**

Conference of young scientists, 3rd, Krasnoyarsk, 1971. Studies of the nature of Siberian forests. [1972, 325p., rus] **35-1373**

Biologic cycle in bilberry-peat moss pine forests. Prokhorova, A.IA., [1972, p.30-36, rus] **35-1375**

Microbiology of Siberian swamp soils. Krapivina, L.A., [1972, p.186-189, rus] **35-1377**

Biomass of tundra swamps. Boch, M.S., [1980, p.47-58, rus] **35-1404**

Changes in northern swamps due to river flow control. Ivanov, K.E., et al. [1980, p.90-105, rus] **35-1430**

Reclamation of north taiga lands. P'iavchenko, N.I., [1980, p.7-16, rus] **35-1443**

Swamps of the West Siberian plain. Liss, O.L., et al. [1980, p.95-112, rus] **35-1444**

Water retaining role of northern swamps. Prozorov, IU.S., [1980, p.128-133, rus] **35-1445**

Woody plants development in northern swamps. Romanova, E.A., [1980, p.147-152, rus] **35-1446**

Spaceborne photography data for land reclamation. Vostokova, E.A., et al. [1980, p.159-167, rus] **35-1447**

Revegetation of cryogenic soils damaged by industrial activities. Moskalenko, N.G., et al. [1980, p.144-164, rus] **35-1454**

Ecology of subarctic mire. Sonesson, M., ed. [1980, 313p., eng] **35-1470**

IBP PT Tundra Biome Project. Objectives, planning, site. Sonesson, M., et al. [1980, p.7-25, eng] **35-1471**

Tundra and climatic factors. Ryden, B.E., [1980, p.55-62, eng] **35-1473**

Supply and transport of mineral nutrients in a subarctic mire. Malmer, N., et al. [1980, p.63-95, eng] **35-1474**

Plant distribution and environment of a subarctic mire. Kvillner, E., et al. [1980, p.97-111, eng] **35-1475**

Classification methods for plant communities in tundra. Sonesson, M., et al. [1980, p.113-125, eng] **35-1476**

Estimation of phytomass changes in a tundra mire. Sonesson, M., et al. [1980, p.127-137, eng] **35-1477**

Photosynthesis of moss in a subarctic mire. Johansson, L.-G., et al. [1980, p.181-190, eng] **35-1480**

Moss growing in relation to environmental factors. Sonesson, M., et al. [1980, p.191-207, eng] **35-1481**

Nitrogen cycling in a subarctic ombrotrophic mire. Rosswall, T., et al. [1980, p.209-234, eng] **35-1482**

Carbon dioxide and methane fluxes from subarctic mire. Svensson, B.H., [1980, p.235-250, eng] **35-1483**

Energy flow through the subarctic mire at Stordalen. Svensson, B.H., et al. [1980, p.283-301, eng] **35-1485**

Vegetation of the European part of the USSR. Gribova, S.A., ed. [1980, 429p., rus] **35-1491**

Biological components of landscapes in the eastern Baykal Amur railroad area. Babushkin, M.N., ed. [1979, 183p., rus] **35-1518**

Tundra and taiga soils of Stanovoy Range. Ershov, IU.I., [1979, p.112-131, rus] **35-1523**

Hydrochemistry of northern peatlands. Ivanov, A.V., et al. [1979, p.156-180, rus] **35-1524**

Maps for protection of northern vegetation. Karpenko, A.S., et al. [1980, p.1192-1202, rus] **35-1534**

Dirigibles for pipeline repairs in northern swamps. Kulikov, V.D., [1980, p.44-47, rus] **35-1608**

Landscape types of the Baykal Amur railroad area. Kuz'min, V.A., [1980, p.11-98, rus] **35-1629**

Soil formation in mountain taiga of the northern Amur region. Khismatullin, Sh.D., [1980, p.98-124, rus] **35-1630**

Biochemistry of cryogenic taiga soils. Nechaeva, E.G., et al. [1980, p.152-162, rus] **35-1632**

Testing peat strength with different dies. Dimov, I.A., et al. [1980, p.12-14, rus] **35-1634**

ETTs-163M drain-laying equipment. Korshikov, A.A., et al. [1980, p.46-47, rus] **35-1640**

Construction of petroleum industry objects in permafrost areas. Shemraev, G.A., et al. [1980, p.10-11, rus] **35-1646**

Hydrology of northern swamps. Babikov, B.V., [1980, p.14-26, rus] **35-1861**

Designing drainage systems for northern swamps. Popov, IU.A., et al. [1980, p.27-28, rus] **35-1863**

Hydrology. Grushevskii, M.S., ed. [1980, 177p., rus] **35-1865**

Calculating evaporation from other swamps. Mokhov, IU.P., et al. [1980, p.67-75, rus] **35-1871**

Construction equipment for northern pipelines. Ostpov, V.N., [1981, p.15-16, rus] **35-2093**

Pipeline construction in permafrost areas. Kantsidalov, E.P., [1981, p.29-30, rus] **35-2094**

Technology of pipeline construction in Siberia. [1981, p.33-34, rus] **35-2095**

Soil preservation in permafrost and deep seasonal freezing areas. Kovda, V.A., et al. [1980, p.5-8, rus] **35-2252**

Economic development of tundra soils. Konorovskii, A.K., [1980, p.17-18, rus] **35-2257**

Classification of taiga soils. Naumov, E.M., [1980, p.24-27, rus] **35-2260**

Elementary processes in cryogenic tundra soils. Vasil'evskaia, V.D., [1980, p.28-29, rus] **35-2261**

Physical properties and moisture regime of meadow soils. Khudiakov, O.I., et al. [1980, p.102-104, rus] **35-2287**

Changes in cryogenic soil temperature due to cultivation. Khudiakov, O.I., et al. [1980, p.134-136, rus] **35-2298**

Regionalization of the Non-chernozem zone. Panov, E.P., et al. [1980, 231p., rus] **35-2439**

Field manual for soil science (according to natural zones). Khantuleva, A.A., ed. [1980, 148p. (pertinent p.15-38), rus] **35-2443**

Proceedings of a scientific conference of the Institute of Biology. Zaboeva, I.V., ed. [1971, 124p., rus] **35-2604**

Meadows of the forest tundra river Yuri'-Yakhi. Bratenkova, E.S., et al. [1971, p.5-7, rus] **35-2605**

Utilization of forest tundra meadows. Kotelina, N.S., [1971, p.14-16, rus] **35-2606**

Scientific conference of Karelian biologists. Komulainen, A.A., ed. [1970, 167p., rus] **35-2613**

Paludification of northern morainal landscapes. Kozlova, R.P., [1970, p.46-47, rus] **35-2614**

Peat deposits in northern bogs. Belova, A.A. [1970, p.49-50, rus] 35-2615
Freeze thaw of peat soils. Piatetskii, G.E., [1970, p.91-93, rus] 35-2617
Helicopter transportation of construction materials in the North. Nabutovskii, V.I., [1981, p.13-14, rus] 35-2774
Jet-propelling pipe strings across Siberian swamps. Kagan, I.A.M., et al, [1981, p.15-16, rus] 35-2775
Elevated and underground pipelines in permafrost areas. Sokolov, S.M., et al, [1980, p.2-4, rus] 35-2776
Using textile interlayers in road construction. Tabakov, N.V., et al, [1980, p.4-7, rus] 35-2777
Oil field roads in western Siberia. Tabakov, N.V., et al, [1980, p.15-19, rus] 35-2780
Pipeline foundations for Siberian swamps. Sokolov, S.M., et al, [1980, p.21-23, rus] 35-2782
Biocenotic role of animals in the Yamal forest tundra. Danilov, N.N., ed, [1977, 146p., rus] 35-2866
Influence of rodents on forest tundra grasses. Peshkova, N.V., [1977, p.134-145, rus] 35-2868
Geographic aspects of Siberian taiga. Sochava, V.B., [1980, 256p., rus] 35-2951
Studying wetland systems from satellite data. Vinogradov, B.V., [1980, p.83-92, rus] 35-2978
Studying catchment areas in swamps from aerial photographs. Savel'eva, T.S., [1980, p.93-99, rus] 35-2979
Palsa bogs, sand dunes and salt marshes, environmentally sensitive habitats in the coastal region southeastern Labrador. Roberts, B.A., et al, [1980, p.245-263, eng] 35-3096
Engineering-geological conditions of oil and gas-bearing areas in Northern Zaural'e. Zakharov, IU.F., et al, [1981, 143p., rus] 35-3227
Design and construction of drainage systems. Tulaev, A.IA., [1980, 191p., rus] 35-3233
Evaporation from paluded forests in Siberia. Linevich, N.L., et al, [1980, p.140-147, rus] 35-3422
Drainage construction in freezing weather. Gontarenko, M.F., et al, [1980, p.43-45, rus] 35-3538
WREL: Water Resources Engineering, Lulea: the activities of the division. [1980, 46p., eng] 35-3793
Typification of central taiga facies in West Siberia according to thermal conditions and the structure of radiation-meteorological fields. Trofimova, I.E., [1978, p.97-123, rus] 35-3824
Algae in waters of the Kuznetskiy Alatau. Safonova, T.A., [1981, p.4-16, rus] 35-3890
Permafrost of the Sibirskiye Uvaly swamps. Shamanova, I.I., [1981, p.97-101, rus] 35-4074
Building earth dams in swamps. Bessonov, A.V., [1981, p.37-38, rus] 35-4231
Transmission line supports for swamps. IAkunin, I.I., et al, [1981, p.44-47, rus] 35-4232
Pipeline construction in swampy taiga. Karpenko, M.P., [1981, p.29-31, rus] 35-4239
Regionalization by environmental protection demands. Chepurko, N.L., et al, [1981, p.44-50, rus] 35-4277
Biologic investigations in the Far East. Zhirmunskii, A.V., ed, [1979, 183p., rus] 35-4307
Landscape evolutions in the Far East. Ivanov, G.I., [1979, p.48-59, rus] 35-4309
Biological cycle in forest tundras of the southern Magadan area. Ignatenko, I.V., ed, [1979, 164p., rus] 35-4323
Structure and biomass of larch taiga. Moskaliuk, T.A., [1979, p.16-27, rus] 35-4325
Biomass of Alaskan black spruce forests. Van Cleve, K., [1979, p.28-36, rus] 35-4326
Peat accumulation in drained northern soils. Berman, D.I., et al, [1979, p.134-145, rus] 35-4330

Sweden

IBP PT Tundra Biome Project. Objectives, planning, site. Sonesson, M., et al, [1980, p.7-25, eng] 35-1471
Bedrock material in moraine forms in northern Sweden. Minell, H., [1980, p.275-281, eng] 35-2142
Case history of a Swedish uranium deposit. Gustafsson, B., et al, [1977, p.72-79, eng] 35-2726

—Lapland

Mercury as a pathfinder for base metal deposits, Swedish Lapland. Duerdil, Y., et al, [1975, p.1-5, eng] 35-2734

Switzerland

Legalization of avalanche zoning in Switzerland. Frutiger, H., [1980, p.313-324, eng] 35-2374

—Alps

Snow and avalanches in the Swiss Alps, winter 1978/79. [1980, 155p., ger] 35-2563
Snow and avalanche conditions in the Swiss Alps. Schild, M., et al, [1980, p.44-92, ger] 35-2565
Accidents and damage due to avalanches. Schild, M., et al, [1980, p.93-151, ger] 35-2566
Snow surveys from earth resources satellites in the Swiss Alps. Haefner, H., [1980, 65p., eng] 35-2930

—Davos

Snow and avalanches in the Davos area. Föhn, P., et al, [1980, p.30-43, ger] 35-2564

Synoptic meteorology

Climate formation. Khromov, S.P., ed, [1980, 183p., rus] 35-1451
Winter air temperature in West Siberia. Mikhitova, N.A., [1980, p.106-118, rus] 35-1452
Climatic changes reflected in glacial hydrology and vegetation. Adamenko, V.N., [1980, p.130-143, rus] 35-1453
Aerosynoptic conditions starting thaws over Georgia. Kordzakhia, R.S., [1980, p.89-94, rus] 35-2989
Climate and waters of Siberia. Bachurin, G.V., ed, [1980, 232p., rus] 35-3413
Mean 500 millibar contour charts of the large-scale atmospheric processes (elementary circulation mechanisms of the northern hemisphere). Vitvitskii, G.N., ed, [1980, 67p., rus] 35-3966
Investigation of climate parameters under various weather conditions (anomalous years). Khrgian, A.Kh., ed, [1981, 164p., rus] 35-3967
Hydrochimatically anomalous years in West Siberia. Glukh, I.S., [1981, p.93-100, rus] 35-3972
Atmospheric circulation above the northern part of the Pacific Ocean. Vlasova, I.G., et al, [1979, p.121-125, rus] 35-4196

Systems analysis

Relations between different components of taiga geosystems. Kuz'menko, E.I., [1978, p.9-21, rus] 35-3820

Taiga

Seismotectonics and seismicity of the Baykal-Amur railroad construction area. Odintsov, M.M., ed, [1980, 204p., rus] 35-137
Construction of the Baykal-Amur railroad. Kalinichev, V.P., [1980, p.5-7, rus] 35-138
Origin and geography of forest soils. Korsunov, V.M., ed, [1980, 131p., rus] 35-295
Bedrock and topography effects on taiga soils. Molokov, V.A., [1980, p.53-57, rus] 35-299
Profiles of taiga soils. Korsunova, T.M., et al, [1980, p.85-103, rus] 35-302
Podsol soils of taiga. Korsunov, V.M., et al, [1980, p.104-128, rus] 35-303
Taiga vegetation and environmental protection. Krauklis, A.A., et al, [1979, p.1674-1681, rus] 35-347
Taiga vegetation in the European USSR. Gusev, IU.D., [1980, p.249-255, rus] 35-394
Podsolization in northern taiga. Vasil'evskaia, V.D., et al, [1980, p.94-101, rus] 35-501
Pale yellow soils of northern taiga. Sokolov, I.A., et al, [1980, p.30-37, rus] 35-534
Materials on the soils of Komi ASSR. Zaboeva, I.V., ed, [1974, 96p., rus] 35-686
Soils of northern peat bogs. Popov, V.A., [1974, p.10-16, rus] 35-688
Gley-podsol soils of northern taiga. Tsypanova, A.N., [1974, p.25-30, rus] 35-689
Microbiology of tundra and taiga soils. Stenina, T.A., [1974, p.35-42, rus] 35-690
Humus profile of taiga podsols. Archegova, I.B., [1974, p.43-49, rus] 35-691
Analyzing humus substances in taiga soils. Sloboda, A.V., [1974, p.50-57, rus] 35-692
Nitrogen and ash elements in taiga soils. Zabolotskaia, T.G., [1974, p.64-69, rus] 35-693
Geochemical processes in taiga geosystems. Nechaeva, E.G., [1971, p.3-31, rus] 35-755
Geobotanical photointerpretation of northern landscapes. Viktorov, S.V., et al, [1971, p.23-28, rus] 35-756
Large scale map of taiga vegetation. Medvedev, IU.O., [1971, p.47-57, rus] 35-758
Geographical problems of Soviet Subarctic. Sochava, V.B., et al, [1972, p.3-20, rus] 35-759
Microclimatology of taiga. Mart'ianova, G.N., et al, [1972, p.32-39, rus] 35-760
Heat balance in taiga forests. Trofimova, I.E., et al, [1973, p.37-47, rus] 35-762
Moisture dynamics of tagia soils. Sazonov, A.G., [1973, p.55-62, rus] 35-763
Geographic structures of Angara River taiga. Krauklis, A.A., [1973, p.3-16, rus] 35-764
Water transfer of chemical elements in taiga landscapes. Kuz'min, V.A., [1973, p.23-32, rus] 35-765
Transpiration of taiga vegetation. Antipova, N.D., et al, [1975, p.55-62, rus] 35-795
Landscape-climatic charts of Buryatiya. Ivanov, G.M., et al, [1976, p.18-36, rus] 35-801
Matter and energy exchange in pine forests of the European North. Kazimirov, N.I., et al, [1977, 304p., rus] 35-807
Vegetation of Siberia and the Far East: a current bibliography. [1980, 2 volumes, rus] 35-855
Vegetation of Siberia and the Far East: a current bibliography. [1979, 2 volumes, rus] 35-856
Vegetation of Siberia and the Far East: a current bibliography. [1980, 97p., rus] 35-857
Botanical geography of Altai. Ogureeva, G.N., [1980, 192p., rus] 35-876
Podsol soils of Central and Eastern European USSR (developed on loams). Rode, A.A., ed, [1980, 304p., rus] 35-877
Slope processes in Alpine taiga. Rashba, I.N., [1976, p.86-122, rus] 35-880
Forestry in northern taiga. Mikhailov, IU.P., et al, [1980, p.5-50, rus] 35-881
Taiga soils with seasonal frozen layer. Nechaeva, E.G., [1980, p.169-206, rus] 35-882
Effects of fire in Alaska and adjacent Canada: a literature review. Viereck, L.A., et al, [1980, 124p., eng] 35-891
Virgin spruce forests of southern taiga. Orlov, A.IA., et al, [1980, p.38-45, rus] 35-955
Drainage effect on paluded north taiga soils. Varfolomeev, L.A., et al, [1980, p.44-51, rus] 35-957
Grass lands in swampy taiga. Savchenko, I.V., [1980, p.3-14, rus] 35-959
Soil formation in northern taiga. Nikonov, V.V., [1979, p.501-511, eng] 35-960
Control of recoverable natural resources of the Far North, USSR. Gel'berg, M.G., et al, [1980, 45p., eng] 35-979
Role of snow cover in studying the winter system of taiga. Kolomyts, E.G., [1980, 15p., eng] 35-980
Seasonal development of vegetation in Siberian mountains. Lobanov, A.I., [1980, p.91-93, rus] 35-1040
Surface water resources in the Tomsk region. Krasheninnikov, M.V., et al, [1976, p.149-155, rus] 35-1193
Dynamics of microbiological processes in soils and the factors influencing it. Pts. 1 and 2. Ryys, O., ed, [1974, 2 vols., rus] 35-1202
Microbiology of cryogenic soils. Aristovskaia, T.V., et al, [1974, p.23-29, rus] 35-1204
Microorganisms of West Siberian soils. Klevenskaia, I.L., [1974, p.146-149, rus] 35-1213
Microbiology of taiga soils. Firsova, V.P., et al, [1974, p.147-150, rus] 35-1216
Changes in taiga due to river flow control. Shirokov, V.M., [1980, p.22-30, rus] 35-1332
Geographic studies related to the river-channel diversion project. Malik, L.K., [1980, p.47-51, rus] 35-1333
Changes induced by stream flow diversion in Siberia. Bachurin, G.V., [1980, p.52-56, rus] 35-1334
Landscapes of northern taiga and swamps. Mikhailov, N.I., [1980, p.95-101, rus] 35-1337
Diversion of a part of the Irtysh River waters. Petrov, I.B., [1980, p.110-114, rus] 35-1339
Forest tundra swamps. Neishtadt, M.I., [1980, p.121-124, rus] 35-1340
Peculiarities and conditions of formation of light podsol soils. Kul'shin, V.A., [1980, p.176-178, rus] 35-1342
Study and preservation of water resources (1971-1973). Shablevskaia, V.A., ed, [1976, 128p., rus] 35-1366
Reclamation of paluded lands in permafrost areas. Kulikov, IU.N., [1976, p.6-8, rus] 35-1367
Lake effect on North Baykal shore forests. Vykhristiuk, M.M., [1980, 215p., rus] 35-1372
Conference of young scientists, 3rd, Krasnoyarsk, 1971. Studies of the nature of Siberian forests. [1972, 325p., rus] 35-1373
Biomass dynamics in green-moss fir forests of different age. Kuzikov, I.E., [1972, p.16-21, rus] 35-1374
Biologic cycle in bilberry-peat moss pine forests. Prokhorova, A.IA., [1972, p.30-36, rus] 35-1375
Microflora biomass in pine biocenoses. Aiunts, K.M., [1972, p.177-180, rus] 35-1376
Soils of pine forests of different age. Sorokina, O.A., [1972, p.190-195, rus] 35-1378
Thermal effect of radiation on forest litter. Konev, V.A., [1972, p.230-235, rus] 35-1379
Rate of flame propagation in pine litter. Sukhinin, A.I., [1972, p.236-242, rus] 35-1380
Modeling pine needle burning in air flow. Kisiliakhov, E.K., [1972, p.242-248, rus] 35-1381
Microclimatology of mountain taiga. Molokov, V.A., [1972, p.268-275, rus] 35-1382
Studies of forest soils and vegetation in the northeastern USSR. Shcherbakov, I.P., ed, [1971, 176p., rus] 35-1390
Classification of taiga forests. Shcherbakov, I.P., [1971, p.3-33, rus] 35-1391
Revegetation of felled areas in taiga. Mikhaleva, V.M., [1971, p.34-51, rus] 35-1392
Revegetation of felled and burned areas in taiga. Chugunova, R.V., [1971, p.76-82, rus] 35-1393
Fire danger in different Far North landscapes. Snytkin, G.V., [1971, p.83-93, rus] 35-1394
Amount of litter produced by different taiga trees. Karpel', B.A., [1971, p.94-102, rus] 35-1395
Larch in taiga and forest tundra of Siberia. Il'ina, I.S., [1980, p.28-44, rus] 35-1426
Complex geographic studies and the development of mountainous regions. Gvozdetskii, N.A., ed, [1980, 150p., rus] 35-1435
Altitudinal zonation of mountain vegetation in the USSR. Staniukovich, K.V., [1980, p.74-81, rus] 35-1440
Environmental protection of mountain landscapes. Makunina, A.A., et al, [1980, p.107-119, rus] 35-1441
Significance of swamps in the biosphere (hydrologic aspects). P'iavchenko, N.I., ed, [1980, 176p., rus] 35-1442
Reclamation of north taiga lands. P'iavchenko, N.I., [1980, p.7-16, rus] 35-1443
Swamps of the West Siberian plain. Liss, O.L., et al, [1980, p.95-112, rus] 35-1444
Water retaining role of northern swamps. Prozorov, IU.S., [1980, p.128-133, rus] 35-1445
Climatic evaluations in the Baykal-Amur railroad area. Kornilova, R.P., et al, [1980, p.60-69, rus] 35-1450

Taiga *(cont.)*

Revegetation of cryogenic soils damaged by industrial activities. Moskalenko, N.G., et al, (1980, p.144-164, rus) **35-1454**

Variations in Alaska tundra, taiga, and maritime snows. Benson, C.S., (1980, p.202-205, eng) **35-1487**

Vegetation of the European part of the USSR. Gribova, S.A., ed, (1980, 429p., rus) **35-1491**

Migration and biological activity of natural radionuclides in northern biogeocenoses. Popova, O.N., ed, (1980, 179p., rus) **35-1514**

Radioactive elements in cryogenic soils. Gil', T.V., (1980, p.52-57, rus) **35-1515**

Thorium effect on living organisms of taiga soils. Krivolutskii, D.A., et al, (1980, p.120-124, rus) **35-1517**

Biological components of landscapes in the eastern Baykal Amur railroad area. Babushkin, M.N., ed, (1979, 183p., rus) **35-1518**

Environmental protection in the Baykal Amur railroad area. Shlotgauer, S.D., (1979, p.3-10, rus) **35-1519**

Sustaining ecologic equilibrium in the Baykal Amur railroad zone. Sapozhnikov, A.P., et al, (1979, p.11-26, rus) **35-1520**

Tundra and taiga soils of Stanovoy Range. Ershov, I.I., (1979, p.112-131, rus) **35-1523**

Maps for protection of northern vegetation. Karpenko, A.S., et al, (1980, p.1192-1202, rus) **35-1534**

Studying soil geography and landscape geochemistry in the Baykal Amur railroad zone. Snytko, V.A., ed, (1980, 184p., rus) **35-1627**

Landscape types of the Baykal Amur railroad area. Kuz'min, V.A., (1980, p.11-98, rus) **35-1629**

Soil formation in mountain taiga of the northern Amur region. Khismatullin, Sh.D., (1980, p.98-124, rus) **35-1630**

Landscape types in the Muya River Basin. Nefed'eva, L.G., (1980, p.125-139, rus) **35-1631**

Biochemistry of cryogenic taiga soils. Nechaeva, E.G., et al, (1980, p.152-162, rus) **35-1632**

Temperatures of north taiga soils. Krauklis, A.A., et al, (1980, p.61-70, rus) **35-1705**

Mapping vegetational resources of permafrost areas. Geleta, I.F., et al, (1980, p.114-124, rus) **35-1707**

Forest fire season in Transbaikal. Lovanov, A.I., et al, (1980, p.49-50, rus) **35-1767**

Taiga landscapes affected by industrial activities. Gal'perin, M.I., (1975, p.11-14, rus) **35-1787**

Slope orientation factor in landscape development. Shcherbakov, I.A., (1975, p.24-34, rus) **35-1788**

Non-podsolized forest soils of Tannu-Ola (East Sayan Mountains). Dedkov, V.S., (1979, p.100-118, rus) **35-1790**

Age structure of stands in northern taiga. Listov, A.A., (1980, p.25-29, rus) **35-1858**

Afforestation processes and their control in the European North. L'vov, P.N., et al, (1980, 113p., rus) **35-1897**

Age and restoration dynamics of forests in the Ural Mountains and east of the Urals. Kolesnikov, B.P., ed, (1976, 168p., rus) **35-1916**

Genetic classification of mountain forests. Makhonin, A.S., et al, (1976, p.3-91, rus) **35-1917**

Taiga vegetation of the northern Ural Mountains. Kostiuchenko, I.S., et al, (1976, p.92-103, rus) **35-1918**

Revegetation of burned areas in North Ural taiga. Kirsanov, V.A., (1976, p.104-113, rus) **35-1919**

Physical properties of mountain taiga soils. Zubareva, R.S., et al, (1976, p.114-123, rus) **35-1920**

Taiga vegetation in areas east of the Ural Mountains. Sannikov, S.N., (1976, p.124-165, rus) **35-1921**

Biological studies in the northeastern European USSR. Getsen, M.V., ed, (1974, 235p., rus) **35-1924**

Biological cycle of chemical elements in taiga. Zaboeva, I.V., et al, (1974, p.9-14, rus) **35-1925**

Soil composition of central taiga. Rychkova, V.A., (1974, p.15-20, rus) **35-1926**

Vertical distribution of plants in the Putorana Mountains. Kuvaev, V.B., (1980, 261p., rus) **35-2051**

Microbial ecology and decomposition in Arctic tundra and Subarctic taiga ecosystems. Flanagan, P.W., (1978, p.161-168, eng) **35-2177**

All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct. 29-31, 1980. Abstracts. (1980, 203p., rus) **35-2251**

Origin, geography, classification and terminology of northern soils. Sokolov, I.A., et al, (1980, p.11-13, rus) **35-2254**

Classification of taiga soils. Naumov, E.M., (1980, p.24-27, rus) **35-2260**

Cryogenic processes and soil formation in taiga. Gorbachev, V.N., (1980, p.32-33, rus) **35-2263**

Cryogenic processes in mountain and lowland soils. Khavkina, N.V., et al, (1980, p.51-53, rus) **35-2268**

Soils of taiga and forested bald-peak areas. Ogorodnikov, A.V., (1980, p.81-83, rus) **35-2280**

Biologic activity of taiga soils. Popova, E.P., (1980, p.98-100, rus) **35-2285**

Controlling hydrothermal regime of cryogenic soils. Konstantinov, V.D., et al, (1980, p.122-124, rus) **35-2294**

Taiga soil temperature in fellage areas. Sorokin, N.D., (1980, p.143-144, rus) **35-2301**

Cryogenic mountain-forest soils. Molokov, V.A., et al, (1980, p.167-169, rus) **35-2306**

Hydrothermal regimes of mountain taiga soils. Khudrakov, O.I., (1980, p.177-178, rus) **35-2311**

Effect of river flow control on taiga vegetation. Polushkin, I.V., et al, (1979, p.36-50, rus) **35-2322**

Geochemistry of taiga soils. Nechaeva, E.G., et al, (1979, p.51-62, rus) **35-2323**

Soils of mountain *Pinus sibirica* forests in Central Siberia. Zueva, K.G., (1980, 172p., rus) **35-2330**

Vegetation and forest dynamics of the upper Dietrich River Valley, Alaska. Densmore, D., (1980, p.183p., eng) **35-2408**

Regionalization of the Non-chernozem zone. Panov, E.P., et al, (1980, 231p., rus) **35-2439**

Field manual for soil science (according to natural zones). Khantuleva, A.A., ed, (1980, 148p. (pertinent p.15-38), rus) **35-2443**

Military winter training in taiga. Titov, A., (1978, p.31-35, rus) **35-2450**

Dynamics of forest biogeocenoses in Siberia. Smagin, V.N., ed, (1980, 208p., rus) **35-2474**

Concepts of biogeocenoses, ecogenesis and other terms. Smagin, V.N., (1980, p.6-28, rus) **35-2475**

Taiga vegetation development in Holocene. Savina, I.N., (1980, p.28-53, rus) **35-2476**

Revegetation in mountain taiga. Nazimova, D.I., et al, (1980, p.54-87, rus) **35-2477**

Microbiology of sedge-pine forest soils. Vishniakova, Z.V., (1980, p.130-144, rus) **35-2479**

Phenology of Krasnoyarsk forest-steppe forests. Elagin, I.N., (1980, p.159-175, rus) **35-2480**

High altitude vegetation of West Sayan Mountains. Vlasenko, V.I., (1980, p.175-200, rus) **35-2483**

New terms "dynamics" and "ecogenesis" of biogeocenoses. Smagin, V.N., (1980, p.201-205, rus) **35-2484**

Climatic conditions and microclimate of taiga geosystems in Siberia. Bufal, V.V., ed, (1980, 232p., rus) **35-2485**

Radiation balance of Siberian taiga. Bufal, V.V., et al, (1980, p.5-30, rus) **35-2486**

Radiation regime of southern tagia. Grigor'ev, G.N., (1980, p.49-109, rus) **35-2488**

Climate and microclimate of taiga. Trofimova, I.E., (1980, p.144-182, rus) **35-2490**

Thermal regime of taiga soils. Linevich, N.L., (1980, p.183-195, rus) **35-2491**

Proceedings of a scientific conference of the Institute of Biology. Zaboeva, I.V., ed, (1971, 124p., rus) **35-2604**

Cultivation of meadows in central taiga. Koiushev, I.A., (1971, p.16-17, rus) **35-2607**

Biomass of green-moss-type taiga. Nadutkin, V.D., et al, (1971, p.50-51, rus) **35-2608**

Hydrothermal and physical properties of northern taiga soils. Verkholantseva, L.A., (1971, p.51-53, rus) **35-2609**

Biochemical processes in Far North taiga soils. Zaboeva, I.V., et al, (1971, p.58-59, rus) **35-2610**

Nitrogen regimes of taiga soils. Il'dintseva, I.I., (1971, p.61-62, rus) **35-2611**

Annual chemical element cycle of central taiga. Rusanova, G.V., et al, (1971, p.62-63, rus) **35-2612**

Construction of Severobaykal'sk. Savel'ev, R.V., (1980, p.16-18, rus) **35-2631**

Soil mantle in the permafrost-taiga region. Sokolov, I.A., (1980, p.17-28, eng) **35-2761**

Thixotropic nongleyed cryogenic soils. Sokolov, I.A., (1980, p.41-55, eng) **35-2763**

Influence of rodents on forest tundra grasses. Peshkova, N.V., (1977, p.134-145, rus) **35-2868**

Geographic aspects of Siberian taiga. Sochava, V.B., (1980, 256p., rus) **35-2951**

Problems of utilization and preservation of natural resources in Siberia. Saks, V.N., ed, (1980, 136p., rus) **35-3042**

Evolution of taiga soils. Gadzhiev, I.M., (1980, p.128-131, rus) **35-3044**

All-Union symposium on physical bases of recent climatic changes, Moscow, Apr. 23-25, 1979, Vol. 1. (1980, 108p., rus) **35-3049**

Microclimatic changes in taiga geosystems due to human factors. Afanas'ev, V.A., et al, (1980, p.90-100, rus) **35-3052**

Facies of soil cryogenesis and peculiarities of soil profile arrangement in them. Makeev, O.V., (1981, 87p., rus) **35-3053**

Mycorhizu fungi and mycorhizae of forest-forming species in the North. Shubin, V.I., ed, (1980, 185p., rus) **35-3054**

Land reclamation methods in cold regions. Zakharina, E.S., (1980, p.233-235, rus) **35-3058**

Cryolithologic analysis. Gasanov, Sh.Sh., (1981, 195p., rus) **35-3211**

Grass communities in northern meadows. Dymina, G.D., (1980, p.1392-1403, rus) **35-3213**

Permafrost investigations in economically developing areas of the USSR. Pavlov, A.V., ed, (1980, 183p., rus) **35-3305**

Seasonally freezing layer in the Lake Baykal area. Zabolotnik, S.I., et al, (1980, p.106-113, rus) **35-3323**

Climate and waters of Siberia. Bachurin, G.V., ed, (1980, 232p., rus) **35-3413**

Climate and hydrology of permafrost areas. Bachurin, G.V., et al, (1980, p.3-41, rus) **35-3414**

Climate forming processes in the Minusinsk Basin. Durnev, V.F., (1980, p.59-77, rus) **35-3417**

Seasonal variations of heat balance in taiga. Zhurina, L.L., (1980, p.132-140, rus) **35-3421**

Evaporation from paluded forests in Siberia. Linevich, N.L., et al, (1980, p.140-147, rus) **35-3422**

Mathematical models of water balance in permafrost areas. Nikitin, S.P., (1980, p.213-218, rus) **35-3428**

Transpiration of taiga vegetation. Antipov, A.N., et al, (1980, p.115-124, rus) **35-3474**

Glacial and morphoclimatic indices of the Baykal Highlands. Vyrkin, V.B., et al, (1980, p.113-118, rus) **35-3479**

Classification of mountain taiga soils. Molokov, V.A., et al, (1980, p.163-170, rus) **35-3480**

Radiation balance of taiga geosystems. Mart'ianova, G.N., (1980, p.190-193, rus) **35-3481**

Plant communities of spruce taiga. Dyrenkov, S.A., et al, (1981, p.26-33, rus) **35-3508**

Evaluating fire danger in taiga from microwave radiation. Valendik, E.N., et al, (1980, p.14-19, rus) **35-3545**

Regularities governing the formation of elementary geosystems (the central taiga structures of Sos'vinskoe Priob'e as an example). Mikheev, V.S., ed, (1978, 124p., rus) **35-3819**

Relations between different components of taiga geosystems. Kuz'menko, E.I., (1978, p.9-21, rus) **35-3820**

Density of taiga stand and the young growth. Kuz'menko, E.I., (1978, p.22-42, rus) **35-3821**

Elementary structures of taiga geosystems. Mikheev, V.S., (1978, p.42-69, rus) **35-3822**

Soils of the Konda-Sos'va Priob'e. Sazonov, A.G., (1978, p.70-96, rus) **35-3823**

Typification of central taiga facies in West Siberia according to thermal conditions and the structure of radiation-meteorological fields. Trofimova, I.E., (1978, p.97-123, rus) **35-3824**

Natural resources of the northeastern USSR. Lozhkin, A.V., ed, (1976, 152p., rus) **35-3825**

Runoff characteristics in polar regions. Nasybulin, Sh.S., (1976, p.32-41, rus) **35-3827**

Interrelations between the components of forest and swamp ecosystems in the central taiga of the Ural area. Vasilevich, V.I., ed, (1980, 256p., rus) **35-3863**

New data on the phytogeography of Siberia. Krasnoborov, I.M., et al, (1981, 232p., rus) **35-3889**

Tundra and taiga vegetation in the Tuva ASSR. Krasnoborov, I.M., (1981, p.112-119, rus) **35-3894**

Flora of pine forests in central Tuva. Shaulo, D.N., (1981, p.197-210, rus) **35-3896**

Microelement migration in waters of permafrost areas. Makarov, V.N., (1980, p.114-127, rus) **35-4001**

Organization of spruce ecosystems in southern taiga. Isakov, Iu.A., ed, (1979, 220p., rus) **35-4117**

Vegetation of the Valday taiga. Glazov, M.V., (1979, p.10-29, rus) **35-4118**

Reforestation of the Valday taiga. Tishkov, A.A., (1979, p.30-69, rus) **35-4119**

Microclimate and transpiration of taiga soils. Grishina, L.A., et al, (1979, p.70-85, rus) **35-4120**

Seasonal variations of soil water composition in taiga. Grishina, L.A., et al, (1979, p.86-104, rus) **35-4121**

Natural revegetation in Valday spruce forests. Kazanskaia, N.S., et al, (1979, p.158-175, rus) **35-4122**

Sandy semipodsolic taiga soils. Grigor'ev, A.Iu., (1979, p.176-184, rus) **35-4123**

Heat and water balance variations in taiga due to lumbering. Fedorov, S.F., et al, (1979, p.185-193, rus) **35-4124**

Transition zone between taiga and swamps. Armand, A.D., (1979, p.194-213, rus) **35-4125**

Genesis of burozems and of brown forest and taiga soils similar to them. Ehwald, E., (1980, p.131-143, eng) **35-4154**

Transmission line supports for swamps. IAkunin, I.I., et al, (1981, p.44-47, rus) **35-4232**

Pipeline construction in swampy taiga. Karpenko, M.P., (1981, p.29-31, rus) **35-4239**

Forestry problems in permafrost areas. Nikolaiuk, V.A., (1981, p.6-11, rus) **35-4276**

Biologic investigations in the Far East. Zhirmunskii, A.V., ed, (1979, 183p., rus) **35-4307**

Economic development of mountain taiga. Samoilov, T.P., et al, (1979, p.25-35, rus) **35-4308**

Landscape evolutions in the Far East. Ivanov, G.I., (1979, p.48-59, rus) **35-4309**

Biological cycle in forest tundras of the southern Magadan area. Ignatenko, I.V., ed, (1979, 164p., rus) **35-4323**

Structure and biomass of larch taiga. Moskaliuk, T.A., (1979, p.16-27, rus) **35-4325**

Biomass and biological cycle in tundras. Ignatenko, I.V., et al, (1979, p.92-124, rus) **35-4328**

Peat accumulation in drained northern soils. Berman, D.I., et al, (1979, p.134-145, rus) **35-4330**

Humification processes in soils of the Okhotsk Sea area. Andreev, D.P., (1979, p.146-149, rus) **35-4331**

Tailings

Stability of tailing embankments. Ogloblin, V.F., et al, (1980, p.68-71, rus) **35-230**

