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ARCTIC INSTITUTE OF NORTH AMERICA
RESEARCH PROJECTS SUPPORTED BY CONTRACTUAL
ARRANGEMENT BETWEEN OFFICE OF NAVAL RESEARCH
AND ARCTIC INSTITUTE OF NORTH AMERICA.

CONTRACTS N7onr-367 and Nonr-342-00

FIFTH SEMIANNUAL PROGRESS REPORT.
1 January - 30 June 1952

ARCTIC INSTITUTE OF NORTH AMERICA

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FIFTH SEMIANNUAL PROGRESS REPORT.

1 January - 30 June 1952

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*.Completed project.

PREFACE

This Semiannual Progress Report summarizes the status of all Arctic Institute-ONR Projects during the period 1 January - 30 June 1952. References to publications and reports, resulting from projects listed as completed in the last Semiannual Progress Report appearing since the last report, are included even though the projects themselves are no longer current.

The following projects have been completed during the period 1 January - 30 June 1952:

Contract N7onr-367, Task Order I:

ONR-13, 20 (Dr. J. L. Giddings, Jr.)	The Extension of the Tree-ring Chronology in Alaska by Further Excavation so as to Date the Early Phases of Eskimo Culture in the Bering Strait Region.
ONR-16 (Dr. Marie Hammer)	A Study of the Microfauna of Arctic Shore Areas (Coppermine and Hudson Bay, Canada).
ONR-21, 48 (Dr. Frederica deLaguna)	An Ethnological-Archaeological Study of the Development of Tlingit Culture in Southeastern Alaska.
ONR-32, 57 (Dr. Xavier J. Musacchia)	A Study of the Carbohydrates and Lipids of the Invertebrates and Vertebrates of the Point Barrow Region, Alaska.
ONR-47 (Dr. Edmund S. Carpenter)	Archaeological, Geological, and Ethnological Investigations at Southampton Island, Northwest Territories, Canada.
ONR-51 (Dr. Herbert C. Hanson)	A Study of the Phytogeography, Location, and Condition of Reindeer Range and of the Management of Reindeer in Western Alaska.
ONR-59 (Wendell H. Oswalt)	An Archaeological Survey from the South Mouth of the Yukon River, Alaska, to Hazen Bay, with the Excavation of the Most Promising Site Located by this Survey.

Contract N7onr-367, Task Order I: (Con't.)

ONR-60
(Robert F. Scott)

An Aerial Survey of Dall Sheep in
Alaska to Determine Limits of Range,
and Present Distribution and Abundance.

ONR-62
(Dorothy J. T. Thompson)

A Study of the Social and Economic
Organization in a Northern Market
Town (Nome, Alaska) with Emphasis on
the Position of the Eskimo.

ONR-63
(Dr. John W. Thomson, Jr.)

A Study of the Lichens of the West
Coast of Hudson Bay, Their Ecology,
Distribution and Abundance.

Details concerning the completion of the above projects are included
in the present Semiannual Progress Report. They will be automatically
dropped in the next Report, except for mention of any pertinent publica-
tions and reports that have appeared in the interim.

CONTRACT N7onr-367, TASK ORDER I

Project: A Study of the Ethnological and Physical Anthropologies
ONR-11 of Eskimos in the region between Norton Sound and the
Alaskan Peninsula.

Investigator: Dr. Helge Larsen
Etnografisk Samling
Nationalmuseet
10 Ny Vestergade
Kobenhavn, Denmark

Amount
from AINA: \$2610.

Date initiated: 1948.

Anticipated
completion date: Spring 1953.

Status: Technical report is in process of preparation.

ONR-13
ONR-20

Project: The Extension of the Tree-ring Chronology in Alaska
ONR-13, 20 by further excavation so as to Date the Early Phases
of Eskimo Culture in the Bering Strait Area.

Investigator: Dr. J. L. Giddings, Jr.
The University Museum
University of Pennsylvania
Philadelphia 4, Pennsylvania

Amount \$2610. (ONR-13)
from AINA: \$2500. (ONR-20)

Date initiated: 1948 (ONR-13)
1949 (ONR-20)

Status: Completed.

The following publications have appeared in addition
to those previously noted:

Giddings, J.L. Jr. The Forest Edge at Norton Bay,
Alaska. Appeared in The Tree-Ring Bulletin, vol. 18,
No. 1, p. 2-6. (Separates forwarded ONR-Washington &
New York and Nav. Res. Lab., 25 February 52.)

The following reports have been prepared in addition
to those previously noted:

Giddings, J. L. Jr. and Hopkins, D. M. Geologic Back-
ground of Iyatayet, Archaeological Site, Cape Denbigh,
Alaska. Manuscript. (Copies forwarded ONR-Washington
and New York, 12 June 52.)

Giddings, J. L. Jr. Nukleet, and Notes on Iyatayet--
Sites on Cape Denbigh. Technical report. (Copies
forwarded ONR-Washington and New York, 10 July 52.)

