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ANTARCTIC BIBLIOGRAPHY

PUBLISHED BY DIRECTION OF
THE CHIEF OF THE BUREAU OF AERONAUTICS

DEPARTMENT OF THE NAVY

Prepared by the
U. S. Naval Photographic Interpretation Center

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1 February 1951

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FOREWORD

With the ever-increasing naval activity in the polar regions, the need for more substantial research and the necessity for obtaining the full benefit from the explorations and research performed in the past becomes self-evident. This bibliography is intended as a research aid for naval officers assigned to polar operations, photographic interpreters, naval research analysts, intelligence personnel, geographers, explorers, and members of the medical, biological, engineering and earth science professions interested in research concerned with ice and the polar areas in general and the *Antarctic* in particular.

In addition to this work, a detailed, annotated bibliography of the *Arctic* compiled by the Arctic Institute of North America, performed under contract with the Office of Naval Research, and supported by research funds from the Army and Air Force is nearing completion. Likewise the first of 10 volumes of the forthcoming *Encyclopaedia Arctica*, a reference work on polar subjects sponsored by the Office of Naval Research, has been completed. Pending eventual publication of both of these, the former is available in card form and the latter in manuscript form to qualified personnel of the Department of Defense.

In the *Antarctic Bibliography* the individual references are arranged by subject and there is an accompanying Author Index. The sources for many of the items, particularly those published prior to World War I, are listed in section 28 of this volume.

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INTRODUCTION

ORGANIZATION

No bibliography is complete. This one contains approximately 5,500 individual references. The bibliography first came into being as a byproduct of the research necessary for the production of a photographic interpretation study of the Antarctic. It was then realized that here assembled was a considerably larger and more complete group of references to the Antarctic than any group previously known to exist. Although it was not practicable to prepare a formalized and annotated bibliography, or to search for the many omissions, it was considered that these references are of sufficient value to warrant their publication as they exist in the card form.

As a result of the card format upon which these references were originally prepared as a working bibliography, certain deviations from standard bibliographical practice may be noted. But since each reference is complete within itself, these deviations were considered of little significance in relation to the advantages accruing from permitting this information to become generally available in a convenient form.

The references have been organized in five divisions, each consisting of a group of numbered subject headings or sections treating of individual subjects. Within each subject section the references are listed chronologically by year of publication. Within any one year of publication the references are listed alphabetically by author. For an example at random:

BIOLOGICAL SCIENCES
Section 2. Botany
2.117 WARMING, E. Die Vegetation . . . 1911 . . . .
2.118 WEST, W. and WEST, G. S. Freshwater algae . . . 1911 . . . .
2.119 DARBISHIRE, OTTO VERNON. The lichens . . . 1912 . . . .
2.120 FRITSCH, F. E. Freshwater algae . . . 1912 . . . .
2.121 GAIN, L. La flore algologique . . . 1913 . . . .

The divisions themselves remain unnumbered since they are merely the focal points to which are gathered numerous related subjects. The sections are each given a numerical designation based upon their order of appearance. The individual references are numbered consecutively within any one section. Thus 2.120 above represents the 120th reference under Section 2, Botany. If, at a later time, it is discovered that a GAIN, J. wrote an article on botany in 1912, the new reference would be inserted as 2.120a. Last-minute additions to this bibliography have been indicated in this manner.

Following the subject sections is a comprehensive *Author Index*. Here, indicated after each author's name, are reference numbers to the works which he has produced, reviews of these works, and in the case of an expedition leader, general references to his expedition. Thus the material is so arranged that it may be consulted by author or by subject, and within the latter by date.

A few works are referenced in several sections. For example, *Problems of Polar Research* is a publication by numerous authors, each writing individually in his own field. In such cases the work of each author is referenced separately. Because of the limitations of space, however, there is normally only a single entry for each book or article. This entry is normally located in the main topic of the reference. Articles on the flora and fauna are located in *Biology*, rather than separately under *Botany* and *General Zoology;* but articles dealing with fauna only appear in *General Zoology*. In a like manner it follows that references concerning whales, seals, and penguins are found in *Vertebrate Zoology* while those references dealing with penguins only appear in the more restricted *Ornithology* section.

Since only one entry exists for most references, it is prudent for those interested in specific subjects, rather than authors, to search the references in the closely related subjects and more inclusive fields. For example, those interested in the subject section concerning *Navigation and Hydrography* will find articles relating to ice navigation in the section on *Floating Ice* and titles relating to hydrography in the section on *Oceanography*. Similarly, one interested in the *Aurora Australis* section will find additional references to the aurora in the *Geophysics* section in works treating of Antarctic geophysical phenomena in general.

The fourth division, *Geographical Exploration*, is concerned with the numerous exploring expeditions to the Antarctic. This division has been reserved for the history of Antarctic exploration and the general accounts of individual expeditions. Works of an expedition concerned with a particular field of science are located in the section concerned with that science rather than with the expedition itself. Thus, works on mollusks collected by the

Belgian Antarctic Expedition are found in the section on invertebrate zoology rather than in the section on de Gerlache's expedition.

Of the thousands of voyages made to the Antarctic and sub-Antarctic seas, only 132 were selected as being of sufficient importance to rate an individual subsection in section 23, *Antarctic Exploration*. The many voyages which contributed little or nothing to the knowledge of the Antarctic have been omitted. For instance, the British Admiralty records that more than 100 vessels were engaged in securing fur seals and seal oil in the southern ocean in 1791, but does not record a single scientific or exploratory voyage for that season.

For each expedition included in section 23 there is a brief note including the dates, leaders, nationality, ships, and chief accomplishments.

A number of the expeditions listed are not followed by references. In nearly every case this peculiar situation occurs for one of two reasons. In some instances important discoveries were made by commercial vessels and were left unpublished except for entries in carefully guarded ships' logs or on secret charts. In these cases the only references to the expeditions may be in general works relating to Antarctic exploration found in section 23. On other occasions, such as the voyages of the Discovery Committee's Research Ships *William Scoresby* and *Discovery II*, essentially all the resulting publications are of a scientific nature and therefore listed under the particular field of science concerned and not under the expedition. The names of these expeditions which have no listings have been included in order to give a proper chronological relationship to each of the expeditions and further to provide a niche for references concerning them which may be unknown at the present time.

Some special subject sections of a type not usually found in bibliographies appear in this work. Section 34 lists some of the more important polar and geographic societies actively interested in polar exploration and the publications of these societies. Sections 35, 36, and 37 list selected aerial photography, motion picture films, and still photography of the Antarctic. This listing of photography, particularly aerial photography, is perhaps a unique feature in polar bibliographies. Since most of the Antarctic research personnel are not able to visit the area in person and since this work is primarily intended for the benefit of aerial photographic interpreters, the photographic sections are indispensable.

ABBREVIATIONS

The following abbreviations are frequently, but not universally, used in the references of this bibliography.

A.	Annals, Annales, Annalen
Abh.	Abhandlungen (dissertation)
Ac. or Ak.	Academy, Académie, Akademie
Am.	American
Ant.	Antarctic, Antartique, Antarktis, Antarktische, Antarktiska, Antarktika, Antartida, etc.
Anz.	Anzeiger (indicator)
Arch.	Archives, Archiv
Ass.	Association
B.	Bulletin, Boletin
Beitr.	Beitrage (contribution)
Ber.	Bericht (report)
Bl.	Blatt, Blätter (journal or plate)
C.	Congress, Congrès
C.-R.	Compte rendu (reports rendered)
D.	Deutsch (German)
E.	Erdkunde (geography)
Erg.	Ergebnisse (results)
Exp.	Expedition, Expédition
G.	Geography, Géographie, Geografia, Geographical, Géographique, Geographisch, Geografiska
Geol.	Geology, Géologie, Geological, Géologique, Geologisch
Ges.	Gesellschaft (association, society)
I.	Institute, Institut, Institute
J.	Journal
Jb.	Jahrbuch (yearbook)
J-Ber.	Jahresbericht (annual report)
K.	Kaiserlich, Königlich (royal)
M.	Mitteilungen (reports)
M.	Magazine
Mem.	Memoris, Mémoire
Met.	Meteorology, Météorologie, Meterological, Météorologique, Météorologisch
N.	New, Nouveau, Neu
Nat.	Nature, Natur, Natural, Naturel, Naturlich
P.	Proceedings
Philo.	Philosophical
Publ.	Publication, Publications
R.	Royal
Rap.	Rapport (report)
Rep.	Report
Rev.	Review, Revue, Revista
Riv.	Rivista (review)
S.	Society, Société, Societat, Sociedad
S-Ber.	Sitzungsberichte (proceedings)
Sc.	Science, Scientific, Scientifique
Ser	Series, Série
Stat.	Statistics, Statistique, Statistik
T.	Transactions
Ts.	Tijdschrift, Tidskrift (journal)
V.	Verhandlungen (transactions)
W.	Wissenschaft, Wissenschaftlich (science, scientific)
Ztg.	Zeitung (newspaper, journal)

LIBRARY CLASSIFICATION SYSTEMS[1]

Subject	Universal Decimal[2]	Dewey Decimal	Library of Congress
Section 1. Biology	57	570	QH301–671
2. Botany			
General Antarctic	58	581.99	QK474
Bacteriology	576.85	589.95	QR
3. General Zoology	59	591.99	
Antarctic			QL104
Antarctic Ocean			QL126
4. Invertebrate Zoology	592		
Arthropoda	595.2	595.62	QL449
Crustacea	595.3	595.63	QL435–445
Insecta	595.7	595.7	QL461–507
Mollusks	594	594.	QL401–433
Protozoa	593.1	593.1	QL366–369
Arachnida	595.4	595.4	QL451–459
Echinoderms	593.9	593.92	QL384
5. Vertebrate Zoology	596		
Fish	597	597.	QL613–639
Whales	599.5/.585	599.5	QL737
6. Ornithology	598.2	598.2	QL671–699
7. Human Ecology		572.4	GF891
Hygiene	613	613.	G597
8. Geophysics	550.3	551.	QC806
			QC501
Astronomy	52	520.	QB
Atmospheric Electricity	551.594	537.4	QC961
		523.5	
Geodesy	526	526.	QB281
Magnetism	550.38	538.	QC751–771
Seismology	550.34	551.2	QE500
			QE541
9. Aurora Australis	551.594.5	523.59	QC971
10. Geology	55	550.	QE350
11. Paleontology	56	560.	QE760
12. Petrology	552	552.	QE421
Petrography	552	552.6	QE425
Mineralogy	553	549.	QE351–399
13. Glaciology	551.311	551.31	QE576
14. Floating Ice	551.311.17	551.34	GB2401–2597
15. Ice Terminology	551.311.12:001.4	551.303	QE607
16. Meteorology	551.5	551.5	QE851–999
Climatology	551.58	551.5	QC994.9
17. Geography	551.4	551.	GB
	91	910.999	G860
18. Oceanography	551.46	551.460	GC461
Currents	551.465	551.470	GC245
Bathymetry	551.462	551.462	GC83
19. Navigation and Hydrography	527	526.99	QB651–2597
	528.956		VK1295
20. Maps and Charts		912.999	GA357
			GA366–367
Cartography	912	526.8	GA357
	528.8		
21. Antarctic Place Names	528.89:413.11	929.999	G105–995
22. The Discovery of Antarctica	91 (08)	508.999	G850–890
23. Antarctic Exploration	91 (08)	508.999	G850–890
		910.9	
24. Proposed Expeditions	92	.001	
	91 (08) "712.9"		
25. Expedition Equipment and Techniques	910.2 (211)	.002	G615
	085.5		
26. Antarctic Stations	91 (08)	508.999	G880
27. Antarctic Problems		.001	G593
28. Bibliography	011/016	016.999	Z6005P7
29. Biography of Antarctic Explorers	92 (A–Z)	B	G585
		920.999	
30. Sovereignty	32	325.99	JX4041
	341.223		
31. Economy	330.02	330.	HB–HJ
32. Whaling	639.245.1	639.289	G545
33. Commission, Committees, Congresses	061.3	508.999	G578
		063.999	

See footnotes at end of table.

Subject	Universal Decimal	Dewey Decimal	Library of Congress
Section 84. Societies and Periodicals			
Polar Societies	061.2	060 999	G575
Polar Periodicals	025.173	059	G575
General Periodicals	025.173	050	AP
85. Aerial Photography	[1]778.35	[1] 629.13254	[1] TR810
86. Motion Picture Photography	[1]775.5 [1]791.44	[1] 791.4	[1] DN1994
87. Still Photography	060.5:779	[1] 779.999	[1] TR
88. Miscellaneous		919.9	G880

[1] This section is furnished for the benefit of the reader who may have to search library stacks for these references or related materials. Not all items in any subject section will be filed under the numbers indicated in these columns, since the subject content of many of them gives the librarian a rather wide choice of classification.

[2] The Scott Polar Research Institute published in June 1960 a detailed classification for polar information based upon the Universal Decimal System and arranged especially by Brian Roberts. This publication, Abstract of the Universal Decimal Classification for the use of the Scott Polar Research Institute, Cambridge, 172 pp. provides both systematic and relative subject indices in great detail. It is recommended for large collections of polar material.

[3] These numbers were originally intended for written material rather than for the film (1948)

BIOLOGICAL SCIENCES

SECTION 1. BIOLOGY

1.1 Zur Flora und Fauna des Eismeeres. *Ausland.* Stuttgart, XLIV (1871), 24.

1.2 **Lanza, M.** On the fauna and flora of Kerguelen's Island. *Ann. Mag. Nat. Hist.*, XVI, 4, 1875, 78–79.

1.3 **Moseley, H. N.** Notes of a Naturalist on the "Challenger", being an account of various observations made during the voyage of H. M. S. "Challenger" round the World in the years 1872–1876. London, Macmillan & Co. 1879, xvi+620. Map. Illustr. [*Antarctic, see chaps.* VIII–X, 184–255.]

1.4 **Kidder, J. H.** Contributions to the Natural History of Kerguelen Island, made in connection with the American Transit of Venus Expedition, 1874–1875. *Smithsonian Miscell. Collect.* Washington, XIII (1879), 1 & 2.

1.5 Account of the petrographical, botanical, zoological collections, made in Kerguelen's Land and Rodrigues, during the Transit of Venus-Expedition, 1874–1875. *Philos. T. R. S.* London, 168 (1879), 63–92.

1.6 **Will, H.** Das Exkursionsgebiet der deutschen Polarstation auf Süd-Georgien in geognostischer, floristischer, und faunistischer Beziehung. *Deutsche geographische Blätter*, Bd. VII, Heft 2, 1884, 116–144.

1.7 **Mill, H. R.** Instructions for Naturalists on the Antarctic Whalers, 1892. *Drawn up on behalf of the R. G. S.* (Privately printed), 1892, 3 pp.

1.8 **Varigny, H. de.** On the extremes of heat and cold under which the life of species is possible. *Science.* New York, 22 (1893), 121–122.

1.9 **Varigny, H. de.** Les températures extrêmes dans la vie des espèces animales et végétales. *Rev. sc.* Paris, 51 (1893), 641–651.

1.10 **Hedley, C.** Considerations of the Surviving Refugees in Austral Lands of Ancient Antarctic Life. *J. and P. R. S. New South Wales.* Sydney, 29 (1895), 278–286.

1.11 **Britton, N. L.** The Origin and Relations of the Floras and Faunas of the Antarctic and Adjacent Regions. Botany. *Science.* New York, N. Ser., 3 (1896), 310–311.

1.12 **R. V.** Les conditions biologiques aux pôles. *La Nature.* Paris, 24 (1896), II, 402–403.

1.13 **Vanhöffen, E.** Welches Interesse haben Zoologie und Botanik an der Erforschung des Südpolar-Gebietes? *V. 11. Deutschen Geographentages zu Bremen, 1895.* Berlin, 1896, 30–39.

1.14 The origin and relations of the floras and faunas of the Antarctic and adjacent regions. The terrestrial invertebrata, by Packard, A. S. *Science.* New York N. Ser. 3 (1896), 311–314. Vertebrata of the land: Fishes, Batrachia and Reptiles. Vertebrata of the sea, by Gill, M., 314–316, 319–320. Vertebrata of the land: birds and mammals, by Allen, J. A., 316–319.

1.15 **Chun, C.** Die Beziehungen zwischen dem arktischen und antarktischen Plankton. Stuttgart, 1897, 64 pp.

1.16 **Vanhöffen, E.** Carl Chun's Beziehungen zwischen dem arktischen und antarktischen Plankton. *Naturwiss. Wochenschrift.* Jena, XII (1897), 51, 917.

1.17 **Charsley, J.** The fauna and flora of the Antarctic. *Scott. G. Mag.* Edinburgh, 14 (1898), 558–563.

1.18 **Ohlin, A.** Antarktische Fahrten und Antarktis. Die biologischen Verhältnisse. *Die Natur.* Halle, 48 (1899), 563–571, 581–584, 594–597, 604–608.

1.19 **Dastre, A.** La vie et les êtres vivants dans les régions polaires. *Rev. des Deux Mondes.* Paris, 1900, 161, 667–696.

1.20 **Recovitza, E. G.** La vie des animaux et des plantes dans l'Antarctique. *B. S. R. belge G.* Bruxelles, 24 (1900), 177–230. Illustr.

1.21 **Reh.** Das antarktische Plankton. (Nach Chun). *Die Umschau.* Frankfurt a. M., 1900, 4, 841–844. Abb.

1.22 **Thöel, H.** Om "bipolaritet" i haforganismernas utbredning. *Ymer.* Stockholm, 20 (1900), 243–259.

1.23 **Mierzinowski, E.** An den Grenzen des Lebens.—Das Leben in der Unterwelt.—Das Leben in der Tiefsee.—Das Leben in den Polargebieten. *Himmel und Erde.* Berlin, 13 (1901), 553–572; 4 –418.

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GEOPHYSICAL SCIENCES

SECTION 8. GEOPHYSICS

NOTE.—Selections concerning astronomy, atmosphere, electricity, magnetism, geodesy, and seismology are included in this section, as well as references to general or multiple geophysical phenomena.

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SECTION 13. GLACIOLOGY

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SECTION 14. FLOATING ICE

Note.—Selections concerning the origin of icebergs may be found in section 13.

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GEOGRAPHICAL SCIENCES

SECTION 17. GEOGRAPHY

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SECTION 19. NAVIGATION AND HYDROGRAPHY

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SECTION 20. MAPS AND CHARTS

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SECTION 23. ANTARCTIC EXPLORATION

NOTE:—Included under the main heading are all selections which treat of the history of exploration or of more than one expedition. Selections concerning an individual expedition may be located under the subheading pertaining to that expedition. The subheads are listed chronologically following the more general Antarctic exploration. References to any particular expedition which are principally concerned with a field of knowledge may be found under the latter and not in this section, which is reserved for narratives and general descriptions of exploring expeditions.

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23.377 Shister, Yevgeny Pod sosvedom yushnogo kresta. *Vokrug Sveta*, no. 10, 1947, 19–26; no. 11, 1947, 29–39, illus. (Under the Southern Cross. In: *Round the World*, nos. cited, Moscow. Popularly written diary of member of Soviet Antarctic whaling expedition of 1946–47. Copy in Foreign Office Research Dept., London.)

23.378 Stefansson, Vilhjalmur, and Wilcox, Olive Rathburn (ed.'s) *Great adventures and explorations, from the earliest times to the present times, told by the explorers themselves.* New York, The Dial Press, 1947. xii and 788 pp. Maps. (Edited, with an introduction and comments by V. Stefansson, with the collaboration of O. R. Wilcox. Includes chapters on polar exploration, at various times from the voyage of Pytheas to the attainment of the South Pole.)

23.379 Troll, Carl Die geographische Wissenschaft in Deutschland in den Jahren 1933 bis 1945. *Erdkunde*, Bd. 1, 1–3, 1947, 3–48. (Contains brief summary of German polar expeditions, 1933–45.)

23.380 Bertrand, K. J.; Joerg, W. L. G.; and Saunders, H. E. The true location of Stefansson Strait and Hearst Land, Antarctica. *Geogr. Rev.*, v. 38, no. 3, July 1948. 475–486.

23.381 Cánepa, Luis *Historia antártica argentina. Nuestros derechos.* Buenos Aires, Linari, 1948. 100 pp.

23.382 Hiljequist, Gösta E. Richard E. Byrd's fyra antarktiska expeditioner 1928–47. *Ymer.*, arg. 68, häfte 2, 1948. 104–120. Map.

23.383 Chronological list of Antarctic expeditions with brief notes on each, 1502–1948. *The Antarctic pilot*, 2d ed. London, British Admiralty, 1948. 6–25.

23.384 Nichol, John Robinson *Stepping stones to the South Pole.* Sydney, Angus and Robertson, 1948. 199 pp. Maps.

23.385 "Prategg"-ekspedisjonen, 1947–48. *Norsk Hvalfangst-Tidende*, 36 årg., nr. 11, 1947. 401–404, illus. (Scientific expedition to the area between Peter I Oya and the Ross Sea sector, sponsored by de Norske Hvalfangstselskapers Forbund and det Norske Geografiske Selskab. In Norwegian and English.)

23.386 Marsh, John H. *No pathway here.* Capetown, Howard B. Thomson; London, Hodder and Stoughton. 1948. (South Africans to Prince Edward Islands.)

23.387 Priestley, R. E. *Syllabus of a course of lectures on the history and science of polar exploration.* Cambridge, Univ. Press. n. d.

23.388 Summaries of current Antarctic exploration appear regularly in the following periodicals: *Geogr. J.; Geogr. Rev.; Polar-arboker; Polarforschung; Polar Record;* and *Polar Times.*

23.389 *Cronologia de los viajes a las regiones australes. Antecedentes argentinos.* Buenos Aires. Universidad. Facultad de Ciencias Economicas. Instituto de la Produccion. (Publicación no. 12.) 1950. 270 pp. Maps.

23.390 Mountevans, Edward Ratcliffe Garth Russell Evans, 1st baron. *The desolate Antarctic.* London, Butterworth Press, 1950. 172 pp. Maps.

Section 23–1. Bouvet de Lozier, 1738–39

Date: 1738–39.
Leader: J. B. C. Bouvet de Lozier.
Nationality: French.
Ships: *Aigle* and *Marie.*
Summary: Discovered Bouvetøya.

23–1.1 Relation du voyage aux Terres Australes des vaisseaux l' "Aigle" et la "Marie" (écrit par Bouvet?) *Mém. pour l'Hist. des Sc. et des Beaux-Arts.* Paris, Février 1740. 281–76.

23–1.2 Voyage de deux vaisseaux François aux Terres Australes (île Bouvet). *Hist. générale des voyages, etc.* Paris, Didot, 11 (1753), 250–202.

23–1.3 Le Gentil Voyage dans les mers de l'Inde. Article XVIII. Sur les Terres Australes, île Bouvet. Extrait du journal du voyage (du premier pilote du vaisseau l'"Aigle"), pour les découvertes des Terres Australes (île Bouvet), dans le vaisseau l'"Aigle", du 30 Déc. 1738 au 10 Janv. 1739. Paris, Imprimerie royale, 1781, II, 482–498.

23–1.4 Bouvet, L. Voyages in 1738–39 to search for lands in the Southern Atlantic Ocean. *Burney's Voyages.* London, 5 (1817).

Section 23–2. Spanish Expedition, 1756

Date: 1756.
Leader: unknown.
Nationality: Spanish.
Ships: *Leon.*
Summary: Discovered South Georgia.

Section 23–3. De Kerguelen-Trémarec, 1771–72

Date: 1771–72.
Leader: Yves Joseph de Kerguelen-Trémarec.
Nationality: French.
Ships: *Fortune* and *Gros-Ventre.*
Summary: Discovered Îles de Kerguelen and claimed them for France.

23–3.1 Kerguelen, T. Beschreibung seiner Reise nach der Südsee. *Busching's Nachrichten.* Berlin, I (1773), 304.

Section 23–4. Marion-Dufresne, 1771–72

Date: 1771–72.
Leader: Marion-Dufresne.
Nationality: French.
Ships: *Mascarin* and *Marquis de Castries.*
Summary: Discovered Prince Edward Islands and Îles Crozet, and claimed latter for France.

23–4.1 Crozet. Nouveau voyage à la mer du Sud sous les ordres de M. Marion. Paris, 1778.

23–4.2 Reise durch die Südsee im Jahre 1771 und 1772, angefangen durch v. Marion und geendet durch den Ritter Duclesmeur. Aus dem Französischen. Leipzig, Fritsch, 1784.

Section 23–5. Cook and Furneaux, 1772–75

Date: 1772–75.
Leaders: James Cook and Tobias Furneaux.
Nationality: British.
Ships: *H. M. S. Resolution* and *H. M. S. Adventure.*
Summary: First circumnavigation of world in high latitudes. First crossing of Antarctic Circle. Disproved the then-current ideas concerning the existence of a southern continent. Discovered South Sandwich Islands.

23–5.1 Cook, J. Voyages autour du monde. Traduit de l'anglais. Paris, 1774–1789. 14 vol.

23–5.2 Cook, James. *Journal of the Resolution's voyage in 1772, 1773, 1774, and 1775.* London. Printed for F. Newbury. 1775.

23–5.3 Forster Reise nach dem Südmeer. *Busching's Nachrichten.* Berlin, III (1775), 96, 236.

23–5.4 Cook's Reise um die Erde, beendet. *Busching's Nachrichten.* Berlin, III (1775), 235.

23–5.5 Fréville, A. F. J. de. Berättelse om de nya upptäckter, som blifvit gjorde i Söderhafvet, åren 1767–1770, öfversatt ifrån Fransyska. Upsala, 1775.

23–5.6 Cook, J. A voyage towards the South Pole and round the world, performed in His Majesty's ships the "Resolution" and "Adventure", in the years 1772–1775, in which is included captain Furneaux's narrative of his proceedings in the "Adventure", during the separation of the two ships. 3 vol., 62 Tabl., by J. Hodges. London, B. White, W. Strahan, 1777; 2 edit., 2 vol., 1778; 3 edit., 1779; 4 edit., 1784.

23–5.7 Cook, J. Journal du second voyage du capitaine Cook, sur les vaisseaux "la Résolution" et "l'Aventure", entrepris par ordre de S. M. Britannique, dans les années 1774 et 1775. Traduit de l'anglais par A.-F.-L. de Fréville. Avec une carte. Amsterdam et Paris, Pissot, Nyon, 1777.

23–5.8 Forster, G. A voyage round the world in H. M. sloop "Resolution", commanded by Capt. Cook during the years 1772–1775. London, 1777, 2 vol. Map.

23–5.9 Furneaux, T. Narrative from the time the two ships were separated to their joining again in Queen Charlotte's Sound. Chap. VII, book I in vol. 3; and Narrative of his proceeding in the "Adventure" from the time he was separated from the "Resolution" to his arrival in England, Chap. VIII, book IV in vol. 2 of Cook's *Voyage towards the South Pole.* London, 1777.

23–5.10 Cook, J. Reis naar de Zuidpool en rondom de wereld, gedaan op bevel van zijne Brittannische Majesteit met de schepen de "Resolution" en de "Adventure" in 1772, 1773, 1774 en 1775, waarbij gevoegd is Furneaux's verslag van dezelfs reize met de "Adventure", nadat hetzelve van de "Resolution" was afgeraakt. Uit het Engelsch. Rotterdam, Rothall, Vis, Holstein, 1778.

23–5.11 Forster, G. Reise um die Welt. Aus dem Englischen übersetzt vom Verfasser, mit Zusätzen für den deutschen Leser vermehrt. 12 Tafeln. Berlin, 1778; 2 Thle, Berlin, Spener, 1784; Altona, Berchthold, 1805; Magdeburg, v. Schütz, 1820.

23–5.12 Forster, G. Reply to Mr. Wale's Remarks on Mr. F.'s account of capt. Cook's last Voyage round the World. London, 1778.

23–5.13 Forster, J.-R. Observations faites dans un voyage autour du monde sur la géographie physique, l'histoire naturelle et la philosophie morale. Traduit de l'anglais par Pingeron. Imprimé à la suite du 5e vol. de l'édition française du second voyage de Cook. Paris, 1778. *Idem,* traduit en néerlandais, Haarlem, 1788; en suédois, et par fragments insérés dans la *Bibliothèque historique,* 1785.

23–5.14 Forster, J.-R. Observations faites pendant le second voyage du capitaine Cook. Traduit de l'anglais. Paris, 1778. (Voir le no. 2779.)

23–5.15 Forster, J.-R. Observations made during a voyage round the world on physical geography, natural history, and ethic philosophy; especially the earth and its strata; water and the ocean, the atmosphere; the changes of the globe; organic bodies, and the human species. London, Robinson, 1778.

23–5.16 Forster, J.-R. Voyage (second) dans l'héminphère austral et autour du monde, fait sur les vaisseaux du roi "l'Aventure" et "la Resolution" en 1772–1775, écrit par James (Jacques) Cook, dans lequel on a inséré la relation du capitaine Furneaux et celle de M. Forster. Traduit de l'anglois par J. B. Ant. Suard. Ouvrage enrichi de plans, de cartes, de planches, de portraits et de vues de pays dessinés pendant l'expédition par M. Hodges. 6 vols et atlas, 65 pl. Paris, Panckoucke, 1778, 2e éd. Paris, Mérigot, 6 vol. et atlas, 1792.

23–5.17 Wales, W. Remarks on Mr. Forster's account of Captain Cook's last voyage round the world, in the years 1772–1775. London, Nourse 1778.

23-5.18 Forster, J.-R. Tagebuch einer Entdeckungsreise nach der Südsee. *Busching's Nachrichten.* Berlin, IX (1781), 377, 385.

23-5.19 Zimmermann, H. Reise um die Welt mit Capt. Cook. Göttingen, 1781; Mannheim, 1782.

23-5.20 Cook, J. Sammandrag af Cap. J. Cooks åren 1772-1775 omkring Södra Polen förrättade resa, hvarvid Herrar Forsters och Furneaux journaler blifvit jämförde och nyttjade. Upsala, 1783.

23-5.21 Cook, J. Voyage to the Pacific Ocean, published by the Admiralty. London, Murray, 1784.

23-5.22 Forster, J.-R. Tagebuch einer Entdeckungsreise nach der Südsee *Busching's Nachrichten.* Berlin, XII (1784), 130.

23-5.23 A Voyage to the Pacific Ocean, under the direction of captain Cook. 4 vols. Dublin, 1784, 1785.

23-5.24 Cook's Entdeckungen in der Südsee. *Busching's Nachrichten.* Berlin, XII (1784), 239.

23-5.25 Cook, J. Reis naar de Zuidpool en rondom de weereld in 1772-1775. Uit het Engelsch vertaald en vermeerd, druk, met een Lofrede over J. Cook door P. L. Paris. Met pl. Utrecht, 1793.

23-5.26 Cook, J. Viaggi intorno al Mondo. 3 vols. Venezia, 1794.

23-5.27 Cook, J. Reisen van een matroos met Capt. Cook gedaan rondom de weereld, met een geschiedenis van alle de zeereisen rondom de weereld. Amsterdam, 1796.

23-5.28 Cook, J. Reisen naar den Stillen Oceaan en rondom de weereld, vertaald door. J. D. Pasteur. 13 vols. 1 Atlas in 183 Bl. Leyden, 1797-1803. Amsterdam, Henkoop, 1798-1799.

23-5.29 Cook, J. Beschreibung seiner Reise um die Welt. 2 Bde. Altona, Berghtheld, 1291, 2. Aufl. 1803.

23-5.30 Cook, J. Drie Reisen rondom de Weereld (1768-1780); verkort. Amsterdam en Haag, Helitron, 1802.

23-5.31 Cook. Capt. James' voyages. In: Robert Kerr. *A general history and collection of voyages and travels.* Edinburgh, vol. 12-16 (1811-1824).

23-5.32 Cook, J. Voyages dans la mer du Sud, aux deux pôles et autour du monde; premier, second et troisième, accompagnés des Relations de MM. Byron, Carteret et Wallis, etc. Par M. G. . . t. 6 vols. Paris, Lerouge, 1811, ornés d'une carte générale et de 30 fig.

23-5.33 Cook, J. The three voyages round the world. 7 vol. London, Longmans, Hurst, Rees, 1813, with maps; London, Phil. Soc., 1821, 7 vol. London, Sherwood, 1820; Smith, 1842, 2 vols.

23-5.34 Cook, J. Viage al rededor del mundo, hecho en los años 1768-1771, trad. del francés por S. de Alverado y de la Peña. 6 vols. Madrid, 1832.

23-5.35 Cook's Voyages with an appendix giving an account of the condition of the South Sea islands. 2 vol. London, 1840.

23-5.36 Cook, J. Drei Reisen um die Welt. Neu hsgn. von Friedrich Stieger. Leipzig, Senf, 1858; 2 Aufl. 1865, XXIV u. 570 pp.; 3 Aufl. 1874. Dasselbe, in *Lorck's Hausbibliothek,* Bd 65.

23-5.37 Cook, J. Narrative of his Voyages round the World. Philadelphia, 1860.

23-5.38 Cook, J. Voyages of Discovery. Edited by J. Barrow. Illustrated, 630 pp. Edinburgh, Black, 1860. London, 1864, Longmans, 1874.

23-5.39 Aeltere Reisen. I. James Cook's Entdeckungsreisen und Weltumsegelungen. Leipzig, O. Spamer, 1864.

23-5.40 Redenbacher, W. Des englischen Capitäns Cook berühmte 3 Reisen um die Welt. Für die Jugend. Mit 6 Orig.-Red. 5 Aufl. VII u. 308 pp. Stuttgart, Risch, 1874.

23-5.41 Low, C. R. Three Voyages of Captain Cook round the World. London, Routledge, 1875; 1891-1892, 506 pp.; 1897, 512 pp.; 1902, New York, A. L. Burt Co., 472 pp.

23-5.42 James Story of Captain Cook's voyages round the world. 3d ed. London, Cassell, 1876.

23-5.43 Centenaire de la mort de Cook, célébré le 14 février 1879, à l'hôtel de la Société de géographie. *B. S. G. Paris.* Sér. 6, XVII (1879), 401-540. Allocution de l'amiral de La Roncière-le-Noury, p. 401.—Cook, par W. Huber, p. 403.—Cook et Dalrymple, par le Dr. E. T. Hamy, p. 417.—Catalogue descriptif et méthodique de l'exposition organisée par la Société de Géographie à l'occasion du centenaire de la mort de Cook, par le Dr. E. T. Hamy, p. 444.—Cartographie et Bibliographie relatives à Cook, par J. Jackson, pp. 491-540.

23-5.44 Cook, J. Fast voyage round the world. London, Ward Lock (1880), 126 pp.

23-5.45 Cook, J. Third and last voyage, with an introduction by R. H. R. Haweis. London, *Routledge's World Library,* (1886), 160 pp. New ed. 1899.

23-5.46 Kippis, A. A narrative of the Voyage round the World performed by Captain James Cook, with an Account of his Life. London, Bickers & Son, 1889.

23-5.47 Lebrun, H. Voyages et aventures du Capitaine Cook. Tours, Mame et Fils, 191 pp. avec table, 1889. Nouv. éd. 1892.

23-5.48 Besant, W. Captain Cook. London, Macmillan & Co. 1890.

23-5.49 Cook, J. The voyages of discovery of Captain James Cook, describing his discoveries and adventures in Tierra del Fuego, Tahiti, New Zealand, Van Diemen's Land, Australia, etc., partly narrated by Capt. Cook himself and partly comp. from his notes and journals by Dr. Hawkesley. New York, Ward Lock, Bowden et Co., 1891-1892, 2 vol., 1176 pp. Maps.

23-5.50 King, P. G. Comments on Cook's Log, (H. M. S. "Endeavour" 1770) with extracts, charts and sketches. Sydney, 1891. Published by authority.

23-5.51 Du Chatenet, E. Les premiers voyages autour du monde. Magellan, Drake, Cook. Limoges, Ardant et Cie. 1893, 120 pp.