Excavation equipment for frozen ground. Stepanov, O.E., et al, (1980, p.8-9, rus) 35-324
Screening effect of tailings under permafrost conditions. Pechenin, IU.I., et al, (1979, p.6-7, rus) 35-352
Open-pit mining in winter. Krasnosel'skii, E.B., (1980, p.264-268, rus) 35-1256
Natural revegetation of dredge tailings at Fox, Alaska. Holmes, K.W., (1981, p.26-29, eng) 35-1693
Seismic stability of hydraulic earth structures. Krasnikov, N.D., (1981, 240p., rus) 35-2689
Vapor condensation in hydraulically filled tailings. Klimov, G.I., et al, (1980, p.57-62, rus) 35-3995
Vapor condensation in aeration zones at subzero temperatures. Papernov, I.M., et al, (1980, p.62-82, rus) 35-3996
Building earth dams in swamps. Bessonov, A.V., (1981, p.37-38, rus) 35-4231

Taliks

Baykal-Angarakan section of the Baykal-Amur railroad. Lysak, S.V., et al, (1980, p.139-153, rus) 35-139
Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979. Abstracts of the papers. (1979, 211p., rus) 35-245
Formation of ground water balance in the USSR. Lebedev, A.V., (1980, 287p., rus) 35-345
Geocryological conditions of formation of Upper Pleistocene and Holocene deposits in the northern eastern USSR. Novoseletskii, R.N., ed. (1976, 88p., rus) 35-1143
Ice bearing loess in the Yana-Omoloy Interfluve. Tomirdiaro, S.V., et al, (1976, p.3-11, rus) 35-1144
Soil formation in different Alpine landscapes. Kuz'min, V.A., et al, (1980, p.71-73, rus) 35-2275
Spaceborne photography for determining tectonic taliks. Liang, F., et al, (1980, p.61-62, chi) 35-2671
Geology and geomorphology of the Beaufort Sea coastal plain. Cannon, P.J., (1981, p.619-634, eng) 35-3251
Permafrost conditions in the Yubileynaya kimberlite pipe area. Devyatkin, V.N., et al, (1980, p.79-82, rus) 35-3319
Paleocryogenic structure of deposits in the Baykal Mountains. Bosikov, N.P., et al, (1980, p.153-156, rus) 35-3331
Artificial taliks in permafrost areas. Gol'dtman, V.G., et al, (1976, p.77-84, rus) 35-3833
Water seepage from Lake Syrdakh. Tishin, M.I., (1980, p.90-97, rus) 35-3998

Taliks beneath lakes

Origin of pingos in regions of thick permafrost, western Canadian Arctic. Pissart, A., et al, (1977, p.149-160, eng) 35-1884

Taliks beneath rivers

Bank stabilization, Bethel, Alaska. (1981, 63p. + appends., eng) 35-3812

Talus

Glacier-rock glacier transition in the southwest Yukon Territory, Canada. Johnson, P.G., (1980, p.195-204, eng) 35-1661
Rock glacier formation in Colorado. Vick, S.G., (1981, p.75-84, eng) 35-2459
Stability analysis of some slopes in the area of Saglek fjord. Price, A.G., (1981, p.57-72, eng) 35-3979
Alpine mass movement forms (noncatastrophic): classification, description, and significance. White, S.E., (1981, p.127-137, eng) 35-4087

Tanker ships

Pathfinder for Arctic exploitation. (1980, p.346-347, eng) 35-743

Tanks (containers)

Calculating ice regimes of water tanks. Mostovoi, G.A., (1980, p.5-6, rus) 35-463
Improving the reliability of reservoirs, gas tanks and their equipment. Verevkin, S.I., et al, (1980, 288p., rus) 35-2440
Using liquid fuels at low temperatures. Englin, B.A., (1980, 207p., rus) 35-2998

Tars

Deep stabilization of soils with synthetic resins. Bleskina, N.A., et al, (1980, 147p., rus) 35-875

Tectonics

Earth beneath the poles. (1980, p.4-14, eng) 35-400
Spaceborne photography for determining tectonic taliks. Liang, F., et al, (1980, p.61-62, chi) 35-2671

Telecommunication

1980-81 ANARE report. (1980, 62p., eng) 35-1400
Wave propagation due to rain and ice crystals. Dilworth, I.J., et al, (1981, p.126-132, eng) 35-3884
Wave propagation through snow and ice crystals. Hendry, A., et al, (1981, p.133-139, eng) 35-3885
Ice depolarization at 11.7 and 19 GHz on slant paths in Virginia, USA. Bostian, C.W., et al, (1981, p.148-153, eng) 35-3886

Telemetering equipment

Remote sensing data on snow properties. Shafer, B.A., (1980, p.1-10, eng) 35-1733
Data transfer and measurement in radio telemetry station on glaciers. Wang, L., et al, (1980, p.3-7, chi) 35-2649

Temperature control

Winter and summer control of concrete temperature. Gunter, IU.S., et al, (1980, p.19-22, rus) 35-602

Temperature distribution

Effect of a heat-conducting well casing on temperature distribution. Closmann, P.J., et al, (1979, p.20-27, eng) 35-1113
Cooling of a horizontal cylinder of water through its maximum density. Gilpin, R.R., (1975, p.1307-1315, eng) 35-2943
Ice-free Cretaceous? Results from climate model simulations. Barron, E.J., et al, (1981, p.501-508, eng) 35-3687
Physics of glaciers. Paterson, W.S.B., (1981, 380p., eng) 35-4009

Temperature effects

Preliminary experimental study on the instantaneous strength of frozen sand. Lian, H., et al, (1980, p.37-40, chi) 35-86
Underground ice along the Qing-Zang highway. Li, L., et al, (1980, p.31-35, chi) 35-123
Tundra plant structure and production in relation to the environment. Wielgolaski, F.E., (1980, p.23-30, eng) 35-486
Snow crystals of unusual type observed at the summit of Mt. Teine. Yamami, N., et al, (1977, p.39-45, eng) 35-572
Low temperature phase changes in moist, briny clays. Anderson, D.M., et al, (1980, p.139-144, eng) 35-728
Cold oil salvage pumps. Jolliff, J.V., et al, (1980, p.239-251, eng) 35-827
Fracture behavior of ice in Charpy impact testing. Itagaki, K., et al, (1980, 13p., eng) 35-973
Predicting cap and base rock heat loss in thermal reservoirs. Vinsome, P.K.W., et al, (1980, p.87-90, eng) 35-1070
Temperature coefficient of the refractive index for H2O and D2O. Abbate, G., et al, (1980, p.1171-1177, eng) 35-1691
Field cooling rates of asphalt concrete overlays at low temperatures. Eaton, R.A., et al, (1980, 11p., eng) 35-2002
Attack under winter conditions. Georgiev, E., (1980, 6p., eng) 35-2152
Carburetor ice flight testing: use of an anti-icing fuel additive. Newman, R.L., (1981, p.5-6, eng) 35-2176
Oxygen and hydrogen isotope effects on freezing of soil water. Michel, F., et al, (1978, 43p., eng) 35-2537
Studies of the temperature-dependence of the brine content of sea ice by the pulse NMR method. Mel'nichenko, N.A., et al, (1981, 6p., eng) 35-2589
Acoustic fluctuations due to the temperature fine structure of the ocean. Unni, S., et al, (1981, p.676-680, eng) 35-2801
Factors affecting the ice nucleation temperature in water pipes. Gilpin, R.R., (1978, p.466-471, eng) 35-2945
Heat transfer in cold climates. Lunardini, V.J., (1981, 731p., eng) 35-3429
Convection in a porous layer for a temperature dependent viscosity. Blythe, P.A., et al, (1981, p.497-506, eng) 35-3519
What is the temperature change in pressure melting. Offenbacher, E.L., (1981, p.155-156, eng) 35-3672
Depolarization thermocurrents in ice Ih at low temperature. Pisis, P., et al, (1981, p.321-328, eng) 35-3690

Temperature gradients

Thermal regime of concrete pavements in cold regions. Ushakov, V.V., et al, (1977, p.60-64, rus) 35-74
Calculating vertical air temperature gradients in mountains. Blagoveshchenskii, V.P., (1979, p.83-87, rus) 35-190
Cohesion of snow at temperature gradients. Marbouty, D., et al, (1980, p.291-295, fre) 35-1371
Thermally actuated water migration in frozen soils. Williams, P.J., et al, (1980, 74p., eng) 35-2317
Compressive strain in a natural snow cover. Armstrong, R.L., (1980, p.283-289, eng) 35-2371
Experimental study of temperature-gradient metamorphism. Marbouty, D., (1980, p.303-312, eng) 35-2373
Topographic control of the polar front off southern Greenland. Sommerhoff, G., et al, (1979, p.63-69, ger) 35-2645
Diurnal air temperature variations in northern river basins. Sorokina, L.P., (1980, p.51-59, rus) 35-3416
Arctic Ocean temperature, salinity and density, March-May 1979. McPhee, M.G., (1981, 20p., eng) 35-3706
Growth of *Carex aquatilis* along latitudinal and local gradients. Chapin, F.S., III, et al, (1981, p.1000-1009, eng) 35-4316

Temperature inversions

Snow and cloud physics in Arctic Canada. Magono, C., et al, (1980, p.1656-1664, eng) 35-1414
Air pollution in Alaska. Benson, C.S., et al, (1980, p.210-215, eng) 35-1489
Heat transfer at the soil-air interface. IAkushevskaia, K.E., (1980, p.79-92, rus) 35-2441
Wintertime temperature inversion in Kootenay Lake, British Columbia. Wiegand, R.C., et al, (1981, p.2024-2034, eng) 35-3275

Temperature measurement

Drifting buoy measurements on Weddell Sea pack ice. Ackley, S.F., (1979, p.106-108, eng) 35-676
Development of a long-term temperature recorder. Akitaya, E., (1978, p.167-169, jap) 35-1552
Thermography control of heat insulation and tightness of buildings. Axen, B., et al, (1980, 214p., eng) 35-2004
Thermometer with a range of -50 to +50 C. Borovikov, A.A., et al, (1980, p.52-56, rus) 35-2639
Application of thermal resistor in measuring temperature of frozen soil. He, J., et al, (1980, p.20-23, chi) 35-2655
Tentative study of transistor direct numerical reading thermometer. Feng, J., et al, (1980, p.23-26, chi) 35-2656
Numerical tester in the study of frozen soils. Li, G., et al, (1980, p.26-28, chi) 35-2657
Analysis of property of temperature measuring crystal. Wang, L., et al, (1980, p.28-29, chi) 35-2658
Solar radiation and snow melting in winter in Shinjo area, Japan. Abe, O., et al, (1980, p.245-270, jap) 35-2891
Electrical methods of measuring low temperatures. Vepřek, J., (1980, 184p., cze) 35-3506
Methods and equipment for temperature measurements in subsea permafrost. Osterkamp, T.E., et al, (1981, 32p., eng) 35-3549
Conduction and the transfer function of cold wires at VLF. Lecordier, J.C., et al, (1981, p.103-114, fre) 35-3626

Temperature variations

Temperature fluctuations in the Central Arctic Basin. Bogorodskii, P.V., et al, (1980, p.101-104, rus) 35-378
Mean winter temperature anomalies over the U.S., 1895-1979. Diaz, H.F., (1980, 88p., eng) 35-707
Physical weathering in Taylor Valley. Miotke, F.-D., (1979, p.117-142, ger) 35-1310
Ice-shelf grounding: ice and bedrock temperature changes. MacAyeal, D.R., et al, (1980, p.397-400, eng) 35-1503
Satellite experiments on SHF earth radiation. Basharinov, A.E., et al, (1979, p.263-267, eng) 35-1690
Temperatures of north taiga soils. Krauklis, A.A., et al, (1980, p.61-70, rus) 35-1705
Ice formation in the active layer. Parmuzina, O.IU., (1980, p.131-152, eng) 35-1761
Frost fracturing processes. Tumel', N.V., (1979, p.26-49, rus) 35-1829
Sea ice, temperature variations, and atmospheric changes in the Bering Sea. Niebauer, H.J., (1980, p.7507-7515, eng) 35-1912
Equation predicts buried pipeline temperatures. King, G.G., (1981, p.65-66, 71-72, eng) 35-2467
Diurnal winter air temperature variations in Siberia. Sorokina, L.P., (1980, p.110-143, rus) 35-2489
Miocene stable isotope record. Woodruff, F., et al, (1981, p.665-668, eng) 35-3137
Steel production structure for the Alaskan Beaufort Sea. Boaz, I.B., et al, (1981, p.449-458, eng) 35-3452

Tensile properties

Review of techniques for measuring soil moisture *in situ*. McKim, H.L., et al, (1980, 17p., eng) 35-976
Determining tensile strength of ice. Kozitskii, I.E., (1980, p.78-87, rus) 35-1016
Steels for Arctic pipelines. Krishnadev, M.R., et al, (1979, p.1941-1944, eng) 35-1780
Freezing phenomena in soils. Miller, R.D., (1980, p.254-299, eng) 35-1781
Guide for operating cars and light trucks on a floating ice sheet. Johnson, P., (1980, 29p., eng) 35-2012
Tensile strain and fracture of snow. Watanabe, Z., (1980, p.255-262, eng) 35-2368
Mechanical behaviour and structure of snow under uniaxial tensile stress. Narita, H., (1980, p.275-282, eng) 35-2370
Asphalt concrete for cold regions. Dempsey, B.J., et al, (1980, 55p., eng) 35-2587
Laboratory and field use of soil tensiometers above and below 0 deg C. Ingersoll, J., (1981, 17p., eng) 35-3796

Terminology

Multilingual ice terminology. (1977, 40p., eng) 35-489
Cryogenic patterned microrelief. Chigir, V.G., (1979, p.66-101, rus) 35-1831
New terms: "dynamics" and "ecogenesis" of biogeocenoses. Smagin, V.N., (1980, p.201-205, rus) 35-2484
Plowing blocks. Gorbunov, A.P., (1980, p.160-167, rus) 35-3333
Changes in terminology of tundra vegetation. IUrtsev, B.A., et al, (1980, p.99-106, rus) 35-3459
Genetic-morphologic classification of cracks in ice covers. Borodachev, V.E., (1981, p.79-84, rus) 35-3950

Terraces

Periglacial phenomena in the Chaglinka River valley. Meshchikhin, D.A., (1979, p.131-140, rus) 35-195

Terrain identification

Measurements of radar backscatter from terrain and snow-covered terrain. Stiles, W.H., et al, (1980, 78p. + appends., eng) 35-892
Periglacial landforms and processes in the Kenai Mts., Alaska. Bailey, P.K., (1980, 159p., eng) 35-949
Permafrost. Engineering design and construction. Johnston, G.H., ed, (1981, 540p., eng) 35-3703

Tests

Oil in moving pack—laboratory study. Metge, M., et al, (1978, p.225-264, eng) 35-175

Thaw depth

Haul Road performance and associated investigations in Alaska. Berg, R.L., [1980, p.53-100, eng] **35-1770**

Crude oil spills on subarctic permafrost in interior Alaska. Johnson, L.A., et al, [1980, 67p., eng] **35-2001**

1977 tundra fire at Kokolik River, Alaska. Hall, D.K., et al, [1978, 11p., eng] **35-2591**

Ductless hot-water pipelines in the North. Sobolev, V.G., et al, [1981, p.126-129, rus] **35-2790**

Frost heave intensities and thaw depth in northern cities. Solov'ev, P.A., [1980, p.60-63, rus] **35-3316**

Forecasting ground sagging due to permafrost thawing. Trofimov, V.T., et al, [1981, p.101-112, rus] **35-3460**

Vegetation, substrate and topography in interior Alaska. Neiland, B.J., [1975, 6lp. + 3 appends., eng] **35-3[illegible]**

Experimental investigations of the elastic moduli of the s in a lateral till. Fedorovich, D.I., et al, [1981, p.29-31, eng] **35-4152**

Thawing

Methods of engineering-geological investigations of high slopes susceptible to cave-ins and landslides. Zolotarev, G.S., ed, [1980, 184p. + append., rus] **35-344**

Freezing on the undersurface of the Ross Ice Shelf, Antarctica. Zotikov, I.A., et al, [1979, p.1454-1457, rus] **35-437**

Thermal regime of ice cover during thaw. Klokov, V.D., [1980, p.23-28, rus] **35-2027**

Thawing of frozen water services. Currey, R., [1980, p.310-313, eng] **35-2125**

Strength and freeze thaw tests of concrete mixed with furnace slag. Malhotra, V.M., [1979, 260., eng] **35-2164**

Actosynoptic conditions starting thaws over Georgia. Kordzakhia, R.S., [1980, p.89-94, rus] **35-2989**

Vegetation and ice-wedge polygons through the thaw-lake cycle in N. Alaska. Billings, W.D., et al, [1980, p.413-432, eng] **35-3197**

Thawing rate

Ice formation in the active layer. Parmuzina, O.H., [1980, p.131-152, eng] **35-1761**

Theories

Geomorphology and neotectonics of mountain areas in the Far East. Sizikov, A.I., ed, [1977, 132p., rus] **35-57**

Cryosphere development and the formation of exogenic relief. Skryl'nik, G.P., [1977, p.15-20, rus] **35-58**

Thermal ice forces. Kjeldgaard, J.H., et al, [1980, p.1-33, eng] **35-508**

Working session of the Section of glaciology in February 1980. Glazovskii, A.F., [1980, p.13-20, rus] **35-1220**

General principles of the theory of permafrost development. Kudriavtsev, V.A., [1981, p.7-24, rus] **35-4066**

History of permafrost development in the USSR and methods of its study. Baulin, V.V., et al, [1981, p.24-40, rus] **35-4067**

Permafrost development in NE European USSR and W Siberia. Baulin, V.V., et al, [1981, p.41-60, rus] **35-4068**

Thermal analysis

Thermal and radar active layer measurement techniques. Pilon, J.A., et al, [1979, p.317-326, eng] **35-1047**

Thermal conductivity

Stefan problem on heat conductivity with phase transformations. Medvedskii, R.I., [1979, p.71-82, rus] **35-236**

Effect of a heat-conducting well casing on temperature distribution. Closmann, P.J., et al, [1979, p.20-27, eng] **35-1113**

Fibrous insulating materials at low temperatures. Bertasi, M., et al, [1978, p.30-49, eng] **35-1126**

Model for the prediction of ice lensing and frost heave in soils. Gilpin, R.R., [1980, p.918-930, eng] **35-1492**

Neumann solution applied to soil systems. Lunardini, V.J., [1980, 7p., eng] **35-1893**

Thermoactive forms for concrete construction in cold regions. Topchii, V.D., [1980, p.315-321, eng] **35-1984**

Time constraints on measuring building R-values. Flanders, S.N., [1980, 30p., eng] **35-1998**

Thermography control of heat insulation and tightness of buildings. Axén, B., et al, [1980, 214p., eng] **35-2004**

Moisture gain and its thermal consequence for common roof insulations. Tobiasson, W., et al, [1980, p.4-16, eng] **35-2053**

Determining the coefficient of nonstationary heat transfer. Shkurko, B.F., et al, [1981, p.46-47, rus] **35-2083**

Convection-controlled and conduction-controlled freezing. Sparrow, E.M., et al, [1981, p.7-12, eng] **35-2146**

Chilled gas pipeline: frost-heave design. Svec, O.J., [1981, p.705-718, eng] **35-2532**

Thermal diffusivity of frozen soil. Haynes, F.D., et al, [1980, 30p., eng] **35-2603**

Ablation in a vertical ice profile in Greenland. Ambach, W., [1979, p.55-62, ger] **35-2644**

Stefan-like problems in finite geometry. El-Genk, M.S., et al, [1979, p.69-80, eng] **35-3350**

Thermal performance of a phase-change material. Godfrey, R.D., et al, [1979, p.127-133, eng] **35-3356**

Sonde for measuring heat conductivity of thermal insulation. Vertel'nikova, O.A., [1979, p.111-117, rus] **35-4062**

Thermal regime of current-conducting deicing coating. Avrutov, E.A., [1981, p.90-101, eng] **35-4135**

Numerical method for the two-dimensional freezing problem around a horizontal cylinder encompassing a density inversion point. Saitoh, T., et al, [1981, p.147-152, eng] **35-4314**

Thermal diffusion

Effect of wind on heat transfer in snow. Reimer, A., [1980, p.129-137, eng] **35-727**

Neumann solution applied to soil systems. Lunardini, V.J., [1980, 7p., eng] **35-1893**

Thermal diffusivity of frozen soil. Haynes, F.D., et al, [1980, 30p., eng] **35-2603**

Stefan problem with mixed boundary condition. Gupta, R.S., et al, [1981, p.251-259, eng] **35-3270**

Ice thermal diffusion chamber for observing various nucleations. Tomlinson, E.M., [1980, 108p., eng] **35-3468**

Cylindrical phase change approximation with effective thermal diffusivity. Lunardini, V.J., [1981, p.147-154, eng] **35-3671**

Thermal drills

Drilling experiments with drilling fluids. Zagrivnyi, E.A., et al, [1980, p.119-123, rus] **35-2045**

Thermal effects

Thermal cracks in lake ice. Metge, M., [1976, 204p., eng] **35-275**

Properties of asphalt cements at different temperatures. Puzinauskas, V.P., [1979, p.646-710, eng] **35-334**

Thermal ice forces. Kjeldgaard, J.H., et al, [1980, p.1-33, eng] **35-508**

Polynya development in the Cape Thompson-Point Hope region, Alaska. Carleton, A.M., [1980, p.205-214, eng] **35-1662**

Erosion of northern sea shores. Archikov, E.I., et al, [1976, p.50-56, rus] **35-1852**

Thermally actuated water migration in frozen soils. Williams, P.J., et al, [1980, 74p., eng] **35-2317**

Solar radiation and snow melting in winter in Shinjo area, Japan. Abe, O., et al, [1980, p.245-270, jap] **35-2891**

Research on a model of thermal treatment of frozen ground. Chu, L., [1979, p.67-71, chi] **35-2905**

Frost heave mechanics. Konrad, J.M., [1980, 472p., eng] **35-3405**

Use of similitude in analyzing aircraft windshield anti-icing performance. Ross, R., [1980, p.830-832, eng] **35-3852**

Thermal expansion

Behavior of H2O and D2O at low temperatures. Stanley, H.E., et al, [1980, p.3404-3422, eng] **35-842**

New method and apparatus for testing air content of fresh concrete in situ. Nasser, K.W., et al, [1980, p.472-476, eng] **35-1493**

Thermal insulation

Polyurethane foam insulation for pipelines. Bulatov, G.A., [1980, p.37-38, rus] **35-100**

Mathematical modeling and experimental study of heat and mass transfer processes. Bondarev, E.A., ed, [1979, 136p., rus] **35-233**

Heat and mass transfer in cellular plastics. Nikitina, L.M., et al, [1979, p.106-109, rus] **35-240**

Foam plastic thermal insulation for walls. Timoshenko, A.T., [1979, p.114-119, rus] **35-242**

Designing inflatable structures for cold regions. Kozhevnikov, N.N., [1979, p.125-127, rus] **35-244**

External walls of buildings erected on permafrost. Zlatinskaia, T.V., [1980, p.20-22, rus] **35-460**

Rubber seal elasticity in freezing weather. Mar'inskii, M.M., et al, [1980, p.15, rus] **35-462**

Calculating optimal thermal insulation levels for buildings. Boguslavskii, L.D., et al, [1979, p.15-16, rus] **35-464**

Sand-concrete panels for building partitions. Isaenko, A.G., et al, [1980, p.19-21, rus] **35-502**

Thermal insulation for heat pipes. Zavertkin, I.A., [1980, p.26-29, rus] **35-595**

Modern methods of road construction. Smirnov, L.V., [1980, p.45-47, rus] **35-609**

Equipment for pipeline construction in freezing weather. Romanov, L.S., [1980, p.29-30, rus] **35-617**

Precast reinforced concrete foundations on freezing soil. Kuracheva, N.V., [1980, p.17, rus] **35-784**

Thermal insulation for hot oil lines. Frolov, K.D., et al, [1980, p.4-5, rus] **35-924**

Roads of Siberian oil fields. Bronitskii, E.I., et al, [1980, p.3-5, rus] **35-939**

Wooden structures for the North. Dmitriev, P.A., [1980, p.15-12, rus] **35-1086**

Tree bark in road pavement construction. Lukina, V.A., et al, [1980, p.124-127, rus] **35-1090**

Fibrous insulating materials at low temperatures. Bertasi, M., et al, [1978, p.30-49, eng] **35-1126**

Epoxy-foam thermal insulation and waterproofing of structures in areas of severe climatic conditions. Sakharov, V.I., [1980, 143p., rus] **35-1135**

Experience in fabricating plates with porous glass-concrete thermal insulation. Roisk, G.S., et al, [1980, p.22-26, rus] **35-1142**

Stability of mining excavations in permafrost. Sherstov, V.A., et al, [1980, 56p., rus] **35-1283**

Modular buildings for cold regions. Suslin, V.M., et al, [1980, p.30-31, rus] **35-1307**

Heat and ventilation for houses in north Russia. Liber, I.S., [1980, 191p., rus] **35-1576**

Plastic covers for preventing frost heave. Vorlov, S.A., [1979, p.75-84, rus] **35-1626**

Using lightweight concretes in cold regions. Rogatin, R.A., et al, [1980, p.37-38, rus] **35-1653**

Simple structure insulating material properties for multilayer insulation. Matsuda, A., et al, [1980, p.135-138, eng] **35-1782**

Subgrade cooling for stabilization of permafrost beneath structures. Barthelemy, J.L., [1980, p.235-261, eng] **35-1980**

Practical frost protection of buried pipes. Gundersen, P., [1980, p.7-22, nor] **35-1989**

Thermography control of heat insulation and tightness of buildings. Axen, B., et al, [1980, 214p., eng] **35-2004**

Air-to-air heat recovery devices for small buildings: Interim report. Zarling, J.P., [1981, 19p., eng] **35-2014**

Moisture gain and its thermal consequence for common roof insulations. Tobiasson, W., et al, [1980, p.4-16, eng] **35-2053**

Porous fiberglass insulation used in modular construction. Mordukhovich, I.M., et al, [1981, p.17-19, rus] **35-2079**

Construction machines designed for the North. Shpiller, E.D., et al, [1981, p.54-55, rus] **35-2091**

Pipeline construction in permafrost areas. Kantsidalov, E.P., [1981, p.29-30, rus] **35-2094**

Panel joint structures for cold regions. Cheremisov, K.M., et al, [1980, p.68-70, rus] **35-2102**

Programming design and construction of utilities in Greenland. Rosendahl, G.P., [1980, p.19-43, eng] **35-2109**

Insulated shallow buried pipe systems in the N.W.T., Canada. James, F.W., [1980, p.150-186, eng] **35-2116**

Pre-insulated high density polyethylene piping in cold regions. Whyman, A.D., [1980, p.187-220, eng] **35-2117**

Electric heat tracing and energy conservation for northern installations. Johnson, B.C., et al, [1980, p.288-309, eng] **35-2124**

New approaches to water and sewer services in permafrost area: Norman Wells, N.W.T. Irwin, W.W., [1980, p.507-542, eng] **35-2136**

Mineral insulation: a critical study. Winer, A.A., et al, [1980, 25p., eng] **35-2165**

Strength of materials and structural elements under extreme conditions: Vol II. Pisarenko, G.S., et al, [1980, 771p., rus] **35-2396**

Providing thermal stability for mobile houses. Kazantsev, I.A., [1980, p.18-19, rus] **35-2624**

Calculating thermal regime of basements containing technical equipment (discussion). Shapovalov, I.S., et al, [1980, p.19-21, rus] **35-2625**

Forecasting and controlling soil moisture in roadbeds. Korsunskii, M.B., et al, [1980, p.17-19, rus] **35-2637**

Modular construction in cold regions. Rubinshtein, A.B., [1981, p.24-25, rus] **35-2789**

Ductless hot-water pipelines in the North. Sobolev, V.G., et al, [1981, p.126-129, rus] **35-2790**

Thermal insulations and moisture retarders in buildings. Teitsma, G.J., [1981, p.32, eng] **35-2791**

Building envelope performance testing. Harrje, D.T., [1981, p.39-41, eng] **35-2802**

Prefabricated dismountable buildings in permafrost areas. Bardyshev, O.A., et al, [1981, p.17-19, rus] **35-2844**

From nomadic to mobile architecture. Maidar, D., et al, [1980, 215p. (Pertinent p.174-213), rus] **35-2864**

Multi-story stone buildings in the North. Kalinin, M.S., et al, [1980, 153p., rus] **35-2882**

Human settlements in the Arctic. [1980, 125p., eng] **35-2927**

Passive solar heating in Alaska. Final report. Zarling, J.P., [1980, 17p., eng] **35-3077**

Thermal regime of open pumps in the North. Kirillov, S.A., et al, [1981, p.7-10, rus] **35-3340**

Simulation of a hot pipeline buried in permafrost. Hayes, L.J., [1978, 8p., eng] **35-3782**

Passive solar design elements for the Subarctic. Zarling, J., [1980, p.11-16, eng] **35-3857**

Thermal and hydraulic design of pipelines for oil and petroleum products. Agapkin, V.M., et al, [1981, 256p., rus] **35-3931**

Economic effectiveness of optimizing the amount of thermal insulation of buildings. Boguslavskii, L.D., [1981, 102p., rus] **35-3965**

Detection of thermal insulation defects in buildings by infrared thermography. Venuti, G., [1980, p.1025-1032, eng] **35-3987**

Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, F.V., ed, [1979, 133p., rus] **35-4055**

Thermal and physical properties of cellular concrete enclosures. Tachkova, N.A., et al, [1979, p.72-76, rus] **35-4058**

Two layer panels for buildings. Shcherbakov, A.V., et al, [1979, p.81-87, rus] **35-4060**

Sonde for measuring heat conductivity of thermal insulation. Vertel'nikova, O.A., [1979, p.111-117, rus] **35-4062**

Measuring heat flux through enclosures. Gerashchenko, O.A., et al, [1979, p.127-131, rus] **35-4064**

Thermal properties

Thermal properties of liquid D2O at low temperatures and high pressures. Kanno, H., et al, [1980, p.1940-1947, eng] **35-441**

Seasonal thermal storage in aquifer for utilization. Yokoyama, T., et al, [1980, p.1646-1654, eng] **35-1964**

Thermal behavior in a concrete structure in interior Alaska. Anderson, F.A., [1980, p.279-290, eng] **35-1982**

[illegible] [1980, p.7-22, nor] **35-1989**

Time constraints on measuring building R-values. Flanders, S.N., [1980, 30p., eng] **35-1998**

Calculating properties of frozen ground. Gavril'ev, R.I., [1981, p.22-36, rus] **35-3282**

Thermal radiation

Several properties of the radio emission of land surfaces. Gurvich, A.S., [1973, 29p., eng] **35-1895**

Temperature of antarctic icebergs and the surrounding water. Foldvik, A., et al, [1980, p.19-22, eng] **35-2199**

Thermal regime

[illegible] p.52-55, rus] **35-8**

Thermal regime of concrete pavements in cold regions. Ushakov, V.V., et al, [1977, p.60-64, rus] **35-74**

[illegible] E.V., [1979, p.105-112, rus] **35-192**

Mining techniques in the North. Avksent'ev, I.V., et al, [1979, p.106-108, rus] **35-200**

Mathematical modeling and experimental study of heat and mass transfer processes. Bondarev, E.A., ed, [1979, 136p., rus] **35-233**

Temperature regime of an underground pipeline. Krasovitskii, B.A., [1979, p.16-37, rus] **35-234**

Heat and mass transfer in cellular plastics. Nikitina, L.M., et al, [1979, p.106-109, rus] **35-240**

Steam permeability of concretes and bricks. Shamaeva, A.P., et al, [1979, p.110-113, rus] **35-241**

Designing inflatable structures for cold regions. Kozhevnikov, N.N., [1979, p.125-127, rus] **35-244**

Ground frost penetration and surface temperature. Fukuda, M., et al, [1980, p.71-80, jap] **35-272**

Consequences for Iceland and Europe of the Arctic cooling trend. Schunke, E., [1979, p.282-291, eng] **35-357**

Thermal fields during regelation. Philip, J.R., [1980, p.193-203, eng] **35-735**

Computation of rate of heave versus load under quasi-steady state. Miller, R.D., et al, [1980, p.243-251, eng] **35-741**

Climatic peculiarities of the Baykal Amur railroad zone. Galazii, G.I., ed, [1979, 144p., rus] **35-813**

Paraffin effect on hot oil line temperature. Zhazykov, K.T., et al, [1980, p.5-8, rus] **35-925**

Oil temperature in hot lines after shutdown. Degtiarev, V.N., [1980, p.9-11, rus] **35-927**

Thermal vertical supports for the trans-Alaska pipeline. Pearson, S.W., [1979, p.225-231, eng] **35-1109**

Stability of mining excavations in permafrost. Sherstov, V.A., et al, [1980, 56p., rus] **35-1283**

Snow accumulation and melting at different altitudes of Mt. Teine, Hokkaido. Suizu, S., et al, [1978, p.47-54, jap] **35-1539**

Reservoir effect on heat regime of rivers. Odrova, T.V., [1980, p.90-93, rus] **35-1611**

Embankment dams on permafrost in the USSR. Johnson, T.C., et al, [1980, 59p., eng] **35-2005**

Dynamics of temperature field of the dam of the Vilyuy hydroelectric power plant. Olovin, B.A., et al, [1980, 48p., rus] **35-2049**

Thermal conductivity of frozen of thawed concretes. Sobol', S.V., [1980, p.109-111, rus] **35-2104**

Thermal effluents in Boundary Reservoir during winter. Kennedy, B.C., [1978, p.97-110, eng] **35-2237**

Hydrothermal regimes of cryogenic soils. Kulikov, A.I., et al, [1980, p.76-78, rus] **35-2277**

Thermal regime and chemical processes in tundra soils. Antonov, N.A., et al, [1980, p.117-118, rus] **35-2293**

Controlling hydrothermal regime of cryogenic soils. Konstantinov, V.D., et al, [1980, p.122-124, rus] **35-2294**

Hydrothermal regimes of mountain taiga soils. Khudiakov, O.I., [1980, p.177-178, rus] **35-2311**

Dynamics of thermal processes. Shvets, I.T., ed, [1980, 180p., rus] **35-2334**

Thermotechnical design of pipelines. Koshelev, A.A., et al, [1980, p.20-26, rus] **35-2335**

Thermal regime of permafrost in Yakutia. Zaitsev, V.N., [1975, p.99-104, eng] **35-2403**

Measuring building R-values for large areas. Flanders, S.N., et al, [1981, p.137-138, eng] **35-2463**

Thermal regime of taiga soils. Linevich, N.L., [1980, p.183-195, rus] **35-2491**

Shallow foundations in continuous permafrost. Phukan, A., [1981, p.664-677, eng] **35-2529**

Winter thermal structure, ice conditions and climate of Lake Champlain. Bates, R.E., [1980, 26p., eng] **35-2585**

Calculating thermal regime of basements containing technical equipment (discussion). Shapovalov, I.S., et al, [1980, p.19-21, rus] **35-2625**

Thermal insulations and moisture retarders in buildings. Teitsma, G.J., [1981, p.32, eng] **35-2791**

Calculation and control of cryogenic regime of soil. Pavlov, A.V., [1980, 240p., rus] **35-2947**

Forecasting river diversion effect on thermal regime of the bay. Spitsyn, I.P., et al, [1980, p.84-86, rus] **35-3118**

Subsea permafrost: probing, thermal regime and data analysis. Osterkamp, T.E., et al, [1981, p.497-677, eng] **35-3267**

[illegible] I.E., [1980, p.114-128, rus] **35-3420**

Results of studying thermal balance of landscapes under northern conditions. Pavlov, A.V., [1980, p.104-112, rus] **35-3478**

Surface meteorological processes in the Antarctic. Helbig, A., [1979, p.111-122, ger] **35-3488**

Temperatures within subglacial debris - a gap in our knowledge. Menzies, J., [1981, p.271-273, eng] **35-3606**

Some approaches to modeling phase change in freezing soils. Hromadka, T.V., II, et al, [1981, p.137-145, eng] **35-3670**

[illegible] **35-3747**

Farmers loop sinkhole. Sweet, L., et al, [1980, p.6-10, eng] **35-3856**

[illegible] cooling towers. Cooper, J.W., Jr., [1980, p.47-53, eng] **35-3862**

Thermal and hydraulic design of pipelines for oil and petroleum products. Agapkin, V.M., et al, [1981, 256p., rus] **35-3931**

Soil and permafrost surveys in the Arctic. Linell, K.A., et al, [1981, 279p., eng] **35-4128**

Thermal stresses

Thermal analysis of thick concrete sections. Thurston, S.J., et al, [1980, p.347-357, eng] **35-824**

Strength of materials and structural elements under extreme conditions. Vol.I. Pisarenko, G.S., et al, [1980, 536p., rus] **35-1490**

Low temperature study of airplanes. Alley, B.J., Jr., [1980, p.77-90, eng] **35-1585**

Strength of materials and structural elements under extreme conditions. Vol. II. Pisarenko, G.S., et al, [1980, 771p., rus] **35-2396**

Cranes used in arch dam construction in the North. Kuperman, V.L., et al, [1981, p.12-15, rus] **35-4281**

Thermistors

Conditions under Ross Ice Shelf, winter 1979. Kvinge, T., et al, [1979, p.61-63, eng] **35-650**

Measuring ground temperature of permafrost with thermistor. Cheng, G., [1980, p.66-68, chi] **35-2923**

Thermocouples

Use of similitude in analyzing aircraft windshield anti-icing performance. Ross, R., [1980, p.830-832, eng] **35-3852**

Thermodynamics

Thermodynamical study of the Martian permafrost. Coradini, M., et al, [1979, p.8115-8130, eng] **35-1103**

Energy interaction between reservoirs and the atmosphere. Panin, G.N., et al, [1980, p.151-173, rus] **35-1496**

New approach to the morphological stability of the Stefan problem. Lièvre, C., et al, [1980, p.119-133, eng] **35-1497**

Planar freeze front during solidification of an aqueous solution. O'Callaghan, M.G., et al, [1980, p.673-677, eng] **35-1678**

Weathering in glacial, temperate and tropical climatic zones. Brunsden, D., [1979, p.73-129, eng] **35-1686**

On the theory of frost heave. Förland, T., et al, [1980, p.45-48, eng] **35-1993**

Statistical models of snow strength. Sommerfeld, R.A., [1980, p.217-223, eng] **35-2364**

Thermodynamics of snow metamorphism due to variations in curvature. Colbeck, S.C., [1980, p.291-301, eng] **35-2372**

Mathematic-thermodynamic analysis of the anomalies of water. Trincher, K., [1981, p.433-448, eng] **35-2460**

Equation predicts buried pipeline temperatures. King, G.G., [1981, p.65-66, 71-72, eng] **35-2467**

Analysis of water in the Martian regolith. Anderson, D.M., et al, [1979, p.33-38, eng] **35-2756**