Project: A Cooperative Study to Determine the Development
ONR-14 Sequence in Human Culture, Vegetation, etc. in Yukon
Territory, Canada.

Investigator: Professor Hugh M. Raup
Director, Harvard Forest
Harvard University
Petersham, Massachusetts

(Cooperative project with Dr. Frederick Johnson.)

Amount from
AINA: \$2610.

Date initiated: 1948.

Anticipated
completion date: Spring 1953.

Status: Determination of the collections has been completed
and the field data related to them collated in such a
way as to form a working list. A large portion of the
specimens upon which the earlier publications were
based have been examined. When work on the earlier
collections is completed, a combined list involving new
collections will be made and a catalog of the vascular
plants prepared.

Project: A Study of the Microfauna of Arctic Shore Areas.
ONP-16 (Coppermine and Hudson Bay, Canada.)

Investigator: Dr. Marie Hammer
Strodam, Hillerod,
Denmark

Amount from
AINA: \$2610.

Status: Completed.

The following reports have been received in addition to those previously noted:

Hammer, Marie. Investigations on the Microfauna of Northern Canada, Part I, Oribatidae and A New Oribatid (Acarina) from the Rocky Mountains. Technical Report. (Manuscript copies forwarded ONR-Washington and New York, 4 April 52.)

(Because of the great number of specimens collected by this investigator, further reports are expected to appear in print for several years to come.)

The following publications have appeared in addition to those previously noted:

Hammer, Marie. Investigations on the Microfauna of Northern Canada, Part I, Oribatidae. Appeared in Acta Arctica, Fasc. IV, 1952. (Separates forwarded ONR-Washington and New York and Nav. Res. Lab., 9 July 52.)

ONR-19
ONR-52

Project: An Archaeological reconnaissance along the West Coast
ONR-19, 52 of Newfoundland with a view to Elucidating the Pre-
historic Cultures of Newfoundland.

Investigator: Elmer Harp, Jr.
Dartmouth College Museum
Hanover, New Hampshire

Amount
from AINA: \$1200. (ONR-19)
\$1400. (ONR-52)

Date initiated: 1949 (ONR-19)
1950 (ONR-52)

Anticipated
completion date: Fall 1952.

Status: Technical report in process of preparation.

ONR-21
ONR-48

Project: An Ethnological-Archaeological Study of the Development
ONR-21, 48 of Tlingit Culture in Southeastern Alaska.

Investigator: Prof. Frederica de Laguna
Bryn Mawr College
Bryn Mawr, Pennsylvania

Amount \$2500. (ONR-21)
from AINA: \$2000. (ONR-48)

Date initiated: 1949. (ONR-21)
1950. (ONR-48)

Status: Completed.

The following publications have appeared in addition to those previously noted:

de Laguna, Frederica. Some Dynamic Forces in Tlingit Society. Published in Southwestern Journal of Anthropology, Vol. 8, No. 1. (Separates forwarded ONR-Washington and New York and Nav. Res. Lab., 22 April 52.)

The following reports have been prepared in addition to those previously noted:

de Laguna, Frederica. Some Problems in the Relationship between Tlingit Archaeology and Ethnology. Manuscript. (Copies forwarded ONR-Washington and New York, 5 February 52.)

de Laguna, Frederica. The Story of a Tlingit Community. Technical report. (Copies forwarded ONR-Washington and New York, 10 July 52.)

Project: A Study of the Fur Seals of the Pribilof Islands
 ONR-24 (Alaska) with Special Reference to the Behavior and
 Methods of Age Determination of Seals and the
 Utilization of the Carcasses.

Investigator: Dr. G. C. L. Bertram
 Director, Scott Polar Research Institute
 Cambridge, England

Amount
from AINA: \$2500.

Date initiated: 1949.

Anticipated
completion date: Winter 1952.

Status: Laboratory work is proceeding at Cambridge. Dr.
 Bertram reports work on the development of an
 interesting technique in assessing age of seals from
 a study of the teeth.

Project: A Waterfowl Nesting Survey of Ungava Peninsula with
ONR-26 Particular Reference to the Black Duck.

Investigator: Carl R. Eklund
Fort Washington, Maryland

Amount
from AINA: \$2500.

Date initiated: 1949.

Status: Completed.

The following reports have been prepared in addition
to those previously noted:

Eklund, Carl R. An Analysis of Waterfowl in the Interior
Ungava Peninsula Based on Aerial Photographs. Technical
report. (Copies forwarded ONR-Washington and New York,
19 March 52.)

Eklund, Carl R. and Polunin, N. Notes on Food Habits
of the Canada Goose in the Interior of the Ungava Penin-
sula. Technical report. (Copies forwarded ONR-Washington
and New York, 9 May 52.)

Technical report is in process of preparation.