23-5.52 Cook's Journal during his first voyage round the world, made in H. M. Bark "Endeavour", 1768-1771; A literal transcription of the original manuscript. With notes and introduction. Edited by W. J. L. Wharton. Illustr. by maps and facsimiles. London, Elliot Stock, 1893, LVI-400 pp.

23-5.53 Banks, J. Journal during Captain Cook's first voyage in H. M. S. "Endeavour" in 1768-1771 to Tierra del Fuego Otaheite, New Zealand, Australasia, the Dutch East Indies, etc. Edit. by Joseph D. Hooker. With portraits and charts, 518 pp. London, Macmillan, 1896.

23-5.54 Norman, H. W. Captain Cook and his first voyage round the world 1768-1771; with special reference to his explorations of the Queensland Coast. *P. and T. Queensland Branch R. G. S. Australasia.* Brisbane, 11 (1896), 1-30.

23-5.55 Captain Cook's voyages round the world; with an introduction of his life by M. B. Synge. New York, Thomas Nelson & Sons, IX-512 pp. London, Nelson, 1896.

23-5.56 Maiden, J. Two historical notes in regard to Captain Cook the Circumnavigator. *J. and P. R. S. of New South Wales.* Sydney, 35 (1901), XVI-XVII, 47-52.

23-5.57 Hamy, E.-T. Note sur un projet d'exploration des mers australes (J. Cook). *B. G. Historique et descriptive.* Paris, 1904, 206-222.

23-5.58 Cook, J. Cook's voyages of discovery; edited by John Barrow. New York, Macmillan, 1905, VIII-417 pp.

23-5.59 Sparrman, Anders *A voyage round the world with Captain James Cook in H. M. S. Resolution.* Introduction and notes by Owen Rutter. London, Golden Cockerel Press, 1944. 220 pp., illus., maps. (Voyage of 1772-75.)

Section 23-6. De Kerguelen-Trémarec, 1773-74

Date: 1773-74
Leader: Yves Joseph de Kerguelen-Trémarec
Nationality: French
Ships: *Rolland, Oiseau,* and *Dauphine*
Summary: Returned to chart west coast of Îles de Kerguelen.

23-6.1 Kerguelen, Y. J. de. Relation de deux voyages dans les mers Australes et des Indes, faits en 1771-1773, 1773-1774. Paris, Knapen et fils, 1782, 244 pp.

23-6.2 Le Faute d'Agelet Observations faites dans un voyage aux terres Australes, en 1773 et 1774. *Mém. Ac. R. des Sc.* Paris, 1788, 487-503.

Section 23-7. Cook and Clerke, 1776-80

Date: 1776-80.
Leaders: James Cook and Captain Clerke.
Nationality: British.
Ships: *H. M. S. Resolution* and *H. M. S. Discovery.*
Summary: Visited Prince Edward Islands and Îles de Kerguelen; named the former.

23-7.1 Forster, J.-R. Tagebuch einer Entdeckungsreise nach der Südsee (bis in die nordlichen Polarländer) von 1776 bis 1780 unter Cook, Clerke, Gore und King. Eine Uebersetzung mit Anmerkungen und Zusätzen aus Zimmermann's Reise, Berlin, 1781.

23–7.3 **Ellis, W.** An authentic narrative of a voyage performed by Captains Cook and Clerke during the years 1776–1780, including a faithful account of their discoveries and the unfortunate death of Captain Cook. London, 2 vol., 1782. Plates.

23–7.3 **Dernier voyage** du capitaine Cook autour du monde. Publié en allemand par Henri Zimmermann, témoin oculaire, etc. Traduit par Rolland. Berne, 1782.

23–7.4 **Cook, J.** Dernier voyage autour du monde du capitaine Cook, célèbre marin de ce siècle, avec un court exposé de sa mort par H. Zimmermann. En langue russe. St. Pétersbourg, 1786.

23–7.5. **Cook, J.,** Neueste Beschreibung seiner dritten und letzten Reise. 2 Bde. Leipzig und Nürnberg, 1786.

23–7.6 **Cook, J. en King, J.** Reis naar den Stillen Oceaan in 1776–1780. Uit het engelsch vertaald. Rotterdam, 1787.

23–7.7 Cook's dritte und letzte Reise. Neueste Reisebeschreibungen 1776–1780. 1, 1786. *Büsching's Nachrichten.* Berlin, XIV (1785), 260; XV (1787), 45.

23–7.8 **Cook, J.** Dritte u. letzte Reise, oder Geschichte einer Entdeckungsreise nach dem Stillen Ocean, welche zu genauerer Erforschung der nördl. Halbkugel unternommen u. unter der Anführung der Capt. Cook, Clerke u. Gore während der Jahre 1776–1780 ausgeführt worden ist. Aus den Tagebüchern der Capt. Jam. Cook u. Jam. King. Eine Uebersetzung nach der 2. grossen engl. Ausg. mit einigen Anmerkungen von J. L. Wetzel. 2 Bde, mit Karte, Berlin, Myllius 1788; 3 Bde, mit Karte. Wien, Carmesino, 1803; 5 Bde, Anspach, Gassert, 1787–1811; 2 Bde, Nürnberg, Schneider, 1790; 3 Bde, Altona, Berghthold, 1804–1807; 1 Bd, Altona, Berthold, 1805: Frankfurt, Kunze, 1785; 1 Bd, Berlin, Saull, 1810; 3 Bde, Wien, Bauer, 1803; Leipzig, Weiggard, 1776; Berlin, Klitter, 1783.

23–7.9 **Cook, J.** Dritte Entdeckungsreise in der Südsee und nach dem Nordpol während der Jahre 1776–1780. Aus den Tagebüchern der Schiffsbefehlshaber Cook, Clerke, Gore, King und Anderson's vollständ beschrieben. Aus d. Engl. mit Zusätzen und mit einer Einleitung über Cook's Verdienste u. Character, und über Entdeckungsreisen überh. v. G. Forster. 2 Bde. Mit Kupfr. u. Karten. Berlin, Haude & Spener, 1787–1788, Dieselbe: 4 Bde. Mit Kupfr. u. Karten. Berlin, Haude & Spener, 1789; Magdeburg, v. Suhlits, 1818.

23–7.10 **Cook, J.** An authentic narrative of a Voyage performed by Capt. Cook and Capt. Clerke, during the years 1776–1780, in search of a northwest passage between the continents of Asia and America; including a faithful account of all their discoveries and the infortunate death of Capt. Cook. 2 vols. With a map. Altenburg, Richter, 1788.

23–7.11 **Webber.** Twelve plates in Illustration of Capt. Cook's last voyage. Atlas. London, 1788. Fol.

23–7.12 Cook's letzte Reise. *Büsching's Nachrichten.* Berlin, VIII (1790), 9.

Section 23–8. De Oyarvido, 1790

Date: 1790
Leader: Manuel de Oyarvido
Nationality: Spanish
Ship: *Principessa*
Summary: Discovered Shag Rocks, west of South Georgia.

Section 23–9. Hasselbourgh, 1810

Date: 1810
Leader: Frederick Hasselbourgh
Nationality: British
Ship: *Perseverance*
Summary: Discovered Macquarie Island. (Sealing expedition.)

Section 23–10. Smith, 1819

Date: 1819
Leader: William Smith
Nationality: British
Ship: *Williams*
Summary: Discovered South Shetland Islands in February; in October, revisited them, landed, and claimed for England. (Commercial expedition.)

23–10.1 **Miers, J.** Account of the Discovery [by Mr. W. Smith] of New South Shetland, with observations on its importance in a Geographical, Commercial, and Political point of view. *Philos. J.* Edinburgh, 3 (1820), 367–380, Sketch-charts and illustr.

23–10.2 Découverte d'une terre dans l'Océan Atlantique austral. *J. des Voyages.* Paris, VII (1820), 382–384.

23–10.3 Der antarktische Continent und weitere Entdeckungen davon. *Bertuch's N. allgemeine geogr. Ephemeriden.* Weimar, VIII (1820), 373–374, 490–493.

23–10.4 Der neue antarktische Continent oder Neu Schottland. *Bertuch's N. allgemeine geogr. Ephemeriden.* Weimar, VIII (1820), 81–85.

23–10.5 Neuentdeckte Insel-Gruppe in der Südsee durch Grauser. [Oscars-Insel.] *Bertuch's N. allgemeine geogr. Ephemeriden.* Weimar, VII (1820), 503; VIII, 221.

23–10.6 Neuentdeckten Land im Süden. Smith [Drake's Land.] *Bertuch's N. allgemeine geogr. Ephemeriden.* Weimar, VII (1820), 261–262.

23–10.7 **Miers, J.** Relation de la découverte de la Nouvelle Shetland, méridionale [New South Shetland]; avec des remarques sur l'importance de cette découverte sous les rapports géographiques, commerciaux et politiques. Communiquée par H. Hodgkin. Avec carte et fil. *J. des Voyages.* Paris, X (1821), 5–24.

23–10.8 Neue Nachrichten über das Antarktische Land. *Bertuch's N. allgemeine geogr. Ephemeriden.* Weimar, XI (1822), 107–108.

23–10.9 **Fildes, Robert** *Voyage to the South Shetlands.* British Museum, 1824.

23–10.10 Découvertes au Pôle Sud. *J. des Voyages.* Paris, XXVII (1825), 369.

Section 23–11. Sheffield, 1819–20

Date: 1819–20
Leader: James P. Sheffield
Nationality: United States
Ship: *Hersilia*
Summary: Explored South Shetland Islands, with N. B. Palmer as second mate. (Sealing expedition.)

Section 23–12. Bransfield, 1819–20

Date: 1819–20
Leader: Edward Bransfield
Nationality: British
Ship: *Williams*
Summary: Surveyed portions of South Shetland Islands, in company with William Smith.

23–12.1 [Slanny, H. M. S.—Dr. Young]. Notice of the voyage of Edward Bransfield, Master of his Majesty's ship "Andromache", to New South Shetland. *Philos. J.* Edinburgh, 4 (1821), 345–348.

Section 23–13. Von Bellingshausen, 1819–21

Date: 1819–21.
Leader: Thaddeus von Bellingshausen.
Nationality: Russian.
Ships: *Vostock* and *Mirny.*
Summary: Circumnavigation, mostly south of 60° S. Discovered Peter I and Alexander I Islands. Surveyed South Shetland and South Sandwich Island groups. Visited South Georgia and Macquarie Islands.

23–13.1 Détails sur la découverte faite dans la mer Australe par l'expédition russe. *J. des Voyages.* Paris, XI (1821), 124–126.

23–13.2 Nähere Nachrichten von der Entdeckungsreise von Bellingshausen. *N. allgemeine g. Ephemeriden.* Weimar, Bertuch, IX (1821), 503–512.

23–13.3 Voyage de découvertes du Capt. Bellingshausen dans l'Océan austral. *J. des Voyages.* Paris, XIV (1822), 126–138.

23–13.4 **Littroff, J. J. v.** Lettre sur un voyage russe au pôle austral. *Correspondance astronomique* de Zach, Genève, VIII (1823), 551–555.

23–13.5 Relation de M. Simonoff sur les découvertes des Russes dans les mers polaires australes. *N. A. des Voyages.* Paris, XX (1823), 276–286.

23–13.6 **Simonoff, J.** Account of the discoveries of the Russians in the Southern Polar Seas. Communicated by M. Alexander von Humboldt. *Literary Gazette.* London (1824), 23–27. (From *N. A. des Voyages,* Paris.)

23–13.7 Simonoff, J. Beschreibung einer neuen Entdeckungsreise in's südliche Eismeer. Aus dem Russ. von M. Banyi, mit einer Vorrede von J. Littroff. Wien, Wallishausser, 1824.

23-13.8 Simonoff, I. Discours sur les résultats du voyage autour du monde, et surtout dans le midi de l'Océan glacial, entrepris de 1819 à 1821 par les vaisseaux "l'Orient" et "le Pacifique". *A. maritimes.* Paris, II (1824), 599-611.

23-13.9 Simonoff, I. Nachricht von der Entdeckungsreise, welche auf Befehl der russ. Regierung von Bellingshausen, in den Jahren 1819-1821 im Stillen Ocean und in den südlichen Meeren gemacht ist. *N. allgemeine g. Ephemeriden.* Weimar, Bertuch, XIV (1824), 285-306.

23-13.10 Précis du voyage de découvertes fait en 1819-1821 par Bellingshausen dans l'océan Pacifique et les mers australes. Rédigé par Simonoff. *J. des Voyages.* Paris, XXIII (1824), 5-45.

23-13.11 Gravelius, H. *F. von Bellingshausen's Forschungsfahrten im südlichen Eismeer 1819-1821.* Leipzig, 1825.

23-13.12 Uebersicht der sämmtlichen von russischen Seefahrern ausgeführten Reisen um die Welt, und der hauptsächlichsten durch sie, sowohl in der Südsee, als auch an der Küste des Eismeeres seit den letzten 25 Jahren gemachten Entdeckungen. Feb. 1828. *Kritischer Wegweiser der Landkarten Kunde.* Berlin, I (1829), 89, 124, 187.

23-13.13 Bellingshausen, F. v. *Zweimaliges Untersuchungen im südlichen Eismeer und Reise um die Welt in den Jahren 1819-1821.* Leipzig, 1831.

23-13.14 Mikhaylov, P. *Atlas of the voyage of Captain Bellingshausen in the South Pacific Ocean and round the world in the years 1819-21.* St. Petersburg, 1891. (In Russian.)

23-13.15 Bellingshausen Dwukratnya isyskania w' Jujnom Ledowitom Okeanie i plawanie wokrug switela i pr. (Zweimalige Untersuchungen im südlichen Eismeere und Reise um die Welt in den Jahren 1819, 1820, 1821, ausgeführt auf den Corvetten (Sloops) "Wostok" und "Mirny" durch den Capitän Bellingshausen als Chef der Expedition und Commandeur des "Wostok" und den Lieutenant Lasarow als Commandeur des "Mirny". St. Petersburg, 1834, 2 vol., 397 u. 326 pp.

23-13.16 Lowe, F. Bellingshausen's Reisen nach der Südsee und Entdeckungen im südlichen Eismeere. *Ermen's Arch. für wiss. Kunde von Russland.* Berlin, I (1842), 198.

23-13.17 Marins russes qui ont fait le tour du monde de 1803-1848. *B. S. G.* Paris, 4e sér., I (Mai 1851), 5,546.

23-13.18 Gallitzin, E. Voyages autour du monde des navigateurs russes. *B. S. G.* Paris, 4e sér. III (1852), 444-457; IV, 5-29.

23-13.19 (Gravelius, H.) Bellingshausen's Forschungsfahrten im südlichen Eismeer 1819-1821. Auf Grund des russischen Original-Werks herausgegeben vom *Verein für Erdkunde zu Dresden.* VII-203 pp. Leipzig, S. Hirzel, 1902.

23-13.20 Mill, H. R. Bellingshausen's Antarctic voyage. *G. J.* London, XXI (1903), 150-159.

23-13.21 Scholkalsky, J. The Russian Antarctic expedition under T. H. Bellingshausen 1819-1821. *B. of the G. S. of Philadelphia,* XXII, 4, Oct. 1924. 121-133.

23-13.22 Scholkalsky, J. Centenary of the Russian Antarctic expedition, commanded by T. Bellingshausen and M. Lazarov, which departed from Cronstadt on July 4, 1819 (Julian calendar). *Izvestia, B. de la S. de G. de l'U. R. S. S.,* LX, 2. Moscow, 1928. 175-212. (In Russian.)

23-13.23 Vvedensky, N. Sur les découvertes russes dans l'Antarctique en 1819-1821 à la lumière des récentes explorations géographique. *Izvestia, B. de la S. de G. de l'U. R. S. S.,* LXXIII, 1. Moscow, 1941. 118-122. Map. (In Russian.)

23-13.24 Bellingshausen, Fabian Gottlieb von *The voyage of Captain Bellingshausen to the Antarctic seas, 1819-21* 2 vols. Hakluyt S. Works, 2d series, nos. 91-92. Translated from the Russian. Ed. by Frank Debenham. London, Hakluyt Society, 1945. v. 1, 259 pp.; v. 2, 261-474 pp. Maps. (First full English translation.)

23-13.25 Murphy, Robert Cushman Captain Bellingshausen's voyage, 1819-1821. *Geogr. Rev.,* v. 37, no. 2, 1947. 303-309. (Review of: *The voyage of Captain Bellingshausen to the Antarctic seas, 1819-21,* 2 vols., ed. by Frank Debenham; London, Hakluyt Society, 1945.)

23-13.26 Gould, Rupert T. A Russian expedition to the Antarctic. *Geogr. J.,* v. 110, nos. 1-3, 1947. 100-102, illus. (Review of: *The voyage of Captain Bellingshausen to the Antarctic seas, 1819-21,* 2 vols., ed. by Frank Debenham; London, Hakluyt Society, 1945.)

23-13.27 Ostrobskii, B. G. O poabytykh istochnikakh i uchastnikakh antarkticheskoi ekspeditsii Bellinsgauzena-Lazareva. *Izvestiia Vsesoiuznogo Geograficheskogo Obshchestva,* v. 81, pt. 2, March-April 1949, 239-249. (About the forgotten sources and partners of the Antarctic expedition of Bellingshausen and Lazarev. In: *B. of the All-Union G. S.*)

23-13.28 Grigor'ev, A. A., and Lebedev, D. M. Otkrytie Antarkticheskogo materika russkoi ekspeditsiei Bellingshausena-Lazareva 1819-1821 gg. *Izvestiia Akademii Nauk S. S. S. R.,* Seriia geograficheskaia i geofizicheskaia, v. 13, no. 3, May-June 1949, 185-193. (The discovery of the Antarctic Continent by the Russian expedition of Bellingshausen-Lazarev, 1819-21. In: *B. of the Ac. of Sc. of U. S. S. R.,* Geographical and Geophysical Series.)

Section 23-14. Pendleton, 1820-21

Date: 1820-21.
Leader: Benjamin Pendleton.
Nationality: United States.
Ships: *Frederick, Hersilia, Express, Free Gift,* and *Hero.*
Summary: Explored South Shetland Islands. (Sealing expedition.)

Section 23-15. Palmer, 1820-21

Date: 1820-21.
Leader: N. B. Palmer.
Nationality: United States.
Ship: *Hero.*
Summary: Explored South Shetland Islands, with Benjamin Pendleton. Also explored west coast of Palmer Peninsula. (Sealing expedition.)

Section 23-16. Sherratt, 1820-21

Date: 1820-21.
Leader: Richard Sherratt.
Nationality: British.
Ship: *Lady Trowbridge.*
Summary: Wrecked on King George Island, South Shetland group. Made survey while awaiting relief. (Sealing expedition.)

Section 23-17. Powell, 1820-22

Date: 1820-22.
Leader: George Powell.
Nationality: British.
Ship: *Dove.*
Summary: Discovered and charted South Orkney Islands with N. B. Palmer. Surveyed and published chart of northern coasts of the South Shetland Islands. (Sealing expedition.)

23-17.1 Extrait du journal du voyage du Cap. Powell à South Shetland pendant les années 1821 et 1822. *J. des Voyages.* Paris, XXII (1824), 93-111.—*J. maritimes.* Paris, I (1824), 8.

23-17.2 Blosseville, J. de. Mort du capitaine Georges Powell. *Rev. des Deux Mondes.* Paris, 3e année, I (1831), 38-46.

Section 23-18. Veale, 1820-23

Date: 1820-23.
Leader: William Veale.
Nationality: British.
Ship: *Princess of Wales.*
Summary: Stranded for 22 months on Iles Crozet, following ship-wreck. A book describing the islands written by one of the crew. (Sealing expedition.)

Section 23-19. Palmer, 1821-22

Date: 1821-22.
Leader: N. B. Palmer.
Nationality: United States.
Ship: *James Monroe.*
Summary: Discovered and charted South Orkney Islands, with George Powell. Surveyed western coast of Palmer Peninsula and South Shetland Islands. (Sealing expedition.)

Section 23-20 Weddell, 1821-22

Date: 1821-22.
Leader: James Weddell.
Nationality: British.
Ship: *Jane.*
Summary: Cruised through South Orkney and South Shetland groups, naming the former. (Sealing expedition.)

Section 23-21. Morrell, 1822-23

Date: 1822-23.
Leader: Benjamin Morrell.
Nationality: United States.
Ship: *Wasp*.
Summary: First landing at Bouvetøya. Explored Îles de Kerguelen and South Sandwich Islands. Penetrated Weddell Sea to 70° 14′ S., 40° 03′ W. (Sealing expedition.)

23-21.1 **Morrell, B.** A narrative of four voyages to the South Sea, North and South Pacific Ocean, Chinese Sea, Ethiopic and Southern Atlantic Ocean, Indian and Antarctic Ocean. From the years 1822–1831. New York, Harper, 1832, 1841, 1850.

23-21.2 Découvertes du capitaine américain Morrell et observations par M. J. d'Urville. *B. S. G.* Paris, XIX (1833), 249–270, 270–277.

23-21.3 **Hamilton, R. V.** On Morrell's antarctic voyage in the year 1823, with remarks on the advantages steam will confer on future antarctic explorers. *P. R. G. S.* London, 14 (1870), 145–156.

23-21.4 **Halpin, A.** Our present knowledge of the antarctic regions (Expedition Morrell). *Popular Sc. Monthly*. New York, (1897), 323–338.

Section 23-22. Weddell and Brisbane, 1822-24

Date: 1822-24.
Leaders: James Weddell and Matthew Brisbane.
Nationality: British.
Ships: *Jane* and *Beaufoy*.
Summary: Brisbane charted south side of South Orkney Islands. Weddell charted Orkney Islands and portions of the Weddell Sea to a reported 74° 15′ S., 34° 17′ W. (Sealing expedition.)

23-22.1 **Weddell, J.** A voyage towards the South-Pole performed in the years 1822–1824 containing an examination of the antarctic sea to the 74th degree of latitude and a visit to Tierra del Fuego with a particular account of the inhabitants. With 16 maps and plates. London, 1825.

23-22.2 **Weddell, J.** Détails sur la navigation vers le Pôle Austral du capitaine Weddell. *B. S. G.* Paris, 1re sér., III (1825), 239; IV (1825), 323–328.

23-22.3 **Weddell, J.** Reise in das südliche Polarmeer 1822–1824. Aus dem Englischen. 44. Bd der *Bibliothek der neuesten Reisebeschreibungen von Bertuch*. Weimar.

23-22.4 **Weddell, J.** Voyage au Pôle Austral, dans les années 1822–1824. *B. S. G.* Paris, 1re sér., IV (1825). *Voyages*, 323–328.

23-22.5 **Weddell, J.** Voyage au Pôle Sud. *J. des Voyages*. Paris, 28 (1825), 215–226.

23-22.6 **Weddell, J.** Voyage d'exploration dans les mers antarctiques pendant les années 1822–1823. *B. S. G.* Paris, 1re sér., III (1825). *Voyages*, 286.

23-22.7 A voyage towards the South Pole etc. Reise in die Südpolar-Regionen während der Jahre 1822–1824 von James Weddell. *Hertha*, VII (1826), 4–19.

23-22.8 Voyage au Pôle Antarctique exécuté dans les années 1823 à 1824 . . . par J. Weddell. *B. S. G.* Paris, 8 (1826). 143–154.

23-22.9 **Weddell, J.** Reise nach dem Südpol in den Jahren 1822–1824. *Ethnographisches Arch.* Jena, Bran, 1827.

23-22.10 **Weddell, J.** Voyage towards the South Pole, 1822–1824; containing an examination of the Antarctic Sea to the 74th degree of latitude and a visit to Tierra del Fuego, with a particular account of the inhabitants, to which is added much useful information on the coasting navigation of Cape Horn and the adjacent islands; with observations on the probability of reaching the South Pole, and an account of a second voyage by Captain Brisbane to the same seas. Maps and plates. London, 1827.

23-22.11 **Petermann, A.** Weddell's antarktische Expedition 1823. *Petermann's M.* Gotha, XIV (1868), 224.

Section 23-23. Hughes, 1824-25

Date: 1824–25.
Leader: Edward Hughes.
Nationality: British.
Ship: *Sprightly*.
Summary: Visited South Shetland Islands. A survey of Hughes Bay on the west coast of Palmer Peninsula made by James Hodgeson, first mate. (Sealing expedition.)

Section 23-24. Sinclair, 1825-29

Date: 1825–29.
Leader: Alexander Sinclair.
Nationality: British.
Ship: *Royal Sovereign*.
Summary: Part of the crew stranded on Îles de Kerguelen for three years, following ship-wreck. A detailed account of the islands was written by one of the crew, John Nunn. (Sealing expedition.)

Section 23-25. Forster, 1828-31

Date: 1823–31.
Leader: Henry Forster.
Nationality: British.
Ship: *H. M. S. Chanticleer*.
Summary: Magnetic and pendulum observations in the South Shetland Islands, particularly at Deception Island.

23-25.1 Exploration des régions australes ("Chanticleer"). *N. A. des Voyages*. Paris, IIe sér. XIV (1829), 379–380.

23-25.2 Antarctic Expedition. Letter from officer of "Chanticleer". *American J. Sc.* New Haven, 18 (1830), 188–189.

23-25.3 Reise des kön. grossbrit. Schiffes "Chanticleer" (Capitän Forster). *J. für die neuesten Land- und Seereisen*. LXVIII (1831), 88.

23-25.4 **Webster, W. H. B.** Narrative of a voyage to the Southern Atlantic Ocean, in the years 1828–1830, performed in His Majesty's Sloop "Chanticleer" under the command of the late captain H. Forster, from the private journal of W. H. B. Webster, 2 vols. with charts. London, 1834.

Section 23-26. Pendleton et al., 1829-30

Date: 1829–30.
Leaders: Benjamin Pendleton, N. B. Palmer, and A. S. Palmer.
Nationality: United States.
Ships: *Seraph*, *Annawan*, and *Penguin*.
Summary: Scientific cruise from Elephant Island through South Shetland Islands to about 103° W.

23-26.1 Expédition Nord-Américaine au Pôle Antarctique. *N. A. des Voyages*. Paris, 2e sér., XIV (1829), 384–385.

23-26.2 Pôle antarctique. Expédition de M. Palmer. *Rev. des Deux Mondes.—J. des Voyages*. Paris, 2e sér., I (1830), 202–203.

23-26.3 **Eights, James** The south exploring expedition. In: *Mercantile Advertiser and Advocate*, n. d. Extract in: *Niles' Weekly Register*, X, 11, 167–168; *Albany J., Tr.*, v. 2, 1833, 61–62, 64, and 68; *American Quarterly J. of Agricultural Sc.*, v. 4, 1846, 20–24; *Boston J. of Natural History*, v. 1, 1835, 203–205. (Extract from the report of Dr. James Eights, naturalist to the late American exploring expedition of the brigs *Seraph* and *Annawan*.)

23-26.4 **Fanning, E.** Voyages round the world; with selected sketches of voyages to the South Seas . . . together with the report of the commander of the first American exploring expedition, patronized by the United States Government in the brigs "Seraph" (Captain Pendleton) and "Annawan" (Captain Palmer), to the Southern Hemisphere. New York, 1833, Illustr. London, O. Rich, 1834, xii+500.

23-26.5 **Balch, E. S.** Stonington antarctic explorers. *B. American G. S.* New York, XLI (August 1909), 28 pp. Chart.

Section 23-27. Biscoe, 1830-32

Date: 1830–32.
Leader: John Biscoe.
Nationality: British.
Ships: *Tula* and *Lively*.
Summary: Circumnavigation eastward from the Falkland Islands. Discovered Enderby Land, Adelaide Island, and the northern Biscoe Islands. Applied the name Graham Land to Palmer Peninsula.

23-27.1 **Biscoe, J.** Journal of a voyage towards the South Pole, on board the brig "Tula", under the command of John Biscoe, with cutter "Lively" in company, 1830–32. *Manuscript in Library of R. G. S.* London, 1832, -f°.

23-27.2 **Biscoe, J.** Nouvelles découvertes dans l'Océan Antarctique, extrait de la table de lok du brick "Tula" commandé par M. John Biscoe, R. N. *B. S. G.* Paris, XX (1833), 65–77.

23-27.3 **Biscoe, J.** Recent discoveries in the Antarctic Ocean. From the log-book of the brig "Tula". *J. R. G. S. London*, III (1833), 105-112.

23-27.4 Découvertes dans l'Océan Antarctique. D'après: *J. R. G. S.* London. *N. A. des Voyages.* Paris, II^e Sér., XXIX (1833), 303-316.

23-27.5 Nouveau continent découvert par le Capt. Anselm Biscoe commandant le brick "Tula". *B. S. G.* Paris, XIX (1833), 165-167.

23-27.6 **Biscoe, J.** Journal of a Voyage towards the South Pole, 1830 to 1832. Edinburgh and London, 1834.

23-27.7 **Biscoe, J.** Voyage of the "Tula", Capt. John Biscoe, towards the South Pole. Chart. *Nautical Mag.* London, 4 (1835), 265-275.

23-27.8 Extrait d'une lettre de M. le Cap. John Biscoe à M. le Duc Decazes. *B. S. G.* Paris, II^e Sér., III (1835), 137-142.

23-27.9 **Biscoe, J.** From the Journal of a Voyage towards the South Pole on board the brig "Tula", under the command of John Biscoe, with the cutter "Lively" in Company. *The Antarctic Manual for the use of the expedition of 1901.* London, 1901, 303-335.

Section 23-28. Ross, 1833-34

Date: 1833-34
Leader: Henry Ross.
Nationality: British.
Ships: *Hopeful* and *Ross.*
Summary: Intended to continue Biscoe's research with two Enderby Brothers' ships. Turned back at 60° S., 53° W., when the *Ross* was crushed in the ice.

Section 23-29. Kemp, 1833-34

Date: 1833-34.
Leader: Peter Kemp.
Nationality: British.
Ship: *Magnet.*
Summary: Sailed southward from Îles de Kerguelen. Discovered Heard Island and land in the vicinity of Kemp Coast. An Enderby Brothers project.

Section 23-30. Dumont d'Urville, 1837-40

Date: 1837-40.
Leader: J. S. C. Dumont d'Urville.
Nationality: French.
Ships: *Astrolabe* and *Zélée.*
Summary: Discovered Adélie and Clarie Coasts. Surveyed portions of South Shetland and South Orkney Islands, and the northern coast of Palmer Peninsula, including Joinville Island.

23-30.0 **Cordier, P. L. A.** Expéditions scientifiques: voyage au pôle austral. Géologie. L'Institute. *J. Général des S. et Tr. Sc. de la France et de l'Etranger*, v. 5, no. 219, sect. I. Paris. p. 285.

23-30.1 **Dumont d'Urville, J.** Note sur le Voyage de découvertes au Pôle Austral et dans l'Océanie de "l'Astrolabe" et de la "Zélée". Avec une carte. *B. S. G.* Paris, 2^e sér., VII (1837), 231-286.

23-30.2 **Dumont d'Urville, J.** Reise om de wereld. 3 deelen. Leyden, 1837-1840.

23-30.3 Lettre au président de la Société de Géographie de Londres sur les découvertes antarctiques. Trad. par M. Dumont d'Urville. *B. S. G.* Paris, 2^e sér., VII (1837), 286-305.

23-30.4 Rapport de M. Dumont d'Urville à S. E. M. le Ministre de la marine et des colonies, sur les opérations de la campagne, depuis le départ de Rio de Janeiro jusqu'à l'arrivée à Valparaiso. *N. A. des Voyages.* 2^e sér., XX (1838), 265-301.—*B. S. G.* Paris, X (1838), 249-279.—*A. Maritimes et Coloniales.* Paris, II, pl. 2 (1838), 1145-1170. Carte.

23-30.5 Voyage dans les mers australes. Lettre de M. d'Urville à M. le Ministre de la marine. *N. A. des Voyages.* Paris, 3^e sér., XIX (1838), 385-399.

23-30.6 Rapport de M. Dumont d'Urville à M. le Ministre de la marine et des colonies. *B. S. G.* Paris, 2^e sér., XIII (1840), 345-365.

23-30.7 Nouveau voyage autour du monde en 1838-1840 par le capitaine de "l'Astrolabe" et la "Zélée" d'Urville. Toulon, Mathay, 1841.

23-30.8 **Montémont, A.** Voyage au Pôle Sud, etc., sous le commandement de M. Dumont d'Urville. *B. S. G.* Paris, 2^e sér., XX (août 1843), 110, 77-110.

23-30.9 Voyage au Pôle Sud et dans l'Océanie sur les corvettes "l'Astrolabe" et la "Zélée" exécuté par ordre du roi pendant 1837-1840 sous le commandement de M. J. Dumont d'Urville, publié par ordonnance de S. M. sous la direction supérieure de M. Jacquinot. 32 vol. avec un atlas en 6 vol. (environ 600 pl. in-fol. et 64 cartes hydrogr.). Paris, Gide, 1842-1851; *Historie du Voyage*, 23 vol., 6 atlas, in-fol. Paris, 1841-1845. *Hydrographie*, par Vincendon Dumoulin. Paris, 1843.

23-30.10 **Dumont d'Urville, J.** Reise nach dem Südpole und nach Oceanien auf den Corvetten "Astrolabe" und "Zélée", auf Befehl des Königs unternommen in den Jahren 1837-1840. Darmstadt, Leske, 1843-1848. I. und II. Bd. 41 Bog., 2 Taf, 3 Karten und d'Urville's Bild; III. Bd. VIII-626 pp. mit 4 Karten und 8 Ansichten. Bildet den IV. und V. Bd. der *Sammlung der vorzüglichsten neueren Reisebeschreibungen.* Hrsg. von Phil. Hedw. Külb. Darmstadt, Leske.

23-30.11 **Dumont d'Urville, J.** Voyage pittoresque autour du monde. Résumé général des voyages et découvertes de Magellan, Dampier, Bougainville, Cook, Lapérouse, etc., rédigé par une société de voyageurs et d'hommes de lettres, sous la direction de M. Dumont d'Urville. Rédigé par Reybaud et Dumont d'Urville. 2 vol. Paris, 1839; 2 vol. accomp. de cartes, portraits et de plus de 500 gravures sur acier, dessinées par Sainson. Paris, Turne, 1844.

23-30.12 Dumont d'Urville's Reise nach dem Südpol und Oceanien nebst Reisen auf Neuholland und Tasmanien, 1838-1840. Hrsg. von F. Heinselmann in *Die Weltkunde.* 6. Theil. Leipzig, Heinselmann, 1851.

23-30.13 **Dumont d'Urville, J.** Extract from Voyage au Pôle Sud, etc. sur les corvettes "l'Astrolabe" et la "Zélée" sous le commandement de M. Dumont d'Urville. Vol. III, 1845. Chap. LIX et LX. *The Antarctic Manual for the use of the expedition of 1901.* London, 1901, 436-464.

23-30.14 **Holt, H. L.** The Fate of the French Frigates "Boussole" and "Astrolabe". *Nautical Mag.* Glasgow-London, 73 (1904), 871-878.

Section 23-31. Cecille, 1837

Date: 1837.
Leader: M. Cecille.
Nationality: French.
Ship: *Héroine.*
Summary: Cruised through Prince Edward Islands. Surveyed Îles Crozet.

Section 23-32. Wilkes, 1838-42

Date: 1838-42.
Leader: Charles Wilkes.
Nationality: United States.
Ships: *Vincennes, Peacock, Porpoise, Seagull, Flying Fish,* and *Relief.*
Summary: Primary work of the expedition was in the north and central portions of the Pacific Ocean. Also visited South Shetland Islands, Louis Phillipe Peninsula, and Macquarie Island. Discovered several landfalls along Wilkes Land, including Adelie and Knox Coasts. Other reported landfalls have not been located as far north as reported.