Responses of ice sheets to environmental changes. Young, N.W., [1981, p.331-360, eng] **35-3038**

Modeling a variable thickness sea ice cover. Hibler, W.D., III, [1980, p.1943-1973, eng] **35-3514**

Introduction to the basic thermodynamics of cold capillary systems. Colbeck, S.C., [1981, 9p., eng] **35-3712**

Eastern Bering Sea ice dynamics and thermodynamics. Pease, C.H., [1980, p.213-222, eng] **35-4141**

Mathematical models on ecological systems. Tiwari, J.L., [1979, p.167-193, eng] **35-4234**

Thermokarst

Conference on climate, relief and human activities. [1978, 155p., rus] **35-11**

Problems of the relations between climatic zones and exogenic relief formation. Aseev, A.A., et al, [1978, p.9-21, rus] **35-12**

Badland topography in the Arctic. Korzhuev, S.S., [1978, p.95-96, rus] **35-15**

Cryogenic processes in the Baykal Amur railroad area. Lekhatinov, A.M., [1978, p.99-101, rus] **35-16**

Thermokarst processes in construction areas. Viatkina, L.IU., et al, [1978, p.103-104, rus] **35-18**

Development of cryogenic relief in Pamirs and Tien Shan. Ermolin, E.D., [1979, p.88-105, rus] **35-191**

Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979. Abstracts of the papers. [1979, 211p., rus] **35-245**

[illegible] geology of the area. Odintsov, M.M., ed, [1979, 157p., rus] **35-278**

Vegetation of the lower Kolyma tundra. Andreev, V.N., et al, [1980, p.5-43, rus] **35-283**

Formation of ground water balance in the USSR. Lebedev, A.V., [1980, 287p., rus] **35-345**

Geocryological conditions of formation of Upper Pleistocene and Holocene deposits in the northern eastern USSR. Novoseletskii, R.N., ed, [1976, 88p., rus] **35-1143**

Ice bearing loess in the Yana-Omoloy Interfluve. Tomirdiaro, S.V., et al, [1976, p.3-11, rus] **35-1144**

Surface glaciation and permafrost of West Siberia. Kaplianskaia, F.A., et al, [1978, p.18-28, rus] **35-1421**

Wedge-shaped deformations in alassy complexes. Velikotskii, M.A., [1979, p.172-182, rus] **35-1838**

[illegible] G.P., [1976, p.20-43, rus] **35-1851**

Segregated ice, frost heave and thermokarst in permafrost. Pissart, A., [1975, p.89-96, fre] **35-1994**

Preventing thermokarst processes in road construction areas. Merenkov, N.D., [1981, p.3-4, rus] **35-2075**

Cryogenic soils of Lake Baykal area. Parshikov, V.P., [1980, p.18-20, rus] **35-2258**

Composition and properties of Upper Pleistocene deposits of the Yana-Indigirka coastal lowland. Trush, N.I., et al, [1975, p.59-69, eng] **35-2401**

Construction effect on cryogenic soils. Garagulia, L.S., et al, [1975, p.70-80, eng] **35-2402**

Thermokarst in Arctic regions of the USSR and abroad. Belorusova, Zh.M., [1972, p.41-43, rus] **35-2424**

Correlation of perennially frozen rocks. Kaplina, T.N., et al, [1980, p.74-81, rus] **35-2454**

Glaciological and geocryological field studies on King George Island during the 25th Soviet antarctic Expedition. Vtiurin, B.I., [1980, p.30, rus] **35-2811**

Drainage methods in permafrost areas. Stepanov, A.N., [1980, p.247-250, rus] **35-3059**

Morphology, erosion and barrier islands of the Beaufort Sea coast, Alaska. Hopkins, D.M., et al, [1981, p.178-186, eng] **35-3259**

Permafrost investigations in economically developing areas of the USSR. Pavlov, A.V., ed, [1980, 183p., rus] **35-3305**

Thermal denudation relief forms in northern Yakutia. Fartyshev, A.I., [1980, p.128-132, rus] **35-3327**

Thermodelapsing formations - deposits of young thermokarst basins. Ivanov, M.S., [1980, p.132-140, rus] **35-3328**

Ridge-and-valley topography in permafrost areas. Belopukhova, E.B., et al, [1980, p.95-101, rus] **35-3471**

Origin of hillocky terrain in permafrost areas. Tarakanov, A.G., [1981, p.48-52, rus] **35-3482**

Permafrost. Engineering design and construction. Johnston, G.H., ed, [1981, 540p., eng] **35-3703**

Recent processes which formed the present surface of the Yana-Indigirka Plain. Egorova, G.N., [1976, p.55-65, rus] **35-3830**

Yamal Peninsula. Danilova, N.S., et al, [1981, p.84-91, rus] **35-4072**

Permafrost of the Sibirskiye Uvaly swamps. Shamanova, I.I., [1981, p.97-101, rus] **35-4074**

Cryogenic processes related to changes in paleogeographic conditions. Gravis, G.F., [1981, p.102-113, rus] **35-4075**

Thermokarst development

Sub-surface processes related to ground water and ice. Embleton, C., et al, [1979, p.187-212, eng] **35-1687**

Thermokarst lakes

Vegetation and soils of subarctic tundra. Andreev, V.N., ed, [1980, 209p., rus] **35-282**

Algae in thermokarst lakes. Vasil'eva, I.I., et al, [1980, p.92-104, rus] **35-288**

Types of tundra soils. Elovskaia, L.G., et al, [1980, p.158-194, rus] **35-292**

Soils and vegetation of alassy. Desiatkin, R.V., [1980, p.72-79, rus] **35-1568**

Measuring evaporation from thermokarst lakes. Skachkov, IU.B., et al, [1980, p.36-38, rus] **35-3311**

Thermal regime of a thermokarst lake bottom. Tishin, M.I., [1980, p.40-47, rus] **35-3313**

Natural resources of the northeastern USSR. Lozhkin, A.V., ed, [1976, 152p. rus] **35-3825**

Thermokarst lakes in the Anadyr lowlands. Riabchun, V.K., [1976, p.66-72, rus] **35-3831**

Water seepage from Lake Syrdakh. Tishin, M.I., [1980, p.90-97, rus] **35-3998**

Thermopiles

Artificial cooling of permafrost bases. Makarov, V.I., [1980, p.37-41, rus] **35-596**

Soil temperature decrease beneath thermopile foundations. Gorelik, IA.B., et al, [1980, p.19-20, rus] **35-2781**

Thixotropic sleeves
Instructions for designing caissons lowered in thixotropic sleeves. [1976, 39p., rus] **35-1713**

Thixotropy
Seismotectonics and seismicity of the Baykal Amur railroad construction area. Odintsov, M.M., ed. [1980, 204p., rus] **35-137**
Railroad construction in seismic permafrost areas. Pavlov, O.V., et al. [1980, p.164-173, rus] **35-140**
Seismic stability of frozen fines. Zarubin, N.E., et al. [1980, p.173-178, rus] **35-141**
Roadbeds on moist fines. Knizhnik, G.B., et al. [1980, p.4-5, rus] **35-599**
Environmental protection in tundra. Tiverovskii, R.A., et al. [1979, p.512-520, eng] **35-961**
Economic development of tundra soils. Konorovskii, V.K. [1980, p.17-18, rus] **35-2257**
Origin of loams in Vorkuta tundra. Archegova, I.B., [1980, p.37-39, rus] **35-2265**
Thixotropic stabilization of clays. Kozhobaev, K.A., [1976, p.92-94, eng] **35-2407**
Seismic stability of hydraulic earth structures. Krasnikov, N.D., [1981, 240p., rus] **35-2689**
Thixotropic nongleyed cryogenic soils. Sokolov, I.A., [1980, p.41-55, eng] **35-2763**
Screw pile foundations for drilling rigs. Kolomeitsev, V.T., et al. [1921, p.14-15, rus] **35-4286**
Calculating foundations on saturated bases for dynamic loads. Krasnikov, N.D., et al. [1981, p.7-21, rus] **35-4288**

Thunderstorms
Studying thunderstorms along buried communication cables in permafrost areas with lightning flash counters. Par'ev, N.S., et al. [1976, p.26-31, rus] **35-1190**
Seeding of thunderclouds. Zimin, B.I., [1980, p.30-36, rus] **35-2694**

Tidal currents
Oceanographic conditions in the Okhotsk Sea coast of Hokkaido, winter. Aota, M., et al. [1978, p.93-105, jap] **35-1545**

Tides
Tidal flexure of Jakobshavns Glacier, West Greenland. Lingle, C.S., et al. [1981, p.3960-3968, eng] **35-3909**

Timber
Rock pressure in main and preparatory shafts. Shirokov, A.P., ed. [1977, 170p., rus] **35-68**
Timber for mines in permafrost areas. Plesnivtsev, V.V., et al. [1977, p.125-127, rus] **35-69**

Timbering
Timbering, maintenance and preservation of mining excavations. Gritsko, G.I., ed. [1979, 114p., rus] **35-196**
Timbering used in mines of permafrost areas. Plesnivtsev, V.V., [1979, p.64-67, rus] **35-198**
Mining excavations in permafrost areas. Avksent'ev, I.V., et al. [1979, p.105-106, rus] **35-199**

Time factor
Solutions and use of chronofunctions in studying soil development. Boekheim, J.G., [1980, p.71-85, eng] **35-220**
Freezeout of nutrients from lake ice. Jones, R., et al. [1980, p.193-195, eng] **35-3161**

Tires
Use of slag in bituminous pavements. Koivuniemi, M., [1979, 71p., figs., fin] **35-2058**

Topographic effects
Weddell Sea ice moving into mid-latitude westerlies. Schwerdtfeger, W., [1979, p.108-109, eng] **35-677**
Mudflows in relation to climate and topography, Canadian Rocky Mts. Owens, I.F., [1974, p.313-318, eng] **35-1949**
Wastage features of the inland ice sheet in central South Norway. Games, K., et al. [1980, p.251-269, eng] **35-2140**
Problems of moraine morphology. Rogen moraine and Blattmick moraine. Markgren, M., et al. [1980, p.271-274, eng] **35-2141**
Bedrock material in moraine forms in northern Sweden. Minell, H., [1980, p.275-281, eng] **35-2142**
Rapid-sequence stereophotogrammetry of avalanches. [1980, 4p., fre] **35-2337**
Symposium on snow in motion. [1980, 527p., eng] **35-2342**
Vegetation and forest dynamics of the upper Dietrich River Valley, Alaska. Densmore, D., [1980, p.183p., eng] **35-2408**
Frozen rocks in the southern Krasnoyarsk area. Shats, M.M., [1980, p.120-124, rus] **35-3325**
Paleocryogenic structure of deposits in the Baykal Mountains. Bosikov, N.P., et al. [1980, p.153-156, rus] **35-3331**
Distribution of snowcover. McKay, G.A., et al. [1981, p.153-190, eng] **35-3750**
General principles of the theory of permafrost development. Kudriavtsev, V.A., [1981, p.7-24, rus] **35-4066**
Topoclimatic factors and development of rock glacier facies. Morris, S.E., [1981, p.329-338, eng] **35-4264**

Topographic features
Conference on climate, relief and human activities. [1978, 155p., rus] **35-11**
Cryogenic processes in Transbaikal steppes. Bazhenova, O.I., [1978, p.106-108, rus] **35-20**
Nivation and nival niches. Vyrkin, V.B., [1978, p.152-154, rus] **35-21**
Development of bald mountain landscapes. Nikonova, R.I., et al. [1978, p.154-155, rus] **35-22**
Quaternary geology of the Narssaq area, South Greenland. Funder, S., [1979, 24p., eng] **35-110**
Development of cryogenic relief in Pamirs and Tien Shan. Ermolin, E.D., [1979, p.88-105, rus] **35-191**
Sea ice thickness in relation to pressure ridge heights and depths. Wadhams, P., [1980, p.53-75, eng] **35-548**
Quaternary geology and geomorphology of Harding Lake. Yokoyama, T., et al. [1980, p.45-53, eng] **35-1562**
Weathering in glacial, temperate and tropical climatic zones. Brunsden, D., [1979, p.73-129, eng] **35-1686**
Cryogenic landscapes of Mars. Kuz'min, R.O., [1979, p.50-65, rus] **35-1830**
Formation processes on snow patches in the Icelandic highlands. Schunke, E., [1974, p.274-286, ger] **35-1946**
Numerical reconstruction of paleo-ice sheets. Hughes, T.J., [1981, p.221-261, eng] **35-2067**
Avalanche activity in Iceland, climatic conditions, and terrain features. Björnsson, H., [1980, p.13-23, eng] **35-2343**
Research on prevention of snow-drifts by blower fences. Zhonglong, W., et al. [1980, p.435-445, eng] **35-2384**
Tundra vegetation in relation to microtopography near Atkasook, Alaska. Peterson, K.M., et al. [1980, p.473-482, eng] **35-3200**
Relief of the marginal zone of the Torell Glacier, Spitsbergen. Karczewski, A., et al. [1977, p.37-62, eng] **35-3621**
Ice-scored topography and glacier movement, N Scotland and W Greenland. Gordon, J.E., [1981, p.55-65, eng] **35-4020**

Topographic maps
Topographic map of the Lake Saysar Basin in Yakutsk. Solov'ev, P.A., [1980, p.127-134, rus] **35-2194**

Topographic surveys
U.S. Geological Survey in Alaska; 1980 programs. Reed, K.M., ed. [1980, 112p., eng] **35-131**
Mountain glaciers from SEASAT radar images. Ford, J.P., [1981, p.864-869, eng] **35-3586**
Satellite laser altimeter for measurement of ice sheet topography. Bufton, J.L., et al. [1981, p.1003-1011, eng] **35-3592**

Topography
Problems of the relations between climatic zones and exogenic relief formation. Asecv, A.A., et al. [1978, p.9-21, rus] **35-12**
Cryosphere development and the formation of exogenic relief. Skryl'nik, G.P., [1977, p.15-20, rus] **35-58**
Formation of rock streams in the Far East. Skryl'nik, G.P., [1977, p.86-88, rus] **35-59**
Drumlins and large-scale flutings related to glacier folds. Shaw, J., [1980, p.287-298, eng] **35-1666**
Climate and topography of Wrangel Island. Skryl'nik, G.P., [1976, p.20-43, rus] **35-1851**
Subglacial topography of the Vavilov Ice Dome. Bogorodskii, V.V., et al. [1980, p.192-194, rus] **35-2830**
Thermal denudation relief forms in northern Yakutia. Fartyshev, A.I., [1980, p.128-132, rus] **35-3327**

Towers
Foundation performance of a steel tower silo at Richmond, Ontario. Scott, J.D., et al. [1980, p.85-89, eng] **35-277**
Computing ice loads on television towers. Degtiarev, A.D., [1980, p.57-62, rus] **35-2985**

Trace elements
Trace elements in snow and ice of west Qiongtailan Glacier, China. Wang, P., et al. [1980, p.77-79, chi] **35-2677**

Tracked vehicles
On drawbar pull of tracked oversnow vehicle. Muro, T., et al. [1980, p.101-108, jap] **35-269**
Oversnow trafficability of tracked vehicles. Muro, T., et al. [1980, p.93-100, jap] **35-273**
Environmental impact of tracked vehicles in tundra. Sparrow, S.D., et al. [1978, p.20-27, eng] **35-1162**
Proceedings, Vol.I. [1980, 516p., eng] **35-1583**
Terrain-vehicle model for analysis of steerability of tracked vehicles. Baladi, G.Y., et al. [1980, p.135-149, eng] **35-1586**

Traction
On drawbar pull of tracked oversnow vehicle. Muro, T., et al. [1980, p.101-108, jap] **35-269**

Tractors
On drawbar pull of tracked oversnow vehicle. Muro, T., et al. [1980, p.101-108, jap] **35-269**
T-74 excavators for frozen ground. Pervil, A.S., et al. [1979, p.24-25, rus] **35-353**

Trafficability
Oversnow trafficability of tracked vehicles. Muro, T., et al. [1980, p.93-100, jap] **35-273**
Terrain-vehicle model for analysis of steerability of tracked vehicles. Baladi, G.Y., et al. [1980, p.135-149, eng] **35-1586**
Rational seasonal load restrictions and overload permits. Connor, B., [1980, 52p., eng] **35-1681**
Arctic ice trafficability, Arctic Islands area. Hammond, C.W., [1972, 10p., eng] **35-1847**
Arctic ice trafficability, Beaufort Sea area. Hammond, C.W., [1972, 9p., eng] **35-1958**
Travel over snow. Adam, K.M., [1981, p.521-561, eng] **35-3757**

Trailers
Providing thermal stability for mobile houses. Kazantsev, I.A., [1980, p.18-19, rus] **35-2624**
From nomadic to mobile architecture. Maidar, D., et al. [1980, 215p. (Pertinent p.174-213), rus] **35-2864**

Transformations
Modeling nitrogen transport and transformations in soils 2. Validation. Iskandar, I.K., et al. [1981, p.303-312, eng] **35-4080**
Modeling N transport and transformations in soils. Selim, H.M., et al. [1981, p.233-241, eng] **35-4081**

Transmission
Radiative properties of snow for clear sky solar radiation. Choudhury, B., [1981, p.103-120, eng] **35-3667**

Transmission lines
Influence of electro-freezing on power line icing. Phan, C.L., et al. [1981, p.15-25, eng] **35-2415**
Single wire ground return transmission for rural Alaska. Bettine, F.J., et al. [1981, p.409-424, eng] **35-2515**
Construction and operation of electrical installations in permafrost regions. Korzh, N.A., [1981, p.74-76, rus] **35-3484**
Power supply to the Baykal Amur railroad. Petrov, N.K., [1981, p.2-5, rus] **35-4226**
Transmission line supports for swamps. IAkunin, I.I., et al. [1981, p.44-47, rus] **35-4232**

Transpiration
Transpiration of taiga vegetation. Antipov, A.N., et al. [1980, p.115-124, rus] **35-3474**
Microclimate and transpiration of taiga soils. Grishina, L.A., et al. [1979, p.70-85, rus] **35-4120**

Transportation
Use of helicopters in transporting prefabrication components. Chernitskii, A.V., [1980, p.26-27, rus] **35-2**
Mine shaft excavation in permafrost areas. Shchukin, V.P., et al. [1980, p.143-145, rus] **35-304**
Transportation of asphalt-concrete mixtures at subzero temperatures. Chaika, A.T., [1980, p.107-110, rus] **35-309**
Modular construction in Permafrost areas. L'vov, B.L., [1980, p.5-9, rus] **35-445**
Construction cost in permafrost areas. Purtov, P.G., et al. [1980, p.17-20, rus] **35-450**
Thermal regime of hot oil lines. Degtiarev, V.N., et al. [1979, p.5-8, rus] **35-492**
Starting hot oil lines. Tonkoshkurov, B.A., et al. [1980, p.5-8, rus] **35-493**
Low temperature performance of belt conveyors. Volotkovskii, V.S., [1980, p.14-17, rus] **35-541**
Cargo freezing prevention and defrosting techniques. IAlokha-Kokh, Kh., [1980, p.23-26, rus] **35-542**
Container transportation of chemicals to the North. Egorov, V.F., et al. [1980, p.13, rus] **35-543**
Problems of the North; a current bibliography. [1980, 3 volumes, rus] **35-858**
Problems of the North; a current bibliography. [1980, 198p., rus] **35-859**
Transportation development problems and prospects. Economic development of Siberia and the Far East. Pavlovskii, I.G., [1980, 125p., rus] **35-864**
Extending river navigation periods in the North. Protasov, G., [1980, p.5-6, rus] **35-903**
Extending ice navigation on rivers. Ovchinnikov, E., [1980, p.6-7, rus] **35-904**
River transport in the North. Zhivotkevich, N., [1980, p.7-9, rus] **35-905**
Open-pit mining in winter. Krasnosel'skii, E.B., [1980, p.264-268, rus] **35-1256**
1980-81 ANARE report. [1980, 62p., eng] **35-1400**
Dirigibles for pipeline repairs in northern swamps. Kulikov, V.D., [1980, p.44-47, rus] **35-1608**
Alaska gas line project continues to advance. [1981, p.41, eng] **35-2466**
Lightering with air cushion vehicles in Alaska. Thomas, B.C., [1981, p.249-263, eng] **35-2507**
New principle of helicopter design for tundra. Cherskii, N., [1981, p.26-28, rus] **35-2765**
Helicopter transportation of construction materials in the North. Nabutovskii, V.I., [1981, p.13-14, rus] **35-2774**
Jet-propelling pipe strings across Siberian swamps. Kagan, IA.M., et al. [1981, p.15-16, rus] **35-2775**
Photographs of Siberian construction sites. [1981, p.13, rus] **35-2787**
Snow scooter and cross country vehicle as farmers' wood transport vehicles. Halttunen, J., et al. [1981, p.28-30, fin] **35-2798**
Historical Mu-chia-erh-te Glacier valley and east-west communication. Shih, Y., et al. [1979, p.22-26, chi] **35-2898**
Preparation of gas from northern fields for distant transportation. Gukhman, L.M., [1980, 161p., rus] **35-2949**
River transport of the Baykal Amur railroad area. Degtiarev, V.V., et al. [1980, 89p., rus] **35-2966**

Environmental protection of the lower Ob' river area. Greshnova, E.V., [1980, p.136-137, rus] 35-3134
Developing means of transporting super-blocks. Rozhkov, S.V., et al, [1981, p.11-12, rus] 35-3342
Improving the system of cargo transportation on winter roads. Dmitrievskii, V.A., [1981, p.15, rus] 35-3344
Pipe transportation by the Northern Sea Route. Agapkin, V.M., et al, [1981, p.16-17, rus] 35-3345
Environmental protection in areas of main pipeline construction and operation. Borodavkin, P.P., et al, [1981, 160p., rus] 35-3566
Southcentral region of Alaska deep-draft navigation study. [1981, c140p. + 10 appends., eng] 35-3674
Automobiles designed for the Far North. Anopchenko, V., [1981, p.16, rus] 35-3800
Timan-Pechora regional industrial complex. Podoplelov, V.P., ed, [1979, 144p., rus] 35-4104
Cost of different means of transportation. Kuratova, E.S., [1979, p.95-102, rus] 35-4106
Pneumatic tube performance in northern mines. Alekseev, P.E., et al, [1978, p.72-80, rus] 35-4114
Recommendations for pipeline construction in permafrost areas. [1981, p.36-38, rus] 35-4243
Economic development of the North. Gromov, N.N., et al, [1981, p.25-30, rus] 35-4287

Trees (plants)

Forest line vegetation of tundra. Dem'ianov, V.A., [1980, p.926-937, rus] 35-396
Forest-floor nitrogen dynamics in a birch ecosystem, Alaska. Van Cleve, K., et al, [1980, p.359-381, eng] 35-988
Growth forms of spruce and subalpine fir at tree line. Grant, M.C., et al, [1977, p.259-263, eng] 35-1905
Theories and methods of plant introduction and landscaping. Proceedings of a republican conference, Kiev, 1978. Grodzinskii, A.M., ed, [1980, 220p., rus] 35-2444
Introduced trees in recreation areas of Novosibirsk. Taran, I.V., [1980, p.174-176, rus] 35-2446
Biomass of green-moss-type taiga. Nadutkin, V.D., et al, [1971, p.50-51, rus] 35-2608
Introduced plant adaptation in the North. Shtan'ko, A.V., ed, [1977, 176p., rus] 35-2690
Maple trees introduced in the North. Lantratova, A.S., [1977, p.3-13, rus] 35-2691
Larch introduced in Karelian forests. Valiaev, V.N., [1977, p.75-84, rus] 35-2692
Deicing salts and growth of trees and shrubs along roads. Buschena, C., et al, [1980, 31p., eng] 35-2942
Ecological roles of river icings in the Tsichu River Valley, Northwest Territories, Canada. Gill, D., et al, [1981, p.119-125, eng] 35-3025
Inclimation of young broad-leaved trees caused by snow accretion. Ozeki, Y., et al, [1980, p.27-31, jap] 35-3661
Decorative plants for landscaping residential areas in Yakutia. Krotova, Z.E., ed, [1980, 106p., rus] 35-4098
Testing decorative plants introduced in Yakutia. Krotova, Z.E., [1980, p.4-14, rus] 35-4099
Root systems of trees and shrubs introduced in Yakutia. Dokhunaev, V.N., [1980, p.25-32, rus] 35-4101
Using the Daurskaya larch in landscaping. Timofeev, P.A., [1980, p.59-63, rus] 35-4102
Snowdrifts and protective vegetation along the roads. Saito, S., [1981, 101-106, jap] 35-4269

Trenching

Exhibit of road construction equipment. Zelentsova, L.I., [1980, p.40-44, rus] 35-611
Blasting frozen ground. Frash, G.B., et al, [1980, p.20-22, rus] 35-782
Instructions for designing walls and water resistant screens. [1976, 33p., rus] 35-1714
Technology of pipeline construction in Siberia. [1981, p.33-34, rus] 35-2095
Some aspects of Soviet trenching machines. Mellor, M., [1980, 13p., eng] 35-2597
ETR-254 excavator for frozen ground. Al'shits, M.Z., et al, [1980, p.4-6, rus] 35-2621
Recommendations for pipeline construction in permafrost areas. [1981, p.36-38, rus] 35-4243

Tundra

Arctic and Antarctic: their division into geobotanical areas. Aleksandrova, V.D., [1980, 247p., eng] 35-130
Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia. Popov, A.I., ed, [1980, 256p., rus] 35-279
Vegetation and soils of subarctic tundra. Andreev, V.N., ed, [1980, 209p., rus] 35-282
Vegetation of the lower Kolyma tundra. Andreev, V.N., et al, [1980, p.5-43, rus] 35-283
Tussock-forming sedge in tundra swamps. Egorova, A.A., [1980, p.44-65, rus] 35-284
Revegetation of burned-out areas in tundra. Galaktionova, T.F., et al, [1980, p.66-72, rus] 35-285
Seasonal dynamics of tundra cotton grass. Spodobtseva, N.I., [1980, p.73-84, rus] 35-286
Spore-pollen analysis of recent tundra deposits. Savvinova, G.M., [1980, p.85-91, rus] 35-287
Algae in thermokarst lakes. Vasil'eva, I.I., et al, [1980, p.92-104, rus] 35-288
Micromycete fungi of northeastern Yakutia, Pt.1. Shkarupa, A.G., [1980, p.105-123, rus] 35-289
Bushy lichens of tundra. Rykova, IU.V., [1980, p.124-139, rus] 35-290
Mosses of tundra swamps. Stepanova, N.A., [1980, p.140-157, rus] 35-291
Types of tundra soils. Elovskaia, L.G., et al, [1980, p.158-194, rus] 35-292
Forecasting tundra soil temperature. Savvinov, D.D., [1980, p.195-200, rus] 35-293
Grazing effect on tundra lichens. Andreev, V.N., [1980, p.201-205, rus] 35-294
Classification of Arctic vegetation. Aleksandrova, V.D., [1979, p.1715-1730, rus] 35-341
Algae in tundra soils. Perminova, G.N., [1980, p.859-863, rus] 35-395
Species of Arctic plants from Siberia. Miaemets, A.A., [1980, p.1022-1023, rus] 35-397
Tundra plant structure and production in relation to the environment. Wielgolaski, F.E., [1980, p.23-30, eng] 35-486
Yamal tundra vegetation. Konstantinova, N.A., et al, [1980, p.76-82, rus] 35-499
Spectral reflectivity of cryogenic soils. Sadovnikov, IU.N., [1980, p.45-52, rus] 35-535
Materials on the soils of Komi ASSR. Zaboeva, I.V., ed, [1974, 96p., rus] 35-686
Soils of northern peat bogs. Popov, V.A., [1974, p.10-16, rus] 35-688
Microbiology of tundra and taiga soils. Stenina, T.A., [1974, p.35-42, rus] 35-690
Heat transfer between tundra soil and atmosphere induced by engineering. Pavlov, A.V., et al, [1981, 12p., eng] 35-826
Response to fertilization of Alaskan tundra plants. Shaver, G.R., et al, [1980, p.662-675, eng] 35-830
In vitro and nylon-bag digestibilities of reindeer and caribou forages. Person, S.J., et al, [1980, p.613-622, eng] 35-848
Vegetation of Siberia and the Far East; a current bibliography. [1980, 2 volumes, rus] 35-855
Vegetation of Siberia and the Far East; a current bibliography. [1979, 2 volumes, rus] 35-856
Vegetation of Siberia and the Far East; a current bibliography. [1980, 97p., rus] 35-857
Effects of fire in Alaska and adjacent Canada—a literature review. Viereck, L.A., et al, [1980, 124p., eng] 35-891
Soils of spotty tundra. Vasil'evskaia, V.D., [1979, p.390-401, eng] 35-933
Environmental protection in tundra. Liverovskii, IU.A., et al, [1979, p.512-520, eng] 35-961
Control of recoverable natural resources of the Far North, USSR. Gel'berg, M.G., et al, [1980, 45p., eng] 35-979
Forest-floor nitrogen dynamics in a birch ecosystem, Alaska. Van Cleve, K., et al, [1980, p.359-381, eng] 35-988
Nutritional ecology of microtine rodents: digestibility of forage. Batzli, G.O., et al, [1979, p.740-750, eng] 35-989
Grazing effect on tundra vegetation. Polezhaev, A.N., [1980, p.5-13, rus] 35-1036
Proposed history of permafrost development in Labrador-Ungava. Ives, J.D., [1979, p.233-244, eng] 35-1041
Permafrost and active layer in the forest tundra. Gray, J.T., et al, [1979, p.253-264, fre] 35-1043
Active layer hydrology in discontinuous permafrost. Wright, R.K., [1979, p.359-368, eng] 35-1050
Environmental impact of tracked vehicles in tundra. Sparrow, S.D., et al, [1978, p.20-27, eng] 35-1162
Seasonal movement of nutrients in tundra plants. Chapin, F.S., III, et al, [1980, p.189-209, eng] 35-1169
Dynamics of microbiological processes in soils and the factors influencing it. Pts. 1 and 2. Ryys, O., ed, [1974, 2 vols., rus] 35-1202
Microbiology of cryogenic soils. Aristovskaia, T.V., et al, [1974, p.23-29, rus] 35-1204
Bacterial activities in tundra soils. Parinkina, O.M., [1974, p.104-108, rus] 35-1210
Central Siberian tundra soils. Vasil'evskaia, V.D., [1980, 235p., rus] 35-1281
Soil maps of tundra and forest tundra. Liverovskaia, I.T., [1980, p.18-22, rus] 35-1287
Biogeocenoses of the Taymyr Tundra. Tomilin, B.A., ed, [1989, 256p., rus] 35-1401
Research projects of the *Tareia* station in Taymyr tundra. Tomilin, B.A., [1980, p.3-25., rus] 35-1402
Seasonal development of tundra plants. Deeva, N.M., [1980, p.59-96, rus] 35-1405
Relation between plant growth and thermal regime in tundra. Vital', A.D., [1980, p.97-104, rus] 35-1406
Pollination of tundra plants (West Taymyr). Khodachek, E.A., [1980, p.105-117, rus] 35-1407
Fructification of tundra plants. Khodachek, E.A., [1980, p.118-130, rus] 35-1408
Types of cotton grass in Taymyr tundra. Polozova, T.G., [1980, p.131-144, rus] 35-1409
Photosynthesis of tundra plants. Gerasimenko, T.V., et al, [1980, p.145-164, rus] 35-1410
Fungi of Taymyr tundra. Stepanova, I.V., et al, [1980, p.165-192, rus] 35-1411
Organic matter decomposition in moss tundras. Parinkina, O.M., [1980, p.234-249, rus] 35-1412
Environmental protection in the Far North. Freidin, I.L., [1980, p.65-72, rus] 35-1425
Larch in taiga and forest tundra of Siberia. Il'ina, I.S., [1980, p.28-44, rus] 35-1426
Revegetation of cryogenic soils damaged by industrial activities. Moskalenko, N.G., et al, [1980, p.144-164, rus] 35-1454
Ecology of subarctic mire. Sonesson, M., ed, [1980, 313p., eng] 35-1470
IBP/PT Tundra Biome Project. Objectives—planning site. Sonesson, M., et al, [1980, p.7-25, eng] 35-1471
Physical properties of the tundra soil-water system at Stordalen, Abisko. Rydén, B.E., et al, [1980, p.27-54, eng] 35-1472
Tundra and climatic factors. Rydén, B.E., [1980, p.55-62, eng] 35-1473
Supply and transport of mineral nutrients in a subarctic mire. Malmer, N., et al, [1980, p.63-95, eng] 35-1474
Plant distribution and environment of a subarctic mire. Kvillner, E., et al, [1980, p.97-111, eng] 35-1475
Classification methods for plant communities in tundra. Sonesson, M., et al, [1980, p.113-125, eng] 35-1476
Estimation of phytomass changes in a tundra mire. Sonesson, M., et al, [1980, p.127-137, eng] 35-1477
Diurnal dry weight variation in some tundra plants. Flower-Ellis, J.G.K., [1980, p.139-162, eng] 35-1478
Diurnal dry weight and matter variations in some tundra plants. Flower-Ellis, J.G.K., [1980, p.163-179, eng] 35-1479
Photosynthesis of moss in a subarctic mire. Johansson, L.-G., et al, [1980, p.181-190, eng] 35-1480
Moss growing in relation to environmental factors. Sonesson, M., et al, [1980, p.191-207, eng] 35-1481
Nitrogen cycling in a subarctic ombrotrophic mire. Rosswall, T., et al, [1980, p.209-234, eng] 35-1482
Carbon dioxide and methane fluxes from subarctic mire. Svensson, B.H., [1980, p.235-250, eng] 35-1483
Thawing and freezing in tundra soils. Rydén, B.E., et al, [1980, p.251-281, eng] 35-1484
Energy flow through the subarctic mire at Stordalen. Svensson, B.H., et al, [1980, p.283-301, eng] 35-1485
Variations in Alaska tundra, taiga, and maritime snows. Benson, C.S., [1980, p.202-205, eng] 35-1487
Vegetation of the European part of the USSR. Gribova, S.A., ed, [1980, 429p., rus] 35-1491
Chukotskiy Peninsula soils and vegetation. Galanin, A.V., [1980, p.1174-1187, rus] 35-1566
Soils of Taymyr Peninsula. Vasil'evskaia, V.D., [1980, p.8-16, rus] 35-1612
Geographic distribution of vascular plants in tundra. IUrtsev, B.A., et al, [1970, p.111-122, rus] 35-1613
Vascular plant distribution in tundra. IUrtsev, B.A., et al, [1979, p.74-83, rus] 35-1614
Palynology of Pinedale sediments, Devlins Park, Boulder County, Colorado. Legg, T.E., et al, [1980, p.319-333, eng] 35-1668
Germination in Barrow, Alaska, tundra soil cores. Leck, M.A., [1980, p.343-348, eng] 35-1669
Responses of Arctic tundra to intensive muskox grazing. McKendrick, J.D., [1981, p.49-55, eng] 35-1694
Alaskan-developed grass varieties coming into use. Mitchell, W.W., [1981, p.56-58, eng] 35-1695
Limnology of tundra ponds. Hobbie, J.E., ed, [1980, 514p., eng] 35-1747
Major findings of the IBP study about arctic ponds. Hobbie, J.E., [1980, p.1-18, eng] 35-1748
Description of tundra ponds. Hobbie, J.E., [1980, p.19-50, eng] 35-1749
Physics of tundra ponds. Miller, M.G., et al, [1980, p.51-75, eng] 35-1750
Chemistry of sediments in tundra ponds. Prentki, R.T., et al, [1980, p.76-178, eng] 35-1751
Primary productivity and aquatic plants in tundra ponds. Alexander, V., et al, [1980, p.179-250, eng] 35-1752
Zooplankton in tundra ponds. Stross, R.G., et al, [1980, p.251-296, eng] 35-1753
Arctic macrobenthos in tundra ponds. Butler, M., et al, [1980, p.297-339, eng] 35-1754
Bacteria and fungi in tundra ponds. Hobbie, J.E., et al, [1980, p.340-387, eng] 35-1755
Oil spill effects on tundra ponds. Barsdate, R.J., et al, [1980, p.388-406, eng] 35-1756
Modeling in the aquatic program of the tundra biome. Tiwari, J.L., et al, [1980, p.407-456, eng] 35-1757
Road dust along the Haul Road, Alaska. Everett, K.R., [1980, p.101-128, eng] 35-1771
SUNDAY, a simulation model of an arctic Daphnia population. Stross, R.G., et al, [1979, p.349-362, eng] 35-1785
Slope orientation factor in landscape development. Shcherbakov, IU.A., [1975, p.24-34, rus] 35-1788
Climate and topography of Wrangel Island. Skryl'nik, G.P., [1976, p.20-43, rus] 35-1851
Boreal ecosystem. Larsen, J.A., [1980, 500p., eng] 35-1913
Arctic ecosystem: the coastal tundra at Barrow, Alaska. Brown, J., ed, [1980, 571p., eng] 35-1929
Coastal tundra at Barrow. Brown, J., et al, [1980, p.1-29, eng] 35-1930

Tundra *(cont.)*

Climate, snow cover, microclimate and hydrology at Barrow, Alaska. Dingman, S.L., et al. (1980, p.30-65, eng) **35-1931**

Biophysical processes and primary production. Miller, P.C., et al. (1980, p.66-101, eng) **35-1932**

Photosynthesis of tundra plants. Tieszen, L.L., et al. (1980, p.102-139, eng) **35-1933**

Control of tundra plant allocation patterns and growth. Chapin, F.S., III, et al. (1980, p.140-185, eng) **35-1934**

Tundra vegetation: pattern and succession. Webber, P.J., et al. (1980, p.187-218, eng) **35-1935**

Tundra soils and their nutrients. Gersper, P.L., et al. (1980, p.219-254, eng) **35-1936**

Tundra soil microflora. Bunnell, F.L., et al. (1980, p.255-290, eng) **35-1937**

Activities and decomposition of tundra soil microflora. Flanagan, P.W., et al. (1980, p.291-334, eng) **35-1938**

Herbivore-based trophic system in coastal tundra. Batzli, G.O., et al. (1980, p.335-410, eng) **35-1939**

Detritus-based trophic system in coastal tundra. MacLean, S.F., Jr., (1980, p.411-457, eng) **35-1940**

Carbon and nutrient budgets and their control in coastal tundra. Chapin, F.S., III, et al. (1980, p.458-482, eng) **35-1941**

Geobotanical atlas of the Prudhoe Bay region, Alaska. Walker, D.A., et al. (1980, 69p, eng) **35-2150**

Waste drilling fluid disposal on tundra. French, H.M., (1980, p.794-806, eng) **35-2173**

Microbial ecology and decomposition in Arctic tundra and Subarctic taiga ecosystems. Flanagan, P.W., (1978, p.161-168, eng) **35-2177**