Project: A Faunistic and Ecological Exploration of the Lepidoptera,
ONR-29 Diptera, and Hymenoptera of Newfoundland.

Investigator: Dr. Harry V. Krogerus
Mannersheimvagen 25A
Helsinki, Finland

(Cooperative project with Drs. Lindroth, ONR-30;
Palmen, ONR-33; and Tuomikoski, ONR-35.)

Amount
from AINA: \$1625.

Date initiated: 1949.

Anticipated
completion date: Spring 1953.

Status: Analysis has been determined of the collections of
300 species and 3000 specimens obtained by Dr. Krogerus
in 1949 and of 30 species collected by Dr. Lindroth in
1951. Determination has continued of the Microlepidop-
tera of Newfoundland. The first part of the manuscript
on the Macrolepidoptera of Newfoundland should be
completed in the near future.

Project: A Faunistic and Ecological Exploration of the Coleoptera
ONR-30 (especially the Carabidae) of Newfoundland.

Investigator: Dr. Carl H. Lindroth
 Zoological Institute
 Lund, Sweden

(Cooperative project with Drs. Krogerus, ONR-29;
 Palmén, ONR-33; and Tuomikoski, ONR-35.)

Amount
from AINA: \$1625.

Date initiated: 1949.

Anticipated
completion date: Spring 1953.

Status: A series of maps illustrating the distribution of
 all species of Carabid beetles found in Newfoundland
 has been compiled. Manuscript of the report on this
 work is in preparation.

ONR-32
ONR-57

Project: A Study of the Carbohydrates and Lipids of the
ONR-32, 57 Invertebrates and Vertebrates of the Point Barrow
Region, Alaska.

Investigator: Dr. Xavier J. Musacchia
Department of Biology
St. Louis University
St. Louis 4, Missouri

Amount \$750. (ONR-32)
from AINA: \$200. (ONR-57)

Date initiated: 1949 (ONR-32)
1950 (ONR-57)

Status: Completed.

The following reports have been prepared in addition
to those previously noted:

Musacchia, X. J. The Effect of Elevated Temperatures
upon the Tissue Chemistry of the Arctic Sculpin,
Myoxocephalus Quadricornis. Technical Report. (Copies
forwarded ONR-Washington and New York, 3 March 52.)

Musacchia, X. J. A Study of the Lipids and Carbohydrates
in Arctic Animals. Technical Report. (Copies forwarded
ONR-Washington and New York, 19 June 52.)

Project: A Faunistic and Ecological Exploration of the Diplopoda,
ONR-33 Chilopoda, Isopoda terrestria, and in Part of the
Phytophagous Coleoptera (Chrysomelidae, Curculionidae)
of Newfoundland.

Investigator: Dr. Ernst P. Palmen
Zoological Institute
University of Helsinki
Helsinki, Finland

Amount
from AINA: \$1625.

Date initiated: 1949.

Anticipated
completion date: Summer 1953.

Status: Technical report is in process of preparation.

The following reports have been received in addition
to those previously noted:

Palmen, Ernst. A Survey of the Diplopoda of Newfoundland. technical report. (Copies forwarded ONR-Washington and New York, 25 June 52.)

Project: A Waterfowl Survey of the Perry River Area of Northern
ONR-34 Canada.

Investigator: Paul Queneau, Peter M. Scott, Harold C. Hanson
c/o Paul Queneau
1 St. John Place
Westport, Connecticut

Amount
from AINA: \$2500.

Date initiated: 1949.

Anticipated
completion date: Summer 1952.

Status: Technical report is in process of preparation.

The following reports have been received in addition
to those previously noted:

Mills, Harlow B. and Richards, W. R. Collembola from
Arctic and Boreal Canada. Pre-publication manuscript
submitted to Canadian Entomologist. (Copies forwarded
ONR-Washington and New York, 20 February 52.)

Levine, Norman D. Eimera Dicrostomus N. Sp., A
Protozoan Parasite from Arctic Rodents. Prepublication
manuscript submitted to The Illinois Academy of Science
(Annual). (Copies forwarded ONR-Washington and New York,
20 February 52.)

Hanson, Harold C. A New Race of Red-backed Vole
(Clethrionomys Rutilus) from the Barren Grounds of
Canada. Technical report. (Copies forwarded ONR-
Washington and New York, 18 April 52.)

Project: A Floristic and Ecological Exploration of the Bryophyta
ONR-35 of Newfoundland.

Investigator: Dr. Risto K. Tuomikoski
Botanical Institute
University of Helsinki
Unionink. 44
Helsinki, Finland

**Amount
from AINA:** \$1625.

Date initiated: 1949.

**Anticipated
completion date:** Winter 1952.

Status: The determination work on the moss material collected in Newfoundland 1949, especially the more critical groups, has been continued. Dr. H. Persson, Stockholm, has finished the determination work on the genus Bryum. Additional material of Newfoundland mosses has been received from Dr. W. Campbell Steere, Stanford University, for determination.