Note: The greater portion of the literature concerning the United States Exploring Expedition, 1838-1842, under the leadership of Charles Wilkes, is concerned with other than the Antarctic phase of the expedition. More than 500 publications resulting from this expedition have been carefully examined and recorded in detail in an annotated bibliography entitled *The United States Exploring Expedition 1838-1842, and its publications 1844-1874,* by Daniel C. Haskell, New York Public Library, 1942.

23-32.1 Memorial of Fanning, E., to illustrate the views in a petition presented to Congress, praying that a national discovery and exploring expedition be sent to the South Seas, etc. December 18, 1833; 23d Congress, 1st Session: Referred to the Committee of Naval Affairs and ordered to be printed.

23-32.2 New Expedition to the Pacific and Antarctic Oceans. (Announcement of Wilkes' Plans). *J. R. G. S.* 6 (1836), 440.

23-32.3 Rivinus Südsee-Expedition der Vereinigten Staaten von Nord-Amerika. *Jb. der Gesch.* München, I (1838), 357.

23-32.4 Exploring expedition to South seas. Message from the President of the United States transmitting copies of letters, documents and communications in relation to the delay of the sailing of the exploring expedition. (Wilkes). Washington, 1838.

23-32.5 Discoveries of Lieut. Ch. Wilkes. *The Nautical Mag. and Naval Chronicle for 1840.* London, Simpkin, Marshall & Co., Hall Court, 593.

23-32.6 Discovery of the Antarctic Continent. *The Asiatic J. and Monthly Register for British and Foreign India, China and Australia.* London, XXXIII. N. Ser. (Sept.-Dec. 1840), W. H. Allen, 31-37.

23-32.7 Expédition américaine dans l'hémisphère austral. *A. maritimes*, Paris, II (1840), 880.

23-32.8 Memorial of Edmund Fanning. Executive Documents, 26th Congress, 1st session, 1839-1840. Vol. II. Doc. 87. Washington, 1840.

23-32.9 On the discoveries of Lieut. Ch. Wilkes, U. S. N. *The Sydney Herald.* Sydney, March 13th, 1840.

23-32.10 Aulick, J. H. Captain Aulick's letter (on the Wilkes Controversy). *Spectator.* London, 1842. (Reprinted in Appendix VIII. of *Ross's voyage in the Southern and Antarctic Regions*, vol. I, pp. 353-356. London, John Murray, 1847.)

23-32.11 Wilkes, C. The following defense of Lieut. Charles Wilkes to the charges on which he has been tried is respectfully submitted to the Court. Signed Wilkes, Charles, Lt. U. S. N. Washington? (1842?), 56 pp.

23-32.12 Wilkes, C. Synopsis of the cruise of the U. S. Exploring Expedition during the years 1838, 1839, 1840, 1841 and 1842, delivered before the National Institute, by its commander, Wilkes Charles, Esq., on the twentieth of June 1842. Washington, Peter Force, 1842.

23-32.13 Dausay, P. Sur la découverte du continent austral par l'expédition américaine. *B. S. G.* Paris, II sér., XIX (janvier 1843), 109, 60-79.

23-32.14 Exposé des travaux de l'expédition américaine pendant les années 1838-1842, lu à l'Institut national de Washington par son commandant Charles Wilkes. *B. S. G.* Paris, II sér., XIX (1843), 109, 37-66.

23-32.15 Wilkes, C. Exploring Expedition by Authority of Congress, during the years 1838-1842. Philadelphia, 1844-1854, 16 vols., and 5 vols. fol.

23-32.16 Wilkes, C. American Exploring Expedition. Narrative of the United States Exploring Expedition during the years 1838-1842, 5 vols. With an Atlas. Philadelphia, 1845; New York, Putnam, 1850; idem condensed and abridged. London, 1850.

23-32.17 Wilkes, C. Antarctic Exploration; letter to the editor of the *Union.* Washington, Aug. 12, 1847. 7 pp.

23-32.18 Wilkes, C. Letter in reply to Captain Aulick. *Spectator.* London, 1842. (Reprinted as Appendix VIII. of *Ross's voyage in the Southern and Antarctic Regions*, vol. I, pp. 357-359. London, John Murray, 1847.)

23-32.19 Wilkes, C. Letter to captain James C. Ross (dated April 5, 1849, with chart). Appendix VI. Vol. I of *Ross's Voyage in the Southern and Antarctic Regions*, 346-352. London, John Murray, 1847.

23-32.20 Die Antarktische Kreuzfahrt der nordamerikanischen Entdeckungs-Expedition unter Leutnant Wilkes. I. und II. Abschnitt. *Ausland.* Stuttgart, 20 (1847), 955, 959, 963, 967, 999, 1003, 1007, 1011.

23-32.21 Wilkes, C. Antarctic Exploration. *American J. Sc.*, 5 (1848), 287-289.

23-32.22 Widenmann and Hauff, H. Relson und Länderbeschreibungen der älteren und neuesten Zeit. Die Entdeckungs-Expedition der Vereinigten Staaten in den Jahren 1838-1842 unter Ch. Wilkes. Abgekürzt Oberamtsr. 2 Bde. I. Bd X und 372 pp. (1848); II. Bd VIII und 466 pp. Stuttgart und Tübingen, 1850.

23-32.23 Colvocoresses, G. M. Four Years in a Government Exploring Expedition. New York, Cornish, Lamport & Co (1852).

23-32.24 Wilkes, C. Voyage round the World; embracing the principal events of the United States Exploring Expedition. New York, 1851. (Another edition, Boston, 1856).

23-32.25 Carrell, A. E. The First American Exploring Expedition. *Harper's New Monthly Mag.* New York, XLIV (1871-1872), 60-34.

23-32.26 Nourse, J. E. American explorations in the Ice-Zones, 1850-1893. The expeditions of De Haven, Kane, Rodgers, etc., with a brief notice of the antarctic cruise under lieutenant Wilkes, 1840, and of the locations and objects of the U. S. Signal Service, arctic observers. Boston, Lothrop & Co., 1894, with maps.

23-32.27 Callahan, J. M. American relations in the Pacific and the Far East.—Chapter V: The United States Exploring expedition. *John Hopkins University Studies, etc* Baltimore, March 1901.

23-32.28 Wilkes, C. Extract from the "Narrative of the U. S. Exploring Expedition, 1838-1842" Vol. II. Chapter IX. (pp. 297-387). *The Antarctic Manual for the use of the expedition of 1901.* London, 1901, 360-435. Ill.

23-32.29 Wilkes' work fully endorsed, at last, by a British authority. *D. American G. S.* New York, XLIV (1912), 9, 522-525.

23-32-30 Hobbs, William Herbert The eastern landfalls of Wilkes within the Australian Sector of the Antarctic. *Geogr. J.*, v. 81, London, June 1933, 538-540.

23-32.31 Hobbs, William Herbert Discovery of a new sketch of Cape Hudson in the Antarctic. *Geogr. Rev.*, v. 24, Jan. 1934, 115-117.

23-32.32 Mawson, Douglas Wilkes Antarctic landfalls. *Royal G. S. of Australia, South Australian Branch, Proceedings for the Session 1932-33*, v. 34. Adelaide, 1934. 70-113.

23-32.32a Ross, Frank E. The Antarctic explorations of Lt. Charles Wilkes, U. S. N. *Royal G. S. of Australia, South Australian Branch, Proceedings for the Session 1933-34*, v. 35. Adelaide, 1935. 130-141.

23-32.33 Bryan, G. S. The Wilkes exploring expedition. *Polar Times*, no. 9, Nov. 1939. 14-20. (Reprinted from: *U. S. Naval I. Proceedings*, Annapolis, Oct. 1939.)

23-32.34 Norman, Hendersen Daingerfield The log of the *Flying Fish*, *U. S. Naval I. Proceedings*, v. 65, no. 433. Annapolis, March 1939. 363-372. (A review of: *Thalia: a tale of the Antarctic*, by J. C. Palmer.)

23-32.35 Bartlett, Harley Harris The reports of the Wilkes expedition, and the work of the specialists in science. *P. of the American Philosophical S.*, v. 82, no. 5, 1940. 691-705.

23-32.36 Bryan, G. S. The purpose, equipment, and personnel of the Wilkes expedition. *P. of the American Philosophical S.*, v. 82, no. 5, June 29, 1940. 551-560.

23-32.37 Haskell, D. The United States Exploring Expedition, 1838-42, and its publications, 1844-74. *B. of the N. Y. Public Library*, v. 44, 1940, 93-112; v. 45, 1941, 69-89, 507-532, and 821-858; v. 46, 1942, 103-150. (See also the note at the beginning of this section.)

23-32.38 Hobbs, William Herbert The discovery of Wilkes Land, Antarctica. *P. of the American Philosophical S.*, v. 82, no. 5, June 29, 1940. 561-582.

23-32.39 The Wilkes Exploring Expedition of the U. S. N., 1838-1842, and symposium on American polar exploration. *P. of the American Philosophical S.*, v. 82, no. 5, June 29, 1940. 510-876.

Section 23-33. Balleny, 1838-39

Date: 1838-39
Leader: John Balleny.
Nationality: British.
Ships: *Eliza Scott* and *Sabrina.*
Summary: Discovered Balleny Islands and "an appearance of land" in what is now called Sabrina Coast.

23-33.1 Balleny Discoveries in the Antarctic Ocean in February 1839. *J. R. G. S.* London, IX (1839), 517-526.

23-33.2 Balleny Extrait du journal du navire l'"Eliza Scott," allant de l'île Campbell vers le Pôle Sud. *B. S. G.* Paris, 2e sér., XII (1839), 54-58.

23-33.3 Krusenstern, Notice sur les découvertes les plus récentes dans les régions polaires antarctiques. *B. Ac. Impér. Sc.* St. Pétersbourg, 6 (1839), 212-217.

23-33.4 Moore, W. Log book of the schooner "Eliza Scott", from July 1838 to September 1839, during her voyage from London to New Zealand on discovery to the Southward and to Madagascar, and return to London; with Remarks. Kept by W. Moore, Chief Mate. Manuscript in library of *R. G. S.* London.

23-33.5 Zounc Ueber die neuesten Entdeckungen im antarktischen Ocean. Das Südpolarland. *Monatsber. Ges. E.* Berlin, III (1841-1842), 22-24.

23-33.6 Discoveries in the Antarctic Ocean, in February, 1839. Extracted from the Journal of the Schooner "Eliza Scott," commanded by Mr. John Balleny, communicated by Charles Enderby, Esq. *The Antarctic Manual for the use of the expedition of 1901.* London, 1901, 386-389.

Section 23-34. Ross, 1839-43

Date: 1839-43.
Leader: James Clark Ross.
Nationality: British.
Ships: *H. M. S. Erebus* and *H. M. S. Terror.*
Summary: Discovered and landed on Possession and Franklin Islands. Discovered Ross Sea, Ross Island, Victoria Land, Ross Shelf Ice, James Ross Island, and Erebus and Terror Gulf. Visited Prince Edward Islands, Iles Crozet, and Iles de Kerguelen. Sighted Joinville and Balleny Islands. Circumnavigated continent and attempted penetration into the Weddell Sea.

23-34.1 Magnetische Südpolar-Expedition (Ross mit den Schiffen "Terror" und "Erebus". *Pfennig-Mag.* Leipzig, 7 (1839), 237; 8 (1840), 67.

23-34.2 Report on the instructions for the expedition to the Antarctic regions. London, 1840.

23-34.3 Report relative to Observations to be made in the Antarctic expedition. London, 1840.

23-34.4 Expédition anglaise vers le Pôle Antarctique. *B. S. G.* Paris, II^e sér., XVI (1841), 63-64. Avec carte.

23-34.5 Extrait d'une lettre du capitaine Ross, commandant l' "Erebus", datée d'Hobart Town, Terre de Van Diemen, le 7 avril 1841. *B. S. G.* Paris, II^e sér., XVI (1841), 159-166.

23-34.6 Das Südpolarland. Entdeckungen von James Clark Ross. *Pfennig-Mag.* Leipzig, 10 (1842), 143.

23-34.7 Daussy Sur la dernière expédition du capitaine James Ross vers le Pôle Austral. *B. S. G.* Paris, II^e ser., XX (1843, oct.). 118, 267-277.

23-34.8 Robertson, L. (H. M. S. "Terror".) A few general Remarks on the Antarctic Continent, discovered by captains Ross and Crozier. *Tasmanian J. Nat. Sc.* Hobart, 2 (1843), 41-55. (Sketch-map South Polar Sea and Polar Coast line.)

23-34.9 Entdeckungen des "Erebus" und des "Terror" am Südpol. *Pfennig-Mag.* Leipzig, N. Folge, 1 (1843), 339.

23-34.10 Richardson, I. Voyages of "Erebus" and "Terror", 18 parts. London, Longmans, 1844-1847.

23-34.11 Neueste antarktische Fahrt. *Ausland.* Stuttgart, XVIII (1845), 1203.

23-34.12 Ross, J. C. A voyage of discovery and research in the Southern and Antarctic Regions during the years 1839-1843. 2 vols. With plates, maps and woodcuts. London, John Murray, 1847.

23-34.13 Seybt, J. Entdeckungsreisen nach dem Südpolarmeere in den Jahren 1839-1843 von Sir James Clark Ross. 432 pp. Mit Abb. und 1 Karte. Leipzig, Lorck, 1847.

23-34.14 Sir James Ross's Voyage to the Antarctic Regions. *Quarterly Rev.* London, 81 (1847), 103-137.

23-34.15 Becker, G. W. Die Fahrten und Abenteuer des Capitän James Ross auf seinen Entdeckungsreisen nach den Gegenden des Südpols. Mit 5 lith. Ansichten und 1 Karte. Leipzig, H. Fritzsche, 1848.

23-34.16 Ross, J. C. Notice of, and citations from a voyage of discovery and research in the Southern and Antarctic Regions during the years 1839-1843. *American J.* II Ser., VII (1849), 313; IX, 14.

23-34.17 MacCormick, R. Voyages of Discovery in the Arctic and Antarctic Seas and Round the World; being Personal Narratives of Attempts to Reach the North and South Poles, and of an Open Boat Expedition up the Wellington Channel; to which are added an Autobiography, Appendix, portraits, maps, and illustr. London. 1884. 2 vols.

Section 23-35. Moore, 1845

Date: 1845.
Leader: T. E. L. Moore.
Nationality: British.
Ship: *H. M. S. Pagoda.*
Summary: Made magnetic observations in South Atlantic, south of 60° S., from 40° E. to 98° E. No land sighted.

23-35.1 Bratel de la Rivière, P. M. Tocht van het Engelsche barkschip "Pagoda" naar de Zuidpool. Leiden, 1850, 16 pp.

23-35.2 Dickson, W. The Antarctic voyage of Her Majesty's hired barque "Pagoda" (1844-1845). *United Service Mag.* London, June and July, 1850.

Section 23-36. McDonald, 1853-54

Date: 1853-54.
Leader: Capt. McDonald.
Nationality: British.
Ship: *Samarang.*
Summary: Discovered McDonald Island.

Section 23-37. Rogers, 1856

Date: 1856.
Leader: E. Darwin Rogers.
Nationality: United States.
Ship: *Corinthian.*
Summary: First to land on Heard Island. Pioneer whaling in southern waters.

Section 23-38. Rogers, 1856-58

Date: 1856-58.
Leader: Henry Rogers.
Nationality: United States.
Ship: *Zoe.*
Summary: First to winter on Heard Island. Party included a crew of 25. (Sealing expedition.)

Section 23-39. Nares and Thomson, 1872-76

Date: 1872-76.
Leaders: G. S. Nares and C. W. Thomson.
Nationality: British.
Ship: *H. M. S. Challenger.*
Summary: In the course of a world-wide oceanographical cruise, performed research at Prince Edward Islands, Iles Crozet, Iles de Kerguelen, and Heard Island. Sailed South from Heard Island to 66°40' S., 78°22' E., and skirted the pack-ice south of 66° S. to about 99° E. No land sighted.

23-39.1 Die Arbeiten des "Challenger" zwischen Australien und Neuseeland. Aus einem Brief von Dr. v. Willemoes-Suhm, dd. Cook-Strasse, 25. Juni 1874. *Petermann's M.* Gotha, XX (1874), 437.

23-39.2 Die "Challenger" Expedition. *Gaea.* Leipzig, X (1874), 247-248.

23-39.3 Der "Challenger" im südlichen Eismeere. Terminalon-Eiland nicht vorhanden. Antarktische Eisberge. *Globus.* Braunschweig, XXVI (1874), 8-10.

23-39.4 Die hydrographische Expedition des Dr. Carpenter auf dem "Challenger". *Aus allen Welttheilen.* Leipzig, V (1874), 219, 255.

23-39.5 Le regioni antartiche ed il viaggio del "Challenger". Con una carta. (Tavola III). *Cosmos di Cora.* Torino, II (1874), 2-3, 111-120.

23-39.6 Weltumseglung des "Challenger". *Ausland.* Stuttgart, XLVII (1874), 465.

23-39.7 Davis, J. E. The Voyage of the "Challenger". VI. Voyage from Kerguelen to Australia. With a map. *G. Mag.* London II (1875), 38-41.

23-39.8 Die Weltumseglung des "Challenger". IV. Vom Cap nach Kerguelen Island V. Kerguelen Island. *Ausland.* Stuttgart, 48 (1875), 758-761, 793-801.

23-39.9 Campbell, G. Log letters from the "Challenger". London, Macmillan and Co., 1876, VI+448 pp. Map and Ill. (For Antarctic, see Chap. II, 73-103).

23-39.10 Spry, W. J. J. The Cruise of Her Majesty's Ship "Challenger". Voyages over many Seas, Scenes in many Lands. London, Sampson Low, Marston, Searle & Rivington, 1876, XVII+385 pp. Map and Ill. (For Antarctic, see Chap. XI, 111-146).

23-39.11 Die Ergebnisse der "Challenger" Expedition. *Leopoldina.* Dresden, XII (1876). 78-80, 93-96, 104-110, 118-122.

23-39.12 Thomson, G. Wyville The voyage of the "Challenger". The Atlantic. A Preliminary account of the Exploring Voyage of H. M. S. "Challenger" during the years 1873-1876. 2 vol. Ill., maps and charts. London, Macmillan and Co., 1877.

23-39.13 Die wissenschaftliche Weltumseglung des "Challenger". *Gaea.* Leipzig (1877), 259-263.—*Ausland.* Stuttgart, 21.—*Globus.* Braunschweig, XXXI, 357.

23-39.14 Giglioli, H. Il viaggio di circumnavigazione del "Challenger". *Nuova Antologia.* Roma, 1878, 16.

23-39.15 Wild, J. J. *At anchor: a narrative of experience afloat and ashore during the voyage of H. M. S. Challenger from 1872-1876* London, 1878.

23-39.16 **Martins, C.** Wissenschaftliche Reise um die Welt, ausgeführt von der englischen Corvette "Challenger". *Gesammelte kleinere Schriften*, 1880, 102-229.

23-39.17 **Thomson, F. T., Wyville, C., and Murray, J.** Report on the scientific results of the voyage of H. M. S. "Challenger" during the years 1873-1876, under the command of capt. George S. Nares and Capt. Frank Tourle Thomson. *Narrative*, bound in 8 vols; *Physics and Chemistry*, 2 vols; *Deep-Sea Deposits*, 1 vol.; *Botany*, 2 vols.; *Zoology*, bound in 40 vols; *Summary of Scientific Results*, bound in 2 vols. London, Published by order of Her Majesty's Government, 1880-1895, 50 vols. Maps and ill.

23-39.18 Report on the scientific results of the voyage of H. M. S. "Challenger", 1873-1876. Prepared under the superintendence of the late Sir C. W. Thomson, now of J. Murray. *Narrative*. London, Longmans (1882), vol. II.

23-39.19 **Tizard, T. H., Moseley, H. N., Buchanan, J. Y., and Murray, J.** Narrative of the Cruise of H. M. S. "Challenger", with a general account of scientific results of the Expedition. London, vol. I. Published by Order of H. M.'s Government, 1885. Maps and plates. (Special reference to Antarctic exploration, Chaps. VIII-XI, pp. 289-452.)

23-39.20 **Jordan, W. L.** The Admiralty Falsification of the "Challenger" Record. London, Spottiswood, 35 pp.

23-39.21 **Moseley, H. N.** Notes by a naturalist: an account of observations made during the voyage of H. M. S. "Challenger" round the world in the years 1872-1876, under the command of cap. Sir G. S. Nares and capt. F. T. Thomson. New revised edition. New York, G. P. Putnam's Sons, 562 pp. London, Murray, 1891-1892.

23-39.22 **Geikie, J.** The "Challenger" Expedition. *Scott. G. Mag.* Edinburgh, II (1895), 231-248.

23-39.23 **Geikie, J.** Die Forschungsreise des "Challenger". *A. der Hydrogr.* Hamburg. 23 (1895), 394-403.

23-39.24 **Mill, H. R.** The "Challenger" Publications. *G. J.* London, 5 (1895), 360-368.

23-39.25 **Regsold** Abschluss des "Challenger"- Werkes. *Globus*. Braunschweig, 67 (1895), 242-243.

23-39.26 **Thoulet, J.** Les deux derniers volumes des "Reports of the 'Challenger' Expedition." *A. de G.* Paris, 4 (1895), 500-506

23-39.27 **Francé, R. A.** "Challenger" expedicio és tudományos eredményei. (Die "Challenger" Expedition und ihre wissenschaftlichen Ergebnisse.) *Természettudományi Közlöny*, 28 (1896), 1-21.

23-39.28 Die Forschungsreise des "Challenger." Nach James Geikie. *Gaea*. Leipzig, 32 (1896), 216-227.

23-39.29 **Spry, W. J. J.** The cruise of H. M. S. "Challenger." New and cheaper edition. London, Low, 1903.

Section 23-40. Dallman, 1873-74

Date: 1873-74.
Leader: Eduard Dallman.
Nationality: German.
Ship: *Grönland*.
Summary: Combined sealing with exploration in the South Shetland Inlands and off Palmer Peninsula. Discovered Bismark Strait and proved insular nature of Palmer Archipelago in this region. Visited South Orkney Islands.

23-40.1 Deutsche Entdeckungen am Südpol. *Globus*. Braunschweig. XXVIII (1875), 127.

23-40.2 Deutsche Entdeckungen am Südpol. (Geographie und Erforschung der Polar-Regionen. Nr 111). *Petermann's M.* Gotha, 21 (1875), 312.

23-40.3 *Privat-Tagebuch des Kapitan E. Dallman*. Hamburg, 1882.

Section 23-41. Ryan, 1874-75

Date: 1874-75.
Leader: Cdr. Ryan.
Nationality: United States.
Ships: *Swatara* and *Monongahela*.
Summary: The U. S. Transit of Venus Expedition wintered at Pointe Molloy, Baie du Morbihan, Îles de Kerguelen. Made scientific observations and collections. Landed on Îles Crozet.
Note: Refer to item 1.4 and subsequent items.

Section 23-42. De Perry, 1874-

Date: 1874-75.
Leader: R. P. de Perry.
Nationality: British.
Ships: *Volage* and *Supply*.
Summary: The British Transit of Venus Expedition wintered at Baie de l'Observatoire, Îles de Kerguelen. Made scientific observations.
Note: Refer to item 1.5 and subsequent items.

23-42.1 **Davis, J. E.** On antarctic discovery and its connexion with the transit of Venus in 1882. *P. R. G. S.* London, XIII, No. 2 (17 April 1869), 114-122. *J. R. G. S.* London, XXXIX (1869), 91-95.

23-42.2 **Perry, J. S.** Notes of a Voyage to Kerguelen Island to observe the transit of Venus, Dec. 8, 1874. *Month and Catholic Rev.* Roehampton, Manresa Press. 1870, 48 pp.

Section 23-43. Von Schleinitz, 1874-76

Date: 1874-76.
Leader: Baron von Schleinitz.
Nationality: German.
Ship: *Gazelle*.
Summary: The German Transit of Venus Expedition wintered at Anse Betsy, Îles de Kerguelen. Made scientific observations.
Note: There was also a French Transit of Venus Expedition in 1874-75 to Îles St. Paul et Amsterdam. These islands are not considered within the Antarctic.

23-43.1 **Neumayer, G.** Ueber die Betheiligung der k. Marine bei den Expeditionen zur Beobachtung des Vorüberganges der Venus vor der Sonnenscheibe und insonderheit über die wissenschaftlichen Aufgaben S. M. S. "Gazelle." *V. Ges. E.* Berlin, 1874, 163-166.

23-43.2 Die Deutsche wissenschaftliche Forschungsreise durch S. M. S. "Gazelle" und ihre Aufgaben. *Hydrogr. M.* Berlin, II (1874), 123-127.

23-43.3 **Weineck, L.** Die deutsche Venus-Expedition auf Kerguelen. *Leipziger Illustr. Ztg.* Leipzig, (20 Nov. und 27 Nov. 1875.)

23-43.4 Die Vermessungsarbeiten S. M. S. "Gazelle" an den Küsten der Kerguelen-Inselgruppe. Mit 1 Karte. *A. der Hydrogr.* Hamburg, 19 u. 20 (1875). 351-365.

23-43.5 **Schleinitz** Uebersicht über die Forschungsreise S. M. S. "Gazelle" in den Jahren 1874-1876. *V. Ges. E.* Berlin, III (1876), 103-126, 204-217.

23-43.6 Die Expedition der deutschen Corvette "Gazelle" in der Südsee. Reisebericht von A. H. *Aus allen Welttheilen*. Leipzig, VII (1876), 198-203.

23-43.7 Die naturwissenschaftlichen Ergebnisse der Expedition S. M. S. "Gazelle." Mit Karte. *Z. Ges. E.* Berlin, III. Ser., XI (1876), 59-78, 81-142.

23-43.8 **Kerguelen-Insel** Ortsbestimmung der astronomischen Station zur Beobachtung des Venus-Durchganges von 1874 in Betsy-Cove. Hamburg. *A. der Hydrogr.*, 12 (1879), 658-659.

Section 23-44. Schrader, 1882-83

Date: 1882-83.
Leader: C. Schrader.
Nationality: German.
Ships: *Moltke* and *Marie*.
Summary: Wintered at Royal Bay, South Georgia. Made scientific observations.

23-44.1 Photo: Expedition der Korvette "Moltke" nach Süd-Georgien. *Kreuz-zeitung*, 9 Nov. 1882.—*A. der Hydrogr.* Hamburg, X (1883), 12, 738, Karte XI, Taf. I.

23-44.2 **Neumayer, G., and Börgen.** Die internationale Polarforschung 1882-1883 Die deutschen Expeditionen und ihre Ergebnisse. I. Geschichtlicher Teil, und in einem Anhange mehrere einzelne Abh. physikalischen und sonstigen Inhalts. Berlin, 1890-1891. Asher & Co. Illustr.

Section 23-45. Lieutard, 1892-93

Date: 1892-93.
Leader: Cdt. Lieutard.
Nationality: French.
Ship: *Eure*.
Summary: Made hydrographic survey of Îles de Kerguelen.

Section 23-46. Dundee Expedition, 1892-93

Date: 1892-93.
Leaders: Alexander Fairweather; Thomas Robertson; Robert Davidson; and James Davidson.
Nationality: British.
Ships: *Balaena, Active, Diana,* and *Polar Star.*
Summary: The Dundee Whaling Expedition; the pioneer British whaling reconnaissance in the south. Ships' doctors, W. S. Bruce and C. W. Donald, doubled as naturalists. The *Active* discovered the channel between Joinville and Dundee Islands.

23-46.1 **Greffrath, H.** Antarktische Expedition. *Ausland.* Stuttgart, 66 (1893), 537.

23-46.2 **Bruce, W. S. and Donald, C. W.** A Voyage towards the Antarctic Sea, September 1892 to June 1893. (Louis-Philippe Land.) *G. J.* London, 2 (1893), 429-436.

23-46.3 Antarctic Exploration. *Nature.* London, 48 (1893), 112-113.

23-46.4 The Antarctic Whalers. ("Balaena," etc.) *G. J.* London, I (1893), 450-451.

23-46.5 **Bruce, W. S.** Notes of an Antarctic voyage (Louis-Philippe Land). *Rep. British Ass. Advancement Sc.* London, 63 (1894), 840-841.

23-46.6 **Donald, C. W.** Antarctic Exploration. The late Expedition to the Antarctic (Louis-Philippe Land). *Scott. G. Mag.* Edinburgh, 10 (1894), 63-69. Map and Illustr.

23-46.7 **Donald, C. W.** On the Antarctic Expedition of 1892-1893. (Louis-Philippe Land.) *Rep. British Ass. Advancement Sc.* London, 63 (1894), 841.

23-46.8 **Murdoch, W. G. B.** From Edinburgh to the Antarctic. An artist's notes and sketches during the Dundee Antarctic Expedition of 1892-1893, with a chapter by W. S. Bruce. London & New York, Longmans, Green & Co., 1894, ix-364 pp.

23-46.9 Eine Reise nach dem Antarktischen Meere, September 1892 bis Juni 1893. *Gaea.* Leipzig, 30 (1894), 261-271.

23-46.10 Voyage scientifique dans l'océan glacial antarctique. *Ciel et Terre.* Bruxelles, 15 (1894), 159-164.—*Cosmos.* Paris, 10 février 1894.

23-46.11 **Bruce, W. S.** Cruise of the "Balaena" and the "Active" in the Antarctic Seas, 1892-1893. (Louis-Philippe Land.) Part I. The "Balaena." *G. J.* London, 7 (1896), 502-531. Map.

23-46.12 **Donald, C. W.** Cruise of the "Balaena" and the "Active" in the Antarctic Seas, 1892-1893. (Louis-Philippe Land.) Part II. The "Active." *G. J.* London 7, (1896), 625-643.

Section 23-47. Larsen, 1892-93

Date: 1892-93.
Leader: C. A. Larsen.
Nationality: Norwegian.
Ship: *Jason.*
Summary: Combined whaling reconnaissance, sealing, and exploring. Collected first known Antarctic fossils from Seymour Island. Discovered Foyn Island. Explored Erebus and Terror Gulf.

Section 23-48. Larsen et al., 1893-94

Date: 1893-94.
Leaders: C. A. Larsen; C. J. Evensen; and J. Petersen.
Nationality: Norwegian.
Ships: *Jason, Hertha,* and *Castor.*
Summary: Larsen discovered Dove II and Foyn Coasts, and Robertson Island. Evenson and Peterson visited the South Shetland Islands and the west side of Palmer Peninsula. (Sealing expedition.)

23-48.1 **Larsen, C. A.** Nogle optegnelser af sael-og hvalfangst "Jason" reise i Sydishavet 1893 og 1894. *Norske G. S. Aarbog.* Kristiania, 5 (1894), 115-131. Map.

23-48.2 **Larsen, C. A.** The Voyage of the "Jason" to the Antarctic Regions. *G. J.* London, 4 (1894), 333-344, 466-467. Map.

23-48.3 **Murray, J.** Notes on an important geographical discovery in the Antarctic Regions (Larsen's). *Scott. G. M.* Edinburgh, 10 (1894), 198-199. Map.

23-48.4 **Rabot, C.** Exploration norvégienne dans les mers antarctiques (d'après le *Scott. G. Mag.*). *Nouvelles G.* Paris, 4 (1894), 109.

23-48.5 **Petersen, J.** Die Reisen des "Jason" und der "Hertha" in das Antarktische Meer 1893-1894, und die wissenschaftlichen Ergebnisse dieser Reisen. Mit einer Karte von L. Friederichsen. *M. G. Ges.* Hamburg, 1891-1892 (1895), 245-298. Karte 1: 7.500.000.

23-48.6 **Petersen, J.** Kapit. Larsens Antarktische Entdeckungen. Erwiederung. *Petermann's M.* Gotha, 41 (1895), 291-292.

23-48.7 **Wichmann, H.** Kapit. Larsens Antarktische Entdeckungen. Entgegnung. *Petermann's M.* Gotha, 41 (1895), 292-293.

23-48.8 **Petersen, J.** Die Erforschung des Dirck-Gherritz-Archipels. Einige Bemerkungen zu dem Aufsatze: "Das Wiedererwachen der Antarktischen Forschung" in *Dr. A. Petermann's M.*, 1895. Heft 6. *M. G. Ges.* Hamburg, 11 (1896), 62-79.

23-48.9 **Wichmann, H.** Die Erforschung des Dirck-Gherritz-Archipels. Schlusswort gegen Dr. Joh. Petersen. *Petermann's M.* Gotha, 42 (1896), 169-170.

23-48.10 **E. I.** Kapten C. A Larsens senaste sydpolarfärd. *Ymer.* Stockholm, 1905, 3, 345-346.

Section 23-49. Kristensen and Bull, 1894-95

Date: 1894-95.
Leader: Leonard Kristensen and H. J. Bull.
Nationality: Norwegian.
Ship: *Antarctic.*
Summary: First known landing on Antarctic Continent mainland, at Cape Adare. Also landed on Possession Islands. Visited Coulman Island. Preliminary sealing at Macquarie Island and Iles de Kerguelen. Preliminary visits to Prince Edward Islands, Iles Crozet, and Balleny Islands.

23-49.1 **Borchgrevink, C. E.** A Voyage to the Antarctic Sea. *Rep. British Ass. Advancement Sc.* London, 65 (1895), 750-752.

23-49.2 **Borchgrevink, C. E.** The "Antarctic's" Voyage to the Antarctic. *G. J.* London, 5 (1895), 583-589. Map.

23-49.3 **Borchgrevink, C. E.** Die Südpolarreise der "Antarctic". *A. der Hydrogr.* Hamburg, 23 (1895), 461-466. Karte.

23-49.4 **Borchgrevink, C. E.** The Voyage of the "Antarctic" to Victoria Land. *Nature.* London, 52 (1895), 375-377.

23-49.5 **Borchgrevink, C. E.** Ueber die Reise der "Antarctic" nach Victoria-Land. *Z. Ges. E.* Berlin, 23 (1895), 611-624.

23-49.6 **Markham, C. R.** Notes on the Antarctic Expedition. *J. Manchester G. S.* Manchester, 11 (1895), 81-82.

23-49.7 **Müller, K.** Die Fahrt der "Antarctic" nach Victorialand. *Die Natur.* Halle, 44 (1895), 420-428.

23-49.8 Borchgrevink's Fahrt nach dem Südpolarland. *Globus.* Braunschweig, 68 (1895), 183-184.

23-49.9 Die Südpolarfahrt der "Antarctic". *Hansa.* Hamburg, 32 (1895), 426-427.

23-49.9a Le premier débarquement sur le grand continent polaire austral. *La Nature.* Paris, 23 (1895), II, 183-187.

23-49.10 Notes and addresses on the Voyage of the Norwegian S. S. "Antarctic" to the South Polar Seas in the years 1894-1895. (Rough advance proof in Library of *R. G. S.*). Melbourne, 1895. Map and photographs, fo.

23-49.11 Viaggio dell' "Antarctic" nell' Oceano Australe. *B. S. G. Italiana,* Roma, Ser. III, 8 (1895), 385-390. Carta.

23-49.12 **Borchgrevink, C. E.** Die erste Landung am Südpol-Continent. *Prometheus.* Berlin, 7 (1896), 10-11.

23-49.13 **Borchgrevink, C. E.** Erlebnisse an Bord des Walekampfers "Antarctic" auf der Fahrt nach Süd-Victoria-Land, 1894-1895. *M. G. Ges.* Hamburg, 11 (1896), 181-183.

23-49.14 **Borchgrevink, C. E.** The first landing on the antarctic continent; account of the recent voyage of the whaler "Antarctic" 1894-1895. *Century Mag.* London, LI (Jan. 1896), 432, Ill.

23-49.15 **Borchgrevink, C. E.** The Voyage of the "Antarctic" to Victoria Land. *Rep. Sixth Internat. G. C. London, 1895* (1896), 169-176.