Surface stability in the presence of industrial activities in permafrost areas. Grave, N.A., ed. (1980, 142p., rus) **35-2184**

Radiation regime of disturbed tundra surfaces. Skriabin, P.N., (1980, p.32-36, rus) **35-2187**

Vegetation disturbance on solifluction slopes. Sukhodrovskii, V.L., (1980, p.36-42, rus) **35-2188**

Selective feeding of Red Phalaropes on zooplanktom of arctic ponds. Dodson, S.I., et al. (1980, p.755-763, eng) **35-2239**

All-Union conference on forecasting changes in cryogenic soils due to economic development, Pushchino, Oct 29-31, 1980. Abstracts (1980, 203p., rus) **35-2251**

Origin, geography, classification and terminology of northern soils. Sokolov, I.A., et al. (1980, p.11-13, rus) **35-2254**

Elementary processes in cryogenic tundra soils. Vasil'evskaia, V.D., (1980, p.28-29, rus) **35-2261**

Origin of loams in Vorkuta tundra. Archegova, I.B., (1980, p.37-39, rus) **35-2265**

Seasonal thawing depth in tundras. Tumel', N.V., (1980, p.59-60, rus) **35-2270**

Thermal regime and chemical processes in tundra soils. Antonov, N.V., et al. (1980, p.117-118, rus) **35-2293**

Cryogenic soils of tundra lake landscapes. Evseev, A.V., (1980, p.173-174, rus) **35-2309**

Implications of alternative national energy policies for tundra ecosystems. Schofield, E.A., (1980, p.274-296, eng) **35-2316**

Vegetation and forest dynamics of the upper Dietrich River Valley, Alaska. Densmore, D., (1980, p.183p., eng) **35-2408**

Regionalization of the Non-chernozem zone. Panov, E.P., et al. (1980, 231p., rus) **35-2439**

Remote sensing of revegetation of burned tundra, Kokolik River, Alaska. Hall, D.K., et al. (1980, p.263-272, eng) **35-2462**

1977 tundra fire at Kokolik River, Alaska. Hall, D.K., et al. (1978, 11p., eng) **35-2591**

Effects of a tundra fire on soil and vegetation. Racine, C., (1980, 21p., eng) **35-2602**

Interaction of tundra vegetation and thermal cracking in hummocks. Barrett, P., (1979, p.70-79, ger) **35-2646**

Tundra and analogous soils. Everett, K.R., et al. (1981, p.139-179, eng) **35-2705**

Soil processes in tundra. Sloboda, A.V., (1980, p.29-40, rus) **35-2762**

Vegetation effect on hydrothermal regime of tundra soils. Skriabin, S.Z., et al. (1981, p.82-86, rus) **35-2769**

Biocenotic role of animals in the Yamal forest tundra. Danilov, N.N., ed. (1977, 146p., rus) **35-2866**

Facies of soil cryogenesis and peculiarities of soil profile arrangement in them. Makeev, O.V., (1981, 87p., rus) **35-3053**

Development of agriculture in Siberia and the Far East. Kashtanov, A.N., ed. (1980, 352p., rus) **35-3055**

Land reclamation in Siberia and the Far East. Shumakov, B.B., (1980, p.89-96, rus) **35-3056**

Tundra vegetation on the White Sea islands. Breslina, I.P., (1980, p.72-83, rus) **35-3069**

Environmental protection of the lower Ob' river area. Greshnova, F.V., (1980, p.136-137, rus) **35-3134**

Summer air temperature and precipitation in northern Alaska. Haugen, R.K., et al. (1980, p.403-412, eng) **35-3196**

Vegetation and ice-wedge polygons through the thaw-lake cycle in N. Alaska. Billings, W.D., et al. (1980, p.413-432, eng) **35-3197**

Two low Arctic vegetation maps near Atkasook, Alaska. Komarkova, V., et al. (1980, p.447-472, eng) **35-3199**

Tundra vegetation in relation to microtopography near Atkasook, Alaska. Peterson, K.M., et al. (1980, p.473-482, eng) **35-3200**

Nutritional ecology of microtine rodents in tundra, Alaska. Batzli, G.O., et al. (1980, p.483-499, eng) **35-3201**

Ecology of ground squirrels near Atkasook, Alaska. Batzli, G.O., et al. (1980, p.501-510, eng) **35-3202**

Forage consumption by reindeer and caribou near Atkasook, Alaska. White, R.G., et al. (1980, p.511-529, eng) **35-3203**

Growth and physiological responses of tundra plants to defoliation. Archer, S., et al. (1980, p.531-552, eng) **35-3204**

Nutrient allocation and responses to defoliation in tundra plants. Chapin, F.S., III, (1980, p.553-563, eng) **35-3205**

Plant-eating animals and fertilization of tundra soils. McKendrick, J.D., et al. (1980, p.565-578, eng) **35-3206**

Conquering Alaska's Arctic drilling problems. Part 1: Operations. Moore, S.D., (1981, p.79, 82, 84, 88, eng) **35-3210**

Cryolithologic analysis. Gasanov, Sh.Sh., (1981, 195p., rus) **35-3211**

Development of tundra science in the USSR. Aleksandrova, V.D., (1980, p.1513-1522, rus) **35-3214**

Cells of leaf chlorenchyma in Arctic plants. Miroslavov, E.A., et al. (1980, p.1523-1530, rus) **35-3215**

Types of vegetational cover in the Far North. Norin, B.N., (1980, p.1531-1542, rus) **35-3216**

Cryogenic relief features and vegetation in Arctic islands. Matveeva, N.V., (1980, p.1543-1559, rus) **35-3217**

Flora of subarctic landscapes of Yakutia. Andreev, V.N., et al. (1980, p.1560-1568, rus) **35-3218**

Vegetation distribution in Chukotskiy Peninsula tundras. Balandin, S.A., et al. (1980, p.1719-1733, rus) **35-3219**

Creeping plants of the White Sea islands. Zabotina, I.N., et al. (1980, p.1779-1784, rus) **35-3220**

Lichens of Arctic landscapes. Andreev, M.P., (1981, p.31-41, rus) **35-3221**

Cleistogamy in Arctic grasses. Levkovskii, V.P., et al. (1981, p.116-120, rus) **35-3222**

Vegetation of a hot spring area. Il'tsev, B.A., ed. (1981, 141p., rus) **35-3226**

Formation of gullies in tundra. Konstantinov, I.P., (1981, p.80-95, rus) **35-3287**

Permafrost investigations in economically developing areas of the USSR. Pavlov, A.V., ed. (1980, 183p., rus) **35-3305**

Revegetation of disturbed tundra soils. Skriabin, P.N., et al. (1980, p.23-31, rus) **35-3309**

Tundra ecosystems: a comparative analysis. Bliss, L.C., ed. (1981, 813p., eng) **35-3373**

North American and Scandinavian tundras and polar deserts. Bliss, L.C., (1981, p.8-24, eng) **35-3374**

Geobotanical division of the Soviet Arctic. Andreev, V.N., et al. (1981, p.25-34, eng) **35-3375**

Multivariate comparisons of IBP Tundra Biome site characteristics. French, D.D., (1981, p.47-75, eng) **35-3376**

Tundra climates. Barry, R.G., et al. (1981, p.81-114, eng) **35-3378**

Hydrology of northern tundra. Ryden, B.E., (1981, p.115-137, eng) **35-3379**

Primary production of tundra. Wielgolaski, F.E., et al. (1981, p.187-225, eng) **35-3380**

Phytomass and primary production of tundra communities, USSR. Tikhomirov, B.A., et al. (1981, p.227-238, eng) **35-3381**

Simulation approach to primary production. Jones, H.E., et al. (1981, p.239-256, eng) **35-3382**

Life cycles, population dynamics and the growth of tundra plants. Callaghan, T.V., et al. (1981, p.257-284, eng) **35-3383**

Analysis of processes of primary production in tundra growth forms. Tieszen, L.L., et al. (1981, p.285-356, eng) **35-3384**

Herbivory: a strategy of tundra consumers. Batzli, G.O., et al. (1981, p.359-375, eng) **35-3385**

Populations and energetics of small mammals in the tundra ecosystem. Batzli, G.O., (1981, p.377-396, eng) **35-3386**

Ungulates on arctic ranges. White, R.G., et al. (1981, p.397-483, eng) **35-3387**

Predatory birds and mammals. Fitzgerald, B.M., (1981, p.485-508, eng) **35-3388**

Introduction to invertebrates in tundra. MacLean, S.F., Jr., (1981, p.509-516, eng) **35-3389**

Invertebrate faunas at IPB tundra sites. Ryan, J.K., (1981, p.517-539, eng) **35-3390**

Invertebrate herbivory at tundra sites. Haukioja, E., (1981, p.547-555, eng) **35-3391**

Microflora of tundra. Holding, A.J., (1981, p.561-585, eng) **35-3392**

Decomposition and accumulation of organic matter in tundra. Heal, O.W., et al. (1981, p.587-633, eng) **35-3393**

Ecosystem synthesis: a "fairytale". Bunnell, F.L., (1981, p.637-646, eng) **35-3394**

Nutrients in tundra ecosystems. Dowding, P., et al. (1981, p.647-683, eng) **35-3395**

Carbon flux in tundra by using simulation models. Bunnell, F.L., et al. (1981, p.685-715, eng) **35-3396**

Conservation of the tundra. Sage, B. (1981, p.731-746, eng) **35-3397**

Influence of man on tundra vegetation. Andreev, V.N., (1981, p.747-750, eng) **35-3398**

Current extractive industrial development, North America. Bliss, L.C., et al. (1981, p.751-771, eng) **35-3399**

Point Barrow, Alaska, USA. Brown, J., (1981, p.775-776, eng) **35-3400**

Prudhoe Bay, Alaska, USA. Walker, D.A., (1981, p.776-777, eng) **35-3401**

Eagle Summit, Alaska, USA. Anderson, J.H., et al. (1981, p.779-780, eng) **35-3402**

Brief summary of Arctic engineering and construction problems. Arend, E., (1976, 20p., eng) **35-3404**

Changes in terminology of tundra vegetation. Il'tsev, B.A., et al. (1980, p.99-106, rus) **35-3459**

Dating of the fossil tundra in the forefield of Werenskioldbreen. Baranowski, S., (1977, p.31-36, eng) **35-3620**

Periglacial wedges of Wyoming's intermontane basins. Mears, B., Jr., (1981, p.171-198, eng) **35-3677**

Radiocarbon date list 1: Labrador and northern Quebec, Canada. Short, S.K., comp. (1981, 33p., eng) **35-3681**

Soil oxygen flux in an Alaskan tussock tundra. Stuart, I., (1979, 95p., eng) **35-3766**

Body size patterns in arctic and temperate zooplankton. Dodson, S.I., (1979, p.940-949, eng) **35-3768**

Natural resources of the northeastern USSR. Lozhkin, A.V., ed. (1976, 152p., rus) **35-3825**

New data on the phytogeography of Siberia. Krasnoborov, I.M., et al. (1981, 232p., rus) **35-3889**

Microelement migration in waters of permafrost areas. Makarov, V.N., (1980, p.114-127, rus) **35-4001**

Shoreline vegetation of the arctic Alaska coast. Taylor, R.L., (1981, p.37-42, eng) **35-4049**

Growth conditions and vitality of *Sphagnum* in a tundra community along the Alaska pipeline haul road. Spatt, P.D., et al. (1981, p.48-54, eng) **35-4050**

Tundra fire effects on soils and plants in the Seward Peninsula. Racine, C.H., (1981, p.71-84, eng) **35-4054**

Yamal Peninsula. Danilova, N.S., et al. (1981, p.84-91, rus) **35-4072**

Pleistocene permafrost in the Taz Peninsula. Belopukhova, E.B., (1981, p.92-96, rus) **35-4073**

Growth and phosphate absorption in tundra plants. Chapin, F.S., III, (1981, p.83-94, eng) **35-4086**

Vegetation of Alaskan arctic slope. Walker, D.A., et al. (1981, p.153-172, eng) **35-4089**

Transport and deposition of leaves and seeds on tundra. Glaser, P.H., (1981, p.173-182, eng) **35-4090**

Plant water relations in Alaskan arctic tundra. Oberbauer, S., et al. (1981, p.205-218, eng) **35-4093**

Environmental protection in subpolar regions. Gladkov, V.P., (1979, p.133-140, rus) **35-4107**

Semipalmated Sandpiper in Alaska: reproductive strategies and tactics. Safriel, U.N., (1980, p.425, eng) **35-4236**

Regionalization by environmental protection demands. Chepurko, N.L., et al. (1981, p.44-50, rus) **35-4277**

Growth of *Carex aquatilis* along latitudinal and local gradients. Chapin, F.S., III, et al. (1981, p.1000-1009, eng) **35-4316**

Peat accumulation in drained northern soils. Berman, D.I., et al. (1979, p.134-145, rus) **35-4330**

Tunneling (excavation)

Artificial freezing of the ground in underground construction. Trupak, N.G., (1979, 452p., eng) **35-704**

Tunnel problems put on ice. (1980, p.32-33, ref.) **35-1068**

Artificial rock freezing in tunnel construction. Iakubovich, D.V., (1980, p.55-56, rus) **35-1300**

Calculating the strength and creep of artificially frozen grounds. Vialov, S.S., et al. (1981, 199p., rus) **35-3932**

Tunnels

Seismotectonics and seismicity of the Baykal-Amur railroad construction area. Odintsov, M.M., ed. (1980, 204p., rus) **35-137**

Construction of the Baykal-Amur railroad. Kalnichev, V.P., (1980, p.5-7, rus) **35-138**

Baykal-Angarakan section of the Baykal-Amur railroad. Lysak, S.V., et al. (1980, p.139-153, rus) **35-139**

Railroad construction in seismic permafrost areas. Pavlov, O.V., et al. (1980, p.164-173, rus) **35-140**

Building underground structures in permafrost. Gevirts, G.IA., et al. (1980, p.131-140, eng) **35-963**

Tunnel construction in the Baykal-Amur railroad area. Koshelev, IU.A., et al. (1980, p.11-15, rus) **35-1140**

Artificial freezing of water-bearing rocks in tunneling. Leonov, A.I., et al. (1980, p.11-14, rus) **35-1527**

Determining the coefficient of nonstationary heat transfer. Shkurko, B.F., et al. (1981, p.46-47, rus) **35-2083**

Artificial ground freezing equipment used in tunnel construction. Gubenkov, E.K., et al. (1981, p.52-54, rus) **35-2084**

Preventing ice formation in tunnels. Tetel'baum, A.N., et al. (1981, p.48-49, rus) **35-2090**

Heat and mass transfer in massive rocks and in underground structures. Kremnev, O.A., et al. (1980, 383p., rus) **35-2874**

Turbines
Turbines for Siberia and the Far East. Shchegolev, G.S., et al, [1980, 135p., rus] 35-2447
Turbulence
Tangential stresses on the lower surface of ice with wind drift. Kheisin, D.E., et al, [1980, 7p., eng] 35-1909
Turbulent diffusion
Mixing and microorganism survival in the Slave River, N.W.T. Smith, D.W., et al, [1981, p.449-470, eng] 35-2518
Turbulent exchange
Turbulent heat flux from Arctic leads. Andreas, E.L., et al, [1979, p.57-91, eng] 35-159
Heat transfer at the soil-air interface. IAkushevskaia, K.E., [1980, p.79-92, rus] 35-2441
Estimation of heat and mass fluxes over Arctic leads. Andreas, E.L., [1980, p.2057-2063, eng] 35-2754
Turbulent flow
Wave formation and heat transfer at an ice water interface. Gilpin, R.R., et al, [1980, p.619-640, eng] 35-521
Theoretical studies on air flow within snow. I. Equations of motion. Yoshida, Z., [1978, p.11-27, jap] 35-1172
Flow instability during turbulent flow freezing in a horizontal tube. Thomason, S.B., et al, [1980, p.782-784, eng] 35-1679
Comparison of observed and calculated avalanche velocities. LaChapelle, E.R., et al, [1980, p.309-314, eng] 35-1824
Interaction between wind and snow surface. Kobayashi, S., et al, [1979, p.35-47, eng] 35-2245
Characteristics of flow below a rough floating cover. Gogus, M., et al, [1981, p.122-142, eng] 35-2547
Complex turbulent flow and the processes of heat and mass transfer. Nikitin, I.K., [1980, 238p., rus] 35-2956
Penetration of a freezing liquid into an annular channel. Kuzay, T.M., et al, [1979, p.95-102, eng] 35-3352
Boundary system with convection at the solid-liquid interface. Nansteel, M.W., et al, [1979, p.112-119, eng] 35-3354
Ice formation in a pipe with transition and turbulent flows. Gilpin, R.R., [1981, p.363-368, eng] 35-3516
Avalanche dynamics—what has to be measured. Körner, H.J., [1979, p.165-173, ger] 35-3725
Turbulent structure of the Arctic Ocean. Beliakov, L.N., et al, [1979, p.116-120, rus] 35-4195
Two dimensional nucleation
Numerical method for the two-dimensional freezing problem around a horizontal cylinder encompassing a density inversion point. Saitoh, T., et al, [1981, p.147-152, eng] 35-4314
U.S. Army CRREL
Waging war against the cold is the job of a unique Army lab. Wolkomir, R., [1981, p.103-111, eng] 35-1815
Ultimate strength
On plastic design of an ice-strengthened frame. Varsta, P., et al, [1978, 54p., eng] 35-4179
Ultrasonic tests
Calculating elastic properties of ice at Vostok Station. Dmitriev, D.N., et al, [1980, p.80-84, rus] 35-2037
Acoustic emission response of snow. St. Lawrence, W.F., [1980, p.209-216, eng] 35-2363
Preliminary research on ultrasonic measurement of frozen soil and ice. Fu, R., et al, [1980, p.44-48, chi] 35-2665
Ultraviolet radiation
Leaf ultraviolet optical properties in the arctic-alpine life zone. Robberecht, R., et al, [1980, p.612-617, eng] 35-829
Underground cables
Problems in meteorology and hydrology of Siberia. [1976, 218p., rus] 35-1189
Studying thunderstorms along buried communication cables in permafrost areas with lightning flash counters. Par'ev, N.S., et al, [1976, p.26-31, rus] 35-1190
Equipment for laying underground cables in permafrost. Medorezov, I.A., et al, [1981, p.17-18, rus] 35-2852
Underground facilities
Building underground structures in permafrost. Gevirts, G.IA., et al, [1980, p.131-140, eng] 35-963
Modern foundation design for buildings and underground structures. [1980, p.7-9, rus] 35-1647
Instructions for designing walls and water resistant screens. [1976, 33p., rus] 35-1714
Wall-in-the ground method of building foundations and structures. Smorodinov, M.I., et al, [1976, 129p., rus] 35-1718
Determining the coefficient of nonstationary heat transfer. Shkurko, B.F., et al, [1981, p.46-47, rus] 35-2083
Heat and mass transfer in massive rocks and in underground structures. Kremnev, O.A., et al, [1980, 383p., rus] 35-2874
Utilization of explosive energy in construction. Danilenko, I.I., [1981, 167p., rus] 35-3531
Thermal and hydraulic design of pipelines for oil and petroleum products. Agapkin, V.M., et al, [1981, 256p., rus] 35-3931
Underground pipelines
Mathematical modeling and experimental study of heat and mass transfer processes. Bondarev, E.A., ed, [1979, 136p., rus] 35-233
Temperature regime of an underground pipeline. Krasovitskii, B.A., [1979, p.16-37, rus] 35-234
Practical frost protection of buried pipes. Gundersen, P., [1980, p.7-22, nor] 35-1989
Utilities delivery in northern regions. [1980, 542p., eng] 35-2107
Studies of utility construction in cold regions. Fielding, M.B., [1980, p.136-139, eng] 35-2114
Insulated shallow buried pipe systems in the N.W.T., Canada. James, F.W., [1980, p.150-186, eng] 35-2116
Equation predicts buried pipeline temperatures. King, G.G., [1981, p.65-66, 71-72, eng] 35-2467
Advanced northern utility piping system. Fiala, T., et al, [1981, p.425-437, eng] 35-2516
Chilled gas pipeline—frost-heave design. Svec, O.J., [1981, p.705-718, eng] 35-2532
Simulation of a hot pipeline buried in permafrost. Hayes, L.J., [1978, 8p., eng] 35-3782
Earth's heat may solve problem of dangerous iced bridge decks. [1981, p.12, eng] 35-4161
Calculating water flow in freezing pipes. Karaush, S.A., et al, [1981, p.117-122, rus] 35-4290
Underground storage
Large underground reservoirs for liquefied gases. Novikov, I.P., [1980, p.38-39, rus] 35-619
Wall-in-the ground method of building foundations and structures. Smorodinov, M.I., et al, [1976, 129p., rus] 35-1718
Determining the coefficient of nonstationary heat transfer Shkurko, B.F., et al, [1981, p.46-47, rus] 35-2083
Heat and mass transfer in massive rocks and in underground structures. Kremnev, O.A., et al, [1980, 383p., rus] 35-2874
Underwater acoustics
Physics of ice and ocean. Bogorodskii, V.V., ed, [1980, 157p., rus] 35-360
Underwater acoustic emission of Antarctic icebergs. Gusev, A.V., et al, [1980, p.62-66, rus] 35-371
Special instruments for acoustic studies in the Arctic Basin. Gusev, A.V., et al, [1980, p.87-93, rus] 35-376
Acoustic instruments used on drift stations. Bogorodskii, P.V., et al, [1980, p.94-100, rus] 35-377
Acoustic methods of studying ice cover dynamics. Sosedova, A.L., et al, [1980, p.112-118, rus] 35-380
Oceanographic data report from Cambridge Bay, N.W.T., Sep.1971-Apr.1972. [1973, 267p., eng] 35-889
Acoustic fluctuations due to the temperature fine structure of the ocean. Unni, S., et al, [1981, p.676-680, eng] 35-2801
LNG carrier underwater noise study for Baffin Bay. Leggat, L.J., et al, [1981, 14p. + 14 figs., eng] 35-4223
Pulse propagation in the central Arctic Ocean. Kutschale, H.W., [1981, 33 leaves, eng] 35-4256
Underwater ice
Freezing on the undersurface of the Ross Ice Shelf, Antarctica. Zotikov, I.A., et al, [1979, p.1454-1457, rus] 35-437
Underwater pipelines
Preventing water pollution in permafrost areas. Kukushkin, B.M., et al, [1980, p.21-22, rus] 35-504
Construction of underwater pipelines in West Siberia. Basharat'ian, P.P., et al, [1981, p.32-33, rus] 35-4241
Unfrozen water content
Phase composition of sorption moisture at subzero temperature. Efimov, S.S., [1979, p.97-100, rus] 35-238
Thermophysical properties of freezing saline soils. Stepanov, A.V., [1979, p.101-105, rus] 35-239
Physics of ice and ocean. Bogorodskii, V.V., ed, [1980, 157p., rus] 35-360
Dependence of sea ice refraction on specific attenuation. Khokhlov, G.P., [1980, p.15-17, rus] 35-362
NMR study of the freezing thawing mechanism of water in polyacrylamide gel. Katayama, S., et al, [1980, p.2320-2325, eng] 35-443
Conference on Soil-Water Problems in Cold Region, 4th, 1979. [1980, 262p., eng] 35-724
Low temperature phase changes in moist, briny clays. Anderson, D.M., et al, [1980, p.139-144, eng] 35-728
Experimental studies with frozen soil in an "ice sandwich" permeameter. Horiguchi, K., et al, [1980, p.177-183, eng] 35-733
Unfrozen water content in frozen soils. Patterson, D.E., et al, [1980, p.205-210, eng] 35-736
Frost heave in an instrumented soil column. Berg, R., et al, [1980, p.211-221, eng] 35-737
Computation of rate of heave versus load under quasi-steady state. Miller, R.D., et al, [1980, p.243-251, eng] 35-741
Freezing of fine grained rocks. Ananian, A.A., [1980, p.130-135, rus] 35-767
Unfrozen water in freezing clay soils. Merzliakov, V.P., [1980, p.20-24, rus] 35-1034
Effect of crystalline phase on hailstone growth. Ekba, IA.A., et al, [1975, p.151-162, rus] 35-1622
Investigation of frozen soils using Time Domain Reflectometry. Smith, M.W., et al, [1980, 59p., eng] 35-1878
Supercooling and freezing temperatures of soil water. Shtykov, V.I., [1980, p.105-107, rus] 35-2288
Thermally actuated water migration in frozen soils. Williams, P.J., et al, [1980, 74p., eng] 35-2317
Composition and properties of Upper Pleistocene deposits of the Yana-Indigirka coastal lowland. Trush, N.I., et al, [1975, p.59-69, eng] 35-2401
Unfrozen water content of subsea permafrost. Tice, A.R., et al, [1980, p.400-412, eng] 35-2755
Ground water freezing temperatures. Lev, V.D., et al, [1980, p.16-20, rus] 35-2770
Temperature dependence of brine content in sea ice. Mel'nichenko, N.A., et al, [1980, p.535-537, eng] 35-3304
Some approaches to modeling phase change in freezing soils. Hromadka, T.V., II, et al, [1981, p.137-145, eng] 35-3670
Phase composition of water in frozen soils. Kaliuzhnyi, I.L., et al, [1978, p.255-260, eng] 35-3684
Peculiarities of foundation design in petroleum provinces of West Siberia. Konovalov, A.A., et al, [1981, 167p., rus] 35-3918
Formation of meltwater losses Kaliuzhnyi, I.I., et al, [1981, 160p., rus] 35-4311
United States
Mean winter temperature anomalies over the U.S., 1895-1979. Diaz, H.F., [1980, 88p., eng] 35-707
—Alaska
U.S. Geological Survey in Alaska; 1980 programs. Reed, K.M., ed, [1980, 112p., eng] 35-131
Spilled oil retention potential Beaufort Sea coast of Alaska. Nummedal, D., et al, [1979, p.247-253, eng] 35-174
Marine environments in Boca de Quadra and Smeaton Bay, Alaska, 1979. Burrell, D.C., et al, [1980, 134p., eng] 35-490
Petroleum resources of Alaska and Canada. Lachininskii, V.A., et al, [1979, p.95-101, rus] 35-751
Gravel removal guidelines manual for Arctic and Subarctic floodplains. [1980, 169p., eng] 35-797
Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979. [1980, 595p., eng] 35-846
Pavement structure evaluation of Alaskan highways McHattie, R., et al, [1980, 208p., eng] 35-893
Surface coal mining control and reclamation act in Alaska, 1977. [1980, 328p., eng] 35-948
Abstracts of papers from the 31st Alaska Science Conference, 1980. [1980, 148p., eng] 35-1469
Variations in Alaska tundra, taiga, and maritime snows Benson, C.S., [1980, p.202-205, eng] 35-1487
Spring breakup on Alaskan rivers. Nibler, G.J., [1980, p.207-209, eng] 35-1488
Air pollution in Alaska Benson, C.S., et al, [1980, p.210-215, eng] 35-1489
Land application of sludge Johnson, R.A., et al, [1981, p.8-9, eng] 35-1692
Environment of the Alaskan Haul Road. Brown, J., [1980, p.3-52, eng] 35-1769
Research annual report 1979-80, University of Alaska. [1981, 129p., eng] 35-1774
Developments in Alaska in 1979. Jones, B.C., [1980, p.1345-1353, eng] 35-1775
Environmental impact of WW II debris cleanup in southern Alaska. [1979, 272p. + 1 Vol. of append., eng] 35-1816
Gravel removal studies in Arctic and Subarctic floodplains in Alaska. [1980, 403p., eng] 35-1997
Environmental protection problems in Alaska and Canada Grave, N.A., [1980, p.135-141, rus] 35-2195
Annual report, 1980. [1980, 32p., eng] 35-2241
Avalanche zoning in Alaska, U.S.A Hackett, S.W., et al, [1980, p.377-392, eng] 35-2380
Urban design lessons for Alaska. Morehouse, R.K., et al, [1981, p.16-23, eng] 35-2498
Water resources and hydroelectric projects, Alaska river basins. [1981, 32p. + map, eng] 35-3140
Alaska coastal bibliography and index statewide [1980, 407p., eng] 35-3553
Potential and developed water-supply sources in Alaska. Dearborn, L.L., [1981, p.1-11, eng] 35-3682
Alaska gas line largest construction project in history [1981, p.26-28, 50, 60, eng] 35-3691
Effects of placer mining on hydrologic systems in Alaska. Madison, R.J., [1981, 25p., eng] 35-3813
Water resources development [1981, 52p., eng] 35-4010
Shoreline vegetation of the arctic Alaska coast. Taylor, R.J., [1981, p.37-42, eng] 35-4049
Ecological research report; Volume 1. establishing a system for Alaska. Underwood, L.S., et al, [1979, 36p. + map, eng] 35-4163
U.S. Geological Survey in Alaska; 1981 programs. Reed, K.M., ed, [1981, 111p., eng] 35-4225
—Alaska—Barrow
Arctic ecosystem: the coastal tundra at Barrow, Alaska. Brown, J., ed, [1980, 571p., eng] 35-1929
Barrow gas fields N. Slope, Alaska. Lantz, R.J., [1981, p.197-200, eng] 35-2706
Ecosystem models of an arctic pond. Hobbie, J.E., et al, [1978, p.105-109, eng] 35-2890
Point Barrow, Alaska, USA. Brown, J., [1981, p.775-776, eng] 35-3400
Body size patterns in arctic and temperate zooplankton. Dodson, S.I., [1979, p.940-949, eng] 35-3768

United States *(cont.)*

—Alaska—Bethel

Bank stabilization, Bethel, Alaska. [1981, 63p. + appends., eng] **35-3812**

—Alaska—Bristol Bay

Bristol Bay environment, a background study of available knowledge. [1974, 858p., eng] **35-3550**

—Alaska—Brooks Range

Proposed ecological natural landmarks in the Brooks Range, Alaska. Bliss, L.C., et al. [1981, 175p., eng] **35-3554**

—Alaska—Chena River

Environmental impact statement, Chena River Lakes Project. [1980, 82p. + appends., eng] **35-132**

—Alaska—Cook Inlet

Circulation studies in Kachemak Bay and Lower Cook Inlet. Burbank, D.C. [1977, 207p., eng] **35-491**

Cook Inlet environment; a background study of available knowledge. Evans, C.D., et al. [1972, 136p., eng] **35-3359**

Sedimentation in Lower Cook Inlet, Alaska. Larrance, J.D., et al. [1979, p.269-282, eng] **35-3810**

—Alaska—Eagle Summit

Eagle Summit, Alaska, USA. Anderson, J.H., et al. [1981, p.779-780, eng] **35-3402**

—Alaska—Fairbanks

Fairbanks atmospheric carbon monoxide transport model. Carlson, R.F., et al. [1980, 49p., eng] **35-1841**

—Alaska—Gulf of Alaska

Petroleum industry impact on Alaska's south shore. Jackson, J.B., et al. [1980, 78p., eng] **35-861**

Environmental assessment of the Alaskan continental shelf, TDP, FY81. Hameedi, J., coord. [1980, 130p., eng] **35-2020**

—Alaska—Harding Lake

Climatic changes of Harding Lake, Alaska. Nakao, K., ed. [1980, 77p., eng] **35-1557**

—Alaska—Haul Road

North Slope Borough comprehensive policy plan, Haul Road area. [1980, 34p., eng] **35-2015**

—Alaska—Juneau

Student science training program, Juneau icefield, Alaska, 1979. Miller, M.M., et al. [1979, 15p., eng] **35-2016**

Undergraduate research participation program, Juneau icefield, Alaska, 1979. Williams, G.A., et al. [1980, 34p., eng] **35-2017**

—Alaska—Kachemak Bay

Circulation studies in Kachemak Bay and Lower Cook Inlet. Burbank, D.C. [1977, 207p., eng] **35-491**

Ice distribution and winter surface circulation, Kachemak Bay, Alaska. Gatto, L.W. [1981, p.995-1001, eng] **35-3591**

—Alaska—Kenai Mountains

Periglacial landforms and processes in the Kenai Mts., Alaska. Bailey, P.K. [1980, 159p., eng] **35-949**

—Alaska—Kodiak Island

Oilspill risk analysis for the Kodiak Island (proposed sale 46). Samuels, W.B., et al. [1980, 40p. + 22 appends., eng] **35-155**

—Alaska—Nome

Port feasibility study, Nome, Alaska. Gaed, P.E., et al. [1981, p.235-248, eng] **35-2506**

—Alaska—North Slope

Summer air temperature and precipitation in northern Alaska. Haugen, R.K., et al. [1980, p.403-412, eng] **35-3196**

Lichens of the Alaskan Arctic slope. Thomson, J.W., [1979, 314p., eng] **35-3523**

Origin of water feeding North Slope icings. Hall, D.K., et al. [1981, p.433-438, eng] **35-4341**

—Alaska—Port Valdez

Port Valdez environmental studies, 1976-1978. Colonell, J.M. [1980, p.907-917, eng] **35-985**

—Alaska—Prudhoe Bay

Prudhoe Bay Project; Final environmental impact statement. [1980, 416p., eng] **35-34**

Final environmental impact statement, Prudhoe Bay Oil Field Waterflood Project. [1980, 3 Vols., eng] **35-798**

Geophysical evidence of shallow nearshore permafrost, Prudhoe Bay, Alaska. Rogers, J.C., et al. [1980, p.4845-4853, eng] **35-1117**

Geobotanical atlas of the Prudhoe Bay region, Alaska. Walker, D.A., et al. [1980, 69p., eng] **35-2150**

Seismic evidence for a gas-bearing layer in Prudhoe Bay. Boucher, G., et al. [1981, p.63-71, eng] **35-2419**

Volatile content of crude oil treated under different weathering conditions. Riley, R.G., et al. [1981, p.109-119, eng] **35-2937**

Conquering Alaska's Arctic drilling problems. Part 1. Operations. Moore, S.D. [1981, p.79, 82, 84, 88, eng] **35-3210**

Prudhoe Bay, Alaska, USA. Walker, D.A. [1981, p.776-777, eng] **35-3401**

Conquering Alaska's Arctic drilling problems. Pt.2. Drilling procedures. Moore, S.D. [1981, p.40, 44, 46, 100, eng] **35-3639**

Completion techniques and drilling rigs in Prudhoe Bay, Alaska. Moore, S.D. [1981, p.96-100, eng] **35-3814**

Vegetation of Alaskan arctic slope. Walker, D.A., et al. [1981, p.153-172, eng] **35-4089**

—Alaska—Seward Peninsula

Tundra fire effects on soils and plants in the Seward Peninsula. Racine, C.H. [1981, p.71-84, eng] **35-4054**

—Alaska—Yukon River

Break-up dates for the Yukon River; Pt.1. Rampart to Whitehorse, 1896-1978. Stephens, C.A., et al. [1979, c50 leaves, eng] **35-133**

Break-up dates for the Yukon River; Pt.2. Alakanuk to Tanana, 1883-1978. Stephens, C.A., et al. [1979, c50 leaves, eng] **35-134**

Revegetation of disturbed sites along the Yukon River. Johnson, A.W., et al. [1980, p.16-29, eng] **35-578**

—Chesapeake Bay

Icebreaking procedures on the upper Chesapeake Bay. Gamp, H.W. [1981, p.71-78, eng] **35-3361**

—Colorado—Indian Peaks

Alpine vegetation of the Indian Peaks area, Colorado. Komarkova, V. [1979, 591p. + figs. + maps, eng] **35-3604**

—Colorado—Niwot Ridge

Niwot Ridge, Colorado, USA. Webber, P.J. [1981, p.780-782, eng] **35-3403**

—Columbia River

Glacier runoff related to Columbia River hydroelectric power generation. Tangborn, W.V. [1980, p.62-67, 140-143, rus] **35-2818**

—Great Lakes

Satellite observation of Great Lakes ice, winter 1978-79. Wartha-Clark, J. [1980, 36p., eng] **35-3409**

—Maine—Kennebunk

Kennebunk glacial advance; a reappraisal. Smith, G.W. [1981, p.250-253, eng] **35-3605**

—Montana—Grinnel Glacier

Record of Grinnell and Sperry Glaciers, Montana. Johnson, A. [1980, 29p. + 2 maps, eng] **35-862**

—Montana—Sperry Glacier

Record of Grinnell and Sperry Glaciers, Montana. Johnson, A. [1980, 29p. + 2 maps, eng] **35-862**

—Oregon—Crater Lake

Modeling snow cover elements at Crater Lake, Oregon. Hamilton, W.L. [1980, 112p., eng] **35-3974**

—Rocky Mountains

Avalanche hazard mapping and zoning in the Rocky Mts. Ives, J.D., et al. [1980, p.363-375, eng] **35-2379**

Unloading

Reinforcing fast ice for unloading military equipment. Zemlin, S. [1980, p.70-71, rus] **35-969**

Urban planning

Fundamentals of sanitation and hygiene in urban construction of the Novosibirsk region. Dobrinskii, A.A., et al. [1974, 118p., rus] **35-805**

Problems of the North; a current bibliography. [1980, 3 volumes, rus] **35-858**

Problems of the North; a current bibliography. [1980, 198p., rus] **35-859**

Science assists the builders of Siberia and the Far East. Chentemirov, M.G. [1980, 192p., rus] **35-1136**

Weather-forming factors and their role in biochimatology. Pogosian, Kh.P., ed. [1980, 108p., rus] **35-1448**

Climatic evaluations in the Baykal Amur railroad area. Kornilova, R.P., et al. [1980, p.60-69, rus] **35-1450**

Urban planning in Siberia. Pertsik, E.N. [1980, 286p., rus] **35-1898**

Urban planning in the Far North. Platonov, G.D. [1980, p.1-9, eng] **35-1966**

Snow-modelling techniques at Baker Lake, N.W.T. Adam, K.M., et al. [1980, p.394-408, eng] **35-2130**

Large scale development of remote housing in subarctic areas. Robertson, W.A., et al. [1980, p.426-438, eng] **35-2132**

Permafrost stability and human activities. Kuznetsova, I.L. [1980, p.75-107, rus] **35-2192**

Northern community; a search for a quality environment. [1981, 786p., eng] **35-2496**

Community development in the circumpolar North. Rhoads, E.M. [1981, p.1-15, eng] **35-2497**

Urban design lessons for Alaska. Morehouse, R.K., et al. [1981, p.16-23, eng] **35-2498**

Community planning considerations in cold regions. Ryan, W.L. [1981, p.54-63, eng] **35-2499**

Building the northern urban environment. Fletcher, R.H. [1981, p.71-87, eng] **35-2500**

Design of the built environment in cold regions. Crittenden, E.B. [1981, p.103-114, eng] **35-2501**

Accommodation design for remote settlements. Bent, C. [1981, p.115-131, eng] **35-2502**

Space-time environment: man, architecture, climate and technology. Gérin-Lajoie, G. [1981, p.132-142, eng] **35-2503**