Project: A Study of the Economic Geography of the Fort Yukon
-ONR-37 Area.

Investigator: Dr. Demitri B. Shimkin
Russian Research Center
Harvard University
Cambridge, Massachusetts

Amount
from AINA: \$1200.

Date initiated: 1949.

Anticipated
completion date: Spring 1953.

Status: Technical report is in process of preparation.

This study was made with a view to correlating patterns of development in comparable regions of the American and Soviet Arctic. Dr. Shimkin concludes that two points of general significance should definitely be made: (1) that the problem of tuberculosis which is the fundamental cause of mortality in this area is above all an economic rather than a medical problem; and (2) with the extraordinary reproductive potential of this area any considerable reduction in death rates would cause an explosive population growth and render even more impracticable dependence upon a hunting, fishing pattern of subsistence.

Project: A Study of the Peripheral Circulation in Acclimatized
ONR-42 Eskimo Subjects on Southampton Island, Northwest
Territories, Canada.

Investigator: Dr. Malcolm Brown
Kingston General Hospital
Kingston, Ontario, Canada

Amount
from AIWA: \$500.

Date initiated: 1949.

Anticipated
completion date: Summer 1952.

Status: Technical report is in process of preparation.

Project: A Glaciological, Geological, and Biological Investigation of the River Clyde Region, Northeastern Baffin Island, Canada.

Investigator: Patrick D. Baird
Arctic Institute of North America
3485 University Street
Montreal, Quebec, Canada

**Amount
from AINA:** \$8000.

Date initiated: 1950.

**Anticipated
completion date:** Winter 1952.

Status: Technical report is in process of preparation.

The following reports have been received in addition to those previously noted:

Ward, W. H. The Glaciological Studies of the Baffin Island Expedition 1950, Part III, Equipment and Techniques. Technical report. (Copies forwarded ONR-Washington and New York, 29 March 52.)

Project: Field Population Studies of Ranunculus Species Occuring
in Northern Alaska.
ONR-44

Investigator: Prof. Lyman D. Benson
Department of Botany
Pomona College
Claremont, California

Amount
from AINA: \$500.

Date initiated: 1950.

Anticipated
completion date: Spring 1953.

Status: Dr. Benson is planning to return to Alaska during the
summer of 1952 to complete his field population
studies of the Ranunculi species occuring in northern
Alaska.

The following reports have been prepared in addition to
those previously noted:

Benson, Lyman D. The Ranunculi of the Alaskan Coastal
Plain and the Brooks Range. Technical report. (Copies
forwarded ONR-Washington and New York, 24 March 52.)

Project: A Complete Survey of the Avifauna of St. Lawrence Island, Alaska, Particularly to Study the Feeding and Nesting Habits and the Ecological Associations of the Various Species.
ONR-46

Investigator: Thomas J. Cade
University of Alaska
College, Alaska

Status: Completed, Spring 1951.

**Additional
publications and
Reports:**

The following publications have appeared in addition to those previously noted:

Cade, T. J. (1952) Notes on the Birds of Sledge Island, Bering Sea, Alaska. Published in Condor, Vol. 54. (Separates forwarded to ONR-Washington and New York and Nav. Res. Lab., 11 March 52.)

Project: Archaeological, Geological, and Ethnological
ONR-47 Investigations at Southampton Island, Northwest
Territories, Canada.

Investigator: Dr. Edmund S. Carpenter
Department of Anthropology
University of Toronto
Toronto, Ontario, Canada

Amount
from AINA: \$1000.

Date initiated: 1950.

Status: Completed.

The following reports have been prepared in addition
to those previously noted:

Carpenter, Edmund S. Time and Space in a Primitive
Society. Technical report. (Copies forwarded ONR-
Washington and New York, 10 July 52.)

Project: A Study of the Language of the Nuniwagamuit Eskimo at
ONR-49 Nunivak Island, Alaska.

Investigator: Prof. Louis L. Hammerich
University of Copenhagen
Frue Plads
Copenhagen, Denmark

Amount
from AINA: \$2500.

Date initiated: 1950.

Anticipated
completion date: Spring 1953.

Status: A technical report on the work collected in 1950 is in the course of preparation. A reproduction has been made of the picture script in use on Nunivak Island. It was found that the language of the Nunivak Eskimo was closely akin to the Kuskokwim dialect. It has some relation to southernmost subdialect of the Asiatic mainland, Cerniak, but not to the dialect of the St. Lawrence Island Eskimo.

Project: Pollen Analysis of Peat Sections along the Alaska Highway.
ONR-50

Investigator: Prof. Henry P. Hansen
 Dean, Graduate School
 Oregon State College
 Corvallis, Oregon

Amount
from AINA: \$500.

Date initiated: 1950.

Anticipated
completion date: Summer 1952.