23-49.16 **Bull, H. J.** Die erste Landung auf dem antarktischen Festlande. *Ueber Land und Meer.* Stuttgart (1896?). 611-612. Ill.

23-49.17 **Bull, H. J.** The Cruise of the Antarctic: a voyage to the South Polar Regions in 1895. London and New York, Edward Arnold, 1896, 256 pp. Map and ill.

23-49.18 **Bull, H. J.** Et par Billeder med Text. (Nordöen i Possession-gruppen, 71°55′ S. Br.; Kap Adare, 71°18′ S. Br.) *Norske G. S. Aarbog.* Kristiania, 7 (1896), 24-26.

23-49.19 **Kristensen, L.** "Antarctia" 's reise till Sydishavet eller Nordmandenes Landing paa Syd Victoria Land. Tonsberg, Forfatterens Forlag, 1898 (1899), p. 254. Map and ill.

23-49.20 **Bull, H. J.** Sydoverl Expeditionen til sydishavet 1893-1895. Med titelbild af W. L. Wyllie, illustr. af W. G. Burn Murdoch och fotographier karten over Syd Victoria bugtens. Kerguelen og de Antarktiske farvande. Kristiania, 1898, 214 pp., 6 tab.

23-49.21 **Bull, H. J.** Südwärts! Die Expedition von 1893-1895 nach dem südlichen Eismeere. Autorisierte Uebersetzung aus dem Norwegischen von Margaretha Langefeldt. Mit 18 Vollbildern, 1 Text-Ill. und 8 Plänen. Leipzig, H. Haessel, 1904, vi-234 pp.

Section 23-50. De Gerlache, 1897-99

Date: 1897-99.
Leader: Adrian de Gerlache.
Nationality: Belgian.
Ship: *Belgica.*
Summary: Made scientific studies and observations from Tierra del Fuego via the South Shetland Islands through the Palmer Archipelago; named the Palmer Archipelago. Discovered and charted de Gerlache Strait. Beset in 71°30' S. and drifted with pack-ice in Bellingshausen Sea, south of Peter I Island, for a year. The first exploring vessel known to have wintered in the true Antarctic.

23-50.1 **Cook, F. A.** A proposed Antarctic expedition. *Around the World.* New York and Philadelphia, 1 (1894), 55-58. Map.

23-50.2 **Gerlache, A. de.** Expédition antarctique. *B. S. R. G.* Anvers, 19 (1895), 480-482.

23-50.3 **Arctowski, H.** Observations sur l'intérêt que présente l'expédition antarctique. *Ann. S. géol. Belgique.* Liége, 23 (1896), LXI-LXVII. Cartes.

23-50.4 **Cattier, E.** Une expédition belge dans les régions antarctiques (A. de Gerlache). *Rev. de Belgique.* Bruxelles, (2), 17 (1896), 183-191.

23-50.5 **Delaite, J.** Intérêt scientifique de l'expédition antarctique belge. *B. S. R. belge G.* Bruxelles, 20 (1898), 93-122.

23-50.6 **De la Vallée Poussin, J.** L'expédition belge projetée aux régions antarctiques. *R. des questions sc.* Bruxelles, avril 1896.

23-50.7 **Du Fief, J.** La zone polaire australe et le projet d'une expédition antarctique belge. *B. S. R. belge G.* Bruxelles, 20 (1898). 5-28. Cartes.

23-50.8 **Larkvidéki expeditio, a Belga.** (Die belgische Polar-Expedition.) *Földrajzi Közlemények.* Budapest, 26 (1898?), 251.

23-50.9 **G—, J. F.** Une expédition belge au Pôle Sud. *La Nature.* Paris, 25 (1897), II, 203.

23-50.10 **Hérouard, E. et Gulart, J.** Compte rendu du départ de l'expédition antarctique belge. *B. S. zoologique France.* Paris, 22 (1897), 215-222.

23-50.11 L'expédition antarctique belge. *Ciel et Terre.* Bruxelles, 18 (1897), 183-187.

23-50.12 Notiulas da Expedição belga ao antartico dadas pela nispronna fluminense. *Rev. trimensal do I. hist. e. g. brasileiro.* Rio de Janeiro, 60 (1897), 205-233.

23-50.13 Régions antarctiques. Départ de l'expédition antarctique belge. *B. S. R. belge G.* Bruxelles, 21 (1897), 395-400.

23-50.14 Vers le Pôle Sud. *A travers le Monde.* Paris (1897), 13-14. Ill.

23-50.15 **Bakos, J.** A pingunek birodalma. (Das Reich der Pinguine.) *Földrajzi Közlemények.* Budapest, 27 (1898), 150-154.

23-50.16 **Candiani, R.** L'expédition antarctique des Belges. *Rev. pour les jeunes filles.* Bruxelles, 5 décembre 1899.

23-50.17 **Cook, F. A.** The Frozen South. *Harper's Weekly.* New York, July 22, 1899.

23-50.18 **Cook, F. A.** La "Belgica" dans les glaces antarctiques. *Crédit public.* Bruxelles, 1899, no. 185.

23-50.19 **Cook, F. A.** Through the First Antarctic Night. From the *Buenos Aires Christian Advocate* and the *Epworth Herald.* Vol. VI, no. 5, 8 pp. Buenos Aires, 1899.

23-50.20 **Cook, F. A.** Two Thousand Miles in the Antarctic Ice. *Maclure's Mag.* New York, 14 (November 1899), 3-18.

23-50.21 **Dobrowolski, A.** Belgijska wyprawa antarktyczna. (L'expédition antarctique belge.) *Athenæum.* Varsovie, 98 (1899), 240-272.

23-50.22 **F. G. La** "Belgica". *Belgique militaire.* Bruxelles, 1899, 417-420.

23-50.23 **Faustini, A.** Il primo inverno australe. *Riv. Marittima.* Roma, Maggio 1899. Illustr. & carta.

23-50.24 **Gerlache, A. de.** Expédition antarctique belge. *B. I. G. Argentino.* Buenos Aires, 20 (1899), 241-248.

23-50.25 **Gerlache, A. de.** L'expédition antarctique belge. *Mouvement G.* Bruxelles, 16 (1899), 228-229, 240-242, 545-546.

23-50.26 **Gerlart, F.** Les résultats scientifiques de l'expédition antarctique belge. *La Belgique coloniale.* Bruxelles, 5 (1899), 229-232, 469-472.

23-50.27 **Heucken, E.** Retour du Pôle. *Messager de Bruxelles.* Bruxelles, 1899, no. 294.

23-50.28 **Obalski, T.** Le voyage de la "Belgica." *La Nature.* Paris, 1882 (1899), 406-407.

23-50.29 **Spring, W.** Allocution aux membres de l'expédition antarctique belge et remise à chacun d'eux d'une médaille commémorative. *B. Classe des Sc. Ac. R. de Belgique.* Bruxelles, 1899, 853-856.

23-50.30 **Supan, A.** Die belgische Südpolarexpedition. *Petermann's M.* Gotha, 45 (1899), 123-124.

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23-50.32 **Wauwermans** Le retour de la "Belgica." *Messager de Bruxelles.* Bruxelles, 1899, no. 284.

23-50.33 Au Pôle Sud; la "Belgica." *Helios.* Bruxelles, 1899, 177-179.

23-50.34 Au Pôle Sud ("Belgica"). *La Nature.* Paris, 1852 (1899), 335-336.

23-50.35 Belgian Antarctic expedition. *National G. Mag.* Washington, 10 (1899), 229-230.

23-50.36 The Belgian Antarctic expedition. (Translation of letter from Captain de Gerlache.) *G. J.* London, 13 (1899), 650-654.

23-50.37 El viage del "Belgica." *A. Sc. Argentino.* Buenos Aires, 47 (1899), 240-242.

23-50.38 Expédition antarctique belge. *B. S. R. belge G.* Bruxelles, 23 (1899), 125-135.

23-50.39 Expédition antarctique belge. *C.-R. S. G.* Paris, 5 (1899), 225-226.

23-50.40 L'expédition antarctique belge. *B. S. G. de l'Est.* Nancy, 1899, 575-583.

23-50.41 L'expédition belge aux terres antarctiques. *A travers le Monde.* Paris, 1899. N. sér., 5, 148. Carte.

23-50.42 L'expédition de la "Belgica." *Économie belge.* Bruxelles, 1899, no. 196.

23-50.43 L'Expédition de Gerlache au Pôle Sud. *Mouvement G.* Bruxelles, 1899, 215-216.

23-50.44 L'Expédition de Gerlache, réception de la S. de G. *Belgique coloniale.* Bruxelles, 1899, 503-509.

23-50.45 Le retour de la "Belgica." *Belgique coloniale.* Bruxelles, 1899, 541-543.

23-50.46 Le retour de l'expédition de Gerlache. *Globe illustré et Illustration européenne.* Bruxelles, 1899, 881.

23-50.47 Les expéditions antarctiques. L'expédition de Gerlache. *Rev. Sc.* Paris, (4), 11 (1899), 751-753.

23-50.48 Notre expédition polaire. *Économie belge.* Bruxelles, 1899, no. 212.

23-50.49 Nouvelles de l'expédition antarctique belge. *Ciel et terre.* Bruxelles, 20 (1899), 132-134.

23-50.50 Nouvelles de l'expédition de Gerlache et des autres expéditions antarctiques. *Ciel et Terre.* Bruxelles, 20 (1899), 78-81, Illustr. et carte.

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23-50.52 A. G. Fra i ghiacci dell'Antartico. Notizie delle ultime esplorazioni antartiche. *Emporium.* Bergamo (1900), no. 64.

23-50.53 **Arctowski, H.** Belgijska wyprawa do bieguna południowego. (L'expédition antarctique belge.) *Tygodnik Illustrowany.* Varsovie, 21 Avril 1900.

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23-50.59 Cook, F. A. Through the first Antarctic Night, 1898-1899. A narrative of the voyage of the "Belgica" among newly discovered lands and over an unknown sea about the South Pole. With an appendix containing a summary of the scientific results. London, W. Heinemann, 1900. xxiv-473. Maps and illustr.

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23-50.61 Faustini, A. I risultati generali della spedizione antartica della "Belgica." *B. S. G. Italiana.* Roma, Aprile 1900.

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23-50.63 Gerlache, A. de. L'expédition de la "Belgica." *Messager de Bruxelles.* Bruxelles, 18 (1900), no. 62.

23-50.64 Gerlache, A. de. Quinze mois dans la mer polaire du Sud. *L'Illustration, journal universel.* Paris, (1900), 24 et 31 mars, 7 avril.

23-50.65 Gerlache, A. de. Relation sommaire du voyage de la "Belgica." *B. S. R. belge G.* Bruxelles, 24 (1900), 417-591. Illustr.

23-50.66 Ghisleri, A. Le ultime esplorazioni nelle regioni antartiche. Le communicazioni d'un collega. Bergamo, 1900.

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23-50.74 Racovitza, E. G. Résultats généraux de l'expédition antarctique belge. *La G.* Paris (1900), 81-92. Carte.

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23-50.84 Gribaudi, P. Il primo inverno nelle regioni polari antartiche. Alcuni risultati scientifici della spedizione antartica belga (A. de Gerlache) 1897-1899. *Riv. G. Italiana.* Roma, 8 (1901), 345-355, 449-460.

23-50.85 Rabot, C. Publications de l'expédition de la "Belgica". *La G.* Paris, 4 (1901), 207-210. Fig.

23-50.86 Racovitza, E. G. Expeditiunea antarctica Belgiana. *B. S. G. Romina.* Bukarest, 21 (1901), 2, 59-79. Fig. Cartes.

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23-50.92 Cook, F. A. Vers le Pôle Sud. L'expédition de la "Belgica" 1897-1899. Adaptation française par A.-L. Pfander. m-320 pp. Bruxelles, Falk fils, 1902. Ill.

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23-50.118 **Dobrowolski, A. B.** Sur le role historique du voyage de la Belgica (Expédition antarctique belge). *B. de la S. Royale Belge de G.,* 69e année, fasc. 1, 1939, 1-10.
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23-50.120 **Pergament, Charles La** Belgique et l'Antarctique. *B. de la S. Royale Belge de G.,* 65 année, fasc. 3-4, 1941. 103-131, illus. Maps. (Account of Belgian work in the Antarctic; A. de Gerlache's expedition, 1897-99.)
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23-50.122 **Burbure, Albert de** L'expédition antarctique du Belgica. *La Revue Maritime,* no. 44, 1949, 1631-39.

Section 23-51. Chun, 1893

Date: 1898-99.
Leader: Karl Chun.
Nationality: German.
Ship: *Valdivia.*
Summary: German Deep Sea Expedition, an oceanographical cruise which penetrated Antarctic waters. Visited Iles de Kerguelen. Important for having accurately fixed position of Bouvetöya.

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23-51.4 **Schott, G.** Die amtlichen vorläufigen Berichte über die deutsche Tiefsee-Expedition 1898-1899. *Z. Ges. E.* Berlin, XXXIV (1899), Heft 2.
23-51.5 **Schott, G.** Von der deutschen Tiefsee-Expedition. *A. der Hydr.* Hamburg. 27 (1899), 6-13; 227-276; 327-338. Abb.
23-51.6 **Supan, A.** Die Hauptergebnisse der deutschen Tiefsee-Expedition in den Antarktischen Gewässern. *Petermann's M.* Gotha, 45 (1899), 94-95.
23-51.7 **Tittmann, O. H.** The definitive Location of Bouvet Island. *National G. Mag.* Washington, 10 (1899), 413-414.
23-51.8 **Ule, W.** Die Deutsche Tiefsee-Expedition des "Valdivia." *Die Natur.* Halle a. S., 48 (1899), 253-255.
23-51.9 Die Deutsche Tiefsee-Expedition. *Gaea.* Leipsig. 35 (1899), 218-225; 536-545; 593-604.
23-51.10 Die Deutsche Tiefsee-Expedition auf dem Schiff "Valdivia," 1898-1899. VII. Internationaler Geographen-Kongress, Berlin, 1899. *Berichte den Mitgliedern des Kongresses dargeboten von der Ges. für E. zu Berlin.* Berlin, 1899, 120 pp.
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23-51.12 The German Deep Sea Expedition. *G. J.* London, XII (1899), 5, 494-496.
23-51.13 The German Deep-Sea Expedition. *G. J.* London, 13 (1899), 297-298.—*Scott. G. Mag.* Edinburgh, 15 (1899), 143-145.
23-51.14 The German Deep-Sea Expedition in Antarctic Waters. (Translation from *Deutscher Reichs-Anzeiger* of March 25, 1899). *G. J.* London, XIII (1899), 649-650.
23-51.15 The Results of the "Valdivia" Expedition. *Nature.* London, 60 (1899), 114-115.
23-51.16 **Schott, G.** Die Deutsche Tiefsee-Expedition auf dem Dampfer "Valdivia" im südlichen Eismeer. *Globus.* Braunschweig, 77 (1900), 345-352, 365-371. Karte und Illustr.
23-51.17 **Schott, G.** Ein Tag an Bord der "Valdivia." *Marine Rundschau.* Berlin (1900), Heft 2.
23-51.18 Wissenschaftliche Ergebnisse der deutschen Tiefsee-Expedition auf dem Dampfer "Valdivia" 1898-1899. Im Auftrage des Reichsamts des Innern hrgn. von Carl Chun. Jena, G. Fischer, 1900-1907.
23-51.19 **Sachse, W.** Das Wiederauffinden der Bouvet-Insel durch die deutsche Tiefsee-Expedition. 9 Taf. und 1 Abb. 64 pp. *Wiss. Erg. der "Valdivia" 1898-1899.* Jena, X (1905), 1. Lfrg.
23-51.20 **Schott, G.** Eine Revision der Proviantdepots auf Kerguelen, St. Paul und Neu-Amsterdam. *A. der Hydrogr.* Hamburg, (1910). Heft 5.
23-51.21 **Schott, G.** Der Verlauf und die wichtigsten geographischen Ergebnisse der deutschen "Valdivia" Tiefsee-Expedition 1898-1899. *J.-Ber. Vereins für E. zu Metz 1900-1901.* Metz, 23 (1911), 25-31.
23-51.22 Voyages of the "Valdivia." *The Edinburgh Rev.* Edinburgh, 195 (1912), 189-214.

Section 23-52. Borchgrevink, 1898-1900

Date: 1898-1900.
Leader: C. E. Borchgrevink.
Nationality: British.
Ship: *Southern Cross.*
Summary: First scientific party to winter on the Antarctic mainland, at Cape Adare. Explored Victoria Land Coast and the barrier edge of the Ross Shelf Ice. Landed at Bay of Whales.

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23-52.2 **Mill, H. R.** Projects for Antarctic Exploration. *Nature.* London, 54 (1899), 29-31.
23-52.3 **Borchgrevink, C. E.** On Antarctic exploration. *Strand Mag.* London, XIII, March 1897, 344; XV, April 1897, 360.
23-52.4 **Borchgrevink, C. E.** Antarctikus útja. [Borchgrevinks antarktiske Reise.] *Földrajzi Közlemények.* Budapest, 26 (1898?), 351.
23-52.5 **Borchgrevink, C. E.** Den antarktiske expedition. (Uddrag.) *Norske G. S. Aarbog.* Kristiania, 9 (1898), 158-166.
23-52.6 **Nielsen, Y.** Polarexpeditionen (Sverdrup-Borchgrevink). *Deutsche Rev.* Stuttgart (Sept. 1898), 298-300.
23-52.7 **Borchgrevink, C. E.** L'expédition du "Southern Cross" dans les régions antarctiques. *A travers le Monde.* Paris, N. sér., 5 (1899), 355-360. Ill.
23-52.8 **Newnes, G.** The "Southern Cross" Antarctic expedition. *Strand Mag.* London, Sept. 1899, 278. Ill.
23-52.9 Borchgrevink's antarktische Expedition auf dem "Southern Cross." *Petermann's M.* Gotha, 45 (1899), 240-241.
23-52.10 **Borchgrevink, C. E.** The British Antarctic Expedition, 1898-1900. *Rep. 70. Meeting of the British Ass. Advancement sc. held at Bradford in Sept. 1900.* London (1900), 814.
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23-52.12 **Borchgrevink, C. E.** The "Southern Cross" expedition to the Antarctic, 1898-1900. *G. J.* London. XVI (1900), 381-414.
23-52.13 **Cook, F. A.** *The collections of the Southern Cross.* London, British Museum, 1900.
23-52.14 **F. M.** Die Südpolexpedition Borchgrevinks, C. E. *D. Rundschau für G. und Stat.* Wien, 23 (1900), 60-62. Karte 1: 45.000.000.

23-52.16 Fitzgerald, W. G. C. E. Borchgrevink and Antarctic exploration; interview. *Strand Mag.* London, XX (Sept. 1900), 243. Ill.

23-52.16 H. B. Die Fahrt des "Southern Cross" ins südliche Eismeer 1898-1900. Nach Borchgrevink. *Die Natur.* Halle a/S., 49 (1900), 518-521, 532-536.

23-52.17 Mewius, F. Borchgrevinks Südpolar-Expedition; hauptsächlich nach Borchgrevinks Berichten in der norwegischen Zeitung "Aftenposten." Mit Schlussbemerkungen von Supan. *Petermann's M.* Gotha, 46 (1900), 238-242. Karte.

23-52.18 Rabot, C. L'expédition Borchgrevink à la Terre Victoria. *La G.* Paris, 1 (1900), 415-416.

23-52.19 Rabot, C. Le secret des glaces du Pôle Sud. (Expédition de la "Southern Cross"). *Lecture pour tous.* Paris, février 1900, 441-451, 208-212.

23-52.20 The Antarctic Expedition (Borchgrevink's). Conversazione at the Town-Hall, Wednesday, April 18, 1900. Hobart, 1900, 14 pp.

23-52.21 Die Ergebnisse Borchgrevink's antarktischer Expedition 1899-1900. *Globus.* Braunschweig, 78 (1900), 16 252-257. Ill.

23-52.22 Borchgrevink, C. E. Die Antarktische Expedition "Southern Cross" in den Jahren 1898-1900. *V. Ges. E.* Berlin, 28 (1901), 108-171, Ill. und Karte.

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23-52.27 British Antarctic expedition. *National G. M.*, v. 12, Sept. 1901, 339-345.

23-52.28 Einige weitere Ergebnisse von Borchgrevink's Südpolarexpedition. *Globus.* Braunschweig, 80 (1901), 18.

23-52.29 Fresh light on the Antarctic. (After Louis Bernacchi.) *Nature.* London, 65 (1901), 153-157. Ill.

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23-52.33 The "Southern Cross" Antarctic Expedition. *Nature.* London, 67 (1903), 539-540.

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23-52.35 Die Expedition C. Borchgrevink zum Südpolarland. *Gaea.* Leipzig, 50 (1904), 559-563.

23-52.36 "Southern Cross" Antarctic Expedition. *Quarterly J. Roy. Met. S.* London, 30 (1904), 311-312.

23-52.37 Borchgrevink, C. E. Das Festland am Südpol. Die Expedition zum Südpolarland in den Jahren 1898-1900. Nach Skizzen und Zeichnungen des Verfassers, illustriert von Otto Sindin und E. Ditleveen u. mit Reproduktionen photograph. Orig. Aufnahmen. VII-609 pp. Abb. Taf. u. 6 Karten. Breslau, 1905, Schles. Buchdruckerei (Schottländer).

23-52.38 Borchgrevink, C. E. Naermest Sydpolen Aaret 1900. Kjöbenhavn, Gyldendal (1905), 576 pp., 8 kart.

Section 23-53. Scott, 1901-04

Date: 1901-04.
Leader: Robert F. Scott.
Nationality: British.
Ship: *Discovery.*
Summary: First extensive exploration and scientific observation on the Antarctic continent. Three long sledge trips: one 380 miles south on Ross Shelf Ice; one for 180 miles and one for 800 miles westward onto the 9000-foot Victoria Land Plateau. Discovered Edward VII Land, Scott Island. Relief brought by William Colbeck in the *Morning*, 1902-03, and in the *Morning* and the *Terra Nova* in 1903-04.

23-53.1 Murray, J. The Antarctic. A Plea for a British Antarctic Expedition. *Scott. G. Mag.* Edinburgh, 14 (1898), 505-510. Map.

23-53.2 Supan, A. Die Antarktische Forschung. Das Englische Projekt. *Petermann's M.* Gotha, 44 (1898), 65-69.

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23-53.4 Antarctic Exploration. *Scott. G. Mag.* Edinburgh, 14 (1898), 198-202. *Nautical Mag.* London, 67, 217-220, 838-836.

23-53.5 Markham, C. R. Address to the Royal Geographical Society. *G. J.* London, 14 (1899), 1-14. (Reference to Antarctic, 7-14.)

23-53.6 Markham, C. R. The President's opening address, session 1898-1899. *G. J.* London, 13 (1899), 1-12. (Reference to Antarctic, 8-16, including speeches by Prof. Michael Foster, Prof. Rücker, Sir Joseph Hooker, Sir Erasmus Gumsanay, Sir Leopold M'Clintock, and Sir William Wharton.)

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23-53.8 Les prochaines expéditions antarctiques allemande et anglaise. *A travers le Monde.* Paris, N. Sér. 5 (1899), 143-144. Carte.

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23-53.13 Gregory, J. W. The work of the National Antarctic Expedition. *Nature.* London, 63 (1901), 609-612. Map.

23-53.14 H. B. Die Aufgaben der britischen nationalen Südpolar-Expedition. *Die Natur.* Halle a. S., 50 (1901), 241-244.

23-53.15 J. S. Expéditions anglaise et allemande au Pôle Sud. *Rev. française de l'Etranger et des Colonies.* Paris, 28 (1901), 593-596.

23-53.16 Markham, C. R. The Antarctic Expedition. (An accurate account of the enterprise and of what preceded it.) *T. and P. Annual Rep. of the Council Liverpool G. S.* Liverpool, 1901, 22-43.

23-53.17 Mill, H. R. With the "Discovery" to Madeira. *G. J.* London, 18 (1901), 395-398.

23-53.18 Poulton, E. B. The British National Antarctic Expedition. *Science.* New York, 13 (1901), N. ser., 890-897.

23-53.19 Poulton, E. B. The National Antarctic Expedition. *Nature.* London, 64 (1901), 156-206.

23-53.20 Shackleton, William Antarctic exploration. *Knowledge.* London, 24 (1901), 121-124.

23-53.21 The Antarctic Expedition. *Nature.* London, 64 (1901), 181-182, 228-234.

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23-53.24 The British National Antarctic Expedition. *Science.* New York, 14 (1901), N. Ser., 94-109.

23-53.24a The National Antarctic Expedition. *G. J.* London, 18 (1901), 275-279.—*Nature.* London, 64 (1901), 83-86; 182-183.

23-53.25 The National Antarctic Expedition. Instructions to the Commander. *G. J.* London, 18 (1901), 2, 154-160.

23-53.26 Zur Ausreise der Südpolarexpeditionen. *Globus.* Braunschweig, 80 (1901), 69-72.

23-53.27 Barré, P. L'expédition anglaise Scott au Pôle Sud. *Rev. française de l'Etranger et des Colonies.* Paris, 28 (1902), 425-428.

23-53.28 Markham, C. R. The voyage southward of the "Discovery". III. The "Discovery" and the relief ship. *G. J.* London, 19 (1902), 435-452. Ill.

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23-53.32 Faustini, A. Di alcuni risultati della "Discovery." *Riv. Marittima.* Roma, Luglio, 1903.

23-53.33 Markham, C. R. The First year's work of the National Antarctic Expedition. *G. J.* London, XXII (1903), 13–20. Map.—*Annual Rep. Smithsonian I.* Washington, 1903 (1904), 459–465.

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23-53.40 The British South Polar Expedition. *National G. Mag.* Washington, 14 (1903), 210–212.

23-53.41 L'expédition anglaise de la "Discovery" au Pôle Sud. *A travers le Monde.* Paris, N. sér., 9 (1903), 189–190. Cartes.

23-53.42 National Antarctic Expedition. Report of the commander. *G. J.* London, XXII (1903), 20–38. With map.

23-53.43 The National Antarctic Expedition. *G. J.* London, XXII (1903), 686–689.

23-53.44 Work in the Far South. *National G. Mag.* Washington, 14 (1903), 109. 4 Maps.

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23-53.47 Faustini, A. Un cenno sui risultati della "Discovery." *Riv. Marittima.* Roma (Ottobre 1904).

23-53.48 Markham, C. R. The Antarctic Expedition. (Work of the second season.) *G. J.* London, 23 (1904), 549–552.

23-53.49 Scott, R. F. The National Antarctic Expedition. *G. J.* London, 24 (1904), 17–30.

23-53.50 Abschluss der englischen Südpolarexpedition. *Globus.* Braunschweig, 85 (1904), 291.

23-53.51 Die englische Südpolarexpedition. *Das Wissen.* Wien (1904), 282.

23-53.52 L'expédition antarctique anglaise au Pôle Sud. *B. Ligue maritime belge.* Anvers, 3 (1904), 6–10.

23-53.53 The National Antarctic Expedition. Captain Colbeck on the Relief Expedition. *G. J.* London, 23 (1904), 741–744. Map 1: 18.000.000.

23-53.54 The Return of the "Discovery." *Scott. G. Mag.* Edinburgh, 20 (1904), 544–548.

23-53.55 Return of the National Antarctic Expedition. *G. J.* London, 24 (1904), 377–384. *Nature.* London, 69 (1904), 548–544.

23-53.56 With the "Discovery" Antarctic Relief Expedition. A pictorial narrative by an officer of the Antarctic Relief Ship "Terra Nova." *Sphere.* London, 25 (June 1904). Special Antarctic Supplement; fig.

23-53.57 Armitage, A. B. Two Years in the Antarctic. Being a narrative of the British National Antarctic Expedition. London, E. Arnold, 1905, 226 pp. Ill. & maps.

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23-53.67 Cardauns, H. Die englische Südpolarexpedition. *Ber. Senckenbergischen naturforsch. Ges.* Frankfurt a/M., Nov. 1906, 223–227.

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23-53.70 (Leclercq, J.) Chronique polaire. Expédition de la "Discovery." *Rev. Générale.* Bruxelles, mai 1906, 847–850.

23-53.71 Rabot, C. Comment on peine, comment on s'amuse au Pôle Sud. *Lectures pour Tous.* Paris, nov. 1906, 123–131. Ill.

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23-53.76 Wilson, E. A. National Antarctic Expedition 1901–1904. Introduction, pp. ix–xi. London, 1908.

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Section 23-54. Von Drygalski, 1901–03

Date: 1901–03.
Leader: Erich von Drygalski.
Nationality: German.
Ship: *Gauss.*
Summary: Penetrated pack-ice at 90° E. Discovered Wilhelm II Coast. Ship beset in pack-ice 50 miles offshore for a year. Many scientific observations made. Another group of scientists and surveyors, in the *Tanglin* and the *Stacafurt,* made observations during 16 months at Iles de Kerguelen.

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Section 23-55. Nordenskjöld, 1901-03

Date: 1901-03.
Leader: Otto Nordenskjöld.
Nationality: Swedish.
Ship: *Antarctic.*
Summary: Surveyed de Gerlache Strait. Established winter quarters on Snow Hill Island, from which short sledging trips were made to Richthofen Valley and Ross Island. Ship wintered in South Georgia in 1902, and was beset and crushed in Erebus and Terror Gulf in 1903. The crew, under Capt. C. A. Larsen, wintered at Paulet Island. Entire expedition rescued by Capt. Iñiar in the Argentine gunboat *Uruguay.*

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23-55.27 **Hildebrandt, H.** Eine verschollene Polarexpedition (O. Nordenskjöld's). *Hamburger Nachrichten.* Hamburg, 4 November 1903.

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23-55.29 **Nathorst, A. G.** Antarctic. Ett minnesblad. *Ymer.* Stockholm, 23 (1903), 460-471. Fig.

23-55.30 **Nathorst, A. G.** Den svenska antarktiska undsättningsexpeditionen. *Ymer.* Stockholm, 23 (1903), 200-208.

23-55.31 **Nordenskjöld, O.** Conferencia al regreso de la "Uruguay." *B. Centro Naval.* Buenos Aires, 21 (1903), 440-464. *B. I. G. Argentino.* Buenos Aires, 22 (1903), 57-82. *La Argentina en los mares antárticos,* 122-130.

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23-55.35 Die Forschungsreise der schwedischen Südpolar-Expedition nach Südgeorgien (Nach J. G. Andersson). *Globus.* Braunschweig, 83 (1903), 103-107. Abb. & Karten.

23-55.36 Det festlige Nordenskjöldmöde. Dr. Otto Nordenskjölds Föredrag. *G. T's.* Kjöbenhavn, 1903-1904, H. VII, 12 pp.

23-55.37 Kungl. Maj:ts nådiga proposition till riksdagen om anslag för en undsättningsexpedition till Södra Ishafvet. Stockholm. *Bihang t. Riksd. protokoll,* 1903. Saml. 1. Afd. 1, No. 103, 18 pp.

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23-55.39 Regreso de la "Uruguay". Exito de su expedicion á las tierras australes. El "Antarctic" á pique. Rescate de Nordenskjöld, Larsen y demas expedicionarios. Los partes oficiales. Llegada á la capital Argentina. Recepcion y festejos. *B. Centro Naval.* Buenos Aires, 21 (1903), Nos. 240-241, 433-465.

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23-55.42 **Andersson, G.** Den svenska antarktiska undsättningsexpeditionen. *Ymer.* Stockholm, 1904, 1, 122-125.

23-55.43 **Andersson, J. G.** Informe sobre la campaña de invierno del "Antarctic" en la Georgia del Sud. *B. I. G. Argentino.* Buenos Aires, 22 (1904), 103-107.

23-55.44 **Andersson, J. G.** The Swedish Antarctic Expedition. III. The scientific operations on board the "Antarctic" in the summer 1902-1903.—IV. The sledge-expedition from the "Antarctic". *G. J.* London, 23 (1904), 215-220.

23-55.45 **Bodman, G.** Zwei Winter im südlichen Eismeer. *Die Umschau.* Frankfurt a/M., 1904, 8, 61-63, fig.

23-55.46 **Faustini, A.** La crociera del Comandante Iriar alla ricerca del dott. O. Nordenskjöld. *Riv. Marittima.* Roma, Giugno 1904.

23-55.47 **Faustini, A.** Sul contributo scientifico della spedizione antartica svedese. *Riv. Marittima.* Roma, Maggio 1904.

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23-55.55 **Nordenskjöld, O.** Den svenska sydpolarexpeditionen 1901-1903. I. Allmän öfversikt samt redogörelse för vinterstationen vid Snow Hill. *Ymer.* Stockholm, 1904, 1, 43-67, ill.—*Norske G. Aarbog.* Kristiania, 18 (1904), 56-82.

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23-55.61 **Nordenskjöld, O.** The Swedish Antarctic Expedition. *G. J.* London, 24 (1904), 50-55, fig., 2 maps 1:10.000.000, 1:3.000.000.

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23-55.63 **Nordenskjöld, O., and Andersson, J. G.** The Swedish Antarctic Expedition. *Annual Rep. of the Board of Regents Smithsonian I.* Washington, 467-470, map. *After: G. J.* London, 23 (1904), 207-220.

23-55.64 **Nordenskjöld, O., Andersson, J. G., Larsen, C. A., Ekströmberg, C.** Antarctic. Två år bland sydpolens isar. Stockholm, 1904. D. 1-2.

23-55.65 **Sobral, J. M.** Conferencia, patrocinada por el Centro Naval y leida en el Politeama Argentino el 19 de diciembre de 1903. *B. I. G. Argentino.* Buenos Aires, 22 (1904), 111-143.

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23-55.69 **Yelour, J.** El viaje de la "Uruguay". *B. I. G. Argentino.* Buenos Aires, 22 (1904), 9-21.—*La Argentina en los mares antarcticos.* 130-135.

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23-55.72 Der Südpolarforscher Dr. Otto Nordenskjöld. *D. Rundschau für G. und Stat.* Wien, 27 (1904), 183-185.

23-55.73 Heimkehr der schwedischen Südpolarexpedition. *Vom Fels zum Meer.* Berlin (1904), H. 11.

23-55.74 L'expédition du Dr. Otto Nordenskjöld. *Le Mouvement G.* Bruxelles, 21 (1904), 13-17, 49-53, 2 cartes.

23-55.75 Publikation behandlande den Svenske sydpolar-expeditionens vetenskapliga resultat. *Ymer.* Stockholm, 1904, 2, 235-236.

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23-55.82 **Faustini, A.** Uno sguardo sui lavori scientifici della spedizione antartica svedese. *B. S. G. Italiana.* Roma, Marzo 1905, 221-232.

23-55.83 **Lemoine, F.** Expédition suédoise au Pôle Sud par le Dr Otto Nordenskjöld. *La G.* Paris, 1 (1905), 71-74.

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23-55.90 **Duse, S. A., et Avenard, E.** La dernière expédition suédoise dans l'Antarctide. *Rev. de G.* Paris, 55 (1905), 35-39, 198-208, 241-246, 274-278. Illustr.

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23-55.92 Die schwedische antarktische Expedition. *Gaea.* Leipzig, 41 (1905), 75-84.

23-55.93 **Nordenskjöld, O.** Letzte Resultate der Südpolarforschung. *D. Rev.* Stuttgart und Leipzig, Oktober 1905, 33-40.

23-55.94 **Duse, S. A.** Verso il Polo Sud. Memorie della spedizione antartica diretta dal prof. O. Nordenskjöld. Trad. dall' originale suedese di U. Farfara . . . Milano, 1907, 220 pp.

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23-55.100 **Baschin, O.** Die geographische Tätigkeit der schwedischen Südpolar-Expedition. *Z. Ges. E.* Berlin (1912), 619-626.

23-55.101 **Hobbs, W. H.** The Swedish South Polar expedition. A review. *B. American G. S.* New York, 44 (1912), 514-517.