Environmental constraints on technology. Atkins, J.T. [1981, p.208-224, eng] **35-2505**

Post occupancy evaluation of a planned community in Arctic Canada. Bechtel, R.B., et al. [1980, 27p., eng] **35-2596**

Post occupancy evaluation for communities in hot or cold regions. Bechtel, R.B., et al. [1980, 57p., eng] **35-2600**

Construction of Severobaykal'sk. Savel'ev, R.V. [1980, p.16-18, rus] **35-2631**

Architectural projects for the North. Gavrilova, N.I., et al. [1980, p.9-12, rus] **35-2632**

Urban construction in Siberia. Ogly, B.I. [1980, 272p. (Pertinent p.174-269), rus] **35-2685**

Cold regions engineering. [1980, Var. p., eng] **35-2710**

Winter city. Clark, L.K., et al. [1980, 16p., eng] **35-2714**

From nomadic to mobile architecture. Mardar, D., et al. [1980, 215p. (Pertinent p.174-213), rus] **35-2864**

Human settlements in the Arctic. [1980, 125p., eng] **35-2927**

Northern dwellings. Putintsev, E. [1980, p.38-46, rus] **35-3230**

Urban construction norms for the North. Shubert, A.A. [1981, p.58-62, rus] **35-3457**

Use of satellites in surveying for urban construction. Krest'iashin, S.I., et al. [1981, 159p., rus] **35-4310**

Urea

Resistance of concrete to urea and freezing. Blunk, G., et al. [1980, p.119-131, ger] **35-569**

Deicing of airfields. Laumann, M. [1980, 27p., eng] **35-992**

USSR

—Ala Tau

Glaciation of the Kuznetskiy Alatau. Shpin', P.S. [1980, 84p., rus] **35-307**

Glacial history of the Kirgiz Ala Tau Range. Maksimov, E.V. [1980, 184p. (pertinent p.116-143), rus] **35-2394**

—Alai Range

Water, ice, and heat balance of mountain glacier basins. Suslov, V.F., et al. [1980, 206p., rus] **35-232**

—Aldan Plateau

Drainage in the faulted Aldan Plateau zone. Lygin, A.M. [1980, p.22-30, rus] **35-3991**

—Altai Mountains

Botanical geography of Altai. Ogureeva, G.N. [1980, 192p., rus] **35-876**

Slope processes in Alpine taiga. Rashba, I.N. [1978, p.86-122, rus] **35-880**

Forecasting flooding of rivers. Klimova, L.A., et al. [1977, p.35-39, rus] **35-1292**

Identification of avalanches on satellite photographs. Kravtsova, V.I. [1980, p.66-74, rus] **35-2976**

Musci of the Altai-Sayan highlands. Gudoshnikov, S.V. [1981, p.52-60, rus] **35-3893**

Avalanche formation in the Katun' River basin. Chubenko, A.G. [1981, p.77-86, rus] **35-4303**

—Amur River

Soil formation in mountain taiga of the northern Amur region. Khismatullin, Sh.D. [1980, p.98-124, rus] **35-1630**

Cryogenic structure of the Amur River basin alluvium. Kostiaev, A.G., et al. [1981, p.126-153, rus] **35-4077**

—Angara River

Forest fire effects on soil formation in permafrost areas. Popova, E.P. [1980, p.40-52, rus] **35-298**

Microbiology of cryogenic forest soils. Sorokin, N.D. [1980, p.113-130, rus] **35-2482**

Washing construction materials in freezing water. Tantsman, M.A., et al. [1981, p.22-23, rus] **35-2845**

Diurnal air temperature variations in northern river basins. Sorokina, L.P. [1980, p.51-59, rus] **35-3416**

Surface runoff in river basins of permafrost areas. Berkin, N.S., et al. [1980, p.97-102, rus] **35-3462**

—Aral Sea

Ice conditions of the Aral Lake from satellite data. Temnikov, S.N. [1980, p.44-51, rus] **35-2973**

—Barguzin Range

Vegetation of the southern part of the Barguzin Range. Tiulina, L.N. [1981, 85p., rus] **35-3228**

—Baykal Lake

Water transfer of chemical elements in taiga landscapes. Kuz'min, V.A. [1973, p.23-32, rus] **35-765**

Forestry resources in the Baykal-Amur Railroad region. Il'ina, L.N. [1980, 12p., eng] **35-978**

Snow accumulation in the Baykal Lake Basin. Cherkasov, A.E., et al. [1976, p.145-148, rus] **35-1192**

Lake effect on North Baykal shore forests. Vykhristiuk, M.M. [1980, 215p., rus] **35-1372**

Cryogenic soils of Lake Baykal area. Parshikov, V.P. [1980, p.18-20, rus] **35-2258**

Land reclamation in areas of discontinuous permafrost. Zamana, L.V. [1980, p.73-75, rus] **35-2276**

Seasonally freezing layer in the Lake Baykal area. Zabolotnik, S.I., et al. [1980, p.106-113, rus] **35-3323**

Waters of the Lake Baykal area. Bachurin, G.V. [1980, p.190-200, rus] **35-3426**

Mathematical model of ice clearance from Lake Baykal. Moskalets, V.F., et al. [1980, p.137-143, rus] **35-3475**

Compiling a medium-scale vegetation map of the northern Baykal area from space survey data. Belov, A.V., [1980, p.97-102, rus] **35-3543**

—Baykal Mountains

Paleocryogenic structure of deposits in the Baykal Mountains. Bosikov, N.P., et al. [1980, p.153-156, rus] **35-3331**

—Bol'shezemel'skaya Tundra

Species of Arctic plants from Siberia. Miaemets, A.A. [1980, p.1022-1023, rus] **35-397**

Issues of thawing depth in tundra. Tumel', N.I. [1980, p.59-60, rus] **35-2270**

Origin and evolution of Bol'shezemel'skaya Tundra soils. Fominykh, L.A., et al, [1980, p.159-161, rus] 35-2305

—Bol'shoy Begichev Island
Cryogenic relief features and vegetation in Arctic islands. Matveeva, N.V., [1980, p.1543-1559, rus] 35-3217

—Bratsk
Water balance of the Bratsk reservoir. Geta, R.I., [1978, 134p., rus] 35-811

—Bureya River
Classification of taiga soils for construction and agriculture. Grishin, I.A., et al, [1979, p.95-111, rus] 35-1522

—Carpathian Mountains
Avalanche formation in Carpathian Mountains. Grishchenko, V.F., et al, [1978, p.297-299, eng] 35-3685

—Caspian Sea
Calculating ice conditions in the Caspian Sea. Kruglov, A.A., [1978, p.92-98, rus] 35-1001
Ice surveys of the Caspian Sea. Valler, F.I., et al, [1981, p.14-18, rus] 35-3935

—Caucasus
Snow regimes of forested and open lands. Dvalishvili, O.I., [1976, p.104-107, rus] 35-73
Studying the formation of mountain glacier moraines. Orlov, A.V., [1980, p.65-68, rus] 35-78
Snow evaporation in the Caucasus. Gvakhariia, V.K., [1980, p.337-341, rus] 35-108
Photosynthesis of alpine meadow plants. Goryshina, T.K., et al, [1980, p.21-26, rus] 35-1038
Factors affecting discharge of glacial rivers. Tsomaia, V.Sh., [1980, p.125-130, rus] 35-1241
Dynamics and mass balance of mountain glaciers. Golubev, G.N., et al, [1980, p.147-152, rus] 35-1247
Calculating glacial runoff in the Caucasus. Krenke, A.N., et al, [1980, p.31-37, 112-118, rus] 35-2812
Stream-melting theory of glacier ablation. Kazanskii, A.B., et al, [1980, p.203-206, rus] 35-2833
Distribution of subzero air temperatures in Caucasian mountains. Aslanikashvili, N.A., et al, [1980, p.80-88, rus] 35-2988
Aerosynoptic conditions starting thaws over Georgia. Kordzakhiia, R.S., [1980, p.89-94, rus] 35-2989
Selected papers from the Franco-Soviet Symposium on the Alps and Caucasus. [1981, p.219-403, fre] 35-3739
Present glaciation and climate of the Caucasus. Kotliakov, V.M., et al, [1981, p.241-264, fre] 35-3740
Comparative geomorphology of mountain systems of the Alps and Caucasus. Bravard, Y., et al, [1981, p.313-318, fre] 35-3741
Climatic regime of glaciers and their oscillations. Golubev, G.N., et al, [1981, p.319-328, fre] 35-3742
Resemblances and differences in vegetation of the Alps and Caucasus. Grebenshchikov, O.S., et al, [1981, p.333-352, fre] 35-3743
Avalanches in the Tskhenistskali River basin. Abdushelishvili, K.L., et al, [1980, p.75-82, rus] 35-3801
Snow accumulation on the southern slope of Caucasus. Tsomaia, V.Sh., et al, [1980, p.83-98, rus] 35-3802
Productivity of high altitude grass communities in the central Caucasus. Nakhutsrishvili, G.Sh., et al, [1980, 159p., rus] 35-3899

—Central Asia
Statistical analysis of snow survey data. Akhundzhanov, Sh.M., [1978, p.29-33, rus] 35-2702
Forecasting mountain river discharge from snow survey data. Getker, M.I., et al, [1980, p.3-12, rus] 35-3570

—Chara River
Microclimatology of the Chara Basin. Kalashnikov, A.V., [1980, p.35-42, rus] 35-1197
Air temperature variations in the Chara Basin. Vasil'eva, L.G., [1980, p.43-54, rus] 35-1198
Biochemistry of cryogenic taiga soils. Nechaeva, E.G., et al, [1980, p.152-162, rus] 35-1632

—Chita
Mapping vegetational resources of permafrost areas. Geleta, I.F., et al, [1980, p.114-124, rus] 35-1707
Physical properties and moisture regime of meadow soils. Khudiakov, O.I., et al, [1980, p.102-104, rus] 35-2287

—Chukotskiy Peninsula
Slope processes in permafrost areas. Kolesnikov, S.F., [1979, p.68-74, rus] 35-65
Grazing effect on tundra vegetation. Polezhaev, A.N., [1980, p.5-13, rus] 35-1036
Chukotskiy Peninsula soils and vegetation. Galanin, A.V., [1980, p.1174-1187, rus] 35-1566
Geographic distribution of vascular plants in tundra. IUrtsev, B.A., et al, [1970, p.111-122, rus] 35-1613
Vascular plant distribution in tundra. IUrtsev, B.A., et al, [1979, p.74-83, rus] 35-1614
Offshore landforms along the Arctic coast. Danilov, I.D., et al, [1980, p.77-84, rus] 35-1765
Vegetation distribution in Chukotskiy Peninsula tundras. Balandin, S.A., et al, [1980, p.1719-1733, rus] 35-3219
Lichens of Arctic landscapes. Andreev, M.P., [1981, p.31-41, rus] 35-3221
Vegetation of a hot spring area. IUrtsev, B.A., ed, [1981, 141p., rus] 35-3226
Changes in terminology of tundra vegetation. IUrtsev, B.A., et al, [1980, p.99-106, rus] 35-3459
Recent deposits and Pleistocene paleogeography of Chukotskiy Peninsula. Kaplin, P.A., ed, [1980, 295p., rus] 35-3930

—Chuna Tundra
New data on the Chuna Tundra vegetation. Syroid, N.A., [1980, p.83-86, rus] 35-3070

—Dickson Island
Ice deterioration in the Dickson Island area. Komov, N.I., [1981, p.59-64, rus] 35-3946

—Dvina River
Numerical modeling of river diversion problems. Kotrekhov, E.P., [1980, p.17-20, rus] 35-3107

—El'brus Mountain
Oscillations of the Bol'shoy Azau Glacier tongue. Martyshev, A.P., [1980, p.207-209, rus] 35-2834

—Far East
Mountain alluvium in the Far East. Korotkii, A.M., et al, [1979, p.94-117, rus] 35-3046

—Franz Josef Land
Trends in ice cover development in the Arctic Basin. Vasil'ev, S.V., [1972, p.69-70, rus] 35-2425

—Gissar-Alay Mountains
Pulsating glaciers of the Gissar-Alay Mountains. Glazyrin, G.E., et al, [1980, p.81-100, rus] 35-718

—Gissar Range
Snow accumulation on glaciers. Kuznetsov, N.A., [1980, p.105-111, rus] 35-720

—Indigirka River
Correlation of perennially frozen rocks. Kaplina, T.N., et al, [1980, p.74-81, rus] 35-2454
Recent processes which formed the present surface of the Yana-Indigirka Plain. Egorova, G.N., [1976, p.55-65, rus] 35-3830

—Irtysh River
Diversion of a part of the Irtysh River waters. Petrov, I.B., [1980, p.110-114, rus] 35-1339
Research center for the study of river course redirection. Mikheev, V.S., et al, [1979, p.3-16, rus] 35-2321
Geochemistry of taiga soils. Nechaeva, E.G., et al, [1979, p.51-62, rus] 35-2323
Floodplain biomass of northern rivers. Druzhinina, N.P., [1979, p.76-89, rus] 35-2325
Thermal regime of taiga soils. Linevich, N.L., [1980, p.183-195, rus] 35-2491
Effect of human activities on river ice conditions. Martynov, B.D., [1980, p.103-109, rus] 35-3463
Radiation balance of taiga geosystems. Mart'ianova, G.N., [1980, p.190-193, rus] 35-3481

—Kama River
Forecasting ice conditions on rivers. Kalinin, G.S., [1975, p.112-117, rus] 35-1789
Soil freezing effect on the loss of meltwater runoff. Lysenko, T.A., et al, [1978, p.10-15, rus] 35-2700

—Kamchatka Peninsula
Glacial lithogenesis under conditions of active volcanism. Geptner, A.R., [1980, p.136-146, rus] 35-810

—Kara Sea
Changes in river ice conditions due to powerplant construction. Bakhtin, N.P., [1980, p.45-46, rus] 35-3114
River diversion effect on ice conditions of Arctic seas. Nikiforov, E.G., et al, [1980, p.124-126, rus] 35-3130
Evaluating variations in salinity of the surface layer of the Kara Sea due to river diversion and its effect on ice conditions. Appel', I.L., et al, [1980, p.127-130, rus] 35-3131
Moisture cycles in the lower course of the Ob' R ver and the Kara Sea and their possible variations due to interzonal redistribution of runoff. Burova, L.P., [1980, p.131-135, rus] 35-3132
Ice cover redistribution in the Kara Sea. Appel', I.L., et al, [1980, p.4-28, rus] 35-3490
Ice conditions in the Severnaya Zemlya area. Kirillov, A.A., et al, [1980, p.94-100, rus] 35-3499
Relations between air temperature and ice conditions in Arctic seas. Tettel'baum, K.A., [1980, p.109-117, rus] 35-3501

—Karelia
Recent soil processes and fertility of Karelian soils. P'iavchenko, N.I., ed, [1979, 174p., rus] 35-1417
Cryogenic soils of Karelia. Perevozchikova, E.M., et al, [1979, p.149-168, rus] 35-1419
Drainage of cryogenic soils in Karelia. Nesterenko, I.M., [1980, p.20-21, rus] 35-2259
Scientific conference of Karelian biologists. Komulainen, A.A., ed, [1970, 167p., rus] 35-2613
Larch introduced in Karelian forests. Valiaev, V.N., [1977, p.75-84, rus] 35-2692

—Karelian Isthmus
Phytoplankton composition and cropping power in different lake types of the Karelian Isthmus. Trifonova, I.S., [1979, 168p., rus] 35-201

—Katun Range
Mudflow formation in high mountains. Vinogradov, V.A., [1980, p.82-85, rus] 35-455

—Kodar Range
Geocryological conditions of the Kodar Range. An, V.V., et al, [1980, p.124-127, rus] 35-3326

—Kola Peninsula
Soil formation in northern taiga. Nikonov, V.V., [1979, p.501-511, eng] 35-960
Microbiology of Kola Peninsula swamp soils. Pereverzev, V.N., et al, [1974, p.140-142, rus] 35-1212
Revegetation of felled areas in northern forests. Ronkonen, N.I., [1970, p.79-81, rus] 35-2616
Seed germination in some polar plants. Skitkina, A.A., [1980, p.3-9, rus] 35-3063
Growth of Lapland poppy under Arctic conditions. Andreeva, V.N., [1980, p.26-39, rus] 35-3065
Organic matter in soils of Kola Peninsula. Pereverzev, V.N., et al, [1980, 227p., rus] 35-3279

—Kolyma
Runoff characteristics in polar regions. Nasybulin, Sh.S., [1976, p.32-41, rus] 35-3827

—Kolyma River
Mesophyte relict flora in northeastern tundras. Khokhriakov, A.P., [1979, p.84-96, rus] 35-1615
Formula for calculating snowmelt runoff. Boiarintsev, E.L., et al, [1980, p.3-11, rus] 35-2875
Dating morainal deposits in Arctic regions. Gol'dfarb, IU.I., [1976, p.100-106, rus] 35-3834

—Krasnoyarsk
Frozen rocks in the southern Krasnoyarsk area. Shats, M.M., [1980, p.120-124, rus] 35-3325

—Kuznetskiy Alatau
Algae in waters of the Kuznetskiy Alatau. Safonova, T.A., [1981, p.4-16, rus] 35-3890

—Laptev Sea
Subsea permafrost in the Laptev sea shelf. Zhigarev, L.A., [1979, p.91-96, rus] 35-66
Subsea permafrost in the Laptev Sea area. Fartyshev, A.I., et al, [1980, p.134-135, rus] 35-3133
Cryogenic relief features and vegetation in Arctic islands. Matveeva, N.V., [1980, p.1543-1559, rus] 35-3217
Forecasting dates of ice formation in Arctic seas. Zakharov, V.F., [1980, p.61-67, rus] 35-3494
Ice conditions in the Severnaya Zemlya area. Kirillov, A.A., et al, [1980, p.94-100, rus] 35-3499

—Long Strait
Ice cover mobility in the Long Strait. Gorbunov, IU.A., [1981, p.110-113, rus] 35-3956
Morphometric characteristics of drifting ice in Long Strait. Gorbunov, IU.A., et al, [1981, p.129-136, rus] 35-3960

—Magadan
Natural resources of the northeastern USSR. Lozhkin, A.V., ed, [1976, 152p., rus] 35-3825
Climatic conditions of the Magadan Region. Mel'nikova, T.V., [1976, p.5-21, rus] 35-3826

—Moscow Region
Distribution of water reserves in snow cover in the Moscow Region. Nefedova, E.A., [1980, 5p., eng] 35-983

—New Siberian Islands
Ice transfer through the New Siberian straits. Gorbunov, IU.A., [1979, p.66-72, rus] 35-4189

—Noril'sk
External walls of buildings erected on permafrost. Zlatinskaia, T.V., [1980, p.20-22, rus] 35-460

—Novosibirsk
Fundamentals of sanitation and hygiene in urban construction of the Novosibirsk region. Dobrinskii, A.A., et al, [1974, 118p., rus] 35-805
Introduced trees in recreation areas of Novosibirsk. Taran, I.V., [1980, p.174-176, rus] 35-2446

—Ob' Bay
Forecasting river diversion effect on thermal regime of the bay. Spitsyn, I.P., et al, [1980, p.84-86, rus] 35-3118
River diversion effect on permafrost conditions of Arctic shores. Popov, B.A., et al, [1980, p.113-117, rus] 35-3127

—Ob' River
Classification of floods and their effects on natural environments and economic development of the Ob' and Ch.ul'm river floodplains. Krasheninnikov, M.V., [1976, p.128-136, rus] 35-1191
Landscape types of the Ob' River floodplain. Kolomiets, G.E., [1980, p.101-110, rus] 35-1338
Research center for the study of river course redirection. Mikheev, V.S., et al, [1979, p.3-16, rus] 35-2321
Hydrology of northern river estuaries after flow diversion. Ivanova, A.A., et al, [1980, p.67-70, rus] 35-3115
Flood wave propagation in Arctic river estuaries. Lysenko, T.A., [1980, p.74-77, rus] 35-3116
Thermal regime of Arctic river estuaries after flow diversion. Kurzhunov, A.N., et al, [1980, p.78-81, rus] 35-3117
Forecasting river diversion effect on thermal regime of the bay. Spitsyn, I.P., et al, [1980, p.84-86, rus] 35-3118
River diversion effect on ice conditions in estuaries. Nalimov, IU.V., et al, [1980, p.87-89, rus] 35-3119
River diversion effect on hydrochemistry of estuarine areas. Rusanov, V.P., [1980, p.90-93, rus] 35-3120
River diversion effect on subarctic sea water ecosystems. Amstislavskii, A.Z., [1980, p.94-96, rus] 35-3121
River diversion effect on local subarctic climatic conditions. Zav'ialova, I.N., et al, [1980, p.97-100, rus] 35-3122

USSR

—Ob' River *(cont.)*

Snow gage accuracy in the Arctic. Briazgin, N.N., et al. (1980, p.101-103, rus) **35-3123**

River diversion effect on meteorological conditions of Arctic landscapes. Kurbatova, A.V., et al. (1980, p.104-106, rus) **35-3124**

Forecasting cryogenic processes in the Ob' River delta. Gogolev, F.S., et al. (1980, p.110-112, rus) **35-3126**

River diversion effect on permafrost conditions of Arctic shores. Popov, B.A., et al. (1980, p.113-117, rus) **35-3127**

Applying system analysis to modeling geomorphologic consequences of river diversion. Mikhankov, R.M., et al. (1980, p.120-123, rus) **35-3129**

Moisture cycles in the lower course of the Ob' River and the Kara Sea and their possible variations due to interzonal redistribution of runoff. Burova, L.P. (1980, p.131-135, rus) **35-3132**

Environmental protection of the lower Ob' river area. Greshnova, E.V., (1980, p.136-137, rus) **35-3134**

Density of taiga stand and the young growth. Kuz'menko, E.I., (1978, p.22-42, rus) **35-3821**

—Onega Bay

Studying separation of Onega Bay from the White Sea. Matranovskii, F.G., (1980, p.28-31, rus) **35-3110**

—Onega River

Studying separation of Onega Bay from the White Sea. Matranovskii, F.G., (1980, p.28-31, rus) **35-3110**

—Pamirs

Faulting and plastic deformation of frozen fines. Ermolin, E.D., (1979, p.42-66, rus) **35-188**

Glacial hydrology of Pamirs. Kemmerikh, A.O., (1980, p.88-94, rus) **35-1922**

Calculating annual precipitation accumulation in glacier basins. Tarasova, L.N., (1980, p.200-203, rus) **35-2832**

Glacial mudflows in Pamirs. Kemmerikh, A.O., (1978, p.307-309, eng) **35-3686**

—Pechora River

Numerical modeling of river diversion problems. Kotrekhov, E.P., (1980, p.17-20, rus) **35-3107**

Ice conditions of the Pechora Sea after river diversion. Potanin, V.A., et al. (1980, p.37-40, rus) **35-3112**

River diversion effect on hydrochemical conditions of the bay waters. Perliuk, M.F., (1980, p.41-44, rus) **35-3113**

—Putorana Mountains

Vertical distribution of plants in the Putorana Mountains. Kuvaev, V.B., (1980, 261p., rus) **35-2051**

Lakes in the northeastern part of the Siberian Platform. Parmuzin, R.P., et al. (1981, 190p., rus) **35-3412**

—Sakhalin Island

Snow surveys for avalanche forecasting. Troshkina, E.S., (1980, p.57-61, rus) **35-879**

Erosion of northern sea shores. Archikov, E.I., et al. (1976, p.50-56, rus) **35-1852**

Shore processes on Sakhalin Island. Nikol'skaia, V.V., (1976, p.64-68, rus) **35-1853**

—Salair Range

Seasonal variations in microbiology of Alpine soils. Naplekova, N.N., (1974, p.153-156, rus) **35-1214**

—Sayan Mountains

Geochemical regimes of mountain soils. Snytko, V.A., et al. (1975, p.44-54, rus) **35-794**

Giant power plant in the Sayan Mountains. Mikhailov, I.P., et al. (1980, 104p., rus) **35-1271**

Non-podsolized forest soils of Tannu-Ola (East Sayan Mountains). Dedkov, V.S., (1979, p.100-118, rus) **35-1790**

Mosci of the Altai-Sayan highlands. Gudoshnikov, S.V., (1981, p.52-60, rus) **35-3893**

High altitude vegetation of Sayan Mountains. Danilov, M.P., (1981, p.119-133, rus) **35-3895**

—Selemdzha River

Cryogenic soils of the Selemdzha River Basin. Ivanov, G.I., et al. (1980, p.44-46, rus) **35-2267**

—Severnaya Zemlya

Subglacial topography of the Vavilov Ice Dome. Bogorodskii, V.V., et al. (1980, p.192-194, rus) **35-2830**

Ice conditions in the Severnaya Zemlya area. Kirillov, A.A., et al. (1980, p.94-100, rus) **35-3499**

Dependence of sea ice conditions on meteorological factors. Kirillov, A.A., et al. (1980, p.101-108, rus) **35-3500**

—Severobaykal'sk

Construction of Severobaykal'sk. Savel'ev, R.V., (1980, p.16-18, rus) **35-2631**

—Siberia

Cenozoic deposits, soils, geocryological and engineering-geological conditions of West Siberia. Popov, A.I., ed. (1980, 256p., rus) **35-279**

Transportation development problems and prospects. Economic development of Siberia and the Far East. Pavlovskii, I.G., (1980, 125p., rus) **35-864**

Influence of water runoff redistribution on the natural conditions of Siberia. Saks, V.N., ed. (1980, 184p., rus) **35-1331**

Changes in taiga due to river flow control. Shirokov, V.M., (1980, p.22-30, rus) **35-1332**

Geographic studies related to the river-channel diversion project. Malik, I.K., (1980, p.47-51, rus) **35-1333**

Geothermal conditions of sedimentary mantle in the Siberian Platform. Slavin, V.I., et al. (1980, p.5-13, rus) **35-1570**

Embankment dams on permafrost in the USSR. Johnson, T.C., et al. (1980, 59p., eng) **35-2005**

Geographic aspects of redirection of river courses in West Siberia. Bachurin, G.V., ed. (1979, 135p., rus) **35-2320**

Effect of river flow control on taiga vegetation. Polushkin, R.V., et al. (1979, p.36-50, rus) **35-2322**

Atmospheric circulation effect on Siberian climate. Sergeev, N.I., (1980, p.31-48, rus) **35-2487**

Pipeline construction cost in West Siberia. Kurbatov, N.I., (1981, p.14-16, rus) **35-2788**

Changes in radiation and heat balance due to human activities. Potapova, L.S., (1980, p.82-90, rus) **35-3051**

Development of agriculture in Siberia and the Far East. Kashtanov, A.N., ed. (1980, 352p., rus) **35-3055**

Far North air temperature and wind velocity variations in winter. Sorokina, I.P., (1980, p.41-51, rus) **35-3415**

Construction of the Trans-Siberian Railroad System. Paul', V.P., (1980, 167p., rus) **35-3548**

—Sibirskiye Uvaly

Permafrost of the Sibirskiye Uvaly swamps. Shamanova, I.I., (1981, p.97-101, rus) **35-4074**

—Sikhote Alin

Modelling snow cover formation. Malnugin, R.F., (1980, p.60-68, rus) **35-1227**

Calculating snow reserves in mountains. Malnugin, R.F., (1980, p.69-73, rus) **35-1228**

Cryogenic processes in Sikhote-Alin. Korotkii, A.M., (1976, p.100-123, rus) **35-1856**

—Stanovoy Mountains

Tundra and taiga soils of Stanovoy Range. Ershov, R.I., (1979, p.112-131, rus) **35-1523**

Soil formation in different Alpine landscapes. Kuz'min, V.A., et al. (1980, p.71-73, rus) **35-2275**

—Syrdakh Lake

Water seepage from Lake Syrdakh. Tishin, M.I., (1980, p.90-97, rus) **35-3998**

—Tannu Ola Range

Age and restoration dynamics of forests in the Ural Mountains and east of the Urals. Kolesnikov, B.P., ed. (1976, 168p., rus) **35-1916**

Genetic classification of mountain forests. Makhonin, A.S., et al. (1976, p.3-91, rus) **35-1917**

—Taymyr Peninsula

Seasonal dynamics of tundra cotton grass. Spodobtseva, N.I., (1980, p.73-84, rus) **35-286**

Classification of tundra and forest tundra soils. Ignatenko, I.V., (1980, p.26-46, rus) **35-1403**

Biomass of tundra swamps. Boch, M.S., (1980, p.47-58, rus) **35-1404**

Fructification of tundra plants. Khodachek, E.A., (1980, p.118-130, rus) **35-1408**

Types of cotton grass in Taymyr tundra. Polozova, T.G., (1980, p.131-144, rus) **35-1409**

Soils of Taymyr Peninsula. Vasil'evskaia, V.D., (1980, p.8-16, rus) **35-1612**

Phytoplankton of the Pyasina River (western Taymyr). Ermolaev, V.I., (1981, p.16-29, rus) **35-3891**

—Taz Peninsula

Ridge-and-valley topography in permafrost areas. Belopukhova, E.B., et al. (1980, p.95-101, rus) **35-3471**

Pleistocene permafrost in the Taz Peninsula. Belopukhova, E.B., (1981, p.92-96, rus) **35-4073**

—Tien Shan

Faulting and plastic deformation of frozen fines. Ermolin, E.D., (1979, p.42-66, rus) **35-188**

Geocryologic altitudinal zonation of northern Tien Shan. Gorbunov, A.P., et al. (1979, p.67-83, rus) **35-189**

Cryogenic slope processes in Tien Shan. Tarakanov, A.G., (1980, p.98-105, rus) **35-953**

Origin of hillocky terrain in permafrost areas. Tarakanov, A.G., (1981, p.48-52, rus) **35-3482**

—Timanskiy Kryazh

History of permafrost development in the Timan-Ural area. Oberman, N.G., (1981, p.60-73, rus) **35-4069**

—Timpton River

Origin of the Timpton springs. Artemenko, I.G., (1980, p.14-21, rus) **35-3990**

—Tomsk

Surface water resources in the Tomsk region. Krasheninnikov, M.V., et al. (1976, p.149-155, rus) **35-1193**

—Transbaikal

Cryogenic processes in Transbaikal steppes. Bazhenova, O.I., (1978, p.106-108, rus) **35-20**

Nivation and nival niches. Syrkin, V.B., (1978, p.152-154, rus) **35-21**

Avalanche formation in Transbaikal. Alekseev, V.R., et al. (1972, p.40-49, rus) **35-761**

Forest-strip method of reclaiming eroded soils. Budaev, Kh.R., ed. (1976, 159p., rus) **35-799**

Land reclamation in Transbaikal. Budaev, Kh.R., (1976, p.10-17, rus) **35-800**

Landscape types in the Muya River Basin. Nefed'eva, L.G., (1980, p.125-139, rus) **35-1631**

Forest fire season in Transbaikal. Lovanov, A.I., et al. (1980, p.49-50, rus) **35-1767**

Biological processes in Transbaikal soils. Kerzhentsev, A.S., (1980, p.100-102, rus) **35-2286**

Thermal regime of cryogenic soils in Transbaikal. Russkikh, A.M., (1980, p.131-132, rus) **35-2297**

Hydrothermal regime of Transbaikal steppes. Mart'ianova, G.N., (1980, p.104-, rus) **35-3419**

Frost shattering of ground in Transbaikal steppes. Bazhenova, O.I., (1980, p.107-115, rus) **35-3473**

Cryogenic processes related to changes in paleogeographic conditions. Gravis, G.F., (1981, p.102-113, rus) **35-4075**

Permafrost dynmaics in Transbaikal. Lakhtina, O.V., et al. (1981, p.133-125, rus) **35-4076**

—Transcaucasia

Snow cover distribution in Transcaucasia. Papinashvili, I.K., (1980, p.72-79, rus) **35-2987**

—Tyumen'

Cost of construction in permafrost areas. Kashlinskii, R.N., (1980, p.21-23, rus) **35-1029**

Pile foundations for northern oil-pumping stations. Chizhevskii, M.V., (1981, p.14-15, rus) **35-3343**

Water resources of Tiumen'. Trofimets, I.N., (1980, p.185-190, rus) **35-3425**

—Udokan Range

Mining problems in seismic permafrost areas. Nikolaev, V.V., et al. (1980, p.191-197, rus) **35-143**

—Ural Mountains

Alpine tundra soils of the northern Urals. Zaboeva, I.V., et al. (1974, p.3-9, rus) **35-687**

Microbiology of taiga soils. Firsova, V.P., et al. (1974, p.147-150, rus) **35-1216**

Taiga landscapes affected by industrial activities. Gal'perin, M.I., (1975, p.11-14, rus) **35-1787**

Age and restoration dynamics of forests in the Ural Mountains and east of the Urals. Kolesnikov, B.P., ed. (1976, 168p., rus) **35-1916**

Taiga vegetation of the northern Ural Mountains. Kostuchenko, I.S., et al. (1976, p.92-103, rus) **35-1918**

Revegetation of burned areas in North Ural taiga. Kirsanov, V.A., (1976, p.104-113, rus) **35-1919**

Physical properties of mountain taiga soils. Zubareva, R.S., et al. (1976, p.114-123, rus) **35-1920**

Glaciation conditions of the Bol'shaya Khadata River Basin. Gokhman, V.V., (1980, p.194-200, rus) **35-2831**

Interrelations between the components of forest and swamp ecosystems in the central taiga of the Ural area. Vasilevich, V.I., ed. (1980, 256p., rus) **35-3863**

Hydrology of permafrost in the Polar Ural Mountains. Oberman, N.G., (1980, p.5-13, rus) **35-3989**

History of permafrost development in the Timan-Ural area. Oberman, N.G., (1981, p.60-73, rus) **35-4069**

Permafrost formation in Ural Mountains. Oberman, N.G., (1981, p.73-78, rus) **35-4070**

—Vasyugan River

Reclamation of paluded lands in permafrost areas. Kulikov, K.N., (1976, p.6-8, rus) **35-1367**

—Vilyuy River

Dynamics of temperature field of the dam of the Vilyuy hydroelectric power plant. Olovin, B.A., et al. (1980, 48p., rus) **35-2049**

—Vorkuta

Origin of loams in Vorkuta tundra. Archegova, I.B., (1980, p.37-39, rus) **35-2265**

—Vorkuta River

Formation of ground water balance in the USSR. Lebedev, A.V., (1980, 287p., rus) **35-345**

—Wrangel Island

Climate and topography of Wrangel Island. Skryl'nik, G.P., (1976, p.20-43, rus) **35-1851**

Cleistogamy in Arctic grasses. Levkovskii, V.P., et al. (1981, p.116-120, rus) **35-3222**

Snow cover of Wrangel Island. Varich, A.A., (1976, p.42-45, rus) **35-3828**

—Yakutia

Karst development in limestones of permafrost zones. Filippov, A.G., et al. (1980, p.942-944, rus) **35-305**

Extending river navigation periods in the North. Protasov, G., (1980, p.5-6, rus) **35-903**

Extending ice navigation on rivers. Ovchinnikov, E., (1980, p.6-7, rus) **35-904**

Thermal and water regimes of Yakutian soils. Savvinov, D.D., (1971, p.118-175, rus) **35-1396**

Exogenic geologic processes and phenomena (Southern Yakutia). Ospennikov, E.N., et al. (1980, 227p., rus) **35-1701**

Forecasting permafrost transformation in areas of economic development. Vturin, B.I., (1980, p.50-57, rus) **35-2190**

Ground ice distribution maps. Ivanov, M.S., (1980, p.58-75, rus) **35-2191**

Permafrost stability and human activities. Kuznetsova, I.L., (1980, p.75-107, rus) **35-2192**

Thermal regime of permafrost in Yakutia. Zaitsev, V.N., (1975, p.99-104, eng) **35-2403**

Correlation of perennially frozen rocks. Kaplina, T.N., et al. (1980, p.74-81, rus) **35-2454**

Introduction of useful plants in Yakutia (collection of papers). Andreev, V.N., ed. (1980, 100p., rus) **35-3048**

Origin of frozen loess (Edoma) formation in Yakutia. Vturin, B., et al. (1980, p.265-271, rus) **35-3232**

Complex geocryological interpretation of space photographs. Deleur, M.S., et al, [1980, p.98-106, rus] 35-3322

Thermal denudation relief forms in northern Yakutia. Fartyshev, A.I., [1980, p.128-132, rus] 35-3327

Ground ice development in East Yakutia. Gordeev, P.P., [1980, p.141-147, rus] 35-3329

Studies of slope processes in northern Yakutian research stations. Sukhodrovskii, V.L., [1980, p.156-160, rus] 35-3332

Cryogenic structure of eluvium in southwestern Yakutia. Spesivtsev, V.I., [1980, p.167-173, rus] 35-3334

Physiological processes in plants of Central Yakutia. Kononov, K.E., [1981, p.39-45, rus] 35-3509

Thermal balance of meadow vegetation and the climate of cryogenic flood-plain soils. Savvinov, D.D., et al, [1981, 176p., rus] 35-3567

Chemical composition of atmospheric precipitation in Yakutia. Anisimova, N.P., et al, [1980, p.30-37, rus] 35-3992

Chemical composition of waters infiltrating seasonally thawing sands. Anisimova, N.P., [1980, p.82-90, rus] 35-3997

Microelement migration in waters of permafrost areas. Makarov, V.N., [1980, p.114-127, rus] 35-4001

Cryogenic processes related to changes in paleogeographic conditions. Gravis, G.F., [1981, p.102-113, rus] 35-4075

Late Cenozoic permafrost of Yakutia. Kaplina, T.N., [1981, p.153-181, rus] 35-4078

—Yakutsk

Topographic map of the Lake Saysar Basin in Yakutsk. Solov'ev, P.A., [1980, p.127-134, rus] 35-2194

Frost heave intensities and thaw depth in northern cities. Solov'ev, P.A., [1980, p.60-63, rus] 35-3316

—Yamal Peninsula

Maps of engineering-geocryologic regionalization of the central Yamal Peninsula. Parmuzin, S.IU., et al, [1980, p.108-127, rus] 35-2193

Biocenotic role of animals in the Yamal forest tundra. Danilov, N.N., ed, [1977, 146p., rus] 35-2866

Yamal Peninsula. Danilova, N.S., et al, [1981, p.84-91, rus] 35-4072

—Yana River

Recent processes which formed the present surface of the Yana-Indigirka Plain. Egorova, G.N., [1976, p.55-65, rus] 35-3830

—Yenisey River

Ice conditions of the Yenisey River. Chernov, I.M., [1980, p.38-44, rus] 35-452

Ice conditions of the Yenisey River. Ershova, L.M., et al, [1977, p.11-14, rus] 35-1291

Vegetation effect on hydrothermal regime of tundra soils. Skriabin, S.Z., et al, [1981, p.82-86, rus] 35-2769

Changes in river ice conditions due to powerplant construction. Bakhtin, N.P., [1980, p.45-46, rus] 35-3114