Status: Technical report is in process of preparation.

Project: A Study of the Phytogeography, Location, and Condition of Reindeer Range and of the Management of Reindeer in Western Alaska.
ONR-51

Investigator: Prof. Herbert C. Hanson
Biology Department, Box 151A
Catholic University of America
Washington 17, D. C.

Amount from AINA: \$7500.

Date initiated: 1950.

Status: Completed.

The following publications have appeared in addition to those previously noted:

Hanson, Herbert C. (1951) Characteristics of Some Grassland, Marsh, and Other Plant Communities in Western Alaska. Appeared in Ecol. Mon., vol. 21, p. 317-378. (Title previously noted in 4th Semiannual Progress Report.) Separates forwarded ONR-Washington and New York, and Nav. Res. Lab., 25 February 52.

The following reports have been received in addition to those previously noted:

Hanson, Herbert C. The Importance and Development of the Reindeer Industry in Alaska. Technical report. (Copies forwarded ONR-Washington and New York, 25 Feb 52.)

Hanson, Herbert C. Vegetation Types in Northwestern Alaska. Technical report. (Copies forwarded ONR-Washington and New York, 12 May 52.)

Project: A Study of the Hooded Seals in the Newfoundland-
ONR-53 Labrador-Greenland Region.

Investigator: Per Host
Norsk Kulturfilm
Solplassen 1
Oslo, Norway

Amount
from AINA: \$2500.

Date initiated: 1950.

Anticipated
completion date: Spring 1953.

Status: Technical report is in process of preparation.

Project: A Study of the Recent Glacier History of Glacier Bay,
ONR-56 Alaska, and of the Development of Vegetation on
 Deglaciaded Terrain, with Special Reference to the
 Importance in the Succession.

Investigator: Prof. Donald B. Lawrence
 Department of Botany
 University of Minnesota
 Minneapolis, Minnesota

Amount
from AINA: \$1000.

Date initiated: 1950.

Anticipated
completion date: Fall 1952.

Status: Wood samples from seven fossil trees have been prepared
 for radio carbon age determination and submitted to Dr.
 Edward S. Deevey Jr., Director of the Geochronometric
 Laboratory at Yale University for analysis. These
 trees grew in Glacier Bay and at Mendenhall Glacier
 before the last major ice advance.

Project: ONR-59 An Archaeological Survey from the South Mouth of the Yukon River, Alaska, to Hazen Bay, with the Excavation of the Most Promising Site Located by this Survey.

Investigator: Wendell H. Oswalt
University of Alaska
College, Alaska

Amount
from AINA: \$900.

Date initiated: 1950.

Status: Completed:

The following publications have appeared in addition to those previously noted:

Oswalt, Wendell H. The Origin of Driftwood at Hooper Bay, Alaska. Published in Tree-Ring Bulletin, Vol. 18, No. 1. (Title noted in Fourth Semiannual Progress Report. Separates forwarded ONR-Washington and New York, and Nav. Res. Lab., 25 February 52.)

The following reports have been prepared in addition to those previously noted:

Oswalt, Wendell H. The Archaeology of Hooper Bay Village, Alaska. Technical report. (Copies forwarded ONR-Washington and New York, 10 July 52.)

Project: An Aerial Survey of Dall Sheep in Alaska to Determine
ONR-60 Limits of Range, and Present Distribution and
Abundance.

Investigator: Robert F. Scott
Wildlife Management Biologist
Fish & Wildlife Service
U.S. Department of Interior
Anchorage, Alaska

Amount
from AINA: \$1500.

Date initiated: 1950.

Status: Completed.

The following reports have been prepared in addition
to those previously noted:

Scott, Robert F. Distribution and Abundance of Dall
Sheep in Alaska. Technical report. (Copies forwarded
ONR-Washington and New York, 7 July 52.)

Project: A Study of the Social and Economic Organization in a
ONR-62 Northern Market Town (Nome, Alaska) with Emphasis on
the Position of the Eskimo.

Investigator: Mrs. Dorothy Jean T. Thompson
1603 Tremont Street
Cedar Falls, Iowa

Amount
from AINA: \$900.

Date initiated: 1950.

Status: Completed.

The following reports have been prepared in addition
to those previously noted:

Thompson, D.J.T. The Social and Economic Organization
in a Northern Market Town (Nome, Alaska) with Emphasis
on the Position of the Eskimo. Technical report.
(Copies forwarded ONR-Washington and New York, 21 May 52.)

Project: A Study of the Lichens of the West Coast of Hudson
ONR-63 Bay, Their Ecology, Distribution and Abundance.

Investigator: Prof. John W. Thomson, Jr.
Department of Botany
University of Wisconsin
Madison, Wisconsin

Amount
from AIMA: \$500.

Date initiated: 1950.

Status: Completed.