23-55.102 *Wissenschaftliche Ergebnisse der Schwedischen Südpolar-Expedition, 1901-03.* 6 vols., 1908-21; 2 vols., 1923-29. Stockholm, Lithographisches Institutelas Generalstabe; London, Dulau and Co.

23-55.103 Nordenskjöld, O. The scientific results of the Swedish Antarctic Expedition of 1901-03. *G. Annaler*, VI, Stockholm, 1924. 122-180. (Scientific works treating the results of Swedish journeys of exploration during the present century. II.)

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23-55.105 Taylor, Andrew. Echoes of the Swedish South Polar Expedition of 1902-3. *Revue Canadienne de Géographie*, v. 4, nos. 1-2, Jan.-Aug. 1950, 47-62, map.

Section 23-56. Bruce, 1902-04

Date: 1902-04.
Leader: W. S. Bruce.
Nationality: Scottish.
Ship: *Scotia*.
Summary: Discovered Coats Land, but did not land. Made oceanographical observations in the Weddell Sea. Wintered on Laurie Island, South Orkney Islands. Turned over meteorological station there to Argentine Govt. in 1904.

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23-56.3 Bruce, W. S. The proposed Scottish National Antarctic Expedition. *Scott. G. Mag.* Edinburgh, 16 (1900), 352-357.

23-56.4 Supan, A. Die schottische Südpolar-Expedition. *Petermann's M.* Gotha, 46 (1900), 165-166.

23-56.5 L'Expédition Ecossaise. Au Pôle Antarctique. *A travers le Monde*. Paris, 6 (1900). N. sér., 205. Carte.

23-56.6 Bruce, W. S. The Scottish Antarctic Expedition. *Scott. G. Mag.* Edinburgh, 17 (1901), 561-569.

23-56.7 Bruce, W. S. Scottish National Antarctic Expedition. *Scott. G. Mag.* Edinburgh, 18 (1902), 536-543. Fig.

23-56.8 The Scottish National Antarctic Expedition. *Scott. G. Mag.* Edinburgh, 18 (1902), 425-427. — *G. J.* London, XX (1902), 438-441. With sketch map.

23-56.9 The Scottish Antarctic Expedition. *Nature*. London, 66 (1902), 630-632.

23-56.10 The "Scotia's" voyage to the Falkland Islands, by the Leader and Staff of the Scottish National Antarctic Expedition. *Scott. G. Mag.* Edinburgh, 19 (1903), 169-183. Fig. and maps.

23-56.11 Bruce, W. S. First Antarctic Voyage of the "Scotia". I. Narrative. *Scott. G. Mag.* Edinburgh, 20 (1904), 57-66. Map 1: 14,000,000.

23-56.12 Bruce, W. S. Report on the work of the Scottish National Antarctic Expedition. Read at the Meeting of the British. Ass., Section E. Cambridge, August 23. Edinburgh, 1904. 8 photographs and map, 10 pp.

23-56.13 Krebs, W. Neues aus der amerikanischen Antarktis. *Globus*. Braunschweig, N° 23 (1904).

23-56.14 Supan, A. Weitere Nachrichten von der schottischen Südpolar-Expedition. *Petermann's M.* Gotha, 50 (1904), 79-80.

23-56.15 First Antarctic Voyage of the "Scotia" (1903). Reports by the Leader and Staff of the Scottish National Antarctic Expedition. *Scott. G. Mag.* Edinburgh, 20 (1904), 113-133, map.

23-56.16 The Return of the "Scotia". *Scott. G. Mag.* Edinburgh, 20 (1904), 427-429.

23-56.17 The Scottish Antarctic Expedition. *G. J.* London, 23 (1904), 260-262, map 1:25,000,000.

23-56.18 Brown, R. N. Rudmose. Some Results of the Scottish National Antarctic Expedition. 5. Diego Alvarez or Gough Island. *Scott. G. Mag.* Edinburgh, 21 (1905), 430-440, fig.

23-56.19 Brown, R. N. Rudmose. The Voyage of the "Scotia". *T. PerthShire S. of Nat. Sc.* Perth, IV (1905), Part II, 63-70. Illustr.

23-56.20 Pirie, J. H. Harvey. Summer work in the South Orkneys. *Scott. G. Mag.*, v. 21. Edinburgh, 1905. 34-37, illus.

23-56.21 Pirie, J. H. Harvey, and Brown, R. N. Rudmose. The Scottish National Antarctic Expedition. Second Antarctic voyage of the "Scotia". *Scott. G. Mag.*, v. 21. Edinburgh, 1905. 24-33, illus. Map 1:14,000,000.

23-56.22 The Scottish National Antarctic Expedition (After J. H. Harvey Pirie and R. N. Rudmose Brown). *Nature*. London, 71 (1905), 425-526; 73, 42-43, illustr.

23-56.23 Second antarctic voyage of the "Scotia". *S. American G. S.* New York, 37 (1905), 94-95.

23-56.24 Some Results of the Scottish National Antarctic Expedition. *Scott. G. Mag.* Edinburgh, 21 (1905), 401-440, 8 maps.

23-56.25 Weiteres über die schottische Südpolar-Expedition. *Globus*. Braunschweig, 87 (1905), 158.

23-56.26 Bruce, W. S. Report on the Work of the Scottish National Antarctic Expedition. Edinburgh, *Scott. Oceanogr. Laboratory*. Maps and Ill.

23-56.27 J. W. G. Antarctic Exploration. (After Hugh Robert Mill and *Voyage of the "Scotia"*). *Nature*. London, 75 (1906), 103-105. Map & Ill.

23-56.28 The Voyage of the Scotia: A Review. *Scott. G. Mag.* Edinburgh, 22 (1906), 643-648. Illustr.

23-56.29 The Voyage of the "Scotia". Being the Record of a Voyage of Exploration in Antarctic Seas. By Three of the Staff. Edinburgh and London, W. Blackwood and Sons, 400 pp. Illustr. 3 maps.

23-56.30 Bruce, W. S. Scotland and Antarctica. From Scotia, Edinburgh, Martinmas, 1908. Ill.

23-56.31 *Scottish National Antarctic Expedition. Report on the scientific results of the voyage of S. Y. Scotia during the years 1902-1904, under the leadership of W. S. Bruce.* 7 vols. Edinburgh, The Scottish Oceanographical Laboratory, 1907-1920.

23-56.32 Helm, F. Süd-Victoria-Land und Rossmeergebiet nach den Ergebnissen der Scottschen Südpolarexpedition. *Geog. Z.*, XXXII, 1926, 247-261.

Section 23-57. Charcot, 1903-05.

Date: 1903-05.
Leader: Jean B. Charcot.
Nationality: French.
Ship: *Français*.
Summary: Surveyed west coast of Palmer Peninsula and Palmer Archipelago. Wintered at Wandel Island. Discovered Loubet Coast, Peltier Channel, Daumer Island, and Port Lockroy. Charted Biscoe Islands. Sighted Alexander I Land. Made extensive scientific observations and collections.

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23-57.2 Faustini, A. Verso il polo antartico. *Riv. Marittima*. Roma, Maggio 1903.

23-57.3 Girard, J. Expédition antartique française. (Le "Français"). *La G.* Paris, 8 (1903), 170-171.

23-57.4 Nicolle, E. Vers le Pôle Sud. Expédition du "Français". *B. S. G.* Lille, 40 (1903), 199-204.

23-57.5 Nouvelles de l'expédition Charcot. *La G.* Paris, 10 (1904), 246.

23-57.6 Programme de l'expédition antarctique française. *La G.* Paris, 9 (1904), 45-48.

23-57.7 Charcot, J.-B. The French Antarctic Expedition. *G. J.* London, 26 (1905), 497-519. Map 1:2,500,000.— *Scott. G. Mag.* Edinburgh, 21 (1905), 493-498.

23-57.8 Charcot, J.-B. L'expédition antarctique française de 1904-1905. *B. S. R. belge G.* Bruxelles, 29 (1905), 130-132.

23-57.9 Charcot, J.-B. Rapport préliminaire de l'expédition antarctique française. *La G.* Paris, 11 (1905), 409-412. Carte 1:2,500,000.

23-57.10 Faustini, A. La crociera del Comandante Gallinder alla ricerca del Dott. Charcot 1904-1905. *Riv. marittima*. Roma, Luglio 1905, 6 pp.

23-57.11 Gourdon, E. Article préliminaire sur les résultats généraux de l'expédition du Dr Charcot. *La Science au XX^e Siècle*. Paris, 3 (1905, 15 sept.). N° 33.

23-57.12 Lasalle, C. de. Pôle Sud. L'expédition française Charcot. *Rev. française de l'Étranger et des Colonies*. Paris, 30 (1905), 406-418.

23-57.13 Lemoine, P. L'expédition antarctique française, par le docteur Jean Charcot. *La G.* Paris, 12 (1905), 74-77.

23-57.14 Martel, E. A. L'expédition Charcot. *La Nature*. Paris, 33, II (1905), 38.

23-57.15 Parisot, E. Vers la terre polaire Australe. *Mém. Ac. Sc. Belles-Lettres et Arts de Lyon*. III^e sér., VIII. Lyon, 1905. 247-374, cartes. (Particular reference to first Charcot expedition.)

23-57.16 Weitere Mitteilungen über die französische Südpolar-Expedition. *Globus*. Braunschweig, 88 (1905), 158.

23-57.17 Charcot, J.-B. Expédition antarctique française. *Arch. Générales de Médecine*. Paris, 1906, 2, 1682-1688.

23-57.18 **Charcot, J.-B.** Exposé des travaux scientifiques de l'expédition antarctique française 1903-1905. Géographie. Étude des Marées. Chloruration et densité de l'eau et de la glace de mer. Intensité de la pesanteur. *La G.* Paris, 1906, 15 novembre.

23-57.19 **Charcot, J.-B.** L'expédition antarctique française. *B. S. G.* Lille, 45 (1906), 197-207. Pl.

23-57.20 **Charcot, J.-B.** Le "Français" au Pôle Sud. Journal de l'expédition antarctique française 1903-1905. Préface par l'Amiral Fournier. Suivi d'un exposé de quelques-uns des travaux scientifiques par les membres de l'État-Major. Paris, 1906, Illustr. et carte hors texte.

23-57.21 **Charcot, J.-B.** Une expédition au Pôle Antarctique. *B. S. Normande G.* Rouen, janv.-mars, 1906, 1-21.

23-57.22 **Charcot, J.-B.** Une expédition au Pôle Sud. *B. S. G. Commerciale, 1904-1905.* Le Havre, (1906), 353-375.

23-57.23 Instructions pour l'Expédition Antarctique organisée par le Dr Jean Charcot. *Institut de France. Ac. des Sc.* Paris, 1906. 48 pp.

23-57.24 **Lasalle, C. de.** Le "Français" au Pôle Sud. *Rev. franc. de l'Étranger et des Colonies.* Paris, 32 (1907), 91-101, planches.

23-57.25 **Rudaux, L.** Résultats scientifiques de l'expédition Charcot. *La Nature.* Paris, 1907, 391-394. Illustr.

23-57.26 **Vibert, P.** Vers le Pôle Sud. *Moniteur diplomatique.* Paris, 17 nov. 1907.

23-57.27 Expédition française au Pôle Sud commandée par le Docteur Charcot. But et moyens approuvés par l'Académie des Sciences. *B. S. G.* Lille, 48 (1907), 81-87.

23-57.28 **Charcot, J.-B.** Expédition antarctique française 1903-1905. Journal de l'Expédition. Paris, Masson, 1908, 120 pp.

23-57.29 **Gourdon, Ernest** *Un hivernage dans l'Antarctique. Expédition antarctique française 1903-05, commandée par le Dr. J. Charcot.* Paris, G. Steinheil, 1913.

23-57.30 *Expédition antarctique française 1903-05, commandée par J. Charcot. Documents scientifiques.* Paris, 1907-14.

Section 23-58. Galindez et al., 1904-present

Date: 1904-present.
Leader: I. F. Galindez et al.
Nationality: Argentina.
Ship: *Uruguay.*
Summary: Took over meteorological station on Laurie Island, South Orkney Islands, from W. S. Bruce. Since 1904, a relief party has been sent annually.

Section 23-59. Shackleton, 1907-09

Date: 1907-09.
Leader: Ernest Shackleton.
Nationality: British.
Ship: *Nimrod.*
Summary: Wintered on Ross Island. Scaled Mt. Erebus. Sledged to within 97 miles of the south pole. T. W. E. David sledged to south magnetic pole. Discovered numerous mountains, Beardamore Glacier, and South Polar Plateau. Made scientific observations and collections.

23-59.1 **Markham, C. R.** A new British Antarctic Expedition. *Times.* London, April 24, 1908.

23-59.2 **Moyser, A. E.** Towards the South Pole. The voyage of the "Nimrod". *Nautical Mag.* Glasgow-London, 76 (1907), 203-208. Ill.

23-59.2a **Shackleton, E. H.** A new British Antarctic Expedition. *G. J.* London, 29 (1907), 329-332.

23-59.3 The British Antarctic Expedition. *Scott. G. Mag.* Edinburgh, 23 (1907), 372-374.

23-59.4 Die Britische Antarktische Expedition. *Allgemeine Marine und Handelskorrespondenz.* Hamburg, N° 27 (1907).

23-59.5 Lieut. Shackleton's expedition to the Antarctic and its equipment. *Sc. American Supplement.* August 17, 1907.

23-59.6 **Barnacchi, L. C.** Farthest South (Shackleton's Expedition). *Travel and Exploration,* 1 (1909), 329-338. Ill. & map.

23-59.7 **Brown, R. N. Rudmose** The Heart of the Antarctic: A review (Lieut. Shackleton's Expedition). *Scott. G. Mag.* Edinburgh, XXV (1909), 12, 635-644. Map.

23-59.8 **Cardauns, H.** Die Entdeckung des Südpols. *Frankfurter zeitgemässe Broschüren.* Frankfurt a/M, XXVII (1909), 347-377. Karte.

23-59.9 **Chree, C., and Dines, W. H.** Lieut. Shackleton's Antarctic Expedition. Explorations and Results. The South magnetic Pole. By Dr C. Chree. Meteorological Observations. By W. H. Dines. Biological Results. Sketch-map. *Nature.* London, 80 (1909), 180-184.

23-59.10 **David, T. W. Edgeworth.** An account of the first journey to the south magnetic pole. In: *Heart of the Antarctic,* v. II, by E. H. Shackleton. 73-222. Philadelphia, J. B. Lippincott Co., 1909.

23-59.11 **Dennes, J.** L'expédition Shackleton au Pôle Sud. *B. S. R. belge G.* Bruxelles, 1 (1909), 59-75.

23-59.12 **Faustini, A. E. H.** Shackleton o la questione antartica. *Nuova Antologia.* Roma, 1° Sett. 1909. 12 pp. Carte.

23-59.13 **Mill, H. R.** Lieut. Shackleton's achievement. *G. J.* London, XXXIII, 5 (May 1909), 569-573.

23-59.14 **Pickwick** Mercure, Prométhée et Cie. Les dessous matériels de l'expédition Shackleton au Pôle Sud. *La Grande Rev.* Paris, XIII, 18 (juillet 1909), 160-170.

23-59.15 **Rabot, C.** L'expédition Shackleton au Pôle Sud. *La G.* Paris, XIX (1909), I, 207-210.

23-59.16 **Rabot, C.** Vers le Pôle Sud. (Expédition Shackleton.) *Rev. de Paris.* Paris (mai 1909), 191-201.

23-59.17 **Ricchieri, G.** In Vista del Polo Antartico. *La Lettura.* Milano (1909), 390-398.

23-59.18 **Shackleton, E. H.** The British Antarctic Expedition. 1907-1909. *J. Manchester G. S.* Manchester, XXV (1909), III-IV, 97-115. Ill.

23-59.19 **Shackleton, E. H.** Expédition du "Nimrod." 1907-1909. Conférence S. G. Paris. *La G.* Paris, XX (1909), 2, 401-406. Cartes.

23-59.20 **Shackleton, E. H.** Farthest south. British Antarctic Expedition 1907-09. *McClure's M.,* XXXIII, 5, 6, and 7, Sept.-Nov. 1909.

23-59.21 **Shackleton, E. H.** The Heart of the Antarctic, being the story of the British Antarctic expedition. 1907-1909. London, W. Heinemann, 1909, 2 vol. 372+419 pp. Ill. and 8 maps.

23-59.22 **Shackleton, E. H.** The Heart of the Antarctic. *National G. Mag.* Washington, XX (1909), 972-1007, Ill.

23-59.23 **Shackleton, E. H.** 21 Meilen vom Südpol. Uebersetzt und bearbeitet von F. Becker. Berlin. Süserott, 1909-1910. 3 Bde. 503, 321, 285 pp. mit Karten.

23-59.24 **Shackleton, E. H.** Nearest the South Pole. *Pearson's Mag.* London (September 1909), 235-253.

23-59.25 **Shackleton, E. H.** Some results of the British Antarctic Expedition 1907-1909. *G. J.* London, XXXIV 5 (May 1909), 481-500. Ill. and map.

23-59.26 **Shackleton, E. H.** Vers le Pôle Sud. *L'Illustration.* Paris, 28 août 1909, 141-149; 2 oct., 233-240. Traduit par Ch. Rabot.

23-59.27 **Wichmann, F** Leutn. E. H. Shackletons Vordringen zum Südpol. *Petermann's M.* Gotha, 55 (1909), IV, 87-89.

23-59.28 Aus den Ergebnissen der Südpolarexpedition Shackletons. *Globus.* Braunschweig, XCVI (1909), 23, 363-369.

23-59.29 Das Polarschiff "Nimrod" auf der Suche nach zweifelhaften subantarktischen Inseln. *Globus.* Braunschweig, XCVI, 15 (1909), 226.

23-59.30 Det festlige Mode for Lieutenant E. H. Shackleton den 9. Oktober 1909. *G. Te.* Kjöbenhavn, 20 (1909), IV, 127-132.

23-59.31 Die Erfolge der Südpolar-Expedition Shackletons. *Globus.* Braunschweig, XCVI, 15 (1909), 229-231.

23-59.32 Lieut. Shackleton's Antarctic Expedition. *G. J.* London, XXXIII, 4 (April 1909), 465-480.

23-59.33 Mr. Shackleton's Antarctic Expedition. *Scott. G. Mag.* Edinburgh, XXV, 9 (Sept. 1909), 494.

23-59.34 Réception du lieutenant E. H. Shackleton, commandant de l'expédition antarctique britannique à bord du "Nimrod." Séance du 20 octobre 1909. *B. S. R. belge G.* Bruxelles, 5 (1909), 91-97.

23-59.35 The results of the British Antarctic Expedition. *Scott. G. Mag.* Edinburgh. XXV (1909), 368-368.

23-59.36 Shackletons II. englische Südpolar-Expedition. *Z. Ges. E.* Berlin (1909), 61, 189, 229, 399, 421, 558.

23-59.37 Terugkomst van Shackleton's expeditie. *Tv. K. Nederlandsch Aardr. Genootschap.* Amsterdam, II ser., XXVI (1909), 4, 703-708.

23-59.38 Vers le Pôle Sud. Expédition Shackleton. *Rev. française de l'Étranger et des Colonies.* Paris (avril-mai 1909).

23–59.39 Weiteres über die Südpolar-Expedition Shackletons. *Globus.* Braunschweig, XCVI, 17 (1909), 271–272.
23–59.40 **Baschin, O.** Die geographischen Resultate von Shackleton's Südpolar-Expedition. *Z. Ges. E.* Berlin (1910), 245–260.
23–59.41 **Baschin, O.** Shackletons Südpolarexpedition und ihre Ergebnisse. *G. Anz.* Gotha, 11 (1910), 12, 265–272.
23–59.42 **Davis, John King** Voyage of the *S. Y. Nimrod*, Sydney to Montevideo via Macquarie Island, May 8 to June 7, 1909. *Geogr. J.*, v. 36. London, Dec. 1910. 696–703.
23–59.43 **Leclercq, J.** La conquête du Pôle Sud. *Rev. générale.* Bruxelles (févr. 1910), 285–296.
23–59.44 **Martel, E.-A.** L'expédition antarctique Shackleton. *La Nature.* Paris (15 janv. 1910), 103–107.
23–59.45 **Murray, J.** The scientific work of the British Antarctic Expedition of 1907–1909. *G. J.* London, XXXVI (1910), 203–205.
23–59.46 **Pervinquière, L.** Résultats scientifiques de l'expédition Shackleton. *Rev. Sc.* Paris (15 janv. 1910), 78–83.
23–59.47 **Servigny, J.** Pôle antarctique: L'ascension de l'Erebus. *Rev. française.* Paris, XXXV (1910), 221–226.
23–59.48 **Shackleton, E. H.** Au Cœur de l'Antarctique. Traduction et adaptation, par Ch. Rabot. Paris, Hachette et Cie.—*Le Tour du Monde.* Paris, 16 (1910), nos 1–8. Ill.
23–59.49 **Shackleton, E. H.** Some results of the British antarctic expedition, 1907–1909. *Annual Rep. of the Smithsonian I. 1909.* Washington, 1910, 355–369.
23–59.50 Government Grant to Mr. Shackleton. *G. J.* London, XXXIV, 3 (Sept. 1910), 346.
23–59.51 Reports on the scientific investigations of the British Antarctic Expedition, 1907–09. London, W. Heinemann, 1910–30. (A series of volumes.)
23–59.52 Shackleton's Zuidpooltocht. *Te. K. Nederlandsch Aardr. Genootschap.* Amsterdam, 2e ser., XXVII (1910), 1, 189–190.
23–59.53 Sir Ernest Shackleton receives the gullum geographical medal. *B. American G. S.* New York, XLII (1910), 4, 241–242.
23–59.54 **Shackleton, Ernest Henry** *Shackleton in the Antarctic; being the story of the British Antarctic Expedition, 1907–09.* London, W. Heinemann, 1911.
23–59.55 Sir Ernest Shackleton and Wilkes Land. *B. American G. S.* New York, XLIII (Jan. 1911) 1, 58.
23–59.56 **Conrad, V.** Bericht über E. Kidson's Britische Antarktisch Expedition (Shackleton) 1907–1909. *Met. Z.*, Bd. 48, 1931, 97–99.

Section 23–60. Du Baty, 1908–09

Date: 1908–09.
Leader: R. Rallier du Baty.
Nationality: French.
Ship: *J. B. Charcot.*
Summary: Made a detailed examination of east coast of Îles de Kerguelen.

23–60.1 **Balsellère, H.** Voyage aux îles Kerguelen 1908–1910. *La G.* Paris, XX (1909) II, 62–67. Carte.

Section 23–61. Charcot, 1908–10

Date: 1908–10.
Leader: Jean B. Charcot.
Nationality: French.
Ship: *Pourquoi Pas?*
Summary: Discovered Marguerite Bay, Charcot Island, and Fallières Coast. Wintered at Petermann Island. Charted portions of Palmer Peninsula and Palmer Archipelago. Sailed in Bellingshausen and Amundsen Seas. Made extensive scientific observations and collections.

23–61.1 Die zweite französische Südpolar-Expedition. *Globus.* Braunschweig, XCIV (1908), 10, 162–168.
23–61.2 Rapport du Dr J.-B. Charcot. . . adressé à l'Ac. des Sciences sur le voyage de Punte-Arenas à l'Île Déception. *La G.* Paris, XIX (1909, Avril), 279.
23–61.3 **Charcot, J.-B.** Le "Pourquoi-Pas?" dans l'Antarctique. Journal de la deuxième expédition au Pôle Sud 1908–1910, suivi des rapports scientifiques des membres de l'état-major. Préface de M. Paul Doumer. Paris, Flammarion, 1910. Cartes, fig. VII–428 pp.
23–61.4 **Charcot, J.-B.** L'expédition du "Pourquoi-Pas?" *Rev. franç.* Paris, XXXV (1910), 227–231.
23–61.5 **Gourdon, E.** Exploring the Antarctic: first published narrative of the second Charcot expedition. *Harper's Monthly Mag.* London, Nov. 1910. 903–915. Illustr.
23–61.6 **Rabot, C.** Résultats de l'expédition antarctique du Dr Charcot. *La G.* Paris, XXI (1910), 1, 146–148.
23–61.7 La mission Charcot dans l'Antarctique. *Le Mouvement G.* Bruxelles, 1910, no 44, col. 538–539.
23–61.8 L'expédition Charcot. *La Belgique maritime et coloniale.* Bruxelles, no 34 (1910), 249–250.
23–61.9 Le retour de la mission Charcot. *Le Tramway.* Paris, 1910, no 22.
23–61.10 Rapport préliminaire sur les travaux exécutés dans l'Antarctique par la Mission commandée par M. le Dr Charcot, de 1908 à 1910. *Institut de France. Ac. des Sc.* Paris. 1910, IX+104. Préface de L. Joubin. I. Historique du voyage et rapports généraux mensuels, par M. J.-B. Charcot. 1–17, 2 cartes.
23–61.11 **Balch, E. S.** Charcot's antarctic explorations. *B. American G. S.* New York, XLIII (1911), 2, 81–90. Map and Ill.
23–61.12 **Charcot, J.-B.** Le "Pourquoi-Pas?" dans l'Antarctique. *B. S. G.* Lille, XXXII (1911), 4, 221–230.
23–61.13 **Charcot, J.-B.** La seconde expédition antarctique française (1908–1910). *B. S. G.* Marseille, XXXV (1911), 1–2, 83–93. Avec carte.
23–61.14 **Charcot, J.-B.** The second French antarctic expedition. *G. J.* London, XXXVII (1911), 241–260.—*Scott. G. Mag.* Edinburgh, XXVII (1911), 113–128. Map and fig.
23–61.15 **Charcot, J.-B.** L'expédition antarctique française (1908–1910). Relation sommaire et résumé des travaux. *La G.* Paris, XXIII (1911), 1, 5–17. Carte.
23–61.16 **Charcot, J.-B.** The voyage of the "Why Not?" in the Antarctic: the journal of the second French South Polar Expedition, 1908–1910. (Translated by P. Walsh). London, Hodder & Stoughton (1911), VII+316 pp. Map and Ill.
23–61.17 Bericht über die französische antarktische Expedition unter Charcot. *Z. Ges. E.* Berlin, 1911, 104.
23–61.18 **Abzonne, C.** Impressions antarctiques. *Le Tour du Monde.* Paris, 18 (1912), 1–36. Carte et illustr.
23–61.18a **Rouch, J.** L'Antarctide américaine. *Rev. Sc.*, LII, 1914. (Concerning Charcot expedition.)
23–61.19 **Charcot, Juan** *El "pourquoi-pas?" en el Antártico.* Diario de la expedición al polo sud en 1908–1910. Traducido del Francés por José Eskoda. Calpe, Madrid, 1921, 478 pp., illus., maps.
23–61.20 **Rouch, J.** *L'Antarctide. Voyage du "Pourquoi Pas?", 1908–10.* Paris, S. d'Ed. G., Maritimes et Coloniales, 1926. 172 pp.
23–61.21 **Rouch, J.** Avec Charcot dans l'Antarctique. *Revue des Deux Mondes*, 100e année. Paris. 1930. 180–200.
23–61.22 **Douguet, Max** L'expedition antarctique du Commandant Charcot. *La Revue Maratime*, nos. 41, 42, Sept.-Oct. 1949, 1123–1142, and 1313–1320. (Includes a revue of the hydrographic, oceanographic, radio-electrical, and meteorological results.)

Section 23–62. Amundsen, 1910–12

Date: 1910–12.
Leader: Roald Amundsen.
Nationality: Norwegian.
Ship: *Fram.*
Summary: "Discovered" south pole and Queen Maud Mountains. Wintered at Bay of Whales. Lt. K. Prestrud explored portions of Ross Shelf Ice and Edward VII Coast. Oceanographical observations were made in the South Atlantic during the winter of 1911.

23–62.1 **Baschin, O.** Norwegische Südpolar-Expedition. *Z. Ges. E.* Berlin, 1911, 338.
23–62.2 Dr. Nansen explains Amundsen's advent in the Antarctic. *B. American G. S.* New York, XLIII (June 1911), 6, 451.
23–62.3 **Amundsen, R.** Die Eroberung des Südpols. Uebersetzt von Pauline Klaiber. München, J. F. Lehmann, 1912, 2 Bde, XVI+400 pp., 20 Taf., 1 Karte; 480 pp., 24 Taf., 2 Karten.
23–62.4 **Amundsen, Roald Engelbregt Gravning.** *Capt. Amundsen's own narrative of his attainment of the south pole, Dec. 14–17, 1911.* New York, New York Times Co., 1912.
23–62.5 **Amundsen, G.** Meine Reise zum Südpol. *Z. Ges. E.* Berlin (1912), 481–498.

23-62.6 **Amundsen, R.** The South Pole. An account of the Norwegian Antarctic expedition in the "Fram." Translated from the Norwegian by A. G. Chater. London, John Murray, 1912, 2 vols., maps and ill.

23-62.7 **Amundsen, R.** Sydpolen. Den norske Sydpolsferd med "Fram" 1910-1912. Christiania, Dybwad, 1912, 959 pp. 6 Karten and Ill.

23-62.8 **Baschin, O.** Die Erreichung des Südpols durch Amundsen. *Z. Ges. E.* (1912), 3, 161-166.

23-62.9 **Brown, R. N. Rudmose** Amundsen's Antarctic Explorations. *Scott. G. Mag.* Edinburgh, XXVIII (1912), 204-208.

23-62.10 **Brown, R. N. Rudmose** A Review of Amundsen's South Pole. *Scott. G. Mag.* Edinburgh, XXIX (Jan. 1913), 17-22.

23-62.11 **Hobbs, W. H.** Amundsen's South Polar book. *B. American G. S.* New York, 44 (1912), 903-908.

23-62.12 **Olufsen, O.** Roald Amundsens Ekspedition til Sydpolen. *G. Ts.* Kjøbenhavn, XXI (1912), 6, 217-219.

23-62.13 **Rabot, C.** La conquête du Pôle Sud. L'expédition Amundsen. *Le Mouvement G.* Bruxelles, 12 (1912), 211-218.

23-62.14 **Singer, H.** Amundsen am Südpol. *D. G. Bl.* Bremen, XXXV (1912), 1-2, 20-29.

23-62.15 **Wichmann, H.** Der Südpol erreicht! *Petermanns M.* Gotha (1912), 222.

23-62.16 Amundsen's attainment of the south pole. *National G. M.*, v. 23, Feb. 1912. 205-208.

23-62.17 Amundsen's expedition to the South Pole. *B. American G. S.* New York, 44 (1912), 822-838.

23-62.18 Amundsen's Observations at the South Pole. *G. J.* London, XL (Nov. 1912), 567.

23-62.19 Captain Roald Amundsen (on his attainment of the Pole). *G. J.* London, XXXIX (April 1912), 376.

23-62.20 The "Daily Chronicle" and the South Pole. A record of a great event. London (1912), 48 pp. Map, portr. and ill.

23-62.21 L'expédition Amundsen au Pôle Sud. *Le Mouvement G.* Bruxelles, 1912, 10, 173-178; 14, 192-194.

23-62.22 Roald Amundsen au Pôle Sud. *La G.* Paris XXV (1912), 1, 304-306.

23-62.23 **Amundsen, R.** Au Pôle Sud. *La G.* Paris. XXVII (1913), 2, 81-92. Ill. — Réception du capitaine Roald Amundsen. *Ibidem*, 142-149.

23-62.24 **Amundsen, R.** The Norwegian South Polar Expedition. *G. J.* London, XLII (1913), 1, 1. With map.

23-62.25 **Amundsen, R.** The Norwegian South Polar Expedition. *Scott. G. Mag.* Edinburgh. XXIX (Jan. 1913), 1-19. Map & ill.

23-62.25a **Heidenstam, G. G. de** La conquête du pôle sud. *Rev. de Paris*, I, 1913.

23-62.26 **Mill, H. R.** Amundsen's South Pole. A Review. *G. J.* London, XLII (1913), 2, 148.

23-62.27 **Penck, A.** Eroberung des Südpols. *Z. Ges. E.* Berlin (1913), 3, 218-226.

23-62.27a **Rabot, C.** *Au pôle sud. Expédition du "Fram" 1910-13.* Adapté du norvégien. Paris, 1913.

23-62.27b **Rouch, J.** La découverte du pôle sud. *Rev. Sc.*, LI, 1913.

23-62.28 **Amundsen, Roald Engelbregt Gravning** *Roald Amundsen's opdagelsesreiser.* Oslo, Gyldendal Norak Forlag, 1929.

23-62.29 **Diakonov, M. A.** Twentieth anniversary of Amundsen's discovery of the south pole. *Morskoi Sbornik*, no. 1, 1932. 107-113. (In Russian.)

23-62.30 Hansen, Helmer Minner fra Sydpolsturen. *Polar-Årboken*, 1941. 13-19, illus. (Memories of the Norwegian Antarctic Expedition, 1910-12, by a member of the polar party.)

Section 23-63. Scott, 1910-13

Date: 1910-13.
Leader: Robert F. Scott.
Nationality: British.
Ship: *Terra Nova.*
Summary: Wintered on Ross Island. Five men, including Scott, reached the south pole one month after Amundsen, but all perished on the return trip. Geological party explored the McMurdo Sound region. Northern party explored Robertson Bay area and the Terra Nova Bay area, where they were marooned for the duration of the winter. Discovered Oates Coast.

23-63.1 **Balch, E. S.** The British Antarctic Expedition. *B. American G. S.* New York, XVI (April 1909), 4, 212-214.

23-63.2 A new British Antarctic Expedition (Captain Scott). *G. J.* London, XXXIV (1909), 361-363. Map.

23-63.3 British Antarctic Expedition. *G. J.* London, XXXIV (1909), 121-123. Map.

23-63.4 The British Antarctic Expedition (Captain Scott). *Scott. G. Mag.* Edinburgh, XXV (1909), 10, 548.

23-63.5 Captain Scott's Antarctic Expedition. *G. J.* London, XXXIV (1909), 5, 575.

23-63.6 Scott, R. F. Plans of the British Antarctic Expedition 1910. *G. J.* London, XXXVI (1910), 11-20. Map.

23-63.7 Captain Scott's Antarctic Expedition. *G. J.* London, XXXV (1910), 83, 201.

23-63.8 Die neue englische Südpolar-Expedition unter Scott. *Globus.* Braunschweig, XCVII (1910), 3, 51.

23-63.9 **Baschin, O.** Die englische Südpolar-Expedition. *Z. Ges. E.* Berlin (1911), 337.

23-63.10 **Markham, C. R.** Captain Scott's Antarctic Expedition. *G. J.* London, XXXVII (June 1911), 6, 607-609.

23-63.11 Captain Scott's Expedition. *G. J.* London, XXXVII (May 1911), 5, 568-569.

23-63.12 **Balch, E. S.** Scott's second Antarctic expedition. *B. American G. S.* New York, 44 (1912), 270-277.

23-63.13 **Mill, H. R.** The Antarctic Expedition of 1911-1912 (Capt. Scott). *G. J.* London, XXXIX (May 1912), 5, 453-458.

23-63.14 **Rabot, C.** L'expédition Scott au Pôle Sud. *La G.* Paris, XXV (1912), 1, 281-288.

23-63.15 Antarctic explorations. *Science.* New York, XXXV (1912), 447.

23-63.16 The British Antarctic Expedition. *G. J.* London, XXXIX (June 1912), 6, 580-582.

23-63.17 The British Antarctic Expedition. *Scott. G. Mag.* Edinburgh, XXVIII (1912), 260-265.

23-63.18 L'expédition du capitaine Scott vers le Pôle Sud. *Le Mouvement G.* Bruxelles, 1914, 12, 229-233.

23-63.19 **Evans, E. R. G. R.** The British Antarctic Expedition 1910-1913. Reception at the Albert Hall. *G. J.* London, XLII (1913), 2, 8.