Snow gage accuracy in the Arctic. Briazgin, N.N., et al, [1980, p.101-103, rus] 35-3123

Diurnal air temperature variations in northern river basins. Sorokina, L.P., [1980, p.51-59, rus] 35-3416

Forecasting ice cover thickness on rivers. Chernov, I.M., [1981, p.21-28, rus] 35-4301

—Yeniseyskiy Kryazh Ridge

Periglacial formation of the Yenisey Ridge. Vorob'ev, I.V., et al, [1975, p.42-48, eng] 35-2400

—Zailiyskiy Alatau

Cryogenic phenomena in Kazakhstan and Central Asia. Gorbunov, A.P., ed, [1979, 145p., rus] 35-185

Large scale mapping of cryogenic phenomena. Severskii, E.V., [1979, p.105-112, rus] 35-192

Periglacial lakes in Zailiyskiy Alatau. Tokmagambetov, G.A., et al, [1980, p.97-101, 165-170, rus] 35-2824

Cryogenic structure of moraines in Zailiyskiy Alatau. Ermolin, E.D., [1980, p.147-153, rus] 35-3330

Structure and strength of snow cover on mountain slopes. Kondrashov, I.V., [1980, p.85-88, rus] 35-3578

—Zeya River

Classification of taiga soils for construction and agriculture. Grishin, I.A., et al, [1979, p.95-111, rus] 35-1522

Utilities

Heat transfer between utility lines and frozen ground. Bondarev, E.A., et al, [1979, p.62-70, rus] 35-235

Pipe laying in swamps. Kuzovlev, G.M., [1980, p.15-16, rus] 35-920

Utilities delivery in northern regions. [1980, 542p., eng] 35-2107

Water and sanitation policy in the N.W.T., Canada. Christensen, V., [1980, p.9-18, eng] 35-2108

Programming design and construction of utilities in Greenland. Rosendahl, G.P., [1980, p.19-43, eng] 35-2109

Water and energy conservation alternatives for the North. Cameron, J.J., et al, [1980, p.47-88, eng] 35-2110

Wind power generation for sanitation services in the North. Crawford, M.A., et al, [1980, p.89-104, eng] 35-2111

Technology for water supply and sanitation in northern communities. McGarry, M.G., et al, [1980, p.121-135, eng] 35-2113

Studies of utility construction in cold regions. Fielding, M.B., [1980, p.136-139, eng] 35-2114

Township of Temagami: one alternative for servicing a northern community. Cooper, B.J., [1980, p.140-149, eng] 35-2115

Insulated shallow buried pipe systems in the N.W.T., Canada. James, F.W., [1980, p.150-186, eng] 35-2116

Pre-insulated high density polyethylene piping in cold regions. Whyman, A.D., [1980, p.187-220, eng] 35-2117

Fire protection considerations in remote, cold regions communities. Ryan, W.L., [1980, p.230-233, eng] 35-2119

Sanitation facilities operation and maintenance in Alaskan villages. Rogness, D.R., [1980, p.239-247, eng] 35-2121

Operation, maintenance and management of sanitation facilities in the North. Sargent, J.W., [1980, p.248-259, eng] 35-2122

Electric heating for freeze protection of water systems. Tracey, R.W., [1980, p.263-287, eng] 35-2123

Electric heat tracing and energy conservation for northern installations. Johnson, B.C., et al, [1980, p.288-309, eng] 35-2124

Thawing of frozen water services. Currey, R., [1980, p.310-313, eng] 35-2125

Use of a geothermal model in northern municipal projects. Kent, D., et al, [1980, p.317-331, eng] 35-2126

Water distribution pipe networks for arctic settlements. James, W., et al, [1980, p.347-366, eng] 35-2128

Water supply system for the world's most northerly permanent community. Chong, T.M.Y., et al, [1980, p.367-393, eng] 35-2129

Snow-modelling techniques at Baker Lake, N.W.T. Adam, K.M., et al, [1980, p.394-408, eng] 35-2130

Large scale development of remote housing in subarctic areas. Robertson, W.A., et al, [1980, p.426-438, eng] 35-2132

Rural schools prototype analysis in cold regions. Livingston, T.W., et al, [1980, p.439-474, eng] 35-2133

Modified low-pressure communal sewage disposal systems. McAmmond, K.W., [1980, p.477-483, eng] 35-2134

Water and sewer utilities for Barrow, Alaska. Leman, L.D., [1980, p.484-506, eng] 35-2135

New approaches to water and sewer services in permafrost area: Norman Wells, N.W.T. Irwin, W.W., [1980, p.507-542, eng] 35-2136

Community planning considerations in cold regions. Ryan, W.L., [1981, p.54-63, eng] 35-2499

Advanced northern utility piping system. Fiala, T., et al, [1981, p.425-437, eng] 35-2516

Dawson City water and sewerage program: an overview. Shillington, E.I., et al, [1981, p.544-554, eng] 35-2523

Human settlements in the Arctic. [1980, 125p., eng] 35-2927

Valleys

Periglacial phenomena in the Chaglinka River valley. Meshchikhin, D.A., [1979, p.131-140, rus] 35-195

Radiation regime of southern taiga. Grigor'ev, G.N., [1980, p.49-109, rus] 35-2488

Vapor diffusion

Thermodynamics of snow metamorphism due to variations in curvature. Colbeck, S.C., [1980, p.291-301, eng] 35-2372

Ice crystals grown from the water vapor phase. Gonda, T., et al, [1981, p.60-63, eng] 35-3520

Vapor pressure

Glaciological studies in Tsurugisawa (ablation and climate). Moribayashi, S., et al, [1980, p.1-28, jap] 35-1064

Vegetation

Snow in the biotic environment. Moffatt, D., [1980, p.163-168, eng] 35-48

Spilled oil retention potential: Beaufort Sea coast of Alaska. Nummedal, D., et al, [1979, p.247-253, eng] 35-174

Tussock-forming sedge in tundra swamps. Egorova, A.A., [1980, p.44-65, rus] 35-284

Micromycete fungi of northeastern Yakutia, Pt.I. Shkarupa, A.G., [1980, p.105-123, rus] 35-289

Bushy lichens of tundra. Rykova, IU.V., [1980, p.124-139, rus] 35-290

Grazing effect on tundra lichens. Andreev, V.N., [1980, p.201-205, rus] 35-294

Classification of Arctic vegetation. Aleksandrova, V.D., [1979, p.1715-1730, rus] 35-341

Consequences for Iceland and Europe of the Arctic cooling trend. Schunke, E., [1979, p.282-291, eng] 35-357

Peat deposits in forest tundra swamps. Turkina, O.S., [1980, p.67-71, rus] 35-500

Environmental impact of highway deicing. Blackman, L., [1980, 62p. + tables, swe] 35-570

Moisture dynamics of taiga soils. Sazonov, A.G., [1973, p.55-62, rus] 35-763

Geobotanical maps of West Siberian Plain. Il'ina, I.S., [1975, p.19-25, rus] 35-793

Leaf ultraviolet optical properties in the arctic-alpine life zone. Robberecht, R., et al, [1980, p.612-617, eng] 35-829

Vegetation of Siberia and the Far East; a current bibliography. [1980, 2 volumes, rus] 35-855

Vegetation of Siberia and the Far East; a current bibliography. [1979, 2 volumes, rus] 35-856

Vegetation of Siberia and the Far East, a current bibliography. [1980, 97p., rus] 35-857

Effects of fire in Alaska and adjacent Canada: a literature review. Viereck, L.A., et al, [1980, 124p., eng] 35-891

Control of recoverable natural resources of the Far North, USSR. Gel'berg, M.G., et al, [1980, 45p., eng] 35-979

Nutritional ecology of microtine rodents: digestibility of forage. Batzli, G.O., et al, [1979, p.740-750, eng] 35-989

Grazing effect on tundra vegetation. Polezhaev, A.N., [1980, p.5-13, rus] 35-1036

Environmental impact of tracked vehicles in tundra. Sparrow, S.D., et al, [1978, p.20-27, eng] 35-1162

Lake effect on North Baykal shore forests. Vykhristiuk, M.M., [1980, 215p., rus] 35-1372

Classification of taiga forests. Shcherbakov, I.P., [1971, p.3-33, rus] 35-1391

Biogeocenoses of the Taymyr Tundra. Tomilin, B.A., ed, [1989, 256p., rus] 35-1401

Research projects of the *Tareia* station in Taymyr tundra. Tomilin, B.A., [1980, p.3-25, rus] 35-1402

Seasonal development of tundra plants. Deeva, N.M., [1980, p.59-96, rus] 35-1405

Pollination of tundra plants (West Taymyr). Khodachek, E.A., [1980, p.105-117, rus] 35-1407

Fructification of tundra plants. Khodachek, E.A., [1980, p.118-130, rus] 35-1408

Fungi of Taymyr tundra. Stepanova, I.V., et al, [1980, p.165-192, rus] 35-1411

Organic matter decomposition in moss tundras. Parinkina, O.M., [1980, p.234-248, rus] 35-1412

Larch in taiga and forest tundra of Siberia. Il'ina, I.S., [1980, p.28-44, rus] 35-1426

Water retaining role of northern swamps. Prozorov, IU.S., [1980, p.128-133, rus] 35-1445

Maps for protection of northern vegetation. Karpenko, A.S., et al, [1980, p.1192-1202, rus] 35-1534

Geographic distribution of vascular plants in tundra. IUrtsev, B.A., et al, [1970, p.111-122, rus] 35-1613

Vascular plant distribution in tundra. IUrtsev, B.A., et al, [1979, p.74-83, rus] 35-1614

Mesophyte relict flora in northeastern tundras. Khokhriakov, A.P., [1979, p.84-96, rus] 35-1615

Seed production, dispersal and germination of alpine vegetation. Marchand, P.J., et al, [1980, p.137-146, eng] 35-1658

Germination in Barrow, Alaska, tundra soil cores. Leck, M.A., [1980, p.343-348, eng] 35-1669

Responses of Arctic tundra to intensive muskox grazing. McKendrick, J.D., [1981, p.49-55, eng] 35-1694

Studies in ecology and environmental protection in East Siberia. Kozhova, O.M., [1980, p.96-104, rus] 35-1706

Mapping vegetational resources of permafrost areas. Geleta, I.F., et al, [1980, p.114-124, rus] 35-1707

Environment of the Alaskan Haul Road. Brown, J., [1980, p.3-52, eng] 35-1769

Road dust along the Haul Road, Alaska. Everett, K.R., [1980, p.101-128, eng] 35-1771

Low temperature stress in crop plants, the role of the membrane. [1979, 565p., eng] 35-1849

Boreal ecosystem. Larsen, J.A., [1980, 500p., eng] 35-1913

Taiga vegetation of the northern Ural Mountains. Kostiuchenko, I.S., et al, [1976, p.92-103, rus] 35-1918

Coastal tundra at Barrow. Brown, J., et al, [1980, p.1-29, eng] 35-1930

Tundra vegetation: pattern and succession. Webber, P.J., et al, [1980, p.187-218, eng] 35-1935

Crude oil spills on subarctic permafrost in interior Alaska. Johnson, L.A., et al, [1980, 67p., eng] 35-2001

Geobotanical atlas of the Prudhoe Bay region, Alaska. Walker, D.A., et al, [1980, 69p., eng] 35-2150

Thermal regime of cryogenic soils in Transbaikal. Russkikh, A.M., [1980, p.131-132, rus] 35-2297

Biologic productivity and nutrient cycles of cryogenic soils. Gershevich, E.G., [1980, p.183-186, rus] 35-2312

Vegetation and forest dynamics of the upper Dietrich River Valley, Alaska. Densmore, D., [1980, p.183p., eng] 35-2408

1977 tundra fire at Kokolik River, Alaska. Hall, D.K., et al, [1978, 11p., eng] 35-2591

Interaction of tundra vegetation and thermal cracking in hummocks. Barrett, P., [1979, p.70-79, ger] 35-2646

Tundra and analogous soils. Everett, K.R., et al, [1981, p.139-179, eng] 35-2705

Soil and bedrock as reflected in Arctic vegetation. Paarma, H., et al, [1977, p.25-29, eng] 35-2721

Development of creeping plants in the Arctic. Mazurenko, M.T., [1981, p.27-32, rus] 35-2768

Vegetation features in the N.W.T., Canada. Johnson, E.A., [1981, p.200-215, eng] 35-2800

Late-glacial floras in eastern China. Kong, Z., et al, [1980, p.29-32, chi] 35-2915

Deicing salts and growth of trees and shrubs along roads. Buschena, C., et al, [1980, 31p., eng] 35-2942

Mycorhiza fungi and mycorhizae of forest-forming species in the North. Shubin, V.I., ed, [1980, 185p., rus] 35-3054

Seed germination in some polar plants. Skitkina, A.A., [1980, p.3-9, rus] 35-3063

Vegetation *(cont.)*

Vegetation of Alpine tundra. Andreeva, V. N., (1980, p.40-49, rus) **35-3066**

Protection of Alpine tundra vegetation. Kostina, V. A., (1980, p.67-71, rus) **35-3068**

Tundra vegetation on the White Sea islands. Breshna, I.P., (1980, p.72-83, rus) **35-3069**

New data on the Chuna Tundra vegetation. Syroid, N.A., (1980, p.83-86, rus) **35-3070**

Epilithophyte lichens of Alpine tundras. Antonova, I.M., (1980, p.87-95, rus) **35-3071**

List of tundra plants in the Murmansk area. Kostolomov, M.N., et al. (1980, p.108-117, rus) **35-3073**

Weeds growing on Arctic shores. Shilakova, E.V., (1980, p.117-131, rus) **35-3074**

Mudboil pattern disruption due to airstrip construction at North Henik Lake. Eggington, P.A., (1981, p.299-303, eng) **35-3087**

Palsa bogs, sand dunes and salt marshes, environmentally sensitive habitats in the coastal region southeastern Labrador. Roberts, B.A., et al. (1980, p.245-263, eng) **35-3096**

Two low Arctic vegetation maps near Atkasook, Alaska. Komarkova, V., et al. (1980, p.447-472, eng) **35-3199**

Tundra vegetation in relation to microtopography near Atkasook, Alaska. Peterson, K.M., et al. (1980, p.473-482, eng) **35-3200**

Nutritional ecology of microtine rodents in tundra, Alaska. Batzli, G.O., et al. (1980, p.483-499, eng) **35-3201**

Ecology of ground squirrels near Atkasook, Alaska. Batzli, G.O., et al. (1980, p.501-510, eng) **35-3202**

Forage consumption by reindeer and caribou near Atkasook, Alaska. White, R.G., et al. (1980, p.511-529, eng) **35-3203**

Growth and physiological responses of tundra plants to defoliation. Archer, S., et al. (1980, p.531-552, eng) **35-3204**

Nutrient allocation and responses to defoliation in tundra plants. Chapin, F.S., III. (1980, p.553-563, eng) **35-3205**

Plant-eating animals and fertilization of tundra soils. McKendrick, J.D., et al. (1980, p.565-578, eng) **35-3206**

Tundra ecosystems: a comparative analysis. Bliss, L.C., ed. (1981, 813p., eng) **35-3373**

North American and Scandinavian tundras and polar deserts. Bliss, L.C., (1981, p.8-24, eng) **35-3374**

Multivariate comparisons of IBP Tundra Biome site characteristics. French, D.D., (1981, p.47-75, eng) **35-3376**

Phytomass and primary production of tundra communities, USSR. Tikhomirov, B.V., et al. (1981, p.227-238, eng) **35-3381**

Life cycles, population dynamics and the growth of tundra plants. Callaghan, T.V., et al. (1981, p.257-284, eng) **35-3383**

Herbivory: a strategy of tundra consumers. Batzli, G.O., et al. (1981, p.359-375, eng) **35-3385**

Populations and energetics of small mammals in the tundra ecosystem. Batzli, G.O., (1981, p.377-396, eng) **35-3386**

Invertebrate herbivory at tundra sites. Haukioja, E., (1981, p.547-555, eng) **35-3391**

Ecosystem synthesis: a "fairytale". Bunnell, F.L., (1981, p.637-646, eng) **35-3394**

Carbon flux in tundra by using simulation models. Bunnell, F.L., et al. (1981, p.685-715, eng) **35-3396**

Influence of man on tundra vegetation. Andreev, V.N., (1981, p.747-750, eng) **35-3398**

Point Barrow, Alaska, USA. Brown, J., (1981, p.775-776, eng) **35-3400**

Eagle Summit, Alaska, USA. Anderson, J.H., et al. (1981, p.779-780, eng) **35-3402**

Niwot Ridge, Colorado, USA. Webber, P.J., (1981, p.780-782, eng) **35-3403**

Microwave remote sensing of earth terrain (snow, ice, vegetation). Zuniga, M.Z., et al. (1981, p.691-695, eng) **35-3444**

Changes in terminology of tundra vegetation. Il'Ertsev, B.A., et al. (1980, p.99-106, rus) **35-3459**

Vegetation along the gas pipeline route, Yukon Territory. Stanek, W., (1980, 47p., eng) **35-3486**

Seasonal growth and accumulation of N, P, and K by grass irrigated with wastes. Palazzo, A.J., (1981, p.64-68, eng) **35-3515**

Energy exchange at the surface of the alpine tundra. Skartveit, A., (1976, 147p., eng) **35-3522**

Compiling a medium-scale vegetation map of the northern Baykal area from space survey data. Belov, A.V., (1980, p.97-102, rus) **35-3543**

Proposed ecological natural landmarks in the Brooks Range, Alaska. Bliss, L.C., et al. (1981, 175p., eng) **35-3554**

Alpine vegetation of the Indian Peaks area, Colorado. Komarkova, V., (1979, 591p. + figs. + maps, eng) **35-3604**

Radiocarbon date list 1: Labrador and northern Quebec, Canada. Short, S.K., comp. (1981, 33p., eng) **35-3681**

Surge moraines of the Klutlan Glacier, Yukon Territory, Canada. Wright, H.E., Jr., (1980, p.2-18, eng) **35-3714**

Vegetation on moraines of the Klutlan Glacier, Canada. Birks, H.J.B., (1980, p.60-86, eng) **35-3718**

Pollen and vegetation of moraines of the Klutlan Glacier area, Canada. Birks, H.J.B., (1980, p.101-129, eng) **35-3720**

Resemblances and differences in vegetation of the Alps and Caucasus. Grebenshchikov, O.S., et al. (1981, p.333-352, fre) **35-3743**

Handbook of snow: principles, processes, management and use. Gray, D.M., ed. (1981, 776p., eng) **35-3745**

Snow and living things. McKay, G.A., et al. (1981, p.3-31, eng) **35-3746**

Alpine vegetation in the Indian Peaks area, Colorado Rocky Mts. Komarkova, V., (1980, p.149-163, eng) **35-3767**

Regularities governing the formation of elementary geosystems (the central taiga structures of Sos'vinskoe Pripolie as an example). Mikheev, V.S., ed. (1978, 124p., rus) **35-3819**

Elementary structures of taiga geosystems. Mikheev, V.S., (1978, p.42-69, rus) **35-3822**

Interrelations between the components of forest and swamp ecosystems in the central taiga of the Ural area. Vasilevich, V.I., ed. (1980, 256p., rus) **35-3863**

Environmental studies in the central Quebec Labrador peninsula. Moore, T.R., ed. (1981, 141p., eng) **35-3975**

Shoreline vegetation of the arctic Alaska coast. Taylor, R.J., (1981, p.37-42, eng) **35-4049**

Tundra fire effects on soils and plants in the Seward Peninsula. Racine, C.H., (1981, p.71-84, eng) **35-4054**

Growth and phosphate absorption in tundra plants. Chapin, F.S., III. (1981, p.83-94, eng) **35-4086**

Vegetation of Alaskan arctic slope. Walker, D.A., et al. (1981, p.153-172, eng) **35-4089**

Transport and deposition of leaves and seeds on tundra. Glaser, P.H., (1981, p.173-182, eng) **35-4090**

Plant water relations in Alaskan arctic tundra. Oberbauer, S., et al. (1981, p.205-218, eng) **35-4093**

Flora of Svalbard. Rønning, O.I., (1979, 128p., nor) **35-4210**

Altitudinal variations of tundra biomass. Ignatenko, I.V., et al. (1979, p.5-15, rus) **35-4324**

Biomass of Alaskan black spruce forests. Van Cleve, K., (1979, p.28-36, rus) **35-4326**

Plants growing in Alpine tundra. Khokhriakov, A.P., (1980, p.78-92, rus) **35-4337**

Alpine tundra vegetation in the Bol'shoy Annachag Range. Dokuchaeva, V.B., (1980, p.93-109, rus) **35-4338**

Vegetation factors

Snowcover variation with vegetation type in the Peterborough area. Paul, P., et al. (1980, p.23-35, eng) **35-37**

Vegetation in relation to snowfall in a forested watershed. Mathers, T.J., (1980, p.36-50, eng) **35-38**

Relationship of snow depth, water equivalent and density. Outerbridge, K., (1980, p.51-61, eng) **35-39**

Snow depth distribution around spruce trees in the Chamonix Valley, France. Roulet, N.T., (1980, p.62-67, eng) **35-40**

Methodologies for the study of snow phenomena. (1979, 153p., ita) **35-947**

Vegetation disturbance on solifluction slopes. Sukhodrovskii, V.L., (1980, p.36-42, rus) **35-2188**

Moss cover effect on soil temperature. Buzykin, A.I., (1980, p.141-143, rus) **35-2300**

Snow cover distribution in the St. John River basin. Troen, N.B.A., et al. (1980, p.19-35, eng) **35-3144**

Heat and water balance in western Siberia. Zhukov, V.M., (1981, p.55-67, rus) **35-3969**

Vegetation patterns

Vegetation adaptations for Arctic survival. Davids, R., (1980, p.56-63, eng) **35-248**

Vegetation and soils of subarctic tundra. Andreev, V.N., ed. (1980, 209p., rus) **35-282**

Determining strength of peat soils from aerial photographs. Pirogov, A.G., et al. (1980, p.4-6, rus) **35-620**

Large scale map of taiga vegetation. Medvedev, I.O., (1971, p.47-57, rus) **35-758**

Forest strip effect on snow distribution. Savin, E.N., ed. (1978, 96p., rus) **35-1091**

Development of tree roots in cryogenic saline soils. Lamin, L.A., (1978, p.23-33, rus) **35-1094**

Growth and biomass of Siberian larch in forest strips. Popov, V.P., (1978, p.33-44, rus) **35-1095**

Forest strip composition and patterns in Siberian steppes. Popova, O.S., (1978, p.44-47, rus) **35-1096**

Forest strip effect on snow cover distribution. Polezhaeva, Z.N., et al. (1978, p.76-83, rus) **35-1099**

Seasonal movement of nutrients in tundra plants. Chapin, F.S., III, et al. (1980, p.189-209, eng) **35-1169**

Types of vegetational cover in the Far North. Norin, B.N., (1980, p.1531-1542, rus) **35-3216**

Cryogenic relief features and vegetation in Arctic islands. Matveeva, N.V., (1980, p.1543-1559, rus) **35-3217**

Flora of subarctic landscapes of Yakutia. Andreev, V.N., et al. (1980, p.1560-1568, rus) **35-3218**

Vegetation distribution in Chukotskiy Peninsula tundras. Balandin, S.A., et al. (1980, p.1719-1733, rus) **35-3219**

Lichens of Arctic landscapes. Andreev, M.P., (1981, p.31-41, rus) **35-3221**

Vegetation, substrate and topography in interior Alaska. Neiland, B.J., (1975, 61p. + 3 appends., eng) **35-3683**

Alpine tundras of the Bol'shoy Annachag Range (upper course of the Kolyma River). Berman, D.I., ed. (1980, 178p., rus) **35-4332**

Landscape structure of the Sibit-Tyellakh River basin. Egorova, G.N., (1980, p.32-53, rus) **35-4334**

Vehicle wheels

Rolling resistance of aircraft wheels in dry snow. Kihlgren, B., (1977, 22p. + tables, swe) **35-702**

Vehicles

Guide for operating cats and light trucks on a floating ice sheet. Johnson, P., (1980, 29p., eng) **35-2012**

Rubber-ice friction and vehicle handling. Roberts, A.D. (1981, p.14-16, eng) **35-3920**

Corrosive effects of deicing salts on automobiles. Palmer, J.D., (1971, p.38-43, eng) **35-4322**

Velocity

Breaking ice with gravity waves. Bates, H.F., et al. (1980, p.148-153, eng) **35-1108**

Movement rate of solifluction lobes in the Yukon Territory. Alexander, C.S., et al. (1980, p.365-379, eng) **35-1129**

Measurements of restitution coefficients of ice. Araoka, K., et al. (1978, p.55-65, jap) **35-1175**

Formation and properties of fluidized snow. Maeno, N., et al. (1978, p.77-92, jap) **35-1177**

Limiting mechanisms of dislocation motion in ice. Lee, S., (1979, 118p., eng) **35-1186**

Deflection of a floating ice sheet subjected to a moving load, Pt.2. Takizawa, T., (1978, p.69-78, jap) **35-1542**

Inertial period motions of drifting sea ice. Ono, N., (1978, p.107-113, jap) **35-1546**

Measurement of the shear stress on the underside of simulated ice covers. Calkins, D.J., et al. (1980, 11p., eng) **35-1723**

Comparison of observed and calculated avalanche velocities. LaChapelle, E.R., et al. (1980, p.309-314, eng) **35-1824**

Hull resistance test in floe of sy[illegible] ice. (1980, p.1-6, jap) **35-1963**

Melting of a vertical ice wall by free convection into fresh water. Wilson, N.W., et al. (1981, p.13-17, eng) **35-2147**

On the statistical investigation of fall velocity of snowflakes. Sasyo, Y., et al. (1980, p.61-79, eng) **35-2155**

Movement of an ice-cored rock glacier, near Tungsten, N.W.T. Jackson, L.E., Jr., et al. (1980, p.842-847, eng) **35-2175**

Rapid-sequence stereophotogrammetry of avalanches. (1980, 4p., fre) **35-2337**

Symposium on snow in motion. (1980, 527p., eng) **35-2342**

Calculations of avalanche friction coefficients from field data. Martinelli, M., Jr., et al. (1980, p.109-119, eng) **35-2354**

Run-out distance of avalanches and friction coefficients. Buser, O., et al. (1980, p.121-130, eng) **35-2355**

Modeling of snow flow. Dent, J.D., et al. (1980, p.131-140, eng) **35-2356**

Study on high-speed avalanches in the Kurobe Canyon, Japan. Shimizu, H., et al. (1980, p.141-151, eng) **35-2357**

Fragment-flow model of dry-snow avalanches. Mears, A.I., (1980, p.153-163, eng) **35-2358**

Energy-line method in the mechanics of avalanches. Korner, H.J., (1980, p.501-505, eng) **35-2391**

Survey of speed of movement of the glacier in the K'o-la-kun-lun Mountain region. Sun, T., (1979, p.33-38, chi) **35-2900**

Theoretical studies on motion of snow kicked up by a snowplow. Yoshida, Z., (1980, 36p., eng) **35-3709**

Stress and velocity in an ice strip, using a Newtonian viscous approximation. Hutter, K., et al. (1980, p.385-403, eng) **35-3811**

Doppler radar spectrum of ice particle fallspeeds. Passarelli, R.E., Jr., et al. (1980, p.1318-1322, eng) **35-3866**

Economics of ice navigation in the northern Gulf of Bothnia. Johansson, B.M., (1977, 8p. + appens., eng) **35-4177**

Velocity measurement

Ice flow in the bare ice area near the Allan Hills. Nishio, F., et al. (1980, p.1-13, eng) **35-2964**

Currents in the northwestern Pacific Ocean. Khlopov, V.V., et al. (1979, p.184-193, rus) **35-4200**

Ventilation

Timbering, maintenance and preservation of mining excavations. Gritsko, G.I., ed. (1979, 114p., rus) **35-196**

Mining techniques in the North. Avksent'ev, I.V., et al. (1979, p.106-108, rus) **35-200**

Mine shaft excavation in permafrost areas. Shchukin, V.P., et al. (1980, p.143-145, rus) **35-304**

Stability of mining excavations in permafrost. Sherston, V.A., et al. (1980, 56p., rus) **35-1283**

Heat and ventilation for houses in north Russia. Liber, I.S., (1980, 191p., rus) **35-1576**

Heat and mass transfer in massive rocks and in underground structures. Kremnev, O.A., et al. (1980, 383p., rus) **35-2874**

Very low frequencies
Conduction and the transfer function of cold wires at VLF. Lecordier, J.C., et al, (1981, p.103-114, fre) 35-3626

Vibration
Breaking ice with gravity waves. Bates, H.F., et al, (1980, p.148-153, eng) 35-1108
Discussions of paper on excessive propeller shaft vibration in icebreakers (1980, p.?-83, 100-110, eng) 35-1383
Clay slope stability under vibrodynamic loads. Prokudin, I.V., (1980, p.37-39, rus) 35-1529
Longitudinal stiffness analyses for the propulsion shafting systems of the polar class icebreakers. Vassilopoulos, L., et al, (1921, p.179-195, eng) 35-3561

Viscoelasticity
Constitutive laws for ice. Morland, L.W., (1979, p.101-108, eng) 35-696
Viscoelastic analysis of calving glaciers. Reddy, D.V., et al, (1980, p.37-41, eng) 35-2203
Viscoelastic constitutive laws for ice. Morland, L.W., et al, (1980, 56p., eng) 35-3076
Acoustic emission and deformation response of finite ice plates. Xirouchakis, P.C., et al, (1981, p.123-133, eng) 35-3448

Viscosity
Viscosity and low temperature fracture strain in asphalt mixtures. Ruth, B.E., et al, (1979, p.221-237, eng) 35-332
Viscosity and heat transfer of fluidized snow. Nishimura, K., et al, (1978, p.93-102, jap) 35-1178
Determining ice viscosity under field conditions. Kozitskii, I.E., (1980, p.107-109, rus) 35-1595
Mechanical properties of snow: treatment as a Burgers body. Navarre, J.P., et al, (1977, 31p., fre) 35-1885
Viscosity and heat transfer in fluidized snow. Maeno, N., et al, (1980, p.263-274, eng) 35-2369
Heat Transfer. San Diego, 1979. (1979, 315p., eng) 35-3347
Ice structure in a pipe at or near transition Reynold numbers. Gilpin, R.R., (1979, p.89-94, eng) 35-3351
Convection in a porous layer for a temperature dependent viscosity. Blythe, P.A., et al, (1981, p.497-506, eng) 35-3519

Visibility
Light attenuation and visibility in drifting snow. Takeuchi, M., et al, (1976, p.165-170, jap) 35-258
Forecasting visibility in snowfalls. Zenkevich, D.I., (1980, p.11-17, rus) 35-1359
Aids for improving vision in white-out. Schlichting, C.L., et al, (1980, 23p., eng) 35-1416
Ice fog suppression in Arctic communities. McFadden, T., (1980, p.54-65, eng) 35-1971
Intensity fluctuations of a laser beam in falling snow. Zhukov, A.F., et al, (1980, p.103-107, eng) 35-4159

Volcanic ash
Recent glacier variations and volcanic eruptions. Porter, S.C., (1981, p.139-142, eng) 35-3366

Volcanoes
Glacial lithogenesis under conditions of active volcanism. Geptner, A.R., (1980, p.136-146, rus) 35-810
Volcano-ice interactions on Mars. Allen, C.C., (1979, p.8048-8059, eng) 35-1102
Acidity of polar ice cores. Hammer, C.U., (1980, p.359-372, eng) 35-1500
Glacial mudflows produced by volcanic activity. Balabaev, F.G., et al, (1980, p.42-48, rus) 35-1805
Environmental assessment of the Alaskan continental shelf. Vol 4. Hazards. (1981, 677p., eng) 35-3255

Volume
Molar volume of NaCl in an H2O-D2O mixture at different temperatures. Dutta-Choudhury, M.K., et al, (1980, p.2735-2740, eng) 35-995

Walls
Mining in permafrost areas. Tiunin, V.P., (1979, p.62-64, rus) 35-197
Timbering used in mines of permafrost areas. Plesnivtsev, V.V., (1979, p.64-67, rus) 35-198
Mining excavations in permafrost areas. Avksent'ev, I.V., et al, (1979, p.105-106, rus) 35-199
Heat and mass transfer in cellular plastics. Nikitina, L.M., et al, (1979, p.106-109, rus) 35-240
Steam permeability of concretes and bricks. Shamaeva, A.P., et al, (1979, p.110-113, rus) 35-241
Foam plastic thermal insulation for walls. Timoshenko, A.T., (1979, p.114-119, rus) 35-242
Frost resistance of ceramic wall materials. Kuz'min, I.D., et al, (1980, p.22-23, rus) 35-348
External walls of buildings erected on permafrost. Zlatinskaia, T.V., (1980, p.20-22, rus) 35-460
Sand-concrete panels for building partitions. Isaenko, A.G., et al, (1980, p.19-21, rus) 35-502
Improving watertightness of large panel buildings. Omel'chenko, A.A., et al, (1980, 95p., rus) 35-1575
Using lightweight concretes in cold regions. Rogatin, IU.A., et al, (1980, p.37-38, rus) 35-1653
Frost weathering of cellular concrete. Aleksandrovskii, S.V., et al, (1980, p.41-42, rus) 35-1654
Instructions for designing walls and water resistant screens. (1976, 33p., rus) 35-1714
Manual for earthquake-resistant brick buildings. (1976, 32p., rus) 35-1716
Wall-in-the-ground method of building foundations and structures. Smorodinov, M.I., et al, (1976, 129p., rus) 35-1718
Determining the coefficient of nonstationary heat transfer. Shkurko, B.F., et al, (1981, p.46-47, rus) 35-2083
Panel joint structures for cold regions. Cheremisov, K.M., et al, (1980, p.68-70, rus) 35-2102
Measuring building R-values for large areas. Flanders, S.N., et al, (1981, p.137-138, eng) 35-2463
Stackwall: small log buildings for remote areas. Sparling, A.B., et al, (1981, p.333-347, eng) 35-2512
Providing thermal stability for mobile houses. Kazantsev, I.A., (1980, p.18-19, rus) 35-2624
Earth pressure on retaining wall built on frozen ground. Novikov, F.IA., (1981, p.146-152, eng) 35-2841
Multi-story stone buildings in the North. Kalinin, M.S., et al, (1980, 153p., rus) 35-2882
Resistance of concrete walls to high concentrated ice loads. Gerwick, B.C., et al, (1981, p.425-436, eng) 35-3450
Economic effectiveness of optimizing the amount of thermal insulation of buildings. Boguslavskii, L.D., (1981, 102p., rus) 35-3965
Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, F.V., ed, (1979, 133p., rus) 35-4055
Thermal and physical properties of cellular concrete enclosures. Tachkova, N.A., et al, (1979, p.72-76, rus) 35-4058
Turbulent heat transfer at vertical surfaces. Savin, V.K., (1979, p.87-94, rus) 35-4061
Equipment for measuring thermal conductivity of enclosures. Khomutov, A.F., (1979, p.118-119, rus) 35-4063
Measuring heat flux through enclosures. Gerashchenko, O.A., et al, (1979, p.127-131, rus) 35-4064

Waste disposal
Dynamics of NH4 and NO3 in cropped soils irrigated with wastewater. Iskandar, I.K., et al, (1980, 20p., eng) 35-872
Effects of alpine reservoirs on the environment. (1980, 12 papers, ger) 35-897
Port Valdez environmental studies 1976-1978. Colonell, J.M., (1980, p.907-917, eng) 35-985
Land application of sludge. Johnson, R.A., et al, (1981, p.8-9, eng) 35-1692
Water and energy conservation alternatives for the North. Cameron, J.J., et al, (1980, p.47-88, eng) 35-2110
Waste heat utilization through soil heating. McFadden, T., et al, (1980, p.105-120, eng) 35-2112
Waste drilling fluid disposal on tundra. French, H.M., (1980, p.794-806, eng) 35-2173
Regionalization of the Non-chernozem zone. Panov, E.P., et al, (1980, 231p., rus) 35-2439
Land disposal: state of the art. Reed, S.C., (1973, p.229-261, eng) 35-2469
Dry ash handling system in cold climate conditions. Rafay, T., et al, (1981, p.493-506, eng) 35-2520
Methane productions in sanitary landfills in cold regions. Dickason, O.E., et al, (1981, p.507-511, eng) 35-2521
Municipal sludge management: environmental factors. Reed, S.C., ed, (1977, Var. p., eng) 35-2715
Land treatment systems and the environment. McKim, H.L., et al, (1979, p.201-225, eng) 35-2752
Seminar on Effluent Irrigation under Prairie Conditions, 1979. (1979, var.p., eng) 35-2793
Effectiveness of land application for P removal from waste water. Iskandar, I.K., et al, (1980, p.616-621, eng) 35-3705
Recovery of a stream from iron ore activities, Schefferville area. Dubreuil, M.A., (1981, p.39-55, eng) 35-3978
Treatment and disposal system of waste materials at Mizuho Station. Hayashida, S., et al, (1981, p.49-60, jap) 35-4174