The following reports have been prepared in addition
to those previously noted:

Thomson, J.W. Lichens of Arctic America. Technical
report. (Copies forwarded ONR-Washington and New York,
31 March 52.)

Project: A Laboratory Analysis of Representative Plants from the
ONR-65 Vicinity of Point Barrow, Alaska, with the View to
Determining their Content of Vitamins, Including Ascorbic
Acid, Thiamine, Riboflavin and Niacin.

Investigator: Dr. Felix G. Gustafson
Department of Botany
University of Michigan
Ann Arbor, Michigan

Amount
from AFNAz: \$2000.

Date initiated: 1951.

Anticipated
completion date: Spring 1953.

Status: Technical report is in process of preparation.

The plant material collected at Point Barrow, Alaska, August-September 1951, has been analyzed for the vitamins riboflavin, thiamine and niacin. Analysis for ascorbic acid and some reanalysis of riboflavin is to be done. It has been found that the thiamine content is low, but both riboflavin and niacin are, on the other hand, quite high and not essentially different from some of our cultivated plants. The variation among the species is extensive, but this is to be expected as plants of great taxonomic difference are used.

Project: An Ecological and Distributional Study of Vertebrates
ONR-66 and Invertebrates of Ungava-Labrador.

Investigator: Dale J. Osborn
Department of Zoology
McGill University
Montreal, Quebec, Canada

Amount
from AINA: \$1300.

Date initiated: 1951.

Anticipated
completion date: Spring 1953.

Status: Some progress has been made in sorting and counting
the soil invertebrate collections. All plant material
has been identified and work has begun on the class-
ification of the various plant communities from which
animal material was obtained.

Project:
ONR-67

A Geographical-Geological Study of Lake George and Other Ice-dammed Lakes of Alaska, with the View to Determining their Physical Characteristics and Cultural Significance.

Investigator:

Dr. Kirk H. Stone
Department of Geography
University of Wisconsin
Madison, Wisconsin

Amount
from AINA:

\$2440.

Date initiated: 1951.

Anticipated
completion date: Spring 1953.

Status:

Work has been divided between: 1) preparation of a base map of Lake George, Alaska, 2) continuation of observation at Lake George through the winter, 3) preparation to enlist aid for observations of Misina Lake and Lake Barkley in the Chitina River Basin, and 4) continuation of search for literature or observations on ice-dammed lakes elsewhere in the world.

Project: A Paleobotanical-Stratigraphical Study of the "Muck"
ONR-68 Deposits of the Klondike District, Yukon Territory,
 with the View to Collecting Evidence on Glacial and
 Postglacial Climatic Sequences.

Investigator: John D. Campbell
 Department of Botany
 McGill University
 Montreal, Quebec, Canada

Amount
from AINA: \$1500.

Date initiated: 1951.

Anticipated
completion date: Fall 1952.

Status: Technical report is in process of preparation.

Project: An Archaeological Study of Mill Island, Hudson Strait,
ONR-69 Including Detailed Excavation of a Pure Cape Dorset
Eskimo House Site.

Investigator: Dr. Deric O'Bryan
Arctic, Desert and Tropic
Information Center
Research Studies Institute
Maxwell Air Force Base, Alabama

Amount
from AINA: \$2400.

Date initiated: 1951.

Anticipated
completion date: Spring 1953.

Status: The following reports have been prepared in addition
to those previously noted:

O'Bryan, Deric. Research in Hudson's Strait, 1951.
Submitted for publication to Arctic Circular. (Copies
forwarded ONR-Washington and New York, 26 February 52.)

O'Bryan, Deric. Excavation of a Cape Dorset Eskimo
House Site, Mill Island, West Hudson's Strait. Technical
report. (Copies forwarded ONR-Washington and New York,
25 April 52.)

Project: An Archaeological Reconnaissance of the Brooks Range, Alaska, with the View to Locating Archaeological Sites Containing Implements of the Denbigh Flint Complex.

Investigator: William Irving
University of Alaska
College, Alaska

**Amount
from AINA:** \$1000.

Date initiated: 1951.

**Anticipated
completion date:** Spring 1953.

Status: Field work in the summer of 1951 resulted in evidence that the Brooks Range has supported a variety of aboriginal people over a long period of time. One of the sites was found to be comparable with the oldest material. Some of the material collected is related to the early flint industries and may well fit into a supposed typological progression from the Denbigh Flint Complex to Ipiutak. Analysis of the material is proceeding. Much of it including that from the only site which produced a significant quantity of artifacts representing a single culture phase (Imaigenik II) has not yet been definitely classified.

The following reports have been prepared in addition to those previously noted:

Irving, William. An Archaeological Reconnaissance in the Brooks Range. Technical report. (Copies forwarded ONR-Washington and New York, 5 February 52.)

Project: A Botanical Survey of Ungava-Labrador between the
ONR-71 Mouth of the Korok River and the Torngat Mountains.