23-63.19a **Heidenstam, G. G. De** Le capitaine Scott et l'Antarctique. *Rev. de Paris*, I, 1913.

23-63.20 **Huxley, Leonard** (ed.) *Scott's last expedition.* 2 vols. London; New York, Dodd, Mead, & Co. 1913 and sqq.

23-63.21 **Rabot, C.** Le désastre de l'expédition Scott. *La G.* Paris, XXVII (1913), 2, 92-99. Ill.

23-63.22 **Shackleton, E. H.** *Scott's last expedition, 1913.* (Incomplete reference.)

23-63.23 **Wichmann, H.** Der Stand der Südpolarforschung. II. Die englische Südpolarexpedition unter Kapt. Rob. F. Scott 1910-1913. Mit Bildnis. *Petermann's M.* Gotha, 59 (1913), 2, 58-60.

23-63.24 The Antarctic disaster. Captain Scott's Antarctic expedition. Second year's results. *G. J.* London, XLII (1913), 3, 201-222.

23-63.25 The antarctic expedition (Scott). *G. J.* London, XLII (1913), 4, 354; 5, 585.

23-63.25a **Rabot, C.** *Le pôle meurtrier. Journal du capitaine Scott. Ouvrage adapté de l'anglais.* Paris, 1914.

23-63.26 **Priestley, Raymond Edward** *Antarctic adventures: Scott's northern party.* London, 1914; New York, E. P Dutton and Co., 1915. Maps.

23-63.27 *British Antarctic (Terra Nova) Expedition 1910-13. Natural History Reports.* London. British Museum (Natural History), printed by order of the Trustees. 1914 and sqq. (A series of volumes, filed in subject sections concerned.)

23-63.28 **Gran, Tryggve** *Hvor sydlyset flammer; leir- og ekspeditionsliv på Antarktis; dagboksoptegnelser fra Scott's ekspedition og København.* Gyldendal, Norak Forlag, 1915.

23-63.29 **Taylor, T. Griffith** *With Scott; the silver lining.* London. Smith, Elder; New York. Dodd, Mead, and Co. 1916.

23-63.30 **Ponting, H. G.** *Great white south; being an account of experiences with Capt. Scott's south pole expedition and of the natural life of the Antarctic.* London. Duckworth. 1921; New York. R. M. McBride and Co. 1922.

23-63.31 **Evans, E. R. G. R.** *South with Scott.* London. W. Collins Sons, and Co., Ltd. 1922.

23-63.32 **Scott, R. F.** *Letzte Fahrt.* 8. Aufl., 2 Bde. Leipzig, 1922. 800 pp., 225 illus., 5 maps.

23-63.32a Wright, C. S., and Priestley, R. E. *British Antarctic (Terra Nova) Expedition 1910–13.* London. 1922. 487 pp.

23-63.33 Cherry-Garrard, A. *Worst journey in the world.* London. Constable and Co., Ltd. 1922; New York. L. MacVeagh, The Dial Press. 1930.

23-63.33a Scott, R. F. *Scott's last expedition.* Modern English Series. London. 1923. 188 pp. (Extracts from his journals.)

23-63.34 Gran, Tryggve *En helt. Kaptein Scott's siste færd.* Kristiania, etc., Gyldendal, 1924.

23-63.35 Lyons, Henry George (comp.) Miscellaneous data. *Brit. Antarct. (Terra Nova) Exp. 1910–13,* London, 1924, 78 pp., 5 illus., 1 pl. (Contains: 1. Report concerning the works published and being prepared for publication; 2. Description of the "Terra Nova" with plans; 3. Equipment and provisions; 4. Dogs, ponies, and mules as draft animals for sleds; 5. Time observations on Cape Evans by A. T. Doodson.)

23-63.36 British Antarctic expedition under Captain Robert F. Scott. *National G. M.,* v. 45, March 1924, 255–270.

23-63.37 Priestley, R. E. The Scott tragedy. *Geogr. J.,* London, Oct. 1926.

23-63.37a Gran, T. *Wo das Südlicht flammt. Scotts letzte Südpol-Expedition und was ich dabei erlebte.* Berlin, 1930. 220 pp., illus. (From the Norwegian.)

23-63.38 Avery, H. *No surrender! The story of Captain Scott's journey to the South Pole.* London. 1933. viii and 268 pp.

23-63.39 Bernacchi, Louis Charles *A very gallant gentleman; the story of Captain L. E. G. Oates while with Scott on the fatal journey to the south pole.* The Keystone Library. London, T. Butterworth, 1933. 240 pp.

23-63.40 Lindsay, Martin *The epic of Captain Scott.* New York. G. P. Putnam's Sons. 1934.

23-63.41 Marshall, Howard Percival *With Scott to the pole.* London. Country Life, Ltd. 1936, 1941. 50 pp., 88 photos. Map.

23-63.42 Scott, Robert *Diary of Captain R. Scott.* Polar Library Series. Leningrad. Arctic I. n. d. (In Russian.)

23-63.43 Maynard, Sara Katherine Casey *Scott and his men.* (Terra Nova Expedition.) Paterson, N. J. St. Anthony Guild Press. 1945. 158 pp.

Section 23-64. Shirase, 1911-12

Date: 1911–12.
Leader: Choku Shirase.
Nationality: Japanese.
Ship: *Kainan Maru.*
Summary: Discovered Okuma Bay. Landed at Bay of Whales and Kainan Bay; named the latter. Sledge journey of 160 miles made from Bay of Whales southwest across Ross Shelf Ice. A second sledge journey made from 78° 50′ S., 155° 55′ W., to Alexandria Mountains, King Edward VII Peninsula.

23-64.1 Michaelson Die Japanische Südpol-Expedition unter Shirase. *Z. Ges. E.* Berlin (1911), 480.

23-64.2 Japanese Antarctic Expedition. *Scott. G. Mag.* Edinburgh, XXVII (1911), 3, 151; 6, 314.

23-64.3 Japanese Antarctic Expedition. *B. American G. S.,* XLIII, 1911, pp. 291 and 529; XLIV, 1912, p. 690.

23-64.4 Japanese Antarctic Expedition. *G. J.* London, XXXVII (April 1911), 4, 453, XL (August 1912), 221.

23-64.5 Shirase, Choku The first Japanese polar expedition. *The Independent,* v. 73, Oct. 3, 1912. 769–773.

23-64.6 Die japanische Südpolarexpedition. *Petermann's M.* Gotha, 58 (1912 Juli), 34.

23-64.7 Japanische Südpolar-Expedition. *Z. Ges. E.* Berlin (1912), 6, 470–471.

23-64.8 *A travers le monde.* Paris, 1912. (The Japanese Antarctic Expedition.)

23-64.9 Shirase, Choku *Nankyoku-ki.* Ed. by Nankyoku-tanken Kosnkai. Tokyo, 1913. 367 pp. (South Pole report. Ed. by Ass. of Supporters of South Polar Exploration.)

23-64.10 Hamre, Ivar The Japanese South Polar Expedition of 1911–12; a little-known episode in Antarctic exploration. *Geogr. J.,* v. 82, no. 5. London. Nov. 1933. 411–423. Reprinted in *Polar Times,* no. 3. June 1936. 1–5.

Section 23-65. Filchner, 1911-13

Date: 1911–12.
Leader: Wilhelm Filchner.
Nationality: German.
Ship: *Deutschland.*
Summary: Discovered Luitpold Coast and the Filchner Shelf Ice. Surveys made in South Georgia and the South Sandwich Islands. Oceanographical observations and scientific collections made. Ship beset in Weddell Sea pack-ice for nine months, during which it drifted 600 miles. Proved non-existence of New South Greenland where reported in 1823.

23-65.1 Brennecke, W. Eine neue deutsche Antarktische Expedition. *A. der Hydrogr.* Hamburg, XXXVIII (1910), 150–153, Karte.

23-65.2 Brennecke, W. Weitere Mitteilungen über die geplante deutsche Antarktische Expedition (W. Filchner). *A. der Hydrogr.* Hamburg, XXXVIII (1910), 610–612.

23-65.3 Filchner, W. Die deutsche Antarktische Expedition. *Z. Ges. E.* Berlin, 1910, 423–430.

23-65.4 Lerner, T. Die deutsche Antarktische Luftschiff-expedition. *Globus.* Braunschweig, XCVII (1910), 251–253.

23-65.5 Filchner-Nordenskjöld-Penck Plan einer deutschen Antarktischen Expedition. *Z. Ges. E.* Berlin, 1910, 153–158. Karte.

23-65.6 A German Antarctic Expedition (Filchner). *G. J.* London, XXXV (1910), 455, 600; XXXVI (1910), 225.

23-65.7 Filchner's Südpolarexpedition. *Globus.* Braunschweig, XCVII (1910), 229–231. Karte.

23-65.8 Singer, H. Das Forschungsgebiet der deutschen Antarktischen Expedition. *D. G. Bl.* Bremen, 34 (1911), 3–4, 73–77.

23-65.9 Abreise des Expeditionsschiffes "Deutschland" der deutschen Antarktischen Expedition. *Z. Ges. E.* Berlin (1911), 839.

23-65.10 The Antarctic Agreement (Filchner's Expedition). *B. American G. S.* New York, XLIII (Jan. 1911), 1, 57–58.

23-65.11 Denkschrift über die deutsche Antarktische Expedition. Allgemeiner Plan. Einzelheiten des wissenschaftlichen Programms. Teilnehmer. Ausrüstung. Kostenveranschlag. Berlin, 1911, E. S. Mittler & Sohn. 11 pp.

23-65.12 Deutsche Antarktische Expedition. *Z. Ges. E.* (1911), 128, 144, 268, 339, 480, 497, 582.

23-65.13 Baschin, Otto Deutschlands Anteil an der Südpolarforschung. Sonder-abdruck aus der *Marine-Rundschau.* Berlin. April 1912.

23-65.14 Wichmann, H. Oberleutnant Dr. W. Filchners deutsche Südpolarexpedition. *Petermann's M.* Gotha (1912 März), 168.

23-65.15 Deutsche Antarktische Expedition. Vorläufige Berichte. *Z. Ges. E.* Berlin (1912), 81–107.

23-65.16 Praybylok, E. Deutsche Antarktische Expedition. Bericht über die Tätigkeit nach Verlassen von Südgeorgien. *Z. Ges. E.* Berlin (1913), 1, 1–17.

23-65.17 Découvertes de l'expédition antarctique allemande dans la mer de Weddell. *La G.* Paris, XXVII (1913), 2, 139–140.

23-65.18 The German Antarctic Expedition. *G. J.* London, XLII (1913), 4, 356.

23-65.19 Filchner, Wilhelm *Zum sechsten Erdteil: die zweite deutsche Südpolar-Expedition.* Berlin. Ullstein. 1922. 419 pp. Maps.

Section 23-66. Mawson, 1911-14

Date: 1911–14.
Leader: Douglas Mawson.
Nationality: Australasian.
Ship: *Aurora.*
Summary: Discovered Davis Bay, Shackleton Shelf Ice, and Queen Mary Coast. Established bases on Macquarie Island, George V Coast (Commonwealth Bay), and the Shackleton Shelf Ice. Five major sledge journeys were made in exploring George V Coast. Other major journeys included one across the Shackleton Shelf Ice and another along Queen Mary Coast to Mt. Gauss. Extensive scientific observation and collections made.

23-66.1 Behrmann Australische Antarktische Expedition. *Z. Ges. E.* Berlin (1911), 130.

23-66.2 Mawson, D. Australasian Antarctic expedition. *G. J.* London, XXXVII (June 1911), 6, 609–621.

23-66.8 Australasian Antarctic Expedition. *G. J.* London, XXXVIII (Sept. 1911), 3, 320–321.
23-66.4 *L'expédition australienne au continent antarctique. Le Mouvement G.* Bruxelles, 29 (1911), 360–362.
23-66.5 **Bruce, W. S.** The Australian Antarctic Expedition, 1911. *Scott. G. Mag.* Edinburgh, XXVIII (1912), 6, 314–319; 11, 594.
23-66.6 **Mawson, Douglas** Lecture on the proposed Australasian Antarctic Expedition, 1911. Reprinted from *Australasian Ass. for the Advancement of Sc.*, XIII. Sydney, 1912. 398–400.
23-66.7 Sp. Die australische antarktische Expedition. *Z. Ges. E.* Berlin, 6 (1912), 468–470. Karte.
23-66.8 **Wichmann, H.** Die australische antarktische Expedition. *Petermann's M.* Gotha (Juni 1912), 324; (Juli 1912), 34.
23-66.9 The Australasian Antarctic Expedition. *G. J.* London, XXXIX (1912). 482–486.
23-66.10 Dr. Mawson's Antarctic Expedition. *G. J.* London, XL (Oct.–Nov. 1912), 447, 507–508, map.
23-66.11 Dr. Mawson's Expedition and "Termination Land". (Letter by v. Drygalski). *G. J.* London, XL (July 1912), 91.
23-66.12 **Edgeworth, D. T. W.** Discovery by the Australasian Antarctic Expedition of important submarine banks. *G. J.* London, XLII (1913), 5, 461.
23-66.13 The Australian Antarctic expedition: Loss of two lives. *G. J.* London, XLII (1913), 3, 228.
23-66.14 The Australian Antarctic Expedition. *G. J.* London, XLII (1913), 4, 355.
23-66.15 The Australian Antarctic Expedition. Report by Capt. Davis, *J. K. G. J.* London, XLII (1913), 6, 550.
23-66.15a **Mawson, D.** Australasian Antarctic Expedition 1911–14. *Geog. J.*, XLIV, 1914, 257–286, illus., maps.
23-66.15b Report on the Australasian Antarctic Committee. *Report of the Fourteenth Meeting of the Australasian Assoc. for Advancement of Sc.*, held in Melbourne, 1913. Melbourne, 1914. 1–5.
23-66.16 **Mawson, D.** *Home of the blizzard.* London, 1915.
23-66.17 *Australasian Antarctic Expedition, 1911–14, under the leadership of Sir Douglas Mawson. Scientific reports.* Adelaide, Govt. Printer; Sydney. 1916. Maps. (A series.)
23-66.18 **Davis, J. K.** *With the Aurora in the Antarctic, 1911–14.* London, A. Melrose, Ltd., 1919.
23-66.19 **Mawson, Douglas** Australasian Antarctic Expedition: report on the progress of the publication of the scientific results. Reprinted from *Report of the Fifteenth Meeting of the Australasian Ass. for the Advancement of Sc.*, held in Melbourne, Jan. 10, 1921. 280–291.
23-66.19a **Mawson, Douglas** *Leben und Tod am Südpol.* Leipzig, F. A. Brockhaus, 1921, 1925. Bd. I, 292 pp.; Bd. II, 283 pp., 2 maps.
23-66.20 **Mawson, Douglas** *Scientific reports of the Australasian Antarctic Expedition, 1911–1914.* Sydney, Govt. Printer, 1942.
23-66.21 Mawson, Douglas Geographical narrative and cartography. *Australasian Antarctic Exp. 1911–14. Scientific Reports.* Series A., v. 1. Sydney, Govt. Printer, 1942.
23-66.22 **Lascron, Charles Francis** *South with Mawson. Reminiscences of the Australasian Antarctic Expedition 1911–14.* Sydney, Australasian Publ. Co.; London. 1947. 223 pp., 17 photos, map.

Section 23-67. Sörle, 1912–13

Date: 1912–13.
Leader: Peter Sörle.
Nationality: Norwegian.
Ship: *Palmer.*
Summary: Surveyed portions of the South Orkney Islands.

Section 23-68. Du Baty, 1913–14

Date: 1913–14.
Leader: R. Rallier du Baty.
Nationality: French.
Ship: *Curieuse.*
Summary: Made hydrographic survey of Îles de Kerguelen.
23-68.1 **du Baty, R. Rallier** Le Voyage de la "Curieuse" 1912–14. *La Geog.*, XXXVII, 1922, 1–26, 6 illus., 3 maps.
23-68.2 Lecarpentier, J. Les travaux carthographiques de l'expédition de la "Curieuse" 1912–14. *La Geog.*, XXXVII, 1922, 27–38.

Section 23-69. Shackleton, 1914–16

Date: 1914–16.
Leader: Ernest Shackleton.
Nationality: British.
Ships: *Endurance, Aurora, Southern Sky, Instituto de Pesca, Emma,* and *Yelcho.*
Summary: The British Imperial Trans-Antarctic Expedition intended to cross the Antarctic Continent from the Weddell Sea to the Ross Shelf Ice. The *Aurora* delivered the Ross Island party and then was beset for 10 months, after which it provisioned the Australasian party on Macquarie Island and returned to relieve the Ross Island party in 1916. Meanwhile, Shackleton, on the *Endurance,* became beset off Caird Coast, which he had just discovered. The ship was crushed in the pack-ice, the crew escaping to Elephant Island by sledge and whale boats. After many difficulties, Shackleton reached South Georgia by whale boat and organized four successive relief expeditions, the last of which rescued the entire party on Elephant Island.
23-69.1 **Shackleton, Ernest** Personal diary. 1915–16.
23-69.1a **Mill, H. R.** The position of Sir Ernest Shackleton's expedition. *Geog. J.*, XLVII, 1916, 369–376.
23-69.1b **Rabot, C.** Le drame de l'expédition Shackleton dans la mer de Weddell. *Nature,* No. 2283, 1916.
23-69.1c **Mill, H. R.** The relief of Shackleton's Ross-Sea Party. *Geog. J.*, XLIX, 3, 1917.
23-69.2 **Davis, J. K.** *"Aurora" Relief Expedition 1916/17.* Melbourne, 1918. (Report of ship's captain.) See also *Geog. J.*, LI, 1918, 85–88.
23-69.3 **Wordie, J. M.** The drift of the "Endurance". *Geog. J.*, LI, April 1918. 216–237, 1 map.
23-69.4 **Shackleton, Ernest** *South: the story of Shackleton's last expedition, 1914–1917.* London, 1919. Revised 1922. 380 pp., maps, illus.
23-69.5 **Brennecke, W.** Shackleton's south polar expedition 1914–17. *A. of Hydrography,* 1920. 401–465.
23-69.5a **Wittenburg, P.** The "Quest" expedition. *Priroda,* No. 8/9. Leningrad, 1922. (In Russian.)
23-69.6 **Wordie, J. M.** Ross Sea drift of the *Aurora* in 1915–17. *Geogr. J.*, v. 58, no. 3. London, Sept. 1921. 219–224.
23-69.7 **James, R. W.** Antarctic pack-ice and the fate of the *Endurance. Discovery,* v. 4, no. 46. London, John Murray, 1923.
23-69.7a **Wild, F.** The voyage of the "Quest". *Geog. J.*, LXI, 1923, 73–108, illus., maps.
23-69.8 **Joyce, E. E. M.** *South polar trail; the log of the Imperial Trans-Antarctic Expedition.* London, Duckworth, 1929.
23-69.9 **Worsley, F. A.** *Endurance; an epic of polar adventure.* London; New York, J. Cape and H. Smith. 1931. xii and 310 pp. Map.
23-69.10 **Owen, R.** Antarctic odyssey, 1916: Shackleton rescues men on Elephant Island. *Reader's Digest,* v. 39. July 1941. 107–111. (Shackleton's second expedition, 1914–17.)
23-69.11 **Hurley, Frank** *Shackleton's Argonauts; a saga of the Antarctic ice packs.* London; Sydney. 1948. 140 pp., 54 photos.
23-69.12 **Huxley, L. D. A.** *South with Shackleton.* London, S. Low, 1949, 183 pp. (Foreword by Lord Mountevans. Illus. by Victor J. Bertoglio.)

Section 23-70. Shackleton, 1920–22

Date: 1920–22.
Leader: Ernest Shackleton.
Nationality: British.
Ship: *Quest.*
Summary: Shackleton died at South Georgia, en route to Antarctica. Frank Wild, Antarctic veteran, assumed command. Attempts to discover new land were unsuccessful, but an oceanographical cruise was made between the South Sandwich and Elephant Islands in the Weddell Sea. Scientific observations and collections made.
23-70.1 **Wilkins, G. H.** Account of the voyage of the *Quest. B. Br. Ors. Club,* XLIII, 1922. 2–5.
23-70.2 **Marr, J. W. S.** *Into the frozen south.* London, Cassell and Co., Ltd.; New York, Funk and Wagnalls Co. 1923. 255 pp. (Scout Marr of the *Quest* expedition.)
23-70.3 **Wild, F.** *Shackleton's last voyage; the story of the Quest.* New York; London, Cassell and Co., Ltd. 1923. Maps. (From the official journal and private diary of Dr. A. H. Macklin.)

Section 23-71. Cope, 1920-22

Date: 1920-22.
Leader: J. L. Cope.
Nationality: British.
Ship: (Passage furnished by whalers.)
Summary: Party of four men arrived in the South Shetland Islands. Two returned. The two remaining, Bagshawe and Lester, secured transportation to the Danco Coast, where they wintered. Scientific observations and collections made.
23-71.1 Article concerning the Cope expedition (1921-22). *Nature*, 1919, p. 720; 1920, p. 813.
23-71.2 Article concerning the Cope expedition (1921-22). *Geog. J.*, LVII, 1921, p. 151.
23-71.3 Article concerning the Cope expedition (1921-22). *Petermanns Geog. M.*, 1921, p. 99.
23-71.4 Bagshawe, Thomas Wyatt *Two men in the Antarctic; an expedition of Graham Land, 1920-22.* Foreword by Frank Debenham. New York, Macmillan, 1939. 202 pp.

Section 23-72. Peau, 1922-23

Date: 1922-23.
Leader: Etienne Peau.
Nationality: French.
Ship: *Ourel.*
Summary: Biological observations made at Îles de Kerguelen and vicinity.

Section 23-73. Larsen, 1923-24

Date: 1923-24.
Leader: C. A. Larsen.
Nationality: Norwegian.
Ships: *Sir James Clark Ross* and five catchers.
Summary: First whaling in the Ross Sea. Discovery Inlet served as base. Whale catcher *Star* investigated coast from Edward VII coast to Robertson Bay for useful whaling base sites.
23-73.1 Kohl, L. *Zur grossen Eismauer des Südpols.* Stuttgart, 1926. 203 pp., 87 illus., 1 map.

Section 23-74. Beckmann and Mathisen, 1923-24

Date: 1923-24.
Leaders: Soren Beckmann and Gustav Mathisen.
Nationality: British.
Ships: *Scotia* and *Roald Amundsen.*
Summary: Explored southward along the Falliéres Coast for safe harbors for whaling factories. Both thought to have observed a transverse strait connecting with the Weddell.

Section 23-75. Mackintosh and Chaplin, 1923-31

Date: 1925-31.
Leaders: N. A. Mackintosh and J. H. Chaplin.
Nationality: British.
Ship:
Summary: The Discovery Committee's marine biological laboratory operated at Grytviken, South Georgia, during each whaling season until 1931. Hydrographic surveys were also based at this laboratory.

Section 23-76. Kemp, 1925-27

Date: 1925-27.
Leader: Stanley Kemp.
Nationality: British.
Ship: *Discovery.*
Summary: Oceanographical, biological, and hydrographical survey made of the whaling grounds near South Georgia. Scientific observations made from Capetown to Falkland Islands. Other observation stations included the South Shetland Islands, the South Orkney Islands, and the Palmer Archipelago.
23-76.1 Gunther, Eustace Rolfe *Notes and sketches made during two years on the Discovery expedition, 1925-27.* Oxford, The Holywell Press, 1928. (Log of an O. D. aboard the *R. R. S. Discovery.*)

Section 23-77. Mers and Spiess, 1925-26

Date: 1925-26.
Leaders: Alfred Mers and F. A. Spiess.
Nationality: German.
Ship: *Meteor.*
Summary: The German Atlantic Expedition made an oceanographical survey of the South Atlantic, including hydrographic observations at Bouvetøya, South Georgia, and the South Sandwich Islands.
23-77.1 Defant, A. Die Ergebnisse der Deutschen Atlantischen Expedition auf dem Forschungsschiff "Meteor". *Naturwiss.*, 1928, 863-877, illus.
23-77.2 Spiess, F. *Die "Meteor"-Fahrt. Forschungen und Ergebnisse der Deutschen Atlantischen Expedition 1925-27.* Berlin, 1929. 300 pp., 450 illus., 4 maps.
23-77.3 *Wissenschaftliche Ergebnisse. Deutsche Atlantische Expedition auf dem Forschungs und Vermessungsschiff "Meteor" 1925-27.* Ausgeführt unter Leitung von A. Mers und S. F. Spiess. 16 Bände. Hrsg. v. A. Defant. Berlin, 1932 and sqq.

Section 23-78. Mercer, 1926-27

Date: 1926-27.
Leader: G. M. Mercer.
Nationality: British.
Ship: *R. R. S. William Scoresby.*
Summary: The ship's first commission. Whale marking and oceanographical observations made off South Georgia, in conjunction with the *Discovery.*

Section 23-79. Tofte and Andersaen, 1926-27

Date: 1926-27.
Leaders: Eyvind Tufte and A. S. Andersaen.
Nationality: Norwegian.
Ship: *Odd I.*
Summary: Whaling reconnaissance from South Georgia to Deception Island. En route, sighted largest iceberg on record, 100 miles long and 100 miles wide. Continued reconnaissance through the Palmer Archipelago. Circumnavigated Peter I Island, but were unable to land.
23-79.1 Holtedahl, O. Nogen bemerkninger om "Odd I" Ekspedisjonens naturvidenskapelige materiale. *Norsk. Geog. Ts.*, H. 8, 1927.
23-79.2 Tofte, E. "Odd I" 's tokt til Peter den I's ø. Beretning om den av Konsul Lars Christensen 1927 utsendte ekspedisjon. *Norsk Geog. Ts.*, 1927, 462-472.

Section 23-80. Dumaresq, 1926-27

Date: 1926-27.
Leader: C. P. Dumaresq.
Nationality: French.
Ship: *Hamlet.*
Summary: Made coastal surveys of Îles de Kerguelen.

Section 23-81. Olstad and Holtedahl, 1927-28

Date: 1927-28.
Leaders: Ole Olstad and Olaf Holtedahl.
Nationality: Norwegian.
Ship: (Passage furnished by whalers.)
Summary: These professors conducted independent research in biology and geology, respectively, in South Georgia, Clarence Island, Port Lockroy, and the South Shetland Islands.
23-81.1 Holtedahl, Olaf *Scientific results of the Norwegian Antarctic Expedition 1927-1928 et sqq. instituted and financed by Consul Lars Christensen.* 2 vols. Utgitt for Fridtjof Nansens Fond. Det Norske Videnskaps-Akademi i Oslo. I kommisjon hos J. Dybwad, 1935-47. Maps.

Section 23-82. Mosby and Horntvedt, 1927-28

Date: 1927-28.
Leaders: Haakon Mosby and Harald Horntvedt.
Nationality: Norwegian.
Ship: *Norvegia.*
Summary: First of the Lars Christensen expeditions. Surveyed and claimed Bouvetøya. Left depot there. Made sealing and oceanographical observations in the vicinity. Further observations made in the South Shetland Islands, the Palmer Archipelago, and South Georgia.
23-82.1 Aagaard, B. The "Norvegia" expedition and Bouvet Island. *Norges Handels og Sjøfartstidende*, Oslo, March/April 1929.

23-82.2 **Rabot, C.** L'Île Bouvet. Nouvelle expédition Norvégienne dans l'Antarctique. *La Nature*, No. 2784, 1928.

Section 23-83. John, 1927-30

Date: 1927-30.
Leader: D. Dilwyn John.
Nationality: British.
Ship: *R. R. S. William Scoresby.*
Summary: The ship's second commission. Oceanographical work done between Falkland Islands, South Georgia, and the South Shetlands. Acted as base ship for Sir Hubert Wilkins in 1929-30.

Section 23-84. Olstad and Larsen, 1928-29

Date: 1928-29.
Leaders: Ola Olstad and Nils Larsen.
Nationality: Norwegian.
Ship: *Norvegia.*
Summary: Lars Christensen's second scientific expedition. Attempt to place weather station on Bouvetøya failed, owing to lack of a proper site. Made first landing on Peter I Island. Surveyed coasts, established a cache, and claimed island for Norway.

Section 23-85. Kohl-Larsen, 1928-29

Date: 1928-29.
Leader: L. Kohl-Larsen.
Nationality: German.
Ship:
Summary: Surveyed parts of South Georgia, including some inland glaciers.

23-85.1 **Kohl-Larsen, Ludwig** *An den Toren der Antarktis.* Stuttgart, Strecker und Schroder, 1930. xii and 288 pp., 39 pl., 3 maps.

23-85.2 **Kohl-Larsen, L.** *Die* deutsche Südgeorgien Expedition 1928-29. *Z. Ges. f. Erdkunde.* Berlin, 1930. 321-350.

Section 23-86. De la Rue, 1928-29

Date: 1928-29.
Leader: E. Aubert de la Rue.
Nationality: French.
Ship: *Austral.*
Summary: Geological prospecting for minerals in Îles de Kerguelen. Also visited Heard Island in a whale catcher.

23-86.1 Heard Island. Voyage d'exploration à l'Île Heard. *B. Com. Afr. Fr.*, Rens. Col., 1930, 342.

23-86.2 Die Erforschung der Heard-Insel. *B. Com. Afr. Fr.*, Rens. Col., 1930, 342-355, illus., maps. *Petermanns Geog. M.*, 1930, 315*l*.

Section 23-87. Wilkins, 1928-29

Date: 1928-29.
Leader: Hubert Wilkins.
Nationality: British and United States.
Ship: *Hekloria.*
Summary: First airplane exploration in the Antarctic. Two reconnaissance flights near Deception Island on 20 November 1928. On 20 December, Eielson and Wilkins flew south from Deception Island to 71° 20' S., along the east coast of the Palmer Peninsula. On 10 January, a fourth flight over the northern sector of the third flight confirmed earlier observations. Wilkins thought Palmer Land to be an archipelago divided by ice-filled channels, which later proved to be glaciers.

23-87.1 **Mill, Hugh Robert** The significance of Sir Hubert Wilkins' Antarctic flights. *Geogr. Rev.*, v. 19. July 1929. 377-386. Map.

23-87.2 **Rabot, C.** L'expédition de Wilkins vers le pôle sud. *Illustration*, 1929.

23-87.3 **Wilkins, Hubert** The Wilkins-Hearst Antarctic Expedition, 1928-29. *Geogr. Rev.*, v. 19. July 1929. 353-376. Maps.

23-87.4 **Wordie, J. M.** Sir Hubert Wilkins' discoveries in Graham Land. *Geogr. J.*, v. 73. London, 1929. 254-257.

Section 23-88. Byrd, 1928-30

Date: 1928-30.
Leader: Richard E. Byrd.
Nationality: United States.
Ships: *City of New York* and *Eleanor Bolling.*
Summary: Established a large base at Little America, Bay of Whales, Ross Shelf Ice. Made several flights over Edward VII Peninsula, discovering Rockefeller Mountains. A plane was wrecked here, but the explorers were rescued. Geological sledge trip mapped 175 miles of Queen Maud Range, and acted as supporting party for polar flight by Balchen, Byrd, and McKinley on 29 November 1928. On 5 December, on a flight to the east, the Edsel Ford Ranges and Marie Byrd Land were sighted. McKinley took aerial photos on polar and other flights.

23-88.1 **Byrd, R. E.** Over the south pole by air. *Nat. Hist.*, XXX. N. Y., 1930. 526-536, illus.

23-88.2 **Byrd, R. E.** The conquest of Antarctica by air. *National G. M.*, v. 58, 1930. 127-238.

23-88.3 **Byrd, R. E.** *Little America, First Byrd expedition.* New York, G. P. Putnam's Sons, 1930. 416 pp.

23-88.4 **Joerg, W. L. G.** The work of the Byrd Antarctic Expedition 1928-30. *Geogr. Rev.*, 1930. p. 71. Maps.

23-88.5 **Tamms, F.** Die Byrdsche Südpolfahrt 1928-30. *Petermann's G. M.*, Jahrg 76. Gotha, 1930. 189-191.

23-88.6 Antarctica by sea, land, and air. *National G. M.*, v. 58. Aug. 1930. 158-207. (First Byrd expedition.)

23-88.6a **Byrd, R. E.** *Fliegen über dem Sechsten Erdteil. Meine Südpolexpedition 1928-30.* Leipzig, 1931. 280 pp., 75 illus., 2 maps.

23-88.7 **Orsset, V.** Le Pole Sud et l'expedition Byrd, 1928-29. *Rev. de la Sect. Tunisienne de la S. de G. Commerciale de Paris*, no. 14. 1931. 89-97.

23-88.8 **Gould, L. M.** *Cold. The record of an Antarctic sledge journey.* New York, Brewer, Warren, and Putnam, 1931.

23-88.9 **O'Brien, John S.** *By dog sled for Byrd; 1600 miles across Antarctic ice.* Chicago, Thomas S. Rockwell Co., 1931.

23-88.10 **Siple, Paul** *A Boy Scout with Byrd.* New York, Putnam's, 1931.

23-88.11 **Adams, Harry** *Beyond the barrier with Byrd; an authentic story of the Byrd Antarctic exploring expedition.* Chicago; New York, M. A. Donohue and Co., 1932.

23-88.12 **Byrd, Richard E. and Saunders, Harold E.** The flight to Marie Byrd Land with a description of the map. *Geogr. Rev.*, v. 23. April 1933. 177-209. Map.

23-88.13 **Owen, Russell** *South of the sun. An account of the first Byrd Antarctic expedition, 1928-30.* New York, The John Day Co., 1934.

23-88.14 **Saunders, Harold E.** The flight of Admiral Byrd to the south pole and the exploration of Marie Byrd Land. *P. of the American Philosophical S.*, v. 82, no. 5. June 1940. 801-829.

Section 23-89. Riiser-Larsen and Larsen, 1929-30

Date: 1929-30.
Leaders: Hjalmar Riiser-Larsen and Nils Larsen.
Nationality: Norwegian.
Ship: *Norvegia.*
Summary: Third scientific cruise of Lars Christensen's *Norvegia.* Erected two huts on Bouvetøya, and photographed entire island from the air. Discovered Prince Olav and Princess Martha Coasts in Queen Maud Land, and roughly charted them from the air. Discovered Seal Bay and Gunnerus Bank. Made oceanographical observations.

23-89.1 **Riiser-Larsen, Hjalmar** *Mot ukjent land; Norvegia-ekspedisjonen, 1929-30.* Oslo, Gyldendal, 1930.

23-89.2 **Riiser-Larsen, Hjalmar** The *Norvegia* Antarctic Expedition of 1929-1930. *Geogr. Rev.*, v. 20, Oct. 1930. 555-573. (Map. See item 20.203a.)

23-89.3 **Baschin, Otto** Die Südpolarforschung im Sommer 1929-30. *Die Naturwissenschaften*, 19 Jahrg, Heft 16. 17 April 1931. 383-391.

23-89.4 **Long, A. T.** The "Norvegia" Antarctic Expedition of 1929-30. *The Hydrographic Rev.*, VIII, 1. Monaco; Cannes, International Hydrographic Bureau, May 1931. 23-32.

Section 23-90. Wilkins and Shannon, 1928-30

Date: 1929-30.
Leaders: Hubert Wilkins and R. L. V. Shannon.
Nationality: United States and British.
Ships: *R. R. S. William Scoresby* and whaling ships.
Summary: Continuation of flights of previous year. Checaman and Wilkins made several flights over the Palmer Peninsula as far south as Leroux Bay and Richthofen Valley. Two flights made to Charcot Island; the first ended in fog, but the second made a successful circumnavigation in clear weather. Flight from ship to a reported 75° S., 101° W., sighted no land.

23-90.1 **Wilkins, H.** Further Antarctic explorations. *Geogr. Rev.*, XX. 1930. 857-868. Map.