Waste treatment
Soil infiltration on land treatment sites. Abele, G., et al, (1980, 41p., eng) 35-1726
Removal of organics by overland flow. Martel, C.J., et al, (1980, 9p., eng) 35-2052
Cost of land treatment systems. Reed, S.C., et al, (1979, 135p., eng) 35-2464
Health aspects of land treatment. Reed, S.C., (1979, 43p., eng) 35-2493
Northern community: a search for a quality environment. (1981, 786p., eng) 35-2496
Mixing and microorganism survival in the Slave River, N.W.T. Smith, D.W., et al, (1981, p.449-470, eng) 35-2518
Aquaculture for wastewater treatment in cold climates. Reed, S.C., et al, (1981, p.482-492, eng) 35-2519
Land treatment of wastewaters for rural communities. Reed, S.C., et al, (1975, p.23-39, eng) 35-2568
Proceedings, National Conference on Environmental Engineering. (1980, 707p., eng) 35-2570
Rational design of overland flow systems. Martel, C.J., et al, (1980, p.114-121, eng) 35-2571
Energy and costs for agricultural reuse of wastewater. Sletten, R.S., et al, (1980, p.339-346, eng) 35-2572
Forage grass growth on overland flow systems. Palazzo, A.J., et al, (1980, p.347-354, eng) 35-2573
Spray application of waste-water effluent in a cold climate. Cassell, E.A., et al, (1980, p.620-626, eng) 35-2574
Health aspects of water reuse in California. Reed, S.C., (1979, p.434-435, eng) 35-2580
Overland flow removal of toxic volatile organics. Jenkins, T.F., et al, (1981, 16p., eng) 35-2581
Enzyme kinetic model for nitrification in soil amended with ammonium. Leggett, D.C., et al, (1980, 20p., eng) 35-2583
Disinfection of wastewater by microwaves. Iskandar, I.K., et al, (1980, 15p., eng) 35-2592
Cold regions engineering. (1980, Var. p., eng) 35-2710
Wastewater treatment for cold regions. Smith, D.W., (1980, 21p., eng) 35-2712
Municipal sludge management: environmental factors. Reed, S.C., ed, (1977, Var. p., eng) 35-2715
Cost-effective use of municipal wastewater treatment ponds. Reed, S.C., et al, (1979, p.177-200, eng) 35-2751
Design of liquid-waste land application. Iskandar, I.K., (1979, p.65-88, 790) 35-2757
EPA policy on land treatment and the Clean Water Act of 1977. Thomas, R.E., et al, (1980, p.452-460, eng) 35-2759
Land treatment: present status, future prospects. Pound, C.E., et al, (1978, p.98-102, eng) 35-2760
Seminar on Effluent Irrigation under Prairie Conditions, 1979. (1979, var.p., eng) 35-2793
International and national developments in land treatment of wastewater. McKim, H.L., et al, (1979, 28p., eng) 35-2794
Effluent irrigation developments in Canada. Oldham, W.K., (1979, 6p., eng) 35-2795
Aquaculture systems for wastewater treatment: an engineering assessment. Reed, S.C., et al, (1980, 127p., eng) 35-2859
Aquaculture systems for wastewater treatment. Reed, S.C., et al, (1980, p.1-12, eng) 35-2860
Aquaculture systems for wastewater treatment in cold climates. Pershe, E.R., (1980, p.105-127, eng) 35-2861
Wastewater treatment ponds. (1975, 21p. + appends., eng) 35-2862
Toxic volatile organics removal by overland flow land treatment. Jenkins, T.F., et al, (1981, 14p., eng) 35-2894
Seasonal growth and accumulation of N, P, and K by grass irrigated with wastes. Palazzo, A.J., (1981, p.64-68, eng) 35-3515

Wastes
Saline soil stabilization with waste cinders. Ashurov, U., (1980, p.16-17, rus) 35-479
Local construction materials in the North. Knigina, G.I., (1980, p.79-83, rus) 35-1087
Tree bark in road pavement construction. Lukina, V.A., et al, (1980, p.124-127, rus) 35-1090

Water
Freezing of adsorbed water in materials of varied porosity. Efimov, S.S., et al, (1979, p.91-96, rus) 35-237
All-Union scientific conference on chemistry of low temperatures, Moscow, Nov.28-29, 1979, Abstracts (1979, 90p., rus) 35-1272
Thermodynamic analysis of water crystallization. Oleinkov, N.N., et al, (1979, p.76, rus) 35-1273
Ice melting in organic solvents. Naumov, S.V., et al, (1979, p.78, rus) 35-1274
Freezing of water solutions of sulfates. Naumov, S.V., et al, (1979, p.79, rus) 35-1275
Ice removal from frozen salt solutions. Telegina, L.I., et al, (1979, p.80, rus) 35-1276
Changes induced by stream flow diversion in Siberia. Bachurin, G.V., (1980, p.52-56, rus) 35-1334
Phase transitions of high pressure ice and water. Yamamoto, K., (1980, p.1841-1845, eng) 35-1672
Liquid figures of high-pressure ice VI. Yamamoto, K., (1980, p.2291-2292, eng) 35-1673
Measurement of the shear stress on the underside of simulated ice covers. Calkins, D.J., et al, (1980, 11p., eng) 35-1723
Regionalization of the Non-chernozem zone. Panov, E.P., et al, (1980, 231p., rus) 35-2439
Mathematic-thermodynamic analysis of the anomalies of water. Trincher, K., (1981, p.433-448, eng) 35-2460

Water balance
Heat and water balance in mountain drainage basins. Novorotskii, P.V., (1980, p.224-229, rus) 35-342
Formation of ground water balance in the USSR. Lebedev, A.V., (1980, 287p., rus) 35-345
Runoff and water balance in Arctic lake basins. Newbury, R.W., et al, (1979, p.516-535, eng) 35-431
Annual water balance of small high Arctic basins. Marsh, P., et al, (1979, p.536-546, eng) 35-432
Water balance of the Bratsk reservoir. Geta, R.I., (1978, 134p., rus) 35-811
Role of snow cover in the modelling of water balance. Balek, J., (1980, p.152-157, rus) 35-1248
Water balance of northern swamps. Ershova, L.M., (1977, p.39-47, rus) 35-1293
Water budget and lake-level stability of Harding Lake. Nakao, K., et al, (1980, p.9-15, eng) 35-1559
Water balance of small river basins in permafrost areas. Vasilenko, N.G., (1980, p.11-32, rus) 35-1792
Calculating evaporation from northern swamps. Moskvin, IU.P., et al, (1980, p.67-75, rus) 35-1871

Water balance *(cont.)*

Use of water balance method to evaluate precipitation measurement in Antarctica. Averianov, V.G., (1980, p.17-22, rus) **35-2026**

Role of naleds in water balance of river basins. Lebedev, V.M., et al. (1980, p.86-93, rus) **35-2879**

Oxygen isotope balance in the Issyk-Kul' glacial basin. Brezgunov, V.S., et al. (1981, p.10-14, rus) **35-3297**

Mathematical models of water balance in permafrost areas. Sikitin, S.P., (1980, p.213-218, rus) **35-3428**

Heat and water balance in western Siberia. Zhukov, V.M., (1981, p.55-67, rus) **35-3969**

On the possibility of determining water exchange of the Arctic Basin caused by wind over it. Gusarova, S.P., (1981, p.40-51, eng) **35-4131**

Method of determining water exchange of the Arctic Basin with a random wind field: barotropic model. Gusarova, S.P., (1981, p.52-59, eng) **35-4132**

Water chemistry

Winter oxygen loss in three southern Ontario lakes. Jackson, M.B., (1980, p.149-159, eng) **35-47**

Winter variations in water quality of arctic and subarctic rivers. Schreier, H., et al. (1980, p.1345-1351, eng) **35-113**

Methodology of forecasting natural phenomena in Siberia. Druzhinin, I.P., ed. (1980, 144p., rus) **35-148**

Winter water quality and hydrology of Ogilvie River system. Schreier, H., (1979, p.559-569, eng) **35-434**

Separation of runoff components in glacierized alpine watersheds. Collins, D.N., et al. (1979, p.570-581, eng) **35-435**

Estuarine salinity of Arctic seas. Brezgunov, V.S., et al. (1980, p.101-105, rus) **35-469**

Marine environments in Boca de Quadra and Smeaton Bay, Alaska, 1979. Burrell, D.C., et al. (1980, 134p., eng) **35-490**

Snowpack and mine drainage in a western surface mine. Farmer, E.E., et al. (1980, p.79-100, eng) **35-582**

Factors controlling oxygen depletion in ice-covered lakes. Mathias, J.A., et al. (1980, p.185-194, eng) **35-1164**

Chemical composition of glacial waters. Izrael', Iu.A., et al. (1980, p.157-162, rus) **35-1249**

Karst waters in ice caves. Ezhov, I.A., et al. (1976, p.35-40, rus) **35-1296**

Hydrochemical characteristics of Arctic Basin waters. Rusanov, V.P., (1980, p.15-33, rus) **35-1314**

Oceanographic conditions in the Okhotsk Sea coast of Hokkaido, winter. Aota, M., et al. (1978, p.93-105, jap) **35-1545**

Analysis of Cl-36 in environmental water samples using an electrostatic accelerator. Elmore, D., et al. (1979, p.22-25, eng) **35-1593**

Chemistry of sediments in tundra ponds. Prentki, R.T., et al. (1980, p.76-178, eng) **35-1751**

Water chemistry in a permafrost environment, Alaska. Krothe, N.C., (1981, p.570-590, eng) **35-2525**

Overland flow: removal of toxic volatile organics. Jenkins, T.F., et al. (1981, 16p., eng) **35-2581**

Chemical analysis of natural water in the analysis of ice and snow. Sheng, W., (1980, p.90-91, chi) **35-2681**

Isotope content and electric properties of glacial runoff. Oerter, H., et al. (1980, p.86-92, 157-161, rus) **35-2822**

Determining the content of anion of SO4 in snow meltwater. Cheng, W., (1980, p.70-71, chi) **35-2924**

River diversion effect on hydrochemistry of estuarine areas. Rusanov, V.P., (1980, p.90-93, rus) **35-3120**

Illustrations of biological roles of winter lake cover. Adams, W.P., (1980, p.1-18, eng) **35-3143**

Role of the lake winter cover in the phosphorous budget. Wolfe, B.R., (1980, p.170-178, eng) **35-3156**

Snow effect on cations within a small watershed. Pierson, D.C., et al. (1980, p.182-184, eng) **35-3158**

Freeze-out of nutrients from lake ice. Jones, R., et al. (1980, p.193-195, eng) **35-3161**

Geocryological processes in the Far East. Shumilov, I.L.V., (1976, p.46-54, rus) **35-3829**

Oceanography of Canadian waters. LeBlond, P.H., comp. (1978, p.207-233, eng) **35-3927**

Chemical composition of atmospheric precipitation in Yakutia. Anisimova, N.P., et al. (1980, p.30-37, rus) **35-3992**

Seasonal variations of soil water composition in taiga. Grishina, L.A., et al. (1979, p.86-104, rus) **35-4121**

Runoff of deicing salt in Buffalo, New York. Rumer, R.R., Jr., et al. (1974, p.407-411, eng) **35-4257**

Lake Erie in mid-winter. Burns, N.M., et al. (1978, p.134-141, eng) **35-4320**

Water content

Microbial dynamics of two sub-Arctic Canadian rivers. Albright, L.J., et al. (1980, p.1353-1362, eng) **35-114**

Remote sensing of soil moisture. Kondrat'ev, K.IA., et al. (1977, p.66-76, rus) **35-901**

Methodology for foundations on expansive clays. O'Neill, M.W., et al. (1980, p.1345-1367, eng) **35-1495**

Pore-water pressure profile of a freezing soil. Fukuda, M., et al. (1980, p.31-36, eng) **35-1991**

Water content values of ice hydrometeors from aircraft and radar data. Plank, V.G., et al. (1980, p.1293-1299, eng) **35-3865**

Hydroclimatically anomalous years in West Siberia. Glukh, I.S., (1981, p.93-100, rus) **35-3972**

Plant water relations in Alaskan arctic tundra. Oberbauer, S., et al. (1981, p.205-218, eng) **35-4093**

Water erosion

Mudflows, No.4. Vinogradov, IU.B., ed. (1980, 148p., rus) **35-203**

Mudflow forming processes. Vinogradov, IU.B., (1980, p.3-19, rus) **35-204**

Mechanism of mudflow formation. Stepanov, B.S., (1980, p.20-23, rus) **35-205**

Mudflow classification. Vinogradov, IU.B., (1980, p.46-50, rus) **35-208**

Classification of mudflow formation foci. Khomin, R.V., (1980, p.51-56, rus) **35-209**

Land forms of subglacial origin. Makkaveev, A.N., (1980, p.17-24, rus) **35-788**

Estimating washload produced by snowmelt erosion on small watersheds. Rendon-Herrero, O., (1980, p.66-83, eng) **35-1972**

Water films

Adsorption force theory of frost heaving. Takagi, S., (1980, p.57-81, eng) **35-819**

Adsorbed film controversy. Miller, R.D., (1980, p.83-86, eng) **35-820**

Ice crystal formation on AgI particles. Medaliev, Kh.Kh., et al. (1975, p.107-113, rus) **35-1618**

Mobile water phase on ice surfaces. Kvlividze, V.I., et al. (1974, p.60-68, eng) **35-3628**

Coefficient of ice-solid friction. Oksanen, P., (1980, 73p., eng) **35-3883**

Rubber-ice friction and vehicle handling. Roberts, A.D., (1981, p.14-16, eng) **35-3920**

Water flow

Canadian Hydrology Symposium '70: Cold Climate Hydrology. (1979, 597p., eng) **35-403**

Estimation of small basin flood flows in the discontinuous permafrost zone. Vincent, D.G., et al. (1979, p.229-238, eng) **35-416**

Water and air horizontal flow in porous media. Nakano, Y., (1980, p.81-85, eng) **35-844**

Water and air vertical flow through porous media. Nakano, Y., (1980, p.124-133, eng) **35-845**

Air flow through snow during laminar flow of a fluid over snow. Yoshida, Z., (1978, p.29-40, jap) **35-1173**

Oceanographic measurements in the Chukchi Sea, April-August 1977. Garrison, G.R., et al. (1979, 131p., eng) **35-1581**

Heat, mass and momentum transfer during ice sheet melting. Srivastava, P.K., (1979, 110p., eng) **35-1987**

Flow around icebergs. Foldvik, A., et al. (1980, p.67-70, eng) **35-2208**

Morphology of ice structure in a pipe at or near transition Reynolds numbers. Gilpin, R.R., (1979, p.89-94, eng) **35-2238**

Evaluation of alternative water bleeder controls. Yee, A., et al. (1981, p.555-569, eng) **35-2524**

Flow in ice covered channels: some fundamentals. Gerard, R., (1981, p.8-22, eng) **35-2540**

Resistance of Beauharnois Canal in winter. Tsang, G., (1981, p.57-78, eng) **35-2543**

Discharge water level relationship for ice cover stability. Carson, R.K., et al. (1981, p.112-120, eng) **35-2546**

Evaluation of ice jam roughness, Thames River, Ontario. Knowles, W.L., et al. (1981, p.281-294, eng) **35-2558**

Hydraulic resistance of ice cover and ice jams. Gerard, R., (1981, p.296-298, eng) **35-2559**

Traveling wave solution to the problem of simultaneous flow of water and air through homogeneous porous media. Nakano, Y., (1981, p.57-64, eng) **35-2796**

Cooling of a horizontal cylinder of water through its maximum density. Gilpin, R.R., (1975, p.1307-1315, eng) **35-2943**

Forced convection melting heat transfer in a tube. Lee, D.O., et al. (1979, p.55-68, eng) **35-3349**

Ice structure in a pipe at or near transition Reynold numbers. Gilpin, R.R., (1979, p.89-94, eng) **35-3351**

Inlet current measured with Seasat-1 synthetic aperture radar. Shemdin, O.H., et al. (1980, p.35-37, eng) **35-3704**

Interglacial water flow: a theory and mathematical models. Spring, U., (1980, 197p., ger) **35-3711**

Trace experiments on the water flow through the Aletsch Glacier. Lang, H., et al. (1979, p.209-218, eng) **35-3730**

Meltwater movement through the firn in an alpine glacier. Behrens, H., et al. (1979, p.219-228, ger) **35-3731**

Meltwater flow in the water table of a temperate glacier. Ambach, W., et al. (1979, p.229-234, ger) **35-3732**

Horizontal mixing in water quality modelling. Bengtsson, L., (1980, p.401-416, eng) **35-3794**

Transverse mixing tests in natural streams. Beltaos, S., (1980, p.1607-1625, eng) **35-4127**

Problems of the Arctic and the Antarctic, collection of articles; Vol. 48, 1976. Treshnikov, A.F., ed. (1981, 173p., eng) **35-4129**

On the possibility of determining water exchange of the Arctic Basin caused by wind over it. Gusarova, S.P., (1981, p.40-51, eng) **35-4131**

Method of determining water exchange of the Arctic Basin with a random wind field: barotropic model. Gusarova, S.P., (1981, p.52-59, eng) **35-4132**

Origin of water feeding North Slope icings. Hall, D.K., et al. (1981, p.433-438, eng) **35-4341**

Water intakes

Protecting water intakes from icing. Mindrin, V.I., (1980, p.64-65, rus) **35-605**

Water supply in populated areas of the North. Vdovin, IU.I., (1980, 133p., rus) **35-1577**

Relation between water-intake types in rivers and soil temperature. Solomennik, S.F., (1980, p.150-151, rus) **35-2302**

Operating water intakes in freezing weather. Medvedev, T.A., (1981, p.4-5, rus) **35-2773**

Inlet current measured with Seasat-1 synthetic aperture radar. Shemdin, O.H., et al. (1980, p.35-37, eng) **35-3704**

Water level

Forecasting ice-breakup water levels. Liser, I.IA., (1980, p.3-8, rus) **35-451**

Evaluating ice jam water levels. Buzin, V.A., (1980, p.33-39, rus) **35-1013**

Calculating maximal ice jam water levels. Zhukova, M.A., (1980, p.113-118, rus) **35-1020**

Hydrologic regime of lakes and rivers in Central Siberia. Ershova, L.M., (1977, p.3-11, rus) **35-1290**

Influence of high water stage on shores of deep reservoirs of Siberia (the Krasnoyarsk reservoir taken as an example). Kuskovskii, V.S., (1980, p.140-143, rus) **35-1341**

Clearing ice-clogged shipping channels. Vance, G.P., (1980, 13p., eng) **35-2000**

Flow in ice covered channels: some fundamentals. Gerard, R., (1981, p.8-22, eng) **35-2540**

Discharge water level relationship for ice cover stability. Carson, R.K., et al. (1981, p.112-120, eng) **35-2546**

Hydraulic and ice conditions in relation to winter and spring floods. Tremblay, P.R., et al. (1981, p.209-226, eng) **35-2553**

Evaluation of ice jam roughness, Thames River, Ontario. Knowles, W.L., et al. (1981, p.281-294, eng) **35-2558**

Forecasting maximum water level during ice jamming in the pinch-out area of the Novosibirsk water reservoir (Ob' River). Liser, I.IA., (1981, p.11-20, rus) **35-4300**

Water pipelines

Anticipate pipe freeze-ups. Block, B., (1980, p.34-35, eng) **35-850**

Obtaining drinking water from glacier ice. Gus'kov, A.S., et al. (1980, p.260-264, rus) **35-1255**

Water supply in populated areas of the North. Vdovin, IU.I., (1980, 133p., rus) **35-1577**

Electric heating for freeze protection of water systems. Tracey, R.W., (1980, p.263-287, eng) **35-2123**

Thawing of frozen water services. Currey, R., (1980, p.310-313, eng) **35-2125**

Thermodynamic analysis of the water distribution system in Inuvik, N.W.T. Hull, J.A., (1980, p.332-346, eng) **35-2127**

Water distribution pipe networks for arctic settlements. James, W., et al. (1980, p.347-366, eng) **35-2128**

Waterworks systems, Yellowknife, Northwest Territories. Prentice, J.R., et al. (1980, p.409-425, eng) **35-2131**

Dawson City water and sewerage program: an overview. Shillington, E.I., et al. (1981, p.544-554, eng) **35-2523**

Ductless hot-water pipelines in the North. Sobolev, V.G., et al. (1981, p.126-129, rus) **35-2790**

Calculating water flow in freezing pipes. Karaush, S.A., et al. (1981, p.117-122, rus) **35-4290**

Water pipes

Mechanized water preparation at Vostok. Zagrivnyi, E.A., et al. (1980, p.124-127, rus) **35-2046**

Morphology of ice structure in a pipe at or near transition Reynolds numbers. Gilpin, R.R., (1979, p.89-94, eng) **35-2238**

Evaluation of alternative water bleeder controls. Yee, A., et al. (1981, p.555-569, eng) **35-2524**

Effects of dendritic ice formation in water pipes. Gilpin, R.R., (1977, p.693-699, eng) **35-2944**

Factors affecting the ice nucleation temperature in water pipes. Gilpin, R.R., (1978, p.466-471, eng) **35-2945**

Water pollution

Methodology of forecasting natural phenomena in Siberia. Druzhinin, I.P., ed. (1980, 144p., rus) **35-148**

Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979. Abstracts of the papers. (1979, 211p., rus) **35-245**

Preventing water pollution in permafrost areas. Kukushkin, B.M., et al. (1980, p.21-22, rus) **35-504**

Oilspill in pack ice. (1980, 231p., eng) **35-544**

Snowpack and mine drainage in a western surface mine. Farmer, E.E., et al. (1980, p.79-100, eng) **35-582**

Reclamation of acid-producing spoils on a western surface mine. Richardson, B.Z., (1980, p.101-112, eng) **35-583**

Reclamation process as affected by the surface mining regulations. Brown, J.A., (1980, p.148-152, eng) **35-586**

Occurrence of salt and lead in snow dump sites. Scott, W.S., (1980, p.187-195, eng) **35-706**

Environmental assessment of the Alaskan continental shelf, Apr.-Dec. 1979. (1980, 595p., eng) **35-846**

Water pollution from snow removal operations. Pierstorff, B.W., et al. (1980, p.377-388, eng) **35-851**

Impact of oil on the Kachemak Bay environment. Trasky, L.L., et al. (1977, 123p., eng) **35-888**

Effects of alpine reservoirs on the environment. [1980, 12 papers, ger] 35-897
Port Valdez environmental studies: 1976-1978. Colonell, J.M., [1980, p.907-917, eng] 35-985
Report of the Workshop on Arctic Oil and gas Recovery, 1980. Sackinger, W.M., [1980, 38p., eng] 35-1062
Oil and ice in the Beaufort Sea. Wadhams, P., [1980, p.23-35, eng] 35-1114
Oil spill control under ice cover. Sittig, M., [1978, 360p (pertinent p.307-310), eng] 35-1116
Surface water resources in the Tomsk region. Krasheninnikov, M.V., et al, [1976, p.149-155, rus] 35-1193
Oil spill effects on tundra ponds. Barsdate, R.J., et al, [1980, p.388-406, eng] 35-1756
Environmental assessment of the Alaskan continental shelf. TDP, FY81. Weller, G., coord, [1980, 166p., eng] 35-2018
Environmental assessment of the Alaskan continental shelf. TDP, FY81. Calder, J.A., coord, [1980, 209p., eng] 35-2019
Environmental assessment of the Alaskan continental shelf. TDP, FY81. Hameedi, J., coord, [1980, 130p., eng] 35-2020
Microwave systems for detecting oil slicks in ice-infested waters. [1980, 63p., eng] 35-2106
Environmental protection in mining areas. El'chaninov, E.A., [1980, p.43-49, rus] 35-2189
Oil in sea ice. Lewis, E.L., [1976, 26p., eng] 35-2247
Land treatment of wastewaters for rural communities. Reed, S.C., et al, [1975, p.23-39, eng] 35-2568
Water pollution and associated effects from street salting. Field, R., et al, [1975, p.317-340, eng] 35-2569
Health aspects of water reuse in California. Reed, S.C., [1979, p.434-435, eng] 35-2580
Perspective on oilspill modelling offshore Labrador. Noll, C.J., et al, [1980, p.21-32, eng] 35-3091
What is the future of the Northwest Passage. Pharand, D., [1980, p.2-7, fre] 35-3640
Countermeasures equipment for ice-covered ice-infested waters. Meikle, K.M., [1980, p.7-11, eng] 35-3869
Research in oil, gas and ice at the University of Toronto. Mackay, D., et al, [1980, p.27-31, eng] 35-3871
Oceanography of Canadian waters. LeBlond, P.H., comp, [1978, p.207-233, eng] 35-3927
Recovery of a stream from iron ore activities, Schefferville area. Dubreuil, M.A., [1981, p.39-55, eng] 35-3978
Transverse mixing tests in natural streams. Beltaos, S., [1980, p.1607-1625, eng] 35-4127
Treatment and disposal system of waste materials at Mizuho Station. Hayashida, S., et al, [1981, p.49-60, jap] 35-4174

Water pressure

Comment on "pressure melting". Martin, R.T., [1980, p.89, eng] 35-822
Diurnal variation of soil water tension during soil freezing. Takeda, K., et al, [1978, p.181-183, jap] 35-1556
Pore-water pressure profile of a freezing soil. Fukuda, M., et al, [1980, p.31-36, eng] 35-1991
Pore water pressure of saturated gravel during freezing. Chen, X., et al, [1980, p.33-37, chi] 35-2916
What is the temperature change in pressure melting. Offenbacher, E.L., [1981, p.155-156, eng] 35-3672
Reply to: a comment on "pressure melting". Spring, U., [1981, p.157, eng] 35-3673

Water reserves

U.S. Geological Survey in Alaska; 1980 programs. Reed, K.M., ed, [1980, 112p., eng] 35-131
Calculating snow reserves in mountains. Maliugin, IU.F., [1980, p.69-73, rus] 35-1228
Changing the course of Siberian rivers. Saks, V.N., et al, [1980, p.76-81, rus] 35-1428
Water resources of mountains. L'vovich, M.I., et al, [1980, p.50-65, rus] 35-1438
Water supply in populated areas of the North. Vdovin, IU.I., [1980, 133p., rus] 35-1577
Builder's guide to water and energy. Seifert, R.D., et al, [1980, 78p., eng] 35-2021
Annual report, 1980. [1980, 32p., eng] 35-2241
Glaciers and water reserves in the Ha-la-hu Lake area. Wu, K., et al, [1979, p.27-32, chi] 35-2899
Permafrost hydrology in Dahinganling, China. Zheng, Q., [1980, p.44-51, chi] 35-2918
Using satellite information in solving hydrological problems. Kupriianov, V.V., et al, [1980, p.3-9, rus] 35-2968
Water resources and hydroelectric projects, Alaska river basins. [1981, 32p. + map, eng] 35-3140
Hydrology of northern tundra. Rydén, B.E., [1981, p.115-137, eng] 35-3379
Water resources of Tiumen'. Tsofimets, L.N., [1980, p.185-190, rus] 35-3425
Calculating water reserves from aerial snow survey data. Moskalev, IU.D., [1980, p.127-138, rus] 35-3584
Effects of placer mining on hydrologic systems in Alaska. Madison, R.J., [1981, 25p., eng] 35-3813
Water resources development. [1981, 52p., eng] 35-4010
Land surface and lake storage during snowmelt runoff, Subarctic areas. FitzGibbon, J.E., et al, [1981, p.277-285, eng] 35-4260

Water resources

All-Union conference on Arctic environment under conditions of interzonal redistribution of water resources, Leningrad, Nov. 25-27, 1980, summaries of papers. Treshnikov, A.F., ed, [1980, 147p., rus] 35-3103
Changes in Arctic natural conditions due to human activities. Treshnikov, A.F., [1980, p.4-7, rus] 35-3104
Ice conditions in Arctic river estuaries. Ivanov, V.V., [1980, p.8-11, rus] 35-3105
Water runoff redistribution in the European USSR. Berezner, A.S., et al, [1980, p.12-16, rus] 35-3106
Water resources of small river basins. Antipov, A.N., [1980, p.175-184, rus] 35-3424

Water retention

Snow management for crop production on the Canadian prairies. Steppuhn, H., [1980, p.50-61, eng] 35-2226
Soil hydraulic conductivity and moisture retention features. Ingersoll, J., [1981, 11p., eng] 35-3644
Laboratory and field use of soil tensiometers above and below 0 deg C. Ingersoll, J., [1981, 17p., eng] 35-3796

Water storage

Soil microflora and artificial lakes. Nikitina, Z.I., et al, [1979, p.63-75, rus] 35-2324

Water structure

Temperature coefficient of the refractive index for H2O and D2O. Abbate, G., et al, [1980, p.1171-1177, eng] 35-1691

Water supply

Water supply in permafrost regions. Lin, F., [1980, p.32-36, chi] 35-85
Conference on ground water in Siberia and the Far East, 9th, Petropavlovsk-Kamchatskiy, 1979. Abstracts of the papers. [1979, 211p., rus] 35-245
Glacier economy in Bolivia. Jordan, E., [1979, p.297-309, ger] 35-359
Calculating ice regimes of water tanks. Mostovoi, G.A., [1980, p.5-6, rus] 35-463
Public works, Deep Freeze 79. Evans, R.L., [1979, p.235-237, eng] 35-683
Artificial lakes in permafrost areas. Kronik, IA.A., et al, [1980, p.120-129, rus] 35-766
Fundamentals of sanitation and hygiene in urban construction of the Novosibirsk region. Dobrinskii, A.A., et al, [1974, 118p., rus] 35-805
Surface water resources in the Tomsk region. Krasheninnikov, M.V., et al, [1976, p.149-155, rus] 35-1193
Obtaining drinking water from glacier ice. Gus'kov, A.S., et al, [1980, p.260-264, rus] 35-1255
Water supply in populated areas of the North. Vdovin, IU.I., [1980, 133p., rus] 35-1577
Remote sensing for snowpack measurements and water supply forecasting. Brown, A.J., et al, [1980, p.11-19, eng] 35-1734
Microwave measurements of snow water equivalence. Boyne, H.S., et al, [1980, p.119-129, eng] 35-1739
Freeze-up of rivers in the Baykal Amur railroad zone. Liubimov, G.A., [1980, p.64-73, rus] 35-1796
Builder's guide to water and energy. Seifert, R.D., et al, [1980, 78p., eng] 35-2021
Mechanized water preparation at Vostok. Zagrivnyi, E.A., et al, [1980, p.124-127, rus] 35-2046
Water and sanitation policy in the N.W.T., Canada. Christensen, V., [1980, p.9-18, eng] 35-2108
Water and energy conservation alternatives for the North. Cameron, J.J., et al, [1980, p.47-88, eng] 35-2110
Technology for water supply and sanitation in northern communities. McGarry, M.G., et al, [1980, p.121-135, eng] 35-2113
Fire protection considerations in remote, cold regions communities. Ryan, W.L., [1980, p.230-233, eng] 35-2119
Fire protection in isolated northern communities. Whatmough, R.G., [1980, p.234-236, eng] 35-2120
Water supply system for the world's most northerly permanent community. Chong, T.M.Y., et al, [1980, p.367-393, eng] 35-2129
Proceedings of the 1980 conference on the use of icebergs. [1980, 136p., eng] 35-2196
Iceberg water: an assessment. Weeks, W.F., [1980, p.5-10, eng] 35-2197
South African iceberg power and water project. DeMarle, D.J., [1980, p.129-133, eng] 35-2218
Importance of water supply forecasts in power planning. Gordon, W.R., et al, [1980, p.83-87, eng] 35-2230
Washing construction materials in freezing water. Tantsman, M.A., et al, [1981, p.22-23, rus] 35-2845
Permafrost effect on the length of river freezeup period. Riabova, L.I., [1980, p.77-85, rus] 35-2878
Isotope method of studying permafrost hydrology. Afanasenko, V.E., et al, [1981, p.85-90, rus] 35-3299
Potential and developed water-supply sources in Alaska. Dearborn, L.L., [1981, p.1-11, eng] 35-3682
Snow and agriculture. Steppuhn, H., [1981, p.60-125, eng] 35-3748
Enrichment of perennially frozen ore and placer deposits. Emel'ianov, V.I., ed, [1977, p.175, rus] 35-3805
Water supply systems for dredging in permafrost areas. Ageenkov, A.V., et al, [1977, p.87-100, rus] 35-3807
Dynamics of soil water runoff in permafrost areas. Khersonskii E.S., et al, [1980, p.37-43, rus] 35-3993
Water vapor condensation processes in permafrost areas. Shepelev, V.V., [1980, p.43-56, rus] 35-3994
Water supply conveyance problems in winter at high altitudes. Garstka, W.U., et al, [1981, p.735-742, eng] 35-4165

Water table

Water supply in permafrost regions. Lin, F., [1980, p.32-36, chi] 35-85
Water and air vertical flow through porous media. Nakano, Y., [1980, p.124-133, eng] 35-845
Pore-water pressure profile of a freezing soil. Fukuda, M., et al, [1980, p.31-36, eng] 35-1991

Water temperature

Sea ice: its characteristics, distribution and role in human affairs. Ferguson, N.B., [1980, p.169-176, eng] 35-49
Free convection heat transfer characteristics in a melt water layer. Yen, Y.-C., [1980, p.550-556, eng] 35-103
Passive radiometry of the ocean from space - an overview. McClain, E.P., [1980, p.7-24, eng] 35-160
Temperature fields and sound transmission variations in the Arctic Ocean. Bogorodskii, V.V., et al, [1980, p.967-970, rus] 35-306
Temperature fluctuations in the Central Arctic Basin. Bogorodskii, P.V., et al, [1980, p.101-104, rus] 35-378
Water temperature and salinity in the Arctic Basin. Chebotareva, V.A., [1980, p.109-111, rus] 35-379
Ice condition changes induced by river regulation. Rossinskii, K.I., et al, [1980, p.5-19, rus] 35-468
Conditions under Ross Ice Shelf, winter 1979. Kvinge, T., et al, [1979, p.61-63, eng] 35-650
Behavior of H2O and D2O at low temperatures. Stanley, H.E., et al, [1980, p.3404-3422, eng] 35-842
Oceanographic data report from Cambridge Bay, N.W.T., Sep.1971-Apr.1972. [1973, 267p., eng] 35-889
Oceanography of the d'Iberville Fiord, N.W.T., Mar.-Apr. 1974. [1975, 139p., eng] 35-1058
Speed of movement of fluid crystallization fronts. Zhekamukhov, M.K., [1980, p.40-46, rus] 35-1200
Hydrochemical characteristics of Arctic Basin waters. Rusanov, V.P., [1980, p.15-33, rus] 35-1314
Oceanology from space. Bulnitskii, V.Kh., ed, [1980, 167p., rus] 35-1343
Energy interaction between reservoirs and the atmosphere. Panin, G.N., et al, [1980, p.151-173, rus] 35-1496
Oceanographic conditions in the Okhotsk Sea coast of Hokkaido, winter. Aota, M., et al, [1978, p.93-105, jap] 35-1545
Climatic changes of Harding Lake, Alaska. Nakao, K., ed, [1980, 77p., eng] 35-1557
Oceanographic measurements in the Chukchi Sea, April-August 1977. Garrison, G.R., et al, [1979, 131p., eng] 35-1581
Cooling tendency in the surface water of the North Atlantic Ocean. [1980, 3p., eng] 35-1729
Marine life and biogeography of the Canadian Eastern Arctic. Dunbar, M.J., et al, [1980, 119p., eng] 35-1760
Sea ice, temperature variations, and atmospheric changes in the Bering Sea. Niebauer, H.J., [1980, p.7507-7515, eng] 35-1912
Oceanography of the northern Gulf of St. Lawrence. Lewis, J.B., et al, [1980, 52p., eng] 35-2011
Temperature of antarctic icebergs and the surrounding water. Foldvik, A., et al, [1980, p.19-22, eng] 35-2199
Iceberg melt-driven convection. Josberger, E.G., et al, [1980, p.113-117, eng] 35-2215
Thermal effluents in Boundary Reservoir during winter. Kennedy, B.C., [1978, p.97-110, eng] 35-2237
Winter thermal structure, ice conditions and climate of Lake Champlain. Bates, R.E., [1980, 26p., eng] 35-2585
Topographic control of the polar front off southern Greenland. Sommerhoff, G., et al, [1979, p.63-69, ger] 35-2645
Water fights snow for bullet trains; automated sprinklers clear tracks. [1981, p.25, eng] 35-2941
Cooling of a horizontal cylinder of water through its maximum density. Gilpin, R.R., [1975, p.1307-1315, eng] 35-2943
Wintertime temperature inversion in Kootenay Lake, British Columbia. Wiegand, R.C., et al, [1981, p.2024-2034, eng] 35-3275
Eastern Bering Sea ice processes. Pease, C.H., [1980, p.2015-2023, eng] 35-3647
Study of the large scale cooling in the Bay of Bothnia. Sahlberg, J., et al, [1980, 32p., eng] 35-3699
Criteria for ice prevention in counterflow natural draft cooling towers. Cooper, J.W., Jr., [1980, p.47-53, eng] 35-3862
Ocean circulation, fronts and ice melting in the Chukchi Sea. Paquette, R.G., et al, [1981, p.4215-4230, eng] 35-3911
Supercooled sediments and permafrost in Arctic seas. Zhigarev, L.A., [1981, p.181-191, rus] 35-4079
Salinity and thermal state of Bering Sea waters as indices of development of the Chukchi flaw lead in June. Arikainen, A.I., [1981, p.75-82, eng] 35-4134
Polex-North-76 (scientific results) Part 2. Treshnikov, A.F., ed, [1979, 194p., rus] 35-4182
Hydrologic observations in Laptev Sea. Gudkovich, Z.M., et al, [1979, p.38-44, rus] 35-4187

Water temperature *(cont.)*

Subarctic hydrologic front in the Pacific Ocean. Nadeliaev, A.G., [1979, p.161-171, rus] **35-4198**

Surface heat loss and frazil ice production in the St. Lawrence River. Shen, H.T., [1980, p.996-1001, eng] **35-4254**

C-axes growth rate of ice crystals. Simpson, H.C., et al, [1976, p.219-230, eng] **35-4294**

Water transport

Temperature fluctuations in the Central Arctic Basin. Bogorodskii, P.V., et al, [1980, p.101-104, rus] **35-378**

Estuarine salinity of Arctic seas. Brezgunov, V.S., et al, [1980, p.101-105, rus] **35-469**

Cyclone effect on ice covered sea. Denisov, V.V., et al, [1979, p.49-59, rus] **35-934**

Regularities governing changes in regimes of Arctic seas in natural hydrologic periods. Krutskikh, B.A., [1978, 91p., rus] **35-1282**

Hydrochemical characteristics of Arctic Basin waters. Rusanov, V.P., [1980, p.15-33, rus] **35-1314**

Influence of water runoff redistribution on the natural conditions of Siberia. Saks, V.N., ed, [1980, 184p., rus] **35-1331**

Changes in taiga due to river flow control. Shirokov, V.M., [1980, p.22-30, rus] **35-1332**

Subsurface currents in the Arctic Ocean. Beliakov, L.N., et al, [1980, p.752-754, rus] **35-1386**

Studying separation of Onega Bay from the White Sea. Matranovskii, F.G., [1980, p.28-31, rus] **35-3110**

Airborne radar for ice surveys. Balandin, V.N., et al, [1981, p.19-21, rus] **35-3936**

Turbulent structure of the Arctic Ocean. Beliakov, L.N., et al, [1979, p.116-120, rus] **35-4195**

Subarctic hydrologic front in the Pacific Ocean. Nadeliaev, A.G., [1979, p.161-171, rus] **35-4198**

Geostrophic water circulation in the northeastern part of the Pacific Ocean. Kholmanov, V.B., [1979, p.172-177, rus] **35-4199**

Currents in the northwestern Pacific Ocean. Khlopov, V.V., et al, [1979, p.184-193, rus] **35-4200**

Water treatment

Dynamics of NH4 and NO3 in cropped soils irrigated with wastewater. Iskandar, I.K., et al, [1980, 20p., eng] **35-872**

Removal of organics by overland flow. Martel, C.J., et al, [1980, 9p., eng] **35-2052**

Water supply system for the world's most northerly permanent community. Chong, T.M.Y., et al, [1980, p.367-393, eng] **35-2129**

Cost of land treatment systems. Reed, S.C., et al, [1979, 135p., eng] **35-2464**