Investigator: Dr. Jacques Rousseau
Montreal Botanical Garden
4101 Sherbrooke Street E.
Montreal, Quebec, Canada

Amount
from AINA: \$1300.

Date initiated: 1951.

Anticipated
completion date: Spring 1953.

Status: During the field season of 1951 in northern Ungava and Labrador, there was accumulated material which represents an exhaustive botanical collection of the territory surveyed. Work is proceeding on taxonomical results for special papers and on the preparation of a monograph in relation to this survey.

ONR-72

Project: An Ecological Study of Fresh Water Algae of Arctic and
ONR-72 Subarctic Alaska.

Investigator: Dr. Hannah T. Crossdale
Department of Zoology
Dartmouth College
Hanover, New Hampshire

Amount
from AINA: \$2000.

Date initiated: 1951.

Anticipated
completion date: Spring 1953.

Status: Progress has continued in the examination of specimens collected during the summer of 1951. A check list has been prepared of fresh water algae reported from Alaska and a bibliography assembled on Arctic algae in general. Dr. W. C. Steere of Stanford has reported the collection of mosses turned over to him were in excellent condition and appeared promising.

ONR-73

Project: A Geological Study of Canyon Fiord, Ellesmere Island.
ONR-73

Investigator: Dr. Johannes C. Troelsen
Universitetets Mineralogiske Museum
Ostervoldgade 7
Copenhagen K, Denmark

Amount
from AINA: \$1000.

Date initiated: Summer 1952.

Status: Preparations for field work during the summer were made by sled trip across Forsheim Peninsula to cache supplies and equipment. From the base at Eureka, a second trip around the coast of the peninsula has been undertaken. The project has particular reference to the geological history of the Franklinian Orogenic Belt.

ONR-75

Project: The Blue Goose, Life History, Ecology and Management.
ONR-75

Investigator: Mr. F. Graham Cooch
Department of Conservation
Cornell University
Ithaca, New York

Amount
from AINA: \$2000.

Date initiated: Summer 1952.

Status: In this project an effort will be made to band a large sample of Blue Geese in order to determine migration routes in Hudson Bay and to the southward, but greatest attention will be focused on summer breeding grounds.

Project: Growth Rates of Marine Invertebrates as a Function of Latitude.
ONR-76

Investigator: Mr. Paul A. Dehnel
Department of Zoology
University of California
Los Angeles, California

Amount
from AIMA: \$1500.

Date initiated: Summer 1952.

Status: This study proposes to determine whether growth rate in the same species of coldblooded key-industry animals varies as a simple function of temperature in nature or is regulated as metabolism in acclimating species.

Project: The Life History of the Pacific Walrus.
ONR-77

Investigator: Mr. Francis H. Fay
Department of Zoology
University of British Columbia
Vancouver, B.C., Canada

Amount
from AINA: \$1500.

Date initiated: Summer 1952.

Status: Field work will consist of accompanying Eskimo hunters at various places along the coast between Gambell and Pt. Barrow, to examine walrus carcasses and make collections of such parts of the anatomy (ovaries, testes, etc.) as may be needed for later examination in the laboratory.

ONR-78

Project: Adoption of Sheep Farming by Greenlandic Seal Hunters.
ONR-78

Investigator: Miss Marjorie C. Findlay
Kauppakatu 23
Kajaani, Finland

Amount
from AInA: \$1200.

Date initiated: Summer 1952.

Status: This project is an investigation of the adoption of sheep farming and horticulture by the seal hunting Eskimos on the southwest coast of Greenland, with a view to elucidating aspects of culture contact and culture change.

Project: Pleistocene and Postglacial Forests in Alaska and
ONR-79 Western Canada.

Investigator: Dean Henry P. Hansen
Graduate School
Oregon State College
Corvallis, Oregon

Amount
from AINA: \$500.

Date initiated: Summer 1952.

Status: A pollen analysis of peat and mulch deposits is
planned to determine record of Pleistocene and post-
glacial forests, in order to interpret climate and
forest migrations.

ONR-80

Project: The Arctic and Subarctic Muscidae of North America.
ONR-80

Investigator: Mr. Hugh C. Hockett
Long Island Vegetable Research Farm
Riverhead, New York

Amount
from AIMA: \$1700.

Date initiated: Summer 1952.

Status: It is proposed to assemble and classify the flies
belonging to the muscid fauna in the Arctic and sub-
arctic regions of North America which have accumulated
in the collections of the National Museum in Washington
and in the National Collection in Ottawa.

Project: Summer Behavior and Ecology of Certain Sea-ducks.
ONR-81

Investigator: Philip S. Humphrey
University of Michigan
Museum of Zoology
Ann Arbor, Michigan

Amount
from AIMA: \$1800.

Date initiated: 1952.

Status: Collections of specimens will be made in Hooper Bay, Alaska, during the wildfowl migration. Later in Igiak Bay, Alaska, a study will be made of the nesting ecology and behavior of those species of sea-ducks resident there.