Section 23-91. Kemp, 1929-31

Date: 1929-31.
Leader: Stanley Kemp.
Nationality: British.
Ship: *R. R. S. Discovery II.*
Summary: Discovery Committee ship's first commission. Made survey of South Sandwich and South Shetland Islands. Surveyed Bouvetøya, and confirmed non-existence of Thompson Island. Oceanographic observations and collections made in all these areas, and also in South Georgia, South Orkneys, Palmer Archipelago, and the Bellingshausen Sea.

23-91.1 **Kemp, Stanley** Work of the *Discovery II*, 1929-31. *Polar Record*, no. 3. Cambridge, Univ. Press, Jan. 1932. 24-26.

23-91.2 **Kemp, S., and Nelson, A. L.** The voyage of the *R. R. S. Discovery II*: surveys and soundings. *Geogr. J.*, v. 79. London, 1932. 168-185.

Section 23-92. Mawson, 1929-31

Date: 1929-31.
Leader: Douglas Mawson.
Nationality: British, Australian, and New Zealand.
Ship: *Discovery.*
Summary: The B. A. N. Z. R. E. (British, Australian, New Zealand Antarctic Research Expedition) roughly charted many points along the coastline of Antarctica, between 45° E. and 75° E., and made observations as far east as 155°. Much of the coastal exploration was done from the air. Land was sighted or visited at the following coastal locations: Cape Dennison, Adelie Coast, Cape Goodenough, Banzare Coast, Bowman Island, Leopold and Astrid Coast, Cape Darnley, MacKenzie Bay, Mac-Robertson Coast, Kemp Coast, and Cape Bruce. Discovered Banzare Rise, Hjort Ridge, and Mill Bank. Scientific investigations made at Possession, Kerguelen, Heard, Proclamation, and Macquarie Islands.

23-92.1 **Davis, J. K.** Future exploration: the African Quadrant of Antarctica. *Report of Sixteenth Meeting of Australasian Assoc. for the Advance. of Sc., Wellington 1923.* Wellington, 1924. 488-492. *Scott. Geog. M.*, XXXIX, 1923.

23-92.2 Australian expedition to the Antarctic. Statement by the Prime Minister, the Right Hon. S. M. Bruce. *Commonwealth of Australia Parliament 1929, Publ. No. 80.* Canberra, 1929.

23-92.3 **Mawson, Douglas** The Antarctic cruise of the *Discovery*, 1929-30. *Geogr. Rev.*, v. 20. Oct. 1930. 585-564. Map.

23-92.4 Mawson, Douglas Report on the British, Australian, and New Zealand Expedition. Canberra, 1930.

23-92.5 Mawson, Douglas The B. A. N. Z. Antarctic Research Expedition 1929-31. *Geogr. J.*, v. 80. London, Aug. 1932. 101-131. Map.

23-92.6 *British, Australian, New Zealand Antarctic Expedition, 1929-31, Scientific reports.* Series A. Adelaide, 1940 et seq.

Section 23-93. Aubert de la Rüe, 1930-31

Date: 1930-31.
Leader: E. Aubert de la Rüe.
Nationality: French.
Ship:
Summary: Continued geological prospecting for minerals.

Section 23-94. Norwegian Whalers, 1930-31

Date: 1930-31.
Leaders: (See below.)
Nationality: Norwegian.
Ships: (See below.)
Summary: Gunnar Isachsen, Hjalmer Riiser-Larsen, and Nils Larsen of the *Norvegia*; E. Halvorsen of the *Sevilla*; Gustav Bull of the *Thorshammer*; Arnold Brunvall of the *Sekstern*; Reidar Bjerke of the *Bosnet II*; Karl Sjöroid of the *Bosnet III*; Rolf Walter of the *Thorgeut*; Lars Christensen of the *Thorshavn*; Klarius Mikkelsen of the *Torlyn*; Captain Dahll of the *Hilda Knudsen*; and Otto Borchgrevink of the *Antarctic*. All vessels except the *Norvegia* were principally engaged in whaling, but some discoveries were made, and many previous discoveries confirmed or extended. Among the areas concerned were Princess Astrid, Princess Ragnhild, Lars Christensen, and Prince Olav Coasts. Portions of Kemp Coast and Enderby Land were surveyed. Vol. 19, p. 179, of the *Discovery Reports* for 1940 chronologically tabulates the activities of these whaler-explorers with those of Douglas Mawson during the same period. *The Geogr. J.* for Sept. 1939, includes a map of these discoveries.

23-94.1 **Holtedahl, O.** Antarctic research by the "Norvegia" expeditions and others. *Geog. J.*, LXXVIII, 1931, 401-418, illus.

23-94.2 **Isachsen, Gunnar** Norske undersøkelser ved sydpolslandet 1929-31—Norvegia-ekspedisjonen 1930-31; omseilingen av sydpollandet. *Norske Geogr. Tidsskrift*, bd. III, hefte 5-8. Oslo, Norske Geogr. Selskab, 1931. 345-366.

23-94.3 **Isachsen, Gunnar** Norwegian explorations in the Antarctic, 1930-31. *Geogr. Rev.*, v. 22, Jan. 1932. 83-96. Map.

23-94.4 **Joerg, W. L. G.** Relation of the work of Mawson and Norwegian Antarctic expeditions, 1930-32. *Geogr. Rev.*, Aug. 1932. 152-153.

23-94.5 **Lallemand, C.** Sur quelques découvertes géographiques récemment faites dans la region de l'Antarctique. *C.-R. Hebdomadaires des Seances de l'Ac. des Sc.*, t. 194, no. 22, 30 mai 1932. 1869-1871.

23-94.6 **Isachsen, Gunnar** *Norvegia rundt sydpollandet. Norvegia-Ekspedisjonen, 1930-31.* Oslo, Gyldendal Norsk Forlag, 1934. 252 pp. Maps.

Section 23-95. Gunther, 1930-33

Date: 1930-32.
Leader: E. R. Gunther.
Nationality: British.
Ship: *R. R. S. William Scoresby.*
Summary: The ship's third commission, consisting of whale marking and oceanographical observations near South Georgia. Also made a survey of the Peruvian coastal currents, and trawled Burdwood Bank.

23-95.1 **Gunther, E. R.** The work of the *William Scoresby*, 1930-32. *Polar Record*, no. 4. Cambridge, Univ. Press, July 1932. 77-81.

Section 23-96. John, 1931-33

Date: 1931-33.
Leader: D. Dilwyn John.
Nationality: British.
Ship: *R. R. S. Discovery II.*
Summary: The ship's second commission. Made the earliest known winter circumnavigation. Work included oceanographical observations with daily stations. Portions of the South Orkney Islands were surveyed, and collections made. Collections also made in South Georgia and the South Shetland Islands.

23-96.1 **Marr, J. W. S.** *Exploring the Antarctic in the Discovery II.* London, 1933.

23-96.2 **John, D. Dilwyn** The work of *R. R. S. Discovery II*, 1931-33. *Polar Record*, no. 6. Cambridge, Univ. Press, July 1933. 128-131.

23-96.3 **John, D. Dilwyn** The second Antarctic commission of the *R. R. S. Discovery II*. *Geogr. J.*, v. 83. London, 1934. 381-398.

Section 23-97. Riiser-Larsen, 1932-33

Date: 1932-33.
Leader: Hjalmer Riiser-Larsen.
Nationality: Norwegian.
Ships: *Thorshavn*, *Thorshammer*, and *Torlyn*.
Summary: Leader and sledging party of two, with dogs and equipment. A landing was finally effected by the *Torlyn* at 68°45' S., 38°50' E. When the ice broke up three days later, the party was rescued by the *Globe*.

Section 23-98. Christensen, 1933-34

Date: 1933-34.
Leader: Lars Christensen.
Nationality: Norwegian.
Ship: *Thorshavn.*
Summary: Nearly circumnavigated the Antarctic. Made flights over Lars Christensen, Mac-Robertson, and Leopold and Astrid Coasts. Discovered the real coastline of Leopold and Astrid Coast lying behind shelf ice. Discovered Sara Bank. Meteorological and hydrological observations performed daily.

23-98.1 **Rabot, Charles** Voyage d'une femme dans l'Antarctique. *L'Illustration*, 92e année, no. 4741. Paris, 18 janvier 1934. 52-53. (Mrs. Lars Christensen.)

Section 23-99. Ellsworth, 1933-34

Date: 1933-34.
Leader: Lincoln Ellsworth.
Nationality: United States.
Ship: Wyatt Earp.
Summary: Trans-Antarctic flight from Bay of Whales to the Palmer Peninsula abandoned when plane was damaged by break-up of ice.

23-99.1 **Pergameni, C.** L'expedition antarctique Ellsworth. *B. de la S. Royale Belge de G.*, 57e année, fasc. 3-4, 1933. 164-167.

23-99.2 The Ellsworth Antarctic expedition. *Natural History*, v. 35, no. 1. Jan. 1935. 77-80.

Section 23-100. Mackintosh, 1933-35

Date: 1933-35.
Leader: N. A. Mackintosh.
Nationality: British.
Ship: *R. R. S. Discovery II.*
Summary: Long oceanographical cruises during the ship's third commission took place in both the Atlantic and the Pacific. Oceanographical stations, whale marking, and observations in South Georgia, and in the South Shetland, South Orkney, and Prince Edward Islands. Transported stores for Rymill to Port Lockroy.

23-100.1 **Mackintosh, N. A. and Rayner, G. W.** Recent Antarctic research undertaken by the Discovery Committee. *Nature*, v. 136, no. 3442. Oct. 19, 1935. 620-631. (Contents: The *R. R. S. Discovery II*, 1933-35, by N. A. Mackintosh; The *R. R. S. William Scoresby*, by G. W. Rayner.)

23-100.2 **Mackintosh, N. A.** Voyages to the Antarctic in *Discovery II*. *United Empire*, XXVII, 4. London, April 1936. 196-203.

23-100.3 **Mackintosh, N. A.** The third commission of the *R. R. S. Discovery II*. *Geogr. J.*, v. 88. London, Oct. 1936. 303-318.

Section 23-101. Byrd, 1933-35

Date: 1933-35.
Leader: Richard E. Byrd.
Nationality: United States.
Ships: *Bear of Oakland* and *Jacob Ruppert.*
Summary: Enlarged large base at Little America. Established advance base south of 80°. Made tractor trips to Rockefeller Mts. and edge of Marie Byrd Land, and geological sledge trips to South Polar Plateau and Marie Byrd Land. Six major and numerous minor exploratory flights to the south, southeast, east, and northeast. Portions of the east coast of the Ross Sea established. Shelf ice in that area proved aground. Roosevelt Island discovered under ice. Ross Barrier, Queen Maud Mts., and portions of Marie Byrd Land surveyed. Elaborate scientific program carried out.

23-101.1 **Schanze, G. von** Byrd's Südpolar-Expedition. *Geogr. Z.*, 40 Jahrg, Heft 4. Leipzig, 1934. 144-147.

23-101.2 (Scott, J. M.) J. M. S. Admiral Byrd's Antarctic expedition 1933-35. *Geogr. J.*, v. 84. London, Aug. 1934 159-163.

23-101.3 **Byrd, Richard E.** Antarctic discoveries: Byrd's own story. First complete account of the 1933-35 expedition, which added new areas to the map and new light on scientific problems. Reprint from: *The New York Times*, Sunday, Jan. 20, 1935, sect. 9, 2 pp.; and *Poles Times*, no. 1, New York, June 1935, 1-5.

23-101.4 **Byrd, R. E.** *Discovery: second Byrd expedition.* New York, G. P. Putnam's Sons, 1935. 400 pp.

23-101.5 **Byrd, Richard E.** Exploring the ice age in Antarctica. *National G. M.*, v. 68. Oct. 1935. 393-474. Map.

23-101.6 **Poulter, Thos. C. and Perkins, Earle B.** *Outline of the scientific accomplishments of the Byrd Antarctic Expedition II, 1933-1935.* (Incomplete reference.)

23-101.7 National Geographic Society honors Byrd Antarctic Expedition. *National G. M.*, v. 68. July 1935. 107-114. (Byrd's second expedition, 1933-35.)

23-101.8 **Byrd, Richard E.** *Mit Flugzeug, Schlitten und Schlepper. Meine zweite expedition nach dem sechsten Erdteil, 1933-35.* Leipzig, 1936. 283 pp., 89 figs., 2 maps.

23-101.9 **Siple, Paul** *Scout to explorer. Back with Byrd to the Antarctic.* New York, G. P. Putnam's Sons, 1936. 289 pp.

23-101.10 Il dramma polare di Richard E. Byrd. Solo tra i ghiacci nella notte Antartica. *La Vie d'Italia e del Mondo*, IV, 11. Nov. 1936. 1143-1158.

23-101.11 **Rabot, Charles** L'exploration motorisée de l'Admiral Byrd. *L'Illustration*, no. 4933. Paris, 18 sept. 1937. 66-72.

23-101.12 **Hill, Joe, Jr. and Hill, Ola Davis** *In Little America with Byrd. Based upon experiences of the 55 men of the second Antarctic expedition.* Boston, Ginn, circa 1937. 264 pp.

23-101.13 **Byrd, Richard Evelyn** *Alone.* Decorations by Richard E. Harrison. New York, G. P. Putnam's Sons, 1938. 296 pp.

23-101.14 **Poulter, Thos. C.** The scientific work of the second Byrd Antarctic expedition. *The Sc. Monthly*, v. 49, no. 1. July 1939. 5-20.

Section 23-102. Ellsworth, 1934-35

Date: 1934-35.
Leader: Lincoln Ellsworth.
Nationality: United States.
Ship: *Wyatt Earp.*
Summary: Trans-Antarctic flight from the Palmer Peninsula area to Little America defeated by mechanical difficulties and poor weather.

23-102.1 **Ellsworth, Lincoln** To Antarctica again. *Natural History*, v. 34, no. 4. July-Aug. 1934. 332-344.

Section 23-103. Rayner, 1934-35

Date: 1934-35.
Leader: G. W. Rayner.
Nationality: British.
Ship: *R. R. S. William Scoresby.*
Summary: The ship's fourth commission, a whale-marking expedition in the pelagic grounds south of Africa.

Section 23-104. Mikkelsen, 1934-35

Date: 1934-35.
Leader: Klarius Mikkelsen.
Nationality: Norwegian.
Ship: Thorshavn.
Summary: Discovered Ingrid Christensen Coast, Vestfold Hills, Larsemann Hills, and Mount Caroline Mikkelsen. Landed with wife and seamen. Surveyed portions of this area.

Section 23-105. Rymill, 1934-37

Date: 1934-37.
Leader: John R. Rymill.
Nationality: British.
Ship: *Penola.*
Summary: Spent first winter on Argentine Islands, and second winter on Debenham Islands, Marguerite Bay. With sledging parties and aircraft, explored three sections of Palmer Peninsula, crossed the peninsula, and explored the Wordie Shelf Ice, the northern portions of George VI Sound, and portions of Alexander I Island. Extensive scientific program carried out.

23-105.1 The British Graham Land Expedition. *Geogr. J.*, v. 88. London, 1936. 165-167.

23-105.2 **Davies, F. T.** The British Graham Land Expedition, 1934-37. *Geogr. J.*, v. 89. London, 1937. 250-259.

23-105.3 **Rymill, J. R.** The British Graham Land Expedition, 1934-37 (Rymill expedition). Reprinted from: *Geogr. J.*, v. 91. London. April-May-June 1938; v. 96, Sept. 1940.

23-105.4 Rymill, J. R. *Southern lights: the narrative of the British Graham Land Expedition, 1934-37.* London, Chatto and Windus, 1938. Maps. (With contributions by H. R. Mill and A. Stephenson.)

23-105.5 Stephenson, A. Survey (of the British Graham Land Expedition). *Geogr. J.*, v. 91, no. 6. London, June 1938. 513-518.

23-105.6 Fleming, Launcelot and others. Notes on the [illegible] of the British Graham Land Expedition, 1934-37. *Geogr. J.*, v. 91. London, 1938. 508-532. Map.

23-105.7 Stephenson, A. Survey (of the British Graham Land Expedition). *Geogr. J.*, v. 96. London, Sept. 1940. 153-166.

23-105.8 Fleming, Launcelot; Bertram, Colin; and Roberts, Brian Three Antarctic years; the British Graham Land Expedition of 1934-37. *Canadian G. J.*, v. 22, no. 1. Ottawa, Jan. 1941. 8-39.

23-105.9 Cockerell, T. D. A. British Graham Land Expedition, 1934-1937. *Sc.*, v. 95. Jan. 30, 1942. 123-124.

Section 23-106. Ellsworth, 1935-36

Date: 1935-36.
Leader: Lincoln Ellsworth.
Nationality: United States.
Ship: *Wyatt Earp.*
Summary: First flight from Dundee Island forced to turn back after 600 miles. Two days later Ellsworth and H. Hollick-Kenyon made the first flight across the Antarctic Continent, landing 16 miles from Little America with gasoline exhausted. Discovered George VI Sound, Eternity Range, and Ellsworth Highland. Made four landings during the crossing.

23-106.1 Douglas, Percy Mr. Ellsworth and the *Discovery II*. *Polar Record*, no. 12. Cambridge, Univ. Press, July 1936. 166-172.

23-106.2 Douglas, Percy Mr. Ellsworth's trans-Antarctic flight. *Geogr. J.*, v. 87. London, April 1936. 351-358. Map.

23-106.3 Ellsworth, Lincoln My flight across Antarctica. *National G. M.*, v. 70. July 1936. 1-35.

23-106.4 Joerg, W. L. G. The topographical results of Ellsworth's trans-Antarctic flight of 1935. *Geogr. Rev.*, v. 26, no. 3. July 1936. 454-462.

23-106.5 Ellsworth, Lincoln The first crossing of Antarctica. *G. J.*, v. 89, no. 3. London, March 1937. 193-213. Map. (Reprinted in: *Annual Report of the Board of Regents of the Smithsonian Institution for 1937.* Washington, D. C., 1938. 307-321, pl. 1-9.

23-106.6 Joerg, W. L. G. The cartographical results of Ellsworth's trans-Antarctic flight of 1935. *Geogr. Rev.*, v. 27. July 1937. 430-444. Map.

23-106.7 Ellsworth, Lincoln *Beyond horizon.* New York, Doubleday, Doran, and Co., Inc., 1938.

Section 23-107. Rayner, 1935-36

Date: 1935-36.
Leader: G. W. Rayner.
Nationality: British.
Ship: *B. R. S. William Scoresby.*
Summary: The ship's fifth commission, a whale-marking cruise in the South Indian Ocean. Confirmed the existence of Bowman and Mill Islands. Discovered William Scoresby Bay. Charted portions of Kemp and Mac-Robertson Coast.

23-107.1 Rayner, George W. Mac-Robertson Land and Kemp Land, 1936. *Discovery Reports*, v. 19. Cambridge, Univ. Press, 1940. 165-184.

Section 23-108. Deacon, 1935-37

Date: 1935-37.
Leader: G. E. R. Deacon.
Nationality: British.
Ship: *R. R. S. Discovery II.*
Summary: The ship's fourth commission was to perform a circumpolar cruise. Plans were abandoned early in order to search for Lincoln Ellsworth, who was found at Little America. Made oceanographical cruise in the Ross Sea and westward along the pack-ice to the Shackleton Shelf Ice. Made running survey of Balleny Islands. Surveyed portions of the South Shetland Islands. Observations made at South Georgia, and in Crozet and South Orkney Islands.

23-108.1 Deacon, G. E. R. The Antarctic Voyages of *R. R. S. Discovery II* and *R. R. S. William Scoresby*, 1935-37. Geographical Journal vol. 93. London, Mar. 1939. pp. 185-204. Discussion pp. 204-9. Maps.

Section 23-109. Hart, 1936-37

Date: 1936-37.
Leader: T. J. Hart.
Nationality: British.
Ship: *R. R. S. William Scoresby.*
Summary: The ship's sixth commission, a whale-marking cruise in the southern Indian Ocean. Enderby Land was sighted.

Section 23-110. Christensen, 1936-37

Date: 1936-37.
Leader: Lars Christensen.
Nationality: Norwegian.
Ship: *Thorshavn.*
Summary: Assisted by Nils Larsen, Klarius Mikkelsen, aviator Widerøe, and photographer Romnæs, in the *Ole Wegger* and the *Fireren*. Discovered Prince Harald Land, Gribb Bank, and Four Ladies Bank. Photographed Ingrid Christensen, Lars Christensen, Mac-Robertson, Kemp, and Prince Harald Coasts, and portions of Enderby Land and the Southern Escarpment. For index of maps made from these photos, see vol. I of this manual.

23-110.1 Hansen, H. E. Konsul Lars Christensen's ekspedisjon til Antarktis sesongen 1936-37 og dens kartografiske resultater. *Polar-arboken.* Utgitt av Norsk Polarklubb. Oslo, 1937. 27-30.

23-110.2 Christensen, Lars Min siste ekspedisjon til Antarktis 1936-37. Med en oversikt over forskningsarbeidene på ferdene 1927-37. *Norsk Geogr. Te.*, VI, 3. Oslo, Norske Geogr. Selskab, 1937. 378-390. Map. (French résumé: La récente expédition de M. Lars Christensen aux régions antarctiques. 1936-37. *Ibid*, 390-391.)

23-110.3 Christensen, Lars *My last expedition to the Antarctic 1936-37, with review of research on 1927-37.* Oslo, Johan Grundt Tanum, 1938. 16 pp. (A lecture delivered before the Norwegian Geogr. S., Sept. 22, 1937.)

23-110.4 Christensen, Lars Charting the Antarctic. *Polar Times*, no. 6. New York, March 1939. 7-10. Map.

23-110.5 Christensen, Lars Recent reconnaissance flights in the Antarctic. *Geogr. J.*, v. 94. London, Sept. 1939. 192-208. Map.

23-110.6 The course of Antarctic exploration between long. 20° W. and 110° E. Notes on the map compiled to accompany the paper by Mr. Lars Christensen. *Geogr. J.*, v. 94, no. 3. London, Sept. 1939. 204-208. Map.

Section 23-111. Rayner, 1937-38

Date: 1937-38.
Leader: G. W. Rayner.
Nationality: British.
Ship: *B. R. S. William Scoresby.*
Summary: The ship's seventh commission. A whale-marking and oceanographical cruise extending from Bouvetøya westward to Peter I Island, with a landing on Saunders Island of the South Sandwich Islands.

Section 23-112. Mackintosh, 1937-39

Date: 1937-39.
Leaders: N. A. Mackintosh; succeeded by H. F. P. Herdman.
Nationality: British.
Ship: *R. R. S. Discovery II.*
Summary: The ship's fifth commission. A circumnavigation in the summer months, to compare with the winter circumnavigation during the second commission. Oceanographical observations, a running survey of Balleny Islands, and landings on South Georgia and Bouvetøya completed the work.

23-112.1 Mackintosh, N. A. The fifth commission of *R. R. S. Discovery II*. *Geogr. J.*, v. 97. London, April 1941. 201-216. Maps.

Section 23-113. Ellsworth, 1938-39

Date: 1938-39.
Leader: Lincoln Ellsworth.
Nationality: United States.
Ship: *Wyatt Earp.*
Summary: Examined Ingrid Christensen Coast by airplane and ship. Flew inland over featureless ice cap to 72° S., 78° E., and named this area American Highland.

23-113.1 Ellsworth Antarctic Expedition, 1938-39. *Polar Record*, no. 18. Cambridge, Univ. Press, July 1939. 174-175.
23-113.2 Ellsworth Antarctic Expedition 1938-39. *Polar Record*, no. 17, Cambridge, Univ. Press, Jan. 1939, 76-77.
23-113.3 Ellsworth, Lincoln . . . *National Geographic Magazine*, vol. 76, no. 1, 129-138.
23-113.4 Lincoln Ellsworth's Antarctic Expedition, 1938-39. *Polar Record*, no. 27, Cambridge, Univ. Press, Jan. 1944, 114.

Section 23-114. Ritscher, 1938-39

Date: 1938-39.
Leader: Alfred Ritscher.
Nationality: German.
Ship: *Schwabenland.*
Summary: During a three-week operation off the Princess Martha and Princess Astrid Coasts, the ship's two flying boats made three series of flights in which 350,000 square kilometers of hinterland between 10° W. and 20° E. were photographed. Maps were produced from these photographs. This area was named Neu-Schwabenland.
23-114.1 Wohlthat, H. Die Deutsche Antarktische Expedition 1938-39. *Der Vierjahresplan*, V, 8, 1939.
23-114.2 Vorbericht über die Deutsche Antarktische Expedition, 1938-39. *A. Hydrogr.*, v. 67, Beih. zu H. 8, Berlin, 1939.
23-114.3 Die Deutsche Antarktische Expedition 1938-39. *Polarforschung*, Nr. 1, 9. Jahrg, 30 Juni 1939, 1-6.
23-114.4 German Antarctic Expedition, 1938-39. *Polar Record*, no. 18. Cambridge, Univ. Press, July 1939, 175-176; no. 19, Jan. 1940, 260-271.
23-114.5 **Ritscher, A., and Barkley, E.; Ghurck, L.; Herrmann, E.; Paulsen, K.-H.; Regula, H.; Lange, H.; and Stocks, T.** Vorbericht über die Deutsche Antarktische Expedition 1938-39. *A. der Hydrographie und Maritimen Met.*, VIII Beiheft. Deutsche Seewarte, 1939. 8-40, illus.
23-114.6 **Herrmann, Ernst** Die Deutsche Antarktische Expedition 1938-39. *Z. für Erd.*, 8 Jahrg., Heft 17/18. Sept. 1940. 425-433. Maps.
23-114.7 The *Schwabenland* in the Antarctic. *Geogr. J.*, v. 95, no. 1. London, Jan. 1940. 52-54.
23-114.8 **Ritscher, Alfred** *Deutsche Antarktische Expedition 1938-39.* 2 vols. Leipzig, Koehler und Amelang, 1943. (Mit dem Flugzeugstutzpunkt der Deutschen Lufthansa A. G. M. S. "Schwabenland", Kapitan A. Kettas. Ausgeführt unter der Leitung von Kapitan A. Ritscher. Wissenschaftliche und fliegerische Ergebnisse. Erster Bd., Textteil, 894 pp., und Zweiter Bd. Bilder und Kartenteil.)
23-114.9 **Ritscher, Alfred** *German Antarctic Expedition 1938-39.* Washington. U. S. Navy, Translation Sect., 1946. 50 mimeo. pp. (Summary in English of: *Deutsche Antarktische Expedition 1938-39.* 2 vols. Erster Bd., Textteil, und Zweiter Bd., Bilder und Kartenteil. Leipzig, Koehler und Amelang, circa 1942.)
23-114.10 **Fagerholm, Erik** Flygbild och naturforskning; nagra exempel pa tillampad flygfotografering. *Ymer*, 64, arg, heft 1. 1944. 21-38. Maps. (An account of the German Antarctic Expedition 1938-39.)

Section 23-115. De la Ripelle, 1939

Date: 1939.
Leader: Fabre de la Ripelle.
Nationality: French.
Ship: *Bougainville.*
Summary: Oceanographical cruise. Visited Crozet, Kerguelen, Marion, and Prince Edward Islands.

Section 23-116. U. S. Antarctic Service, 1939-41

Date: 1939-1941.
Leaders: Richard E. Byrd, Paul A. Siple (West Base), and Richard B. Black (East Base).
Nationality: United States.
Ships: *Bear* and *North Star.*
Summary: Two winter bases established, Little America and a new "East Base" at Stonington Island, Marguerite Bay, Palmer Peninsula. Extensive flights and sledge parties explored Marie Byrd Land, including the Foedick, Hal Flood, and Edsel Ford Ranges. Flights from the East Base were made to Charcot and Alexander I Islands, George VI Sound, Eternity Range, and south to 74°37' S. on the Weddell Coast of the Palmer Peninsula. Sledge parties explored the entire length of George VI Sound, the plateau, Eternity Range, and the Weddell Coast of the Palmer Peninsula as far south as 71°51' S. Six flights were made from the *Bear* at sea toward Seraph Bay, Thurston Peninsula, and Ruppert and Walgreen Coasts. Advance depots were established by air from both bases. Comprehensive scientific program established at both bases.
23-116.1 "United States Antarctic Service hearings before the Subcommittee of the Committee on Appropriations, Interior Department Appropriation Bill". Washington, D. C., U. S. Congress, House of Representatives. *76th Congress, 1st Session, 1939* (Deficiencies and Supplemental Appropriations), 157-170; *76th Congress, 3d Session, 1940*, 1009-1030; *77th Congress, 1st Session*, 1009-1026.
23-116.2 **Barrera-V., Humberto** La expedición Byrd a la región antártica. *Rev. Chilena de Historia y Geogr.*, t. 88, no. 96. Santiago de Chile, enero-junio 1940. 285-294.
23-116.3 Expedition to the Antarctic under Admiral Byrd; it finds 900 miles of new coastline. *Life*, v. 9, no. 2. July 8, 1940. 27-33.
23-116.4 **Curtis, Leland** South of the Southern Cross. *Sierra Club B.*, v. 26, no. 1. Feb. 1941. 95-101. (Account of the U. S. Antarctic Service Expedition under Admiral Byrd.)
23-116.5 **English, R. A. J.** Preliminary account of the United States Antarctic Expedition 1939-41. *Geogr. Rev.*, v. 31. July 1941. 466-478. Reprinted in: *Polar Times*, no. 12. New York, June 1941. 3-6.
23-116.6 **Rouse, Finn** The main southern sledge journey from East Base, Palmer Land, Antarctica, reports on scientific results of the U. S. Antarctic Expedition 1939-41. *P. of the American Philosophical S.*, v. 89, no. 1, 1941, 13-23.
23-116.7 **Thone, F.** United States Antarctic Expedition; summary of first reports on scientific results. *Sc.*, v. 94, suppl. 10. Nov. 28, 1941.
23-116.8 A summary of the activities of the U. S. Antarctic Expedition 1939-41. *Polar Record*, v. 3, no. 22. Cambridge, Univ. Press, July 1941. 427-449. Map.
23-116.9 The United States Antarctic Expedition in Graham Land. *Geogr. J.*, v. 98. London, 1941. 118-114.
23-116.10 **English, R. A. J.** Reports on scientific results of the U. S. Antarctic Service Expedition, 1939-41. *P. of the American Philosophical S.*, v. 89, no. 1, 1945. Review in: *Geogr. Rev.*, v. 36, 1946. 493-495.
23-116.11 **Hawthorne, Roger** Exploratory flights of Admiral Byrd (1940). *P. of the American Philosophical S.*, v. 89, 1945. 393a-393a.
23-116.12 Reports on scientific results of the U. S. Antarctic Service Expedition 1939-41. *P. of the American Philosophical S.*, v. 89, no. 1, 1945. 393 pp. and suppl. Maps.

Section 23-117. Oddera, 1942

Date: 1942.
Leader: A. J. Oddera.
Nationality: Argentinar
Ship: *Primero de Mayo.*
Summary: Hydrographic survey and installation of a light beacon in Melchior Islands, Palmer Archipelago. Visited Deception Island, South Shetland Islands, for purpose of claiming all Antarctic lands from 25° W. to 68°34' W., and south to the pole.

Section 23-118. Kitson, 1943

Date: 1943.
Leader: E. W. Kitson.
Nationality: British.
Ship: *H. M. S. Carnarvon Castle.*
Summary: Political expedition. Eliminated traces of Argentine visit to Deception Island, raising British flags here and on Signy Island in the South Orkneys. Called on Argentine weather station at Laurie Island in the South Orkney Islands.

Section 23-119. Harrlague, 1948

Date: 1948.
Leader: S. Harrlague.
Nationality: Argentine.
Ship: *Primero de Mayo.*
Summary: Primarily a political expedition. Reasserted the claim to the Argentine Sector by depositing a cylinder at Port Lockroy, and eradicated British emblems on Deception Island. Visited the then-unoccupied American East Base in Marguerite Bay, and continued hydrographic survey of Melchior Islands.

23-119.1 Vio Valdivieso, Claudio. La Antartida. *Mar. Organo Oficial de la Liga Maritima de Chile*, año 17, no. 118, 1946. 247-259. Map. (Includes summary of Argentine Antarctic Expedition of 1943, to which author was attached as Chilean observer.)

Section 23-120. Falkland Is. Dep. Survey, 1943-present

Date: 1943.
Leader: (See below.)
Nationality: British.
Ships: *H. M. S. William Scoresby, Fitzroy, Eagle, Trepassey,* and *John Biscoe.*
Summary: The Falkland Islands Dependency Survey: a broad, long-range program of meteorological, topographical, biological, geological, and geographical research. A system of multiple stations has been established on the Palmer Peninsula, and on adjacent islands, including the South Shetland and the South Orkney Islands. Bases have been, or are being, occupied at Stonington Island, Deception Island, Port Lockroy, Hope Bay, Laurie Island, Debenham Islands, Argentine Islands, King George Island, and Signy Island. Bases are manned more or less permanently by men on a two-year rotation system. Men are exchanged and supplies delivered annually. Under the rotation system the leadership has been vested in J. W. S. Marr, A. Taylor, E. W. Bingham, and K. S. P. Butler. Political activity includes removal of Argentine emblems where found, and establishing post offices and issuing stamps.

23-120.1 Wordie, J. M. The Falkland Islands Dependencies Survey 1943-46. *Polar Record*, v. 4, no. 32. Cambridge, Univ. Press, July 1946. 372-384. Map.
23-120.2 Bingham, E. W. The story of the occupation of the British base in Marguerite Bay, 1946-47. *Polar Record*, nos. 33-34. Dec. 1947. 27-39.
23-120.3 Bingham, E. W. The Falkland Islands Dependencies Survey, 1946-47. *Geogr. M.*, v. 20, no. 12. London, April 1948. 477-485. Map.
23-120.4 Bingham, E. W. Recent British activity in the Antarctic. *United Empire*, v. 39, no. 1. London, Jan.-Feb. 1948. 31-35.
23-120.5 B., B. B. Falkland Islands Dependencies Survey, 1947-48. *Geogr. J.*, CXI, 1-3. London, 1948. p. 141.
23-120.6 Butson, A. R. C. Mountaineering in the Antarctic. *Alpine Journal*, v. 57, no. 279, 1949, 198-204, illus., map. (Account of mountaineering in the region of Neny Fjord, west Graham Land, by members of the Falkland Islands Dependencies Survey and the Ronne Antarctic Research Expedition, 1948.)
23-120.7 James, David. *That frozen land; the story of a year in the Antarctic.* London, Falcon Press, 1949, 204 pp., maps. (An account of the author's exploration as a member of the Falkland Islands Dependencies Survey.)
23-120.8 Mason, D. P. The Falkland Islands Dependencies Survey: explorations of 1947-48. *Geographical Journal*, v. 115, nos. 4-6, Apr.-June 1950, 145-160, maps.

Section 23-121. USN Task Force 68, 1946-47

Date: 1946-47.
Leaders: Richard E. Byrd and Richard Cruzen.
Nationality: United States.
Ships: (See below.)
Summary: "Operation Highjump" was the largest expedition ever to visit the Antarctic. Rear Admiral Richard Cruzen was in command, and Rear Admiral Richard E. Byrd acted as Officer in Charge, Antarctic Development Project. Thirteen ships participated: Two ice-breakers, *Northwind* and *Burton Island;* an aircraft carrier, *Philippine Sea;* the command ship, *Mount Olympus;* two cargo vessels, *Merrick* and *Yancey;* two seaplane tenders, *Currituck* and *Pine Island;* two destroyers, *Brownson* and *Henderson;* two oilers, *Canisteo* and *Cacapon;* and a submarine, *Sennet.* Six large PBM flying boats, six large R4D landplanes, four helicopters, and three light aircraft were used. More than 4000 men participated. The expedition consisted of two task groups which worked around the continent, and a third, based at Little America, which explored the interior. Most of the coastline and hinterland was air-mapped with approximately 70,000 aerial photos. Extensive scientific investigations and hydrographic surveys were carried out. A second flight was made to the south pole by two of the aircraft. Several hundred thousand square miles of coast and interior were discovered and photographed.

23-121.1 Antarctica: Byrd's quest. *Newsweek*, v. 28. Dec. 16, 1946. 32-33.
23-121.2 Byrd leads expedition back to Little America. *Science News Letter*, v. 50. Nov. 30, 1946. p. 343.
23-121.3 Navy off to Antarctic. *Scholastic*, v. 49. Dec. 2, 1946. p. 15.
23-121.4 Byrd, Richard E. et al. Our Navy explores Antarctica. *National G. M.*, v. 92, no. 4. Oct. 1947. 429-552. Maps.
23-121.5 Henry, T. Report from Antarctica. *Popular Mechanics M.*, v. 87; April 1947, 90-94; May 1947, 108-112; June 1947, 108-118.
23-121.6 Jones, Stacy V. Frozen treasure hunt. Our expedition to Antarctica is part of an international race for vast mineral riches hidden in nature's biggest deep-freeze cabinet. *Liberty.* March 1, 1947. 15-17. Map.
23-121.7 Admiral Byrd in the Antarctic. *Illus. London News*, v. 210. April 12, 1947. 388-389. (Photographic account.)
23-121.8 Anderson, G. H. I flew Byrd over the pole. *Flying*, v. 40. June 1947. 32-33.
23-121.9 South pole the hard way. *Newsweek*, v. 29. May 19, 1947. p. 64.
23-121.10 Task forces against the poles. *Popular Mechanics M.*, v. 87. Jan. 1947. 131-136.
23-121.11 Men against ice. *All Hands.* Jan. 1947. 2-7.
23-121.12 Success of south pole expedition hailed. *All Hands.* April 1947. 33-35.
23-121.13 Excerpts from the minutes of a press conference held by Vice Admiral Forrest P. Sherman, U. S. N. *O. N. I. Rev.*, June 1947. 60-33. (Unclassified article in a classified publication.)
23-121.14 A report on U. S. Navy Operation Highjump. *Photogrammetric Engineering*, v. 13. June 1947. 326-337.
23-121.15 Cruzen, Richard H. A polar victory for men, ships. *All Hands.* June 1947. 8-9.
23-121.16 Quackenbush, R. S. Operation Highjump. *Shipmate.* July 1947. 13-14, 28-29.
23-121.17 Operation Highjump. *Civil Engineering Corps B.*, v. 1. Aug. 1947. 244-248.
23-121.18 Blakeslee, Alton L. Ice dooms Little America. Byrd's famous base will soon drift out to sea as an iceberg. *Sc. Illus.*, v. 3, no. 4. April 1948. 44-47. Map.
23-121.19 Byrd, R. Nuestra marina explora la Antardida. *Rev. de Marina*, v. 542. Jan.-Feb. 1948. p. 87.
23-121.20 A review of the U. S. Navy Antarctic Expedition, 1946-47. *Geogr. J.*, CX, 1-3. London, Jan. 1948. 187-188. (A review of: Our Navy explores the Antarctic, by R. E. Byrd, in *National G. M.*, Oct. 1947.)
23-121.20a Aleiner, A. Z. Antarktika v tekushchem desyatiletii (The Antarctic in the current decade). *Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva (News of the All-Union Geographical Society)*, Tom 80, No. 4. Leningrad, 1948. 446-452. (Chiefly account of United States Antarctic Expedition—Operation "Highjump"—1946-47; political implications stressed.)
23-121.21 Palmer, Wendell S. *The U. S. S. Currituck. Pictorial log of Antarctic cruise "Operation Highjump".* Philadelphia, Dunlap, 1948. 44 pp.
23-121.22 Menster, William J. *Strong men south.* Milwaukee, Bruce Publ. Co., 1949, 213 pp. 16 illus. (Story of Task Force 68, by its chaplain.)
23-121.23 Schoene, Charles A. "Operation Highjump." *J. of the Coast and Geodetic Survey*, no. 2. April 1949. 75-81. Maps. (An account of the U. S. Navy Antarctic Expedition, 1947.)
23-121.24 *Note:* Newspapers in many countries, but particularly in the United States, carried daily news stories concerning "Operation Highjump". These accounts were sent by wireless by the twelve reporters who accompanied Task Force 68.

Section 23-123. Guzzalaga Toro, 1947

Date: 1947 (Jan.-March).
Leaders: Capt. Frederico Guzzalaga Toro.
Nationality: Chilean.
Ships: *Iquique* and *Angamos*.
Summary: Visited Discovery Bay, Greenwich Island, and established a permanent meteorological station under the leadership of Boris Kopaitic. The *Angamos* also visited Marguerite Bay, site of the then-unoccupied East base of the U. S. Antarctic Service Expedition.

23-122.1 **Ibl, Pablo and Ayala, Arturo** Misión a la Antártida. *Memorial Technico of the Chilean Army*, 15, no. 58, 1947. 51-126. (An account of a Chilean mission to the Antarctic.)

23-122.2 **Chilean mission to the Antarctic; a review.** *Geogr. J.*, CX, 1-3. London, Jan. 1948. p. 138.

23-122.3 **Silva Maturana, Raul** *Antártida blanca (crónicas del viaje efectuado a la Antártida chilena por el transporte Angamos)*. Santiago de Chile, V. Silva Maturana, Impresor, 1947.

23-122.4 **Vila Labra, Oscar** *Chilenos en la Antártica*. Prólogo de Francisco A. Coloane. Santiago, Editorial Nascimento, 1947. 206 pp., illus., maps. (A general description of the Antarctic, including an account and map of the voyage of the *Iquique* and the *Angamos* to Palmer Peninsula in Jan.-March 1947, and of the establishment of a Chilean meteorological station at Greenwich Island in the South Shetlands.)

23-122.5 **Orrego Vicuña, Eugenio** *Terra australis. Diario de la primera expedición Antártica chilena*. Historia y documentos. Santiago de Chile, Zig-Zag, 1948. 262 pp. Maps.

23-122.6 **Helfritz, Hans** *Llama la Antártida, viaje por el fantástico mundo helado del sud*. Buenos Aires, Editorial "El Buen Libro". 148 pp., maps, illus. (Versión castellana de la Dra. Katia Schirber y Susana Arning Frias.)

23-122.7 **Barrera-V., Humberto** *Observaciones sobre glaciología Antartica*. Santiago, I. Geogr. Militar, 1947. 28 pp. (Expedition Chileno, 1947.)

Section 23-123. Nadau et al., 1947

Date: 1947.
Leader: Lieut. Nadau.
Nationality: Argentine.
Ships: *King, Murature, Ministro Ezcurra Don Samuel, Patagonia, Chaco*, and *Pourmir*.
Summary: Established a permanent meteorological station on Gamma Island in the Melchior Islands. Visited Deception Island, Admiralty Bay, Port Lockroy, and Marguerite Bay.

23-123.1 **Garcia, Luis M.** Expedición a la Antartida, 1947. *Anales de la S. Cientifica Argentina*, t. 145, entrega 2. Buenos Aires, 2 febrero 1948. 70-118. Maps.

Section 23-124. Ronne, 1947-48

Date: 1947-48.
Leader: Finn Ronne.
Nationality: United States.
Ship: *Port of Beaumont*.
Summary: Reoccupied the East Base of the U. S. Antarctic Service Expedition on Stonington Island, Marguerite Bay, Palmer Peninsula. This base performed scientific research and exploration in close cooperation with the new southernmost British survey base, a few yards distant. The Ronne Antarctic research expedition discovered Lassiter Shelf Ice and Edith Ronne Land, which bound the southern Weddell Sea. This was the last major portion of the Antarctic Continent unknown to man. The Filchner Shelf Ice was found to be nonexistent. The trimetrogon flights of Ronne, pilot Lassiter, and photographer Latady, extended to approximately 70° S. in this area. Frequent landings were made to determine positions. New land was discovered and old positions corrected along the Weddell Sea base of the Palmer Peninsula. The *Port of Beaumont* was freed from the ice for its return trip by the ice-breakers of U. S. Naval Task Force 39, then operating in that area.

23-124.1 **Ronne, F.** Tidings from the bottom of the world. *New York Times Magazine*. Nov. 28, 1947. p. 17.

23-124.1a **Case, Francis** Ronne in the Antarctic. Extension of remarks of the Hon. Francis Case of South Dakota in the House of Representatives, Tuesday, May 10, 1949. *Congressional Record. Proceedings and debates of the 81st Congress*, First Session, v. 95, no. 82, 1949. Appendix, A2091-93. (Ronne Antarctic Research Expedition, 1948.)

23-124.2 **Ronne, Finn** Ronne Antarctic Research Expedition, 1946-48. *Geogr. Rev.*, v. 38, no. 3. July 1948. 355-391. Maps.

23-124.3 **Ronne, Finn** Ronne Antarctic Research Expedition. 1946-1948. *Photogrammetric Engineering*, v. 14, no. 2. June 1948. 197-208. Map.

23-124.4 **Ronne, Finn and Ronne, Mrs. Finn** *Note:* Numerous and frequent articles were published in the newspapers subscribing to the North American Newspaper Alliance (such as the Washington *Evening Star*) during 1946, 1947, and 1948. Articles covering all phases of the expedition were received by wire several times a week.

23-124.5 **Latady, William R.** A year on the Antarctic Continent. *Appalachia*, v. 27, no. 3. June 1949. 278-281. Map.

23-124.6 **Latady, William R.** A year on the Antarctic Continent. *Harvard Mountaineering*, no. 9. June 1949. 25-37. Map.

23-124.7 **Latady, William R.** Antarctic interlude. *The American Alpine J.*, v. 7, no. 3. Sept. 1949. 238-247, illus.

23-124.8 **Ronne, Finn** *Antarctic conquest*. New York, 1949. 299 pp., illus., maps. (Expedition narrative.)

Section 23-125. U. S. N. Task Force 39, 1947-48

Date: 1947-48.
Commander, U. S. Navy Task Force 39.
Nationality: United States.
Ships: *Burton Island* and *Edisto*.
Summary: Two ice-breakers, carrying three helicopters, one seaplane, two Greenland Cruisers, and 500 personnel, including 10 civilian scientists. Geodetic stations occupied on Wilhelm II Coast, Queen Mary Coast, Haswell Island, Gillies Nunataks, Bungers Lakes, Knox Coast, Budd Coast, Ross Island, Little America, Peter I Island, and Stonington Island. Extended exploration in most of these areas. Hydrographic, meteorological, geological, and geographical observations and collections made. Extensive aerial and motion picture photography. Broke ice in Neny Fjord to release Ronne Antarctic research expedition.

23-125.1 **Small Navy force returns to map Antarctic area.** *Science News Letter*, v. 52. Nov. 8, 1947. p. 290.

23-125.2 **McDonald, Edwin** Southern cruise by two Navy ice-breakers. *U. S. Naval I. Proceedings*, v. 74, no. 550. Annapolis. 1490-1503.

23-125.3 **Nutt, David C.** Second (1948) Antarctic Development Project. *Arctic*, v. 1, no. 2. Montreal and New York, 1948. 88-92.

23-125.4 *Note:* A review of "Operation Windmill"; the activities of Task Force 39 in the Antarctic, 1947-48, appeared in the *New York Times*, March 29, 1948. (Press releases were sent daily from Task Force 39 in the field to the U. S. Navy Public Relations Office for release to newspapers.)

Section 23-126. Hermelo, 1948

Date: 1947-48.
Leader: Ricardo Hermelo.
Nationality: Argentine.
Ships: *Pampa, Seaser*, and *King*.
Summary: Established meteorological station on Deception Island, January 27, 1948.

Section 23-127. Cappus, 1948

Date: 1948.
Leader: Harold Cappus.
Nationality: Argentine.
Ships: *Almirante Brown, 25 de Mayo, Entre Rios, San Luis, Misiones, Santa Cruz, Mendoza*, and *Corrientes*.
Summary: Naval maneuvers in Antarctic waters with officers of flag rank present. Assertion of territorial claims. (British, Chilean, and American expeditions then in that area.)

Section 23-128. Navarrete, 1948

Date: 1947-48.
Leader: E. G. Navarrete.
Nationality: Chilean.
Ships: *Racagua* and *Covadonga*.
Summary: Relieved men at Sovereignty Bay, and established new military base.

Section 23–129. Campbell, 1948

Date: 1948.
Leader: Stuart A. C. Campbell.
Nationality: Australian.
Ships: *Wyatt Earp* and *LST 3501*.
Summary: To establish meteorological and magnetic stations on Heard and Macquarie Islands. To perform a scientific program in the Australian and African Sectors, and visit the Kerguelen Islands.

Section 23–130. González Videla, 1948

Date: Feb. 1948.
Leader: President González Videla, of Chile.
Nationality: Chilean.
Ship: *Presidente Pinto*.
Summary: Dedication of Chilean base at Sovereignty Bay.

Section 23–131. Liotard, 1949

Date: 1948–49.
Leader: André F. Liotard.
Nationality: French.
Ship: *Commandant Charcot*.
Summary: Intended to base at Adélie Land and establish a scientific program of several years' duration. Expedition was unable to land at desired site, so returned. Plans made to return in following year.

23–131.1 **Gain, L.** L'Antarctique; programme pour une expédition. *La Nature*, no. 3152. Paris, 15 janvier 1948. 26–28. Map.

23–131.2 **Gain, L.** L'Antarctique: programme pour une expédition. *La Nature*, no. 3153. Paris, 1er février 1948. 39–48.

23–131.3 *Expéditions polaires françaises.* Missions Paul-Émile Victor. Rapport sur l'étude et la mise au point de l'Expédition antarctique français (Terre Adélie). Paris Centre de Documentation Universitaire, Tournier et Constans, 1948. 23 pp.

23–131.4 **Tokarev, V. A.** Frantsiya podgotovlyayet ekspeditsiyu v Antarktiku (France prepares an expedition to the Antarctic). *Priroda* (*Nature*), no. 9. Leningrad, 1948. 96. (Objects of French expedition to Terre Adélie, 1948.)

23–131.5 **Les Expéditions Paul-Émile Victor.** *Réalités*, no. 40. Mai 1949. 20–23.

Section 23–132. Fontaine, 1949

Date: 1949.
Leader: Leopoldo Fontaine.
Nationality: Chilean.
Ships: *Covadonga*, *Maipo*, and *Lautaro*.
Summary: Relieved garrisons established the previous year at O'Higgins Land and Sovereignty Bay.

Section 23–133. Glaver, 1949–1952

Date: 1949–1952.
Leader: John Glaver.
Nationality: Norwegian-British-Swedish.
Ships: *John Biscoe* and various others.
Summary: Expedition to Dronning Maud Land in progress at time of publication.

23–133.1 **Norwegian-British-Swedish** expedition to the Antarctic. *Geographical Journal*, v. 112, nos. 4–6, 1948, 249–249. (Expedition to Dronning Maud Land, 1949–52.)

23–133.2 **Ahlmann, Hans W:son** The Norwegian-Swedish-British Antarctic Expedition. *Tellus*, v. 1, no. 1, 1949, 59–60. (General research programme of expedition to Dronning Maud Land, 1949–52.)

23–133.3 **Kirwan, L. P.** An international expedition to Antarctica. *Geographical Magazine*, v. 22, no. 7, 1949, 280–288, illus., map. (Norwegian-British-Swedish Expedition to Dronning Maud Land, 1949–52; programme and preparations.)

23–133.4 **Roberts, Brian** Norwegian-British-Swedish Antarctic Expedition, 1949–52. *Nature*, v. 165, no. 4184, 1950, 8–9, 20. (Origin, aims, and objects of the expedition.)

23–133.5 **Roots, E. F.** An international expedition to Antarctica; the voyage to Queen Maud Land. *Geographical Magazine*, v. 23, no. 3, July 1950, 85–100, map. (Written on eve of expedition.)

SECTION 24. PROPOSED EXPEDITIONS

24.1 Expédition projetée vers le Pôle Austral. *J. des Voyages*. Paris, IX (1821), 883.

24.2 **Reynolds, J. N.** Address on the subject of a surveying and exploring expedition to the Pacific Ocean and South Seas. New York, Harper, 1836.

24.3 Projectirte Erforschung der antarktischen Regionen. *Petermann's M.* Gotha, VI (1860), 187.

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SECTION 30. SOVEREIGNTY

NOTE.—(1) See also Section 39 of this manual. (2) Not listed here are more than 1,000 references in the files of U. S. Government agencies. These references are available only to certain qualified persons. (3) Many additional popular-type articles are referenced in the Pan-American Union library in Washington, D. C.

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32.99 *Polarforschung*. Archive für Polarforschung, Kiel, Germany. Publ. since 1919. (Each issue contains news of south polar whaling.)

SECTION 33. COMMISSIONS, COMMITTEES, CONGRESSES

33.1 Resolution des Vorstandes und Beirathes der Gesellschaft für Erdkunde in Berlin über die Förderung der Polarforschung. *J.-Ber. G. Ges.* Hamburg, II (1874–1875), 144–146.

33.2 Bericht der Reichs-Commission zur Begutachtung von Fragen der Polarforschung. *Leopoldina*. Dresden, XII (1876), 1–2, 7–16, 25–31, 37–47.

33.3 **Wild, H.** Commission polaire internationale. Circulaire, convocation pour la 3e conférence polaire internationale. St-Pétersbourg, le 14 mai 1881. Imprimé par ordre de l'Observatoire physique central.

33.4 **Bërgen, C.** Die internationalen Polarexpeditionen. *D. G. Bl.* Bremen, 5 (1882), 283–307.

33.5 **Bezold, W. v.** Die Internationale Polarforschung. *D. Rev.* Berlin (Januari 1883).

33.6 **Neumayer, G.** Die Deutschen Unternehmen im Systeme der internationalen Polar-Forschung. *V. des IV. D. Geographentages zu München*, 1884, 11–30.

33.7 **Neumayer, G.** Bericht über den Fortgang der Bestrebungen zu Gunsten der antarktischen Forschung. *V. des VII. D. Geographentages zu Karlsruhe*, 1887, 112–140. Karten.

33.8 **Neumayer, G.** Die neuesten Fortschritte der Bestrebungen zu Gunsten einer wissenschaftlichen Erforschung der antarktischen Region. *A. der Hydrogr.* Hamburg, 21 (1893), 449–467.

33.9 **Griffiths, G. S.** Report of the Antarctic Committee of the Royal Society of Victoria. *P. R. S. Victoria.* Melbourne, 6 (1894), 211–212.

33.10 Discussion on Antarctic Exploration. (Speeches by Sir Joseph Hooker, Dr. John Murray, Sir George Baden Powell, Prof. A. de Lapparent, General Greely and Prof. Guido Cora.) *Rep. Sixth International G. C. London, 1895.* London (1896), 103–107.

33.11 An Anglo-Australasian Antarctic Conference. (Speeches by Sir Clements R. Markham, the Duke of Argyll, Sir Joseph Hooker, Prof. A. W. Rücker, Sir Saul Samuel, Sir Andrew Clarke, Hon. Charles Bowen, and the Marquis of Lothian.) *G. J.* London, 10 (1897), 374–385.

33.12 **Hellprin, A.** Report of the Committee on Antarctic Exploration. *Science.* New York, 7 (1898), 121–122.

33.13 **King, P. L.** Antarctic and Southern Abstract. *Rep. 7. Meeting of the Australian Ass. for the advancement of sc. held at Sydney, 1898.* Sydney, 709–712.

33.14 **Markham, C. R.** *Antarctic exploration: a plea for a national expedition, with report of the Royal Geographical Society's Antarctic Conference correspondence with the government.* London, 1898.

33.15 **Murray, J.** Scientific advantages of an Antarctic Expedition. Addresses by Dr. John Murray, the Duke of Argyll, Sir Joseph Hooker, Dr. Nansen, Prof. Dr. Neumayer, Sir Clements Markham, Dr. Alexander Buchan, Sir Archibald Geikie, Dr. P. L. Sclater, and Prof. d'Arcy Thompson. *Nature.* London, 57 (1898), 420–427.

33.16 The Royal Society's Antarctic Conference. *Science.* New York, n. ser., 7 (1898), 839–846.

33.17 The Royal Society's Antarctic Meeting. *G. J.* London, 11 (1898), 416–422.

33.18 The antarctic meeting in Berlin. *Nature.* London, 59 (1899), 442–443. Map.

33.19 **Neumayer, G.** Zweiter Thätigkeitsbericht der deutschen Kommission für die Südpolar-Forschung. Erstattet in der I. Sitzung des XIII. D. Geographentages zu Breslau am 28. Mai 1901 vom 1. Vorsitzenden der Kommission. *V. des 13. D. Geographentages zu Breslau.*, 1901. Berlin, 1901, 8–32.

33.20 The Antarctic Meeting at the Albert Hall. *G. J.* London, 24 (1904), 617–620.

33.21 **Arctowski, H.** Projet d'une exploration systématique des régions polaires. *Ass. internal. pour l'étude des régions polaires*, 25 pp. Bruxelles, Vanderauwera & C^ie^, 1905.

33.22 **Singer, H.** Internationale Polarforschung. *Der Zeitgeist (Berliner Tageblatt).* Berlin, 20 Nov. 1905.

33.23 **Sobral, G.** Congreso polar en Bruselas. *Rev. G. colonial y Mercantil.* Madrid, 8 (1905), 409–414.

33.24 Congress of Mons. Project of an International Association for the Study of the Polar Regions. Report. Mons, 1905, 2 pp.

33.25 Das Projekt von Mons für die Internationale Polarforschung. *Globus.* Braunschweig, 88 (1905), 380–381.

33.26 **Arctowski, H.** Polar problems and the international organisation for their solution. *Monthly Rev.* London, 25 (1906), 33–53.

33.27 **Bigourdan, G.** Le Congrès international pour l'étude des régions polaires. *C.-R. Ac. des Sc.* Paris, 143 (1906), 417–421.

33.28 **Brown, R. N. Rudmose** The International Congress for the Study of the Polar Regions, Brussels, 1906. *Scott. G. Mag.* Edinburgh, 22 (1906), 509–513.

33.29 **Cora, G.** Il Congresso internazionale per lo studio delle regioni polari (Bruxelles, 7–11 Settembre). *Riv. marittima.* Roma (Ottobre 1906).

33.30 **Herrmann, E.** Die geplante dauernde Organisation der Polarforschung. Internationaler Kongress für die Erforschung der Polargegenden in Brüssel. *A. der Hydrogr.* Hamburg (Aug.-Nov. 1906).—*Globus.* Braunschweig, N° 18 (1906).

33.31 **Nordenskjöld, O.** Den internationalen Kongressen för polarforskning. *Ymer.* Stockholm, 1906, 3, 322–324, 346–347.

33.31a **Ollet, Paul** L'organisation rationelle de la documentation pour l'étude des régions polaires. Bruxelles, I. International de Bibliographie, 1906. 11 pp. (Rapport présenté à Congrès International pour l'étude des régions polaires.)

33.32 **Rahir.** Le Congrès international pour l'étude des régions polaires. Résumé des travaux scientifiques. Réception par la S. R. belge de G. *B. S. R. belge G.* Bruxelles, 1906. N° 5.

33.33 Der internationale Kongress in Brüssel zur Erforschung der Polargebiete. *Geog.* Leipzig, 42 (1906), 513–516.

33.34 Le Congrès international pour l'étude des régions polaires, Bruxelles, septembre 1906. Projet d'une exploration systématique des régions polaires. *A. de G.* Paris, 1906 (15 mars et 15 juillet), 188, 308.

33.35 **Drygalski, E. v.** Ziele und Methoden der Polarforschung nach den Verhandlungen des internationalen Kongresses zur Erforschung der Polargebiete in Brüssel. *G. Ans.* Gotha, 8 (1907), 49–54.

33.36 **Mill, H. R.** The International Congress on Polar exploration at Brussels, September 1906. *Quarterly J. of the R. Met. S.* London, XXXIII (January 1907), 141, 1–8.

33.37 **Sobral, J. G.** Congreso polar de Bruselas. *Rev. G. Colonial y Mercantil.* Madrid, 4 (1907), 47–54.

33.38 **Arctowski, H.** Note sur la coopération internationale pour l'étude des régions polaires. *C.-R. Commission polaire internationale.* Bruxelles, session 1908.

33.39 **Cora, G.** La Commissione polare internazionale, Bruxelles, Maggio 1908. *Riv. marittima.* Roma, Luglio-Agosto, 1908. 4 pp.

33.40 **Denucé, J.** La Commission polaire internationale à la Conférence de Bruxelles (mai 1908) et au IX^e^ Congrès international de Géographie (Genève, juillet-août 1908. *B. S. R. belge G.* Bruxelles, 1908, 4, 14 pp.

33.41 *International Polar Commission. Procès-verbaux des séances présentés par G. Lecointe.* Bruxelles, Hayez, 1908. clxii and 110 pp. (Session of 1908. Proceedings of the meetings. In English, French, and German.)

33.42 **Kövesligethy R.** Jelentés a Nemzetközi Sark-Bizottsag 1908-iki bruxellesi üléséről. (Congrès de Bruxelles, mai 1908). *Különlenyomat az Akadémiai Értesitö 1908-ik évi folyamából.* Budapest, 1908, 1–9.

33.43 **Lecointe, G.** L'Institut polaire international. Commission polaire internationale. Session 1908. Procès-Verbaux. Bruxelles, 1908, pp. XXIX–XLV.

33.44 Congrès international pour l'étude des régions polaires, tenu à Bruxelles, 1906. Rapport d'ensemble. Documents préliminaires et compte-rendu des séances. Rapport présenté par G. Lecointe.—Commission polaire internationale, session de 1908. Procès-verbaux des séances présentés par G. Lecointe. Bruxelles, Hayez, 1908.

33.45 Die internationale Polarkommission. *Globus.* Braunschweig, XCIV (1908), 18, 211.

33.46 Antarctic exploration. A resolution. *B. G. S.* Philadelphia, VII (1909), 8, 29.

33.47 **Cagni, U.** Origine et constitution de la Commission polaire internationale. *C.-R. IX^e^ C. intern. de G.* Genève (1911), I, 353–359.

33.48 **Lecointe, G.** Organisation générale de l'Institut polaire international. *C.-R. IX^e^ C. intern. de G.* Genève, 1911, 165–171.

33.49 *Commission polaire international. Procès-verbaux de la session tenue a Rome en 1913 présentés par G. Lecointe.* Bruxelles, Hayez, 1913. 293 pp. (Includes Denucé's bibliography.)

33.50 **Matthes, Francois E.** New international commission of snow and glaciers. *Nature*, v. 145. Washington, D. C., 1940. p. 753; and *Sc.*, v. 91, no. 2361, 1940. 317–318.

33.51 **Roberts, Brian** International organizations for polar exploration. *The Polar Record*, v. 5, nos. 37–38. Cambridge, Univ. Press, Jan.-July 1949. 332–334.

SECTION 34. SOCIETIES AND PERIODICALS

34-1 *Periodicals and serial publications in the library of the Scott Polar Research Institute*, Cambridge, December 1949, 17 pp. mimeo. (Section G lists some three dozen soviet periodicals containing polar articles. Most of these concern the Arctic rather than the Antarctic, but there are many articles on ice, climate, techniques, etc, which might apply to either polar region.)

34-2 **Debenham, F.** The Captain Scott Polar Research Institute. *Geog. J.*, LXVIII, 1926; *Ann. Geog.*, XXXVI, Jan. 1927; *Geog. Rev.*, XVI, Oct. 1926.

Section 34-1. Principal Polar Societies and Publications

34-1.1 *Annual Report, Friends of the Polar Institute.* Scott Polar Research Institute, Cambridge. Publ. since 1946-47.

34-1.2 *Arctic. Journal of the Arctic Institute of North America.* Arctic Institute of North America. Montreal and New York. Publ. since 1948. (Contains articles on the Antarctic.)

34-1.3 *Arctic Circular.* Ottawa. Publ. since 1948.

34-1.4 *Arctic Newsletter.* Arctic Institute of North America. Montreal and New York. Publ. since 1948.

34-1.5 *Arktis.* Gotha. Published 1928-1931.

34-1.6 *Bollettino Mensile D'Informazione* (Continued as *Il Polo.*) Istituto Geografico Polare Forlì. 1945.

34-1.7 *Byulleten Arkticheskogo Instituta.* Arkticheskogo Instituta. Moscow. (Bulletin of the Arctic Institute.)

34-1.8 *Il Polo.* (Continuation of *Bollettino Mensile D'Informazione.*) Istituto Geografico Polare. Forlì, Macerata. Published since 1945.

34-1.9 *The Journal of Glaciology.* The British Glaciological Society. London. Publ. since 1947.

34-1.10 *Little America Times.* (Continued as the *Polar Times.*) American Polar Society. New York, 1933-1935.

34-1.11 *Norsk Polarinstitutt Skrifter.* Oslo. (Continuation of *Norges Svalbard- og Ishavs Undersøkelser Skrifter.*)

34-1.12 *Polar-arboken.* Norsk Polarklubb. Oslo. (Polar Yearbook. Norwegian Polar Club.)

34-1.13 *Polarforschung.* Archiv für Polarforschung. Kiel, Germany. Publ. since 1930.

34-1.14 *The Polar Record.* Scott Polar Research Institute. Cambridge, Univ. Press. Publ. since 1931.

34-1.15 *Polar Times.* American Polar Society. New York. Publ. since 1938.

34-1.16 *Publications des Expéditions Polaires Françoises.* (Series commenced in 1948.)

34-1.17 *Tijdschrift van het Koninklijk Nederlandsch Aardrijkskundig Genootschap.* Koninklijk Nederlandsch Aardrijkskundig Genootschap. (Bulletin of the Royal Dutch Arctic Studies Association.)

34-1.18 *Trudy Vsesoyuznogo Arkticheskogo Instituta.* Arkticheskogo Instituta. Moscow. (Transactions of the Arctic Institute.)

34-1.19 *Zeitschrift für Gletscherkunde.* Internationale Gletscherkommission. Berlin. (Periodical for Glacial Science. International Glacier Commission.)

Section 34-2. Principal Geographic Societies and Publications

34-2.1 *Annales de Géographie.* Société de Géographie. Paris.

34-2.2 *Annals of the Association of American Geographers.* Association of American Geographers. Lancaster, Pa. (v. 27, 1937; 28, 1938; 29, 1939.)

34-2.3 *Australian Geographer.* Sydney.

34-2.4 *Bulletin of the American Geographical Society.* American Geographical Society. New York. (XXXIII, 1901; XXXVII, 1905; XXXVIII, 1906; XLI, 1909; XLIII, 1911; XLIV, 1912; XLVI, 1914.)

34-2.5 *Current Geographical Publications.* American Geographical Society. New York. Publ. since 1938. (Articles, maps, and photographs referenced in all issues.)

34-2.6 *Erdkunde.* Bonn. Publ. since 1947.

34-2.7 *Geographical Journal.* Royal Geographical Society. London. (I, 1893; II, 1893; III, 1894; IV, 1894; V, 1895; VII, 1896; IX, 1897; X, 1897; XI, 1898; XIII, 1899; XIV, 1899; XV, 1900; XVI, 1900; XVII, 1901; XVIII, 1901; XIX, 1902; XX, 1902; XXI, 1903; XXII, 1903; XXIII, 1904; XXIV, 1904; XXV, 1905; XXVI, 1905; XXVII, 1906; XXIX, 1907; XXXI, 1908; XXXII, 1908; XXXIII, 1909; XXXIV, 1909; XXXVI, 1910; XXXVII, 1911; XXXVIII, 1911; XXXIX, 1912; XL, 1912; XLI, 1913; XLII, 1913; XLIII, 1914; XLIV, 1914; XLV, 1915; XLVI, 1915; XLVII, 1916; XLVIII, 1916; XLIX, 1917; LI, 1918; LV, 1920; LVI, 1920; LVIII, 1921; LXI, 1923; LXII, 1923; LXIII, 1924; LXV, 1925; LXVI, 1925; LXVIII, 1926; LXXII, 1928; LXXIII, 1929; LXXIV, 1929; LXXV, 1930; LXXVI, 1930; LXXVII, 1931; LXXVIII, 1931; LXXIX, 1932; LXXX, 1932; LXXXI, 1933; LXXXII, 1933; LXXXIII, 1934; LXXIV, 1934; LXXXV, 1935; LXXXVI, 1935; LXXXVII, 1936; LXXXVIII, 1936; LXXXIX, 1937; XC, 1937; XCI, 1938; XCII, 1938; XCIII, 1939; XCIV, 1939; XCV, 1940; XCVI, 1940; XCVII, 1941.)

34-2.8 *Geographical Review.* American Geographical Society. New York. (XV, 1925; XIX, 1929; XX, 1930; XXI, 1931; XXII, 1932; XXIII, 1933; XXIV, 1934; XXVI, 1936; XXVII, 1937; XXX, 1940; XXXI, 1941.)

34-2.9 *La Géographie.* Bulletin de la Société de Géographie. (Subsequently combined with *Annales de Géographie.*) Paris.

34-2.10 *Geografiska Annaler.* Stockholm. Publ. since 1919.

34-2.11 *Geographical Magazine.* London.

34-2.12 *Geografisk Tidsskrift.* København. Publ. since 1877.

34-2.13 *Geography.* Geographical Association. London.

34-2.14 *National Geographic Magazine.* National Geographic Society. Washington, D. C. (VI, 1894; X, 1899; XXI, 1910; LVIII, 1930; LXII, 1932; LXVIII, 1935; LXX, 1936; LXXVI, 1939; 1947.)

34-2.15 *Norsk Geografisk Tidsskrift.* Oslo. (Continuation of *Norsk Geografiske Selskabs Aarbok.* Publ. since 1926.

34-2.16 *Norske Geografiske Selskabs Aarbok.* Oslo. (Continued as *Norsk Geografisk Tidsskrift.*)

34-2.17 *Petermanns Geographische Mitteilungen.* Gotha.

34-2.18 *Revista Chilena de Historia y Geografia.* Sociedad Chilena de Historia y Geografia. Santiago.

34-2.19 *Revista Geografica Americana.* Sociedad Geografica Americana. Buenos Aires.

34-2.20 *Scottish Geographical Magazine.* Royal Scottish Geographical Society. Edinburgh. (II, 1886; IV, 1888; V, 1889; X, 1894; XIV, 1898; XV, 1899; XVI, 1900; XVII, 1901; XVIII, 1902; XIX, 1903; XX, 1904; XXI, 1905; XXII, 1906; XXIII, 1907; XXIV, 1908; XXV, 1909; XXVI, 1910; XXVII, 1911; XXVIII, 1912; XXIX, 1913; XXX, 1914; XXXI, 1915; XXXII, 1916; XXXIII, 1917; XXXVI, 1920; XXXIX, 1923; XL, 1924; XLV, 1929; XLVI, 1930; XLVIII, 1932; LV, 1939.)

34-2.21 *Special Publications.* American Geographical Society. New York. (Nos. 7, 8, and 11.)

34-2.22 *Ymer.* Tidskrift, utgiven av Svenska Sällskapet för Antropologi och Geografi. Stockholm.

34-2.23 *Zeitschrift der Gesellschaft für Erdkunde.* Gesellschaft für Erdkunde.

Section 34-3. Other Publications

34-3.1 *Annalen der Hydrographie und Maritime Meteorologie.* Berlin.

34-3.2 *Annalen der Meteorologie.* (Continuation of *Annalen der Hydrographie und Maritimen Meteorologie.*) Hamburg.

34-3.3 *Annual Report of the Board of Regents of the Smithsonian Institution.* Washington, D. C. (1890; 1901; 1923; 1924, Publ. 1514; 1932, Publ. 3197; 1937, Publ. 3451; 1938, Publ. 3491.)

34-3.4 *Annual Report on the Falkland Islands and Dependencies.* London.

34-3.5 *Annual Report.* Oxford University Exploration Club. Oxford. (Continued as *Oxford University