Land disposal: state of the art. Reed, S.C., [1973, p.229-261, eng] **35-2469**

Health aspects of land treatment. Reed, S.C., [1979, 43p., eng] **35-2493**

Mixing and microorganism survival in the Slave River, N.W.T. Smith, D.W., et al, [1981, p.449-470, eng] **35-2518**

Aquaculture for wastewater treatment in cold climates. Reed, S.C., et al, [1981, p.482-492, eng] **35-2519**

Proceedings, National Conference on Environmental Engineering, [1980, 707p., eng] **35-2570**

Rational design of overland flow systems. Martel, C.J., et al, [1980, p.114-121, eng] **35-2571**

Energy and costs for agricultural reuse of wastewater. Sletten, R.S., et al, [1980, p.339-346, eng] **35-2572**

Forage grass growth on overland flow systems. Palazzo, A.J., et al, [1980, p.347-354, eng] **35-2573**

Spray application of waste-water effluent in a cold climate. Cassell, E.A., et al, [1980, p.620-626, eng] **35-2574**

Health aspects of water reuse in California. Reed, S.C., [1979, p.434-435, eng] **35-2580**

Overland flow: removal of toxic volatile organics. Jenkins, T.F., et al, [1981, 16p., eng] **35-2581**

Enzyme kinetic model for nitrification in soil amended with ammonium. Leggett, D.C., et al, [1980, 20p., eng] **35-2583**

Disinfection of wastewater by microwaves. Iskandar, I.K., et al, [1980, 15p., eng] **35-2592**

Wastewater treatment for cold regions. Smith, D.W., [1980, 21p., eng] **35-2712**

Municipal sludge management: environmental factors. Reed, S.C., ed, [1977, Var. p., eng] **35-2715**

Cost-effective use of municipal wastewater treatment ponds. Reed, S.C., et al, [1979, p.177-200, eng] **35-2751**

Land treatment systems and the environment. McKim, H.L., et al, [1979, p.201-225, eng] **35-2752**

Design of liquid-waste land application. Iskandar, I.K., [1979, p.65-88, 790] **35-2757**

EPA policy on land treatment and the Clean Water Act of 1977. Thomas, R.E., et al, [1980, p.452-460, eng] **35-2759**

Land treatment: present status, future prospects. Pound, C.E., et al, [1978, p.98-102, eng] **35-2760**

Seminar on Effluent Irrigation under Prairie Conditions, 1979. [1979, var.p., eng] **35-2793**

International and national developments in land treatment of wastewater. McKim, H.L., et al, [1979, 28p., eng] **35-2794**

Effluent irrigation developments in Canada. Oldham, W.K., [1979, 6p., eng] **35-2795**

Aquaculture systems for wastewater treatment: an engineering assessment. Reed, S.C., et al, [1980, 127p., eng] **35-2859**

Aquaculture systems for wastewater treatment. Reed, S.C., et al, [1980, p.1-12, eng] **35-2860**

Aquaculture systems for wastewater treatment in cold climates. Pershe, E.R., [1980, p.105-127, eng] **35-2861**

Wastewater treatment ponds. [1975, 21p. + appends., eng] **35-2862**

Toxic volatile organics removal by overland flow land treatment. Jenkins, T.F., et al, [1981, 14p., eng] **35-2894**

Seasonal growth and accumulation of N, P, and K by grass irrigated with wastes. Palazzo, A.J., [1981, p.64-68, eng] **35-3515**

Effectiveness of land application for P removal from waste water. Iskandar, I.K., et al, [1980, p.616-621, eng] **35-3705**

Treatment and disposal system of waste materials at Mizuho Station. Hayashida, S., et al, [1981, p.49-60, jap] **35-4174**

Water vapor

Analysis of snow evaporation measurements. Lauscher, F., [1978, p.193-198, ger] **35-33**

Measuring water vapor condensation on snow fields. Higuchi, K., et al, [1980, p.118-121, rus] **35-1239**

Analysis of water in the Martian regolith. Anderson, D.M., et al, [1979, p.33-38, eng] **35-2756**

Ice forming properties of copper acetylacetonate. Chochishvili, K.M., et al, [1980, p.31-36, rus] **35-2871**

H2O frost point detection on Mars. Ryan, J.A., et al, [1981, p.503-511, eng] **35-3602**

Chemical composition of atmospheric precipitation in Yakutia. Anisimova, N.P., et al, [1980, p.30-37, rus] **35-3992**

Water vapor condensation processes in permafrost areas. Shepelev, V.V., [1980, p.43-56, rus] **35-3994**

Vapor condensation in aeration zones at subzero temperatures. Papernov, I.M., et al, [1980, p.62-82, rus] **35-3996**

Chemical composition of waters infiltrating seasonally thawing sands. Anisimova, N.P., [1980, p.82-90, rus] **35-3997**

Water waves

Breaking ice with gravity waves. Bates, H.F., et al, [1980, p.148-153, eng] **35-1108**

Slow waves at the surface of the Arctic Ocean. Fedorov, E.K., et al, [1980, p.1466-1468, rus] **35-1387**

Direct measurement of the attenuation of ocean waves by pack ice. Squire, V.A., et al, [1980, p.365-368, eng] **35-1465**

Ice and steep slopes present design challenges for arctic production islands. [1980, p.24-28, eng] **35-2858**

Morphology, erosion and barrier islands of the Beaufort Sea coast, Alaska. Hopkins, D.M., et al, [1981, p.178-186, eng] **35-3259**

Plane waves in a viscoelastic floating ice sheet. Bates, H.F., et al, [1981, p.4269-4273, eng] **35-3912**

Waterproofing

Cement injection technique for thawed permafrost. Shugaler, R.T., et al, [1980, p.63-64, rus] **35-597**

Water seepage control in mining excavations. Shparber, P.A., [1980, p.41-44, rus] **35-868**

Epoxy-foam thermal insulation and waterproofing of structures in areas of severe climatic conditions. Sakharov, V.I., [1980, 143p., rus] **35-1135**

Improving watertightness of large panel buildings. Omel'chenko, A.A., et al, [1980, 95p., rus] **35-1575**

Cold regions engineering. [1980, Var. p., eng] **35-2710**

Roofs in cold regions. Tobiasson, W., [1980, 21p., eng] **35-2713**

Water proofing massive concrete in freezing weather. Alekseenko, L.N., et al, [1981, p.67-71, rus] **35-4291**

Watersheds

Canadian Hydrology Symposium: 70. Cold Climate Hydrology, [1979, 597p., eng] **35-403**

Application of the UBC watershed model to Peyto Glacier basin. Power, J.M., et al, [1979, p.217-228, eng] **35-415**

Runoff simulation, Falls River watershed, Ellesmere Is., N.W.T. Ambler, D.C., [1979, p.277-289, eng] **35-418**

Response of an alpine watershed to snowmelt. Jordan, R.P., [1979, p.323-333, eng] **35-420**

Storm runoff delays induced by snow and ice. Whiteley, H.R., et al, [1979, p.356-379, eng] **35-423**

Runoff and water balance in Arctic lake basins. Newbury, R.W., et al, [1979, p.516-535, eng] **35-431**

Separation of runoff components in glacierized alpine watersheds. Collins, D.N., et al, [1979, p.570-581, eng] **35-435**

Comparison of areal snow storage sampling procedures for rangeland watersheds. Rawls, W.J., et al, [1980, p.71-82, eng] **35-1132**

Water balance of small river basins in permafrost areas. Vasilenko, N.G., [1980, p.11-32, rus] **35-1792**

Calculating maximum spring flood runoff. Goroshkova, N.I., [1980, p.33-43, rus] **35-1793**

Calculating river discharge in permafrost areas. Vladimirov, A.M., et al, [1980, p.44-53, rus] **35-1794**

Estimating washload produced by snowmelt erosion on small watersheds. Rendon-Herrero, O., [1980, p.66-83, eng] **35-1972**

Watershed information system. Thomsen, A.G., et al, [1980, p.14-25, eng] **35-2222**

Snowmelt modeling of upper Missouri River watersheds with SSARR. Cundy, T.W., et al, [1980, p.72-82, eng] **35-2229**

Subarctic snowmelt runoff generation. Kane, D.L., et al, [1981, p.591-601, eng] **35-2526**

Snow effect on cations within a small watershed. Pierson, D.C., et al, [1980, p.182-184, eng] **35-3158**

Wave propagation

Random waves attack on a composite breakwater. Yamamoto, M., et al, [1979, p.275-288, eng] **35-177**

Wave formation and heat transfer at an ice water interface. Gilpin, R.R., et al, [1980, p.619-640, eng] **35-521**

Microwave measurements of salt thickness. Unterberger, R.R., [1980, p.331-347, eng] **35-558**

Impulse radars. Van Etten, P., [1980, p.421-437, eng] **35-564**

Seismic wave velocities in frozen and thawed rocks. Dzhurik, V.I., [1980, p.96-103, rus] **35-776**

Breaking ice with gravity waves. Bates, H.F., et al, [1980, p.148-153, eng] **35-1108**

Slow waves at the surface of the Arctic Ocean. Fedorov, E.K., et al, [1980, p.1466-1468, rus] **35-1387**

Deflection of a floating ice sheet subjected to a moving load. Pt.2. Takizawa, T., [1978, p.69-78, jap] **35-1542**

Measurement of flexural waves on a breaking test of sea ice. Ishida, T., [1978, p.79-83, jap] **35-1543**

Reflectance of snow at millimeter wavelengths. Anderson, R.C., et al, [1980, 40p., eng] **35-1582**

Radar clutter models at 95GHz. Hayes, R.D., [1980, 13p., eng] **35-1590**

Analysis of non-steady plastic shock waves in snow. Brown, R.L., [1980, p.279-287, eng] **35-1822**

Report on an ice crossing at Riverhurst during the winter of 1974-75. Eyre, D., et al, [1976, 109p. + numerous figs., eng] **35-1842**

Propagation of stress waves in alpine snow. Brown, R.L., [1980, p.235-243, eng] **35-2366**

Model for snow-slab failure under conditions of dynamic loading. Johnson, J.B., [1980, p.245-254, eng] **35-2367**

Dynamic testing of free field stress gages in frozen soil. Aitken, G.W., et al, [1980, 26p., eng] **35-2601**

Wave-ice interaction. Evans, D.V., et al, [1968, 102p., eng] **35-2647**

Traveling wave solution to the problem of simultaneous flow of water and air through homogeneous porous media. Nakano, Y., [1981, p.57-64, eng] **35-2796**

Construction of seismically stable structures on permafrost. Kharitonov, V.A., [1980, 79p., rus] **35-2872**

Theoretical studies on motion of snow kicked up by a snowplow. Yoshida, Z., [1980, 36p., eng] **35-3709**

Wave propagation due to rain and ice crystals. Dilworth, J.J., et al, [1981, p.126-132, eng] **35-3884**

Wave propagation through snow and ice crystals. Hendry, A., et al, [1981, p.133-139, eng] **35-3885**

Ice depolarization at 11.7 and 19 GHz on slant paths in Virginia, USA. Bostian, C.W., et al, [1981, p.148-153, eng] **35-3886**

LNG carrier underwater noise study for Baffin Bay. Leggat, L.J., et al, [1981, 14p. + 14 figs., eng] **35-4223**

Pulse propagation in the central Arctic Ocean. Kutschale, H.W., [1981, 33 leaves, eng] **35-4256**

Weather

Weather from the ends of the earth. [1978, p.38-46, eng] **35-402**

Heavy metal enrichment in antarctic snow and firn. Warburton, J.A., et al, [1979, p.76-78, eng] **35-657**

Avalanche forecasting by discriminant analysis. Obled, C., et al, [1980, p.315-346, eng] **35-1825**

Antarctic climatic research. Dolgin, I.M., ed, [1980, 206p., rus] **35-2178**

Winter climatic conditions in the Somov Sea. Petrov, L.S., et al, [1980, p.72-78, rus] **35-2181**

Climatic role of snow covers. Kukla, G., [1981, p.79-107, eng] **35-3023**

Review of sea-ice weather relationships in the Southern Hemisphere. Ackley, S.F., [1981, p.127-159, eng] **35-3026**

Variations of sea ice conditions in Lützow-Holm Bay area, in Antarctica in the last 20 years. Kusunoki, K., [1981, p.171-176, eng] **35-3028**

Investigation of climate parameters under various weather conditions (anomalous years). Khrgian, A.Kh., ed, [1981, 164p., rus] **35-3967**

Weather forecasting

Calculating ship icing conditions. Korniushin, O.G., [1980, p.8-13, rus] **35-28**

Forecasting wind conditions in the North Atlantic Ocean. Birman, B.A., et al, [1980, p.14-37, rus] **35-29**

Extreme winds in the North Pacific. Gorbach, L.V., [1980, p.38-53, rus] **35-30**

Numerical forecast for snow cover distribution in the Ishikari Plain. Shiotsuki, Y., et al, [1978, p.46-66, eng] **35-573**

Forecasting winter air temperature in West Siberia. Sorokina, L.P., [1971, p.29-38, rus] **35-757**

Mathematical model of snowfall. Prokop'eva, I.P., [1980, p.18-24, rus] **35-1360**

Frost forecasts for Siberia. Khramtsova, I.G., [1980, p.48-55, rus] **35-1361**

Ice formation and breakup on Lake Champlain. Bates, R.E., [1980, p.125-143, eng] 35-3153
Stochastic models of air temperature in the North. Prival'skii, V.E., [1981, p.1342-1345, rus] 35-4275

Weather modification
Mathematical model of hail cloud dissipation. Zhekamukhov, M.K., et al, [1980, p.3-39, rus] 35-1199
Hail cloud dissipation. Volkova, N.A., et al, [1980, p.47-50, rus] 35-1201
Weather and flights of airplanes and helicopters. Astapenko, P.D., et al, [1980, 280p., rus] 35-1362
Seeding of thunderclouds. Zimin, B.I., [1980, p.30-36, rus] 35-2694
Turbulence in stratiform clouds in an artificial crystallization zone. Kudriavtseva, S.K., [1980, p.124-137, rus] 35-2995

Weather observations
Research activities at Mizuho Station, 1977. Fujii, Y., [1980, p.2-10, jap] 35-1268
Eddy formation in oceanic Subarctic fronts. Bulatov, N.V., [1980, p.61-72, rus] 35-1346
Snow and cloud physics in Arctic Canada. Magono, C., et al, [1980, p.1656-1664, eng] 35-1414
Weather satellite observations in the South Polar region. Gernandt, H., [1980, p.79-95, ger] 35-2436

Weather stations
Avalanche forecasting and protection at U.S. stations. Garreaud, E., [1981, p.58-63, fre] 35-4047

Weathering
Process in geomorphology. Embleton, C., ed, [1979, 436p., eng] 35-1684
Weathering in glacial, temperate and tropical climatic zones. Brunsden, D., [1979, p.73-129, eng] 35-1686
Nival processes. Embleton, C., [1979, p.307-324, eng] 35-1689
Weathering in some arctic-alpine soils. Ellis, S., [1980, p.371-385, eng] 35-1709
Quantitative evaluation of nivation in the Colorado Front Range. Thorn, C.E., [1976, p.1169-1178, eng] 35-1901
Geomorphological processes in the Canadian Cordillera. Slaymaker, O., [1974, p.319-332, eng] 35-1950
"Viviers" in the Hautes Fagnes and pingos. Pissart, A., [1974, p.359-381, fre] 35-1996
Volatile content of crude oil treated under different weathering conditions. Riley, R.G., et al, [1981, p.109-119, eng] 35-2937
Microclimate and weathering processes in the area of Darwin Mountains and Bull Pass, Dry Valleys. Miotke, F.-D., [1980, p.14-16, eng] 35-3168
Soil development and rock weathering in the Ellsworth Mountains. Bockheim, J.G., et al, [1980, p.33-34, eng] 35-3170

Weatherproofing
Window performance in extreme cold. Flanders, S.N., et al, [1981, p.396-408, eng] 35-2514

Weddell Sea
Continuum sea ice model for a global climate model. Ling, C.H., et al, [1980, p.187-196, eng] 35-2169
Sea-ice atmosphere interactions in the Weddell Sea using drifting buoys. Ackley, S.F., [1981, p.177-191, eng] 35-3029
Sea ice studies in the Weddell Sea aboard USCGC Polar Sea. Ackley, S.F., et al, [1980, p.84-96, eng] 35-3188
Some characteristics of the antarctic aerosols. Hogan, A., et al, [1980, p.78-86, eng] 35-3411

Wedges
Periglacial wedges of Wyoming's intermontane basins. Mears, B., Jr., [1981, p.171-198, eng] 35-3677

Welding
Special roller-supports for pipeline construction on swamps. Gabelaia, R.D., et al, [1980, p.33-34, rus] 35-314
Increasing frost resistance of steel structures. Sil'vestrov, A.V., [1980, p.3-8, rus] 35-1085
Blast treatment for increased strength of welded joints. Petushkov, V.G., et al, [1980, p.11-12, rus] 35-3015
Strength of welded pipeline joints at low temperatures. Kuchuk-IAtsenko, S.I., et al, [1980, p.1-3, rus] 35-3212
Frost resistance of butt-welded steel joints. Sil'vestrov, A.V., et al, [1981, p.24-26, rus] 35-3338
Several reasons for failure of field welded oil pipeline. [1980, p.8-9, eng] 35-3358

Well casings
Effect of a heat-conducting well casing on temperature distribution. Closmann, P.J., et al, [1979, p.20-27, eng] 35-1113
Oil and gas field development in permafrost areas. Skorobogatov, V.A., [1980, p.70-71, rus] 35-1610

Wells
Admixtures for plugging cements in cold regions. Batalov, D.M., et al, [1978, p.41-46, rus] 35-60
Heat release of cements hardening at subzero temperature. Batalov, D.M., et al, [1978, p.46-50, rus] 35-61
Thermal expansion of frozen rocks. Batalov, D.M., et al, [1978, p.51-55, rus] 35-62
Cement plugging of wells in permafrost areas. Zel'tser, P.IA., [1980, p.25-26, rus] 35-630
Oil and gas field development in permafrost areas. Skorobogatov, V.A., [1980, p.70-71, rus] 35-1610
Seasonal thermal storage in aquifer for utilization. Yokoyama, T., et al, [1980, p.1646-1654, eng] 35-1964
Builder's guide to water and energy. Seifert, R.D., et al, [1980, 78p., eng] 35-2021
Engineering studies of frozen ground. Soil properties and the dynamics of cryogenic processes. Gur'ianov, I.E., ed, [1981, 159p., rus] 35-3280
Heat transfer between permafrost and a well during drilling. Rusakov, V.G., et al, [1981, p.134-140, rus] 35-3291

Wet snow
Snow sliding from roofs by using river water. Fukazawa, D., [1976, p.188-195, jap] 35-261
Measurements of free water content of wet snow by calorimetric method. Akitaya, E., [1978, p.103-111, jap] 35-1179
Wet snow accretion on power lines under high wind speed. Wakahama, G., et al, [1978, p.169-180, jap] 35-1184
Liquid distribution and the dielectric constant of wet snow. Colbeck, S.C., [1980, p.21-39, eng] 35-1735
Liquid water content in a melting snowpack. Jones, E.B., et al, [1980, p.41-67, eng] 35-1736
Computing ice loads on television towers. Degtiarev, A.D., [1980, p.57-62, rus] 35-2985
Introduction to the basic thermodynamics of cold capillary systems. Colbeck, S.C., [1981, 9p., eng] 35-3712

Wettability
Water and air horizontal flow in porous media. Nakano, Y., [1980, p.81-85, eng] 35-844
Moisture gain and its thermal consequence for common roof insulations. Tobiasson, W., et al, [1980, p.4-16, eng] 35-2053

Wharves
Ice action on Nanisivik wharf, Strathcona Sound, N.W.T., winter 1978-1979. Frederking, R.M.W., [1980, p.558-563, fre] 35-836
Safety rules for docking ships under severe climatic conditions. Ivanov, L.V., et al, [1980, 152p., rus] 35-3897

Whiteout
Aids for improving vision in white-out. Schlichting, C.L., et al, [1980, 23p., eng] 35-1416

Wind direction
Wind condition charts for the BAM area. Romanova, E.N., [1980, p.23-34, rus] 35-1196
Microclimatology of the Chara Basin. Kalashnikov, A.V., [1980, p.35-42, rus] 35-1197
Sea ice, temperature variations, and atmospheric changes in the Bering Sea. Niebauer, H.J., [1980, p.7507-7515, eng] 35-1912

Wind erosion
Causes of mountain glacier oscillation in antarctic dry valleys. Miagkov, S.M., [1980, p.95-98, rus] 35-2040

Wind factors
Designing overhead power lines for mountains. Tikhanova, O.P., et al, [1980, p.49-53, rus] 35-311
Sea Ice-75: Dynamical report. Udin, I., et al, [1976, 64p., eng] 35-531
Snow, wind and vegetation in the Front Range, Colorado. Marr, J.W., [1980, p.1-15, eng] 35-577
Weddell Sea ice moving into mid-latitude westerlies. Schwerdtfeger, W., [1979, p.108-109, eng] 35-677
Effect of wind on heat transfer in snow. Reimer, A., [1980, p.129-137, eng] 35-727
Variations of August ice cover in the Beaufort Sea. Dey, B., [1980, p.213-217, eng] 35-894
Himalayan glacier fluctuations and south Asian monsoons. Mayewski, P.A., et al, [1980, p.171-182, eng] 35-1659
Polynya development in the Cape Thompson-Point Hope region, Alaska. Carleton, A.M., [1980, p.205-214, eng] 35-1662
On the drift and deformation of sea ice fields in the Bothnian Bay. Leppäranta, M., [1980, 79p., eng] 35-1758
Heat budgets of the Southeast Beaufort Sea for the years 1974 and 1975. Tummers, E.L., [1980, 204p., eng] 35-1777
Detuning for controlling galloping of single conductor transmission lines. Havard, D.G., [1979, 6p., eng] 35-1880
Some satellite-tracked iceberg drifts in the Antarctic. Vinje, T.E., [1980, p.83-87, eng] 35-2211
Snow evaporation under a forest canopy during a chinook. Swanson, R.H., [1980, p.26-30, eng] 35-2223
Snow drifting on phosphate mine dumps in southeastern Idaho. Chacho, E., et al, [1980, p.31-42, eng] 35-2224
Self-similarity of wind profiles in blowing snow allows outdoor modeling. Tabler, R.D., [1980, p.421-434, eng] 35-2383
Distribution of subzero air temperatures in Caucasian mountains. Aslanikashvili, N.A., et al, [1980, p.80-88, rus] 35-2988
Snow gage accuracy in the Arctic. Briazgin, N.N., et al, [1980, p.101-103, rus] 35-3123
Surface meteorological processes in the Antarctic. Helbig, A., [1979, p.111-122, ger] 35-3488
Eastern Bering Sea ice processes. Pease, C.H., [1980, p.2015-2023, eng] 35-3647
Arctic Canada sea ice and weather conditions, summer 1978. Dey, B., [1980, p.2092-2097, eng] 35-3654
Snow drifting. Kind, R.J., [1981, p.338-359, eng] 35-3753
Role of the winter land breeze in the formation of Great Lake snow storms. Passarelli, R.E., Jr., et al, [1981, p.482-491, eng] 35-4005
Problems of the Arctic and the Antarctic, collection of articles; Vol. 48, 1976. Treshnikov, A.F., ed, [1981, 173p., eng] 35-4129
On the possibility of determining water exchange of the Arctic Basin caused by wind over it. Gusarova, S.P., [1981, p.40-51, eng] 35-4131
Method of determining water exchange of the Arctic Basin with a random wind field: barotropic model. Gusarova, S.P., [1981, p.52-59, eng] 35-4132
Bering Sea ice-edge phenomena. Martin, S., et al, [1980, p.189-211, eng] 35-4140
Using bridges as river crossings of power lines. Shchepetkin, A.N., et al, [1981, p.64-66, rus] 35-4285

Wind (meteorology)
Weather from the ends of the earth. [1978, p.38-46, eng] 35-402
Index and analysis of surface temperature and wind frequency data. Rayner, J.N., [1961, 18p. + tables, eng] 35-2022
Review of sea-ice weather relationships in the Southern Hemisphere. Ackley, S.F., [1981, p.127-159, eng] 35-3026
Ice discharge from the Shirase drainage basin. Fujii, Y., [1981, p.1-15, eng] 35-4220

Wind power generation
Using wind power and solar radiation for heating. Cromack, D.E., [1979, 110p., eng] 35-522
Wind power generation for sanitation services in the North. Crawford, M.A., et al, [1980, p.89-104, eng] 35-2111

Wind pressure
Marine geology and geotechnical engineering, OTC, 13th, 1981. [1981, 514p., eng] 35-3455
Wind and snow load statistics for probabilistic design. Ellingwood, B., [1981, p.1345-1350, eng] 35-4004
Inflatable structures in power engineering. Kul'nev, A.N., [1981, p.32-36, rus] 35-4230

Wind tunnels
On the formation of snow crystals in a vertical wind tunnel. Furukawa, Y., et al, [1980, p.29-32, jap] 35-1065
Wet snow accretion on power lines under high wind speed. Wakahama, G., et al, [1978, p.169-180, jap] 35-1184
Studying hail nuclei in wind tunnels. Tlisov, M.I., et al, [1975, p.122-139, rus] 35-1620
Drifting-snow similitude—transport-rate and roughness modeling. Iversen, J.D., [1980, p.393-403, eng] 35-2381
Ice forming properties of AgI. Kim, N.S., [1980, p.89-98, rus] 35-2698
Assembly for measuring the size of ice-forming particles. Beliaev, S.P., et al, [1980, p.57-63, rus] 35-2865
Wind tunnel modeling of snow fences and natural snow fence controls. Iversen, J.D., [1980, p.106-124, eng] 35-3152
Electrification by collisions of ice particles on ice or metal targets. Buser, O., et al, [1977, p.294-301, eng] 35-3777
Wind-tunnel analysis of the effect of plantings on snowdrift control. Ring, S.L., [1980, p.8-12, eng] 35-3785

Wind velocity
Forecasting wind conditions in the North Atlantic Ocean. Birman, B.A., et al, [1980, p.14-37, rus] 35-29
Extreme winds in the North Pacific. Gorbach, L.V., [1980, p.38-53, rus] 35-30
Analysis of snow evaporation measurements. Lauscher, F., [1978, p.193-198, ger] 35-33
Surface and geostrophic winds over pack ice. Feldman, U., et al, [1979, p.421-429, eng] 35-157
Physical aspects of the wind-snow interaction in blowing snow. Maeno, N., et al, [1979, p.127-141, eng] 35-517
Vertical profile and horizontal increase of drift snow transport. Takeuchi, M., [1979, p.143-156, eng] 35-518
Radio echo sounding of surface atmospheric layer. Babkin, S.I., et al, [1980, p.36-45, rus] 35-770
Horizontal coherency of the motion of summer Arctic sea ice. Colony, R., et al, [1980, p.1281-1289, eng] 35-1052
Wind condition charts for the BAM area. Romanova, E.N., [1980, p.23-34, rus] 35-1196
Microclimatology of the Chara Basin. Kalashnikov, A.V., [1980, p.35-42, rus] 35-1197
Study on ablation hollows on a melting snow surface. Takahashi, S., [1978, p.13-46, jap] 35-1538
Free drift of sea ice: a comparison of models. Gaskill, H.S., et al, [1980, 132p., eng] 35-1845
Snow evaporation under a forest canopy during a chinook. Swanson, R.H., [1980, p.26-30, eng] 35-2223
Interaction between wind and snow surface. Kobayashi, S., et al, [1979, p.35-47, eng] 35-2245
Symposium on snow in motion. [1980 527p., eng] 35-2342
Drifting-snow similitude—transport-rate and roughness modeling. Iversen, J.D., [1980, p.393-403, eng] 35-2381
Slip-velocity hypothesis of wind flow over a snow cover. Bergen, J.D., [1980, p.447-452, eng] 35-2385

Wind velocity *(cont.)*
Threshold wind-speeds and elastic impact in snow transport. Schmidt, R.A., [1980, p.453-467, eng] **35-2386**
Snow transport over mountain crests. Föhn, P.M.B., [1980, p.469-480, eng] **35-2387**
Vertical profile and horizontal increase of drift-snow transport. Takeuchi, M., [1980, p.481-492, eng] **35-2388**
Inertial oscillations in ice floe motion, Beaufort sea. Khandekar, M.L., [1980, p.1-14, eng] **35-2457**
Sand dunes of Victoria Valley, Antarctica. Calkin, P.E., et al, [1974, p.189-216, eng] **35-3139**
Far North air temperature and wind velocity variations in winter. Sorokina, I.P., [1980, p.41-51, rus] **35-3415**
Wind and snow load statistics for probabilistic design. Ellingwood, B., [1981, p.1345-1350, eng] **35-4004**

Windows
Periodically interrupted, long, narrow ice lanes on high-level windows. Lenggenhager, K., [1980, p.245-248, ger] **35-986**
Improving watertightness of large panel buildings. Omel'chenko, A.A., et al, [1980, 95p., rus] **35-1575**
Window performance in extreme cold. Flanders, S.N., et al, [1981, p.396-408, eng] **35-2514**
Economic effectiveness of optimizing the amount of thermal insulation of buildings. Boguslavskii, L.D., [1981, 102p., rus] **35-3965**
Construction thermodynamics (microclimate and thermal insulation of buildings). Ushkov, F.V., ed, [1979, 133p., rus] **35-4055**
Turbulent heat transfer at vertical surfaces. Savin, V.K., [1979, p.87-94, rus] **35-4061**

Winter
Mean winter temperature anomalies over the U.S., 1895-1979. Diaz, H.F., [1980, 88p., eng] **35-707**
Persistence of winters in plains of the Soviet Union. Il'icheva, E.M., et al, [1981, p.24-44, rus] **35-3968**

Winter concreting
Frost resistance of steamed concretes containing surfactants. Koval'skaia, N.N., et al, [1980, p.13-15, rus] **35-470**
Strength of concretes with antifreeze admixtures. Krylov, B.A., et al, [1979, p.27-28, rus] **35-474**
Heating equipment for winter concreting. Mal'tsev, B.A., [1979, p.27-28, rus] **35-482**
Winter and summer control of concrete temperature. Gunter, H.S., et al, [1980, p.19-22, rus] **35-602**
Modern methods of road construction. Smirnov, L.V., [1980, p.45-47, rus] **35-609**
Admixture for increasing concrete frost resistance. Pavlov, V.P., et al, [1980, p.13-14, rus] **35-781**
Electrically heated concrete mixtures. Arben'ev, A.S., [1980, p.87-91, rus] **35-1088**
Concrete mixer for winter concreting. Khapt, M.I., [1980, p.23-25, rus] **35-1141**
Antifreeze admixtures for winter concreting. Dobshits, L.M., [1979, p.47-55, rus] **35-1278**
Frost resistance of concretes of different strengths. Mironov, S.A., et al, [1980, p.14-16, rus] **35-1648**
Concrete and reinforced concrete cast-in-place structures. [1977, 27p., rus] **35-1717**
Instructions for using formwork for cast-in-place reinforced concrete structures, No.3, [1974, 142p., rus] **35-1719**
Regulated set concrete for cold weather construction. Sa'les, F.H., et al, [1980, p.291-314, eng] **35-1983**
Thermoactive forms for concrete construction in cold regions. Topchii, V.D., [1980, p.315-321, eng] **35-1984**
Vacuum degassing in construction technology of the North. Polonskii, L.A., [1980, 175p., rus] **35-2048**
Effect of slag cement on frost resistance of concrete. Fagerlund, G., [1980, 86p., eng] **35-2060**
Winter concreting of road pavements. Modylevskii, A.B., et al, [1981, p.48-49, rus] **35-2100**
Concrete mixer SB-119. Ushakov, B.I., [1980, p.12, rus] **35-2622**
Admixture dosing devices for concretes. Korolev, K.M., [1980, p.13-14, rus] **35-2623**
Cooling rate of fresh concrete in freezing weather. Zubkov, V.I., [1980, p.99-104, rus] **35-2771**
Operating water intakes in freezing weather. Medvedev, T.A., [1981, p.4-5, rus] **35-2773**
Concrete and reinforced concrete work. Construction manual. Topchii, V.D., ed, [1980, 201p., rus] **35-2880**
Heating aggregates for winter concreting. Zemzerov, S.N., et al, [1980, p.27, rus] **35-3001**
Forecasting frost resistance of concretes. Sheikin, A.E., et al, [1981, p.19-20, rus] **35-3002**
Studying frost resistance of concrete. Poliakov, B.I., et al, [1980, p.52-53, rus] **35-3014**
Prolonging the service life of concrete in transport structures. Sheikin, A.E., ed, [1980, 158p., rus] **35-3524**
Dosing of antifreeze admixtures for winter concreting. Mamedov, A.A., et al, [1980, p.18-25, rus] **35-3526**
Strength of mortars with antifreeze admixtures. Kuntsevich, O.V., et al, [1980, p.26-34, rus] **35-3527**
Corrosion of concrete reinforcements from antifreeze admixtures. Sheikin, A.E., et al, [1980, p.35-44, rus] **35-3528**
Induced polarization of concretes with antifreeze admixtures. Kurushin, A.D., et al, [1980, p.52-58, rus] **35-3529**
Properties of concretes placed in freezing weather. Abramenko, N.A., [1980, p.130-135, rus] **35-3530**
Winter concreting in heated formwork. Petrukhno, E.P., [1980, p.833-837, eng] **35-3816**
Portland cement work in cold weather in Europe and America. Tu, F., [1980, 238p., chi] **35-4012**
Construction of tall gravity dams in the North. Efimenko, A.I., et al, [1981, p.4-11, rus] **35-4280**
Winter concreting. Sadovskii, S.I., et al, [1981, p.19-21, rus] **35-4283**
Automatically raising shelters for winter concreting. Krattser, A.L., et al, [1981, p.21-24, rus] **35-4284**

Winter maintenance
Winter maintenance of railroad tracks. Buzunov, Z.T., [1980, p.10-11, rus] **35-5**
Handbook for winter road service. Ahlbrecht, H., et al, [1978, 319p., ger] **35-152**
Winter maintenance of construction equipment. Taits, V.G., [1980, p.11-14, rus] **35-446**
Winterizing railroad equipment and machines. Golovinov, G.G., et al, [1980, p.57-58, rus] **35-457**
Winter maintenance and repair base for the army. Vasil'ev, V., [1980, p.63-66, rus] **35-494**
Wintertime deicing: let the pavement do the work. [1980, p.37-40, eng] **35-524**
Winter maintenance of road pavements. [1980, p.12-25, eng] **35-529**
Operation of the lubrication, hydraulic and pneumatic systems of construction machines under northern conditions. Garkavi, N.G., et al, [1979, 111p., rus] **35-814**
Winter operation of river navigation structures. Gol'din, E., [1980, p.23, rus] **35-912**
Ice friction against ship's body. Vinogradov, E.S., [1976, p.86-90, rus] **35-935**
New high-efficiency snowplows. Kolchin, M., [1980, p.14-15, rus] **35-938**
Pavement repair in freezing weather. Shvidko, I.A.I., et al, [1980, p.25-26, rus] **35-941**
Winter maintenance of roads. Karaban, G.L., [1980, p.6-8, rus] **35-1021**
Snow retention structures along roads. Filippov, I.V., [1980, p.9-10, rus] **35-1022**
Winter maintenance. [1980, p.10-15, eng] **35-1262**
Report on an ice crossing at Riverhurst during the winter of 1974-75. Eyre, D., et al, [1976, 109p. + numerous figs., eng] **35-1842**
Winterize equipment for best performance. [1980, p.51-57, eng] **35-1876**
Sanitation facilities operation and maintenance in Alaskan villages. Rogness, D.R., [1980, p.239-247, eng] **35-2121**
Thawing of frozen water services. Currey, R., [1980, p.310-313, eng] **35-2125**
Thermodynamic analysis of the water distribution system in Inuvik, N.W.T. Hull, J.A., [1980, p.332-346, eng] **35-2127**
Winterize equipment to conserve fuel, improve operation. [1980, p.53, eng] **35-2137**
Winter maintenance of access roads. Bulatkin, R., [1978, p.78-80, rus] **35-2451**
Parking deck deterioration from chlorides. Jacobson, N.G., et al, [1981, p.438-448, eng] **35-2517**
Some aids for solving winter weather problems. [1980, p.15-25, eng] **35-2560**
Time to end hard wintertime starting. [1981, p.48, eng] **35-2562**
Snowplows DE-223 and DE-225. [1981, p.25, rus] **35-2849**
Gantry crane for cold regions. Taits, V.G., et al, [1981, p.21-22, rus] **35-2853**
Winter Olympics will open with assist by two midwest machine manufacturers. [1980, p.32-34, eng] **35-2933**
101 modern machines keep Olympics moving. [1980, p.28, eng] **35-2934**
Prevention of road pavement icing. Rudakov, L.M., et al, [1980, p.11, 21, rus] **35-3005**
Five stage program beats snow with Toledo's mobilized forces. [1980, p.9-11, eng] **35-3207**
Vessel's hull work in ice. Khristov, R., et al, [1981, p.47, rus] **35-3483**
Snow removal service for a medium-sized lowland city. [1981, p.23-32, ita] **35-3511**
Snow and living things. McKay, G.A., et al, [1981, p.3-31, eng] **35-3746**
Snow removal equipment. Minsk, L.D., [1981, p.648-670, eng] **35-3762**
Snow and ice control on railroads, highways and airports. Minsk, L.D., et al, [1981, p.671-706, eng] **35-3763**
Safety rules for docking ships under severe climatic conditions. Ivanov, L.V., et al, [1980, 152p., rus] **35-3897**
Shelters for winter maintenance of equipment. Taits, V.G., [1981, p.10-12, rus] **35-4279**

Wood
Tree bark in road pavement construction. Lukina, V.A., et al, [1980, p.124-127, rus] **35-1090**

Wooden structures
Wooden panel houses for cold regions. Syrtsov, G., [1980, p.46-49, rus] **35-928**
Wooden structures for the North. Dmitriev, P.A., [1980, p.15-12, rus] **35-1086**
Facings of dome-shaped structures built under severe climatic conditions. Lipnitskii, M.E., [1981, 136p., rus] **35-3864**

Work time standards
Workers outposts in the North. Portianko, N.G., et al, [1980, p.11-12, rus] **35-614**
Worker's compensation in the Far North. [1980, p.30-31, rus] **35-914**
Performance of modern technical equipment in the North. Skrybykin, A.N., [1978, p.24-31, rus] **35-4111**

X ray analysis
Low temperature RKI-1114M X-ray equipment. Prokhvatilov, A.I., [1979, p.916-917, rus] **35-340**
Plastic deformation of fresh-water ice. Bogorodskii, V.V., et al, [1980, p.43-50, rus] **35-368**

X ray diffraction
Formation of concentric dislocation loops in ice crystals. Oguro, M., et al, [1981, p.71-80, eng] **35-1069**