Project:
ONR-82

Aleutian Anthropology.

Investigator:

Dr. William S. Laughlin
Department of Anthropology
University of Oregon
Eugene, Oregon

**Amount
from AINA:**

\$3000.

Date initiated:

Summer 1952.

Status:

Anthropological research in the Aleutian Islands will be done by a party composed of 7 experienced investigators. Primary base of operations will be on Unak Island. It is proposed to excavate only those sites which will yield stratigraphic evidence of cultural sequence from Paleo-Aleut through Neo-Aleut occupation, and to determine if the Aleutian core and blade industry preceded or attended the earliest Paleo-Aleut people; to acquire skeletal collections; to study the language and culture of the Aleuts.

Project: Botanical Researches in James Bay, Canada.
ONR-83

Investigator: Rev. Ernest Lepage
Ecole d'Agriculture
Rimouski, P. Q., Canada

Amount
from AINA: \$600.

Date initiated: Summer 1952.

Status: Objective is a botanical inventory to find new
entities in the vascular and invascular flora and to
determine the range of known plants in the region of
Albany River and adjacent coast of James Bay.

OMR-85

Project: Studies of the Non-material Culture of the Noatak
OMR-85 Eskimo.

Investigator: Charles V. Lucier
Box 37
College, Alaska

Amount
from AINA: \$1250.

Date initiated: Summer 1952.

Status: This study is to cover the period of white contact.
Transcription of myths and ceremonies and pre-
Christian religious beliefs to be obtained from the
oldest age group.

Project: Glaciological Research in Alaska.
ONR-86

Investigator: Maynard M. Miller
77 Holbrook Road
Cambridge, England

Amount
from AINA: \$700.

Date initiated: Summer 1952.

Status: This project will continue previous studies of
englacial ice structures, snow and ice surface
ablation, temperature and radiation records in
conjunction with melt-water runoff analysis in
the Juneau Ice Field.

ONR-87

Project: A Floristic Survey of Northwestern Ontario.
ONR-87

Investigator: David R. Moir
Department of Botany
University of Minnesota
Minneapolis, Minnesota

Amount
from AINA: \$1500.

Date initiated: Summer 1952.

Status: It is planned to collect plant specimens and related data at a series of selected stations along the Fawn and Severn Rivers, Canada, between Big Trout Lake and Fort Severn on the Hudson Bay Coast.

ONR-88

Project: Archaeological Reconnaissance of Nunivak Island,
ONR-88 Alaska.

Investigator: James W. Van Stone
Department of Anthropology
University of Alaska
College, Alaska

Amount
from AINA: \$1500.

Date initiated: Summer 1952.

Status: During the summer of 1952 the work will be confined to
locating and testing different sites in order that the
most promising ones may be selected for complete
excavation.

ONR-89

Project: A Study of the Lower Course of the Saskatchewan Glacier,
ONR-89 Alberta, Canada.

Investigator: Robert P. Sharp
California Institute of Technology
Pasadena 4, California

Amount
from AINA: \$1500.

Date initiated: Summer 1952.

Status: A thorough study is planned of the lower course of the glacier as to its physical condition, rate and mode of flowage and nature and origin of structures in the ice produced by flowage.

CONTRACT N7onr-367, TASK ORDER II

Project: ONR-T.O. 2a Compilation of a Comprehensive Annotated Bibliography on the Arctic.

Investigator: Arctic Institute of North America
(Project Director - Marie Tremaine)

Amount
from AINA: (Task Order II)

Anticipated
completion date: Initial phase completed June 1951.
Supplement in process of preparation.

Status: Bibliographic data for 5 volumes is in type and proof reading is in progress. Research has continued on material for the First Supplement and editorial work is in process of preparation for printing this supplement.

CONTRACT Nonr-342-00

Project: A Reconnaissance Oceanographic Investigation in the
Nonr-342-00 Coastal Waters of Labrador.

Investigator: Commander David C. Nutt (USNR)
Arctic Specialist
Dartmouth College
Hanover, New Hampshire

Amount
from AINA: (Contract Nonr-342-00).

Date initiated: 1951.

Anticipated
completion date: Spring 1953.

Status: In the summer of 1952 field work will continue in the
Hamilton Inlet - Lake Melville Estuary with a secondary
center of study in the area between Nani and Saglek Bay.

The following reports have been prepared in addition to
those previously noted:

Nutt, David C. Blue Dolphin Labrador Expedition, Winter
Project, 1952. Technical report, 15 April 52. (Copies
forwarded ONR-Washington and New York, 12 May 52.)

Butcher, W. S. Bottom Sediments and Foramenifera from
Labrador, Blue Dolphin, 1951. Technical report. (Copies
forwarded ONR-Washington and New York, 27 May 52.)

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* Completed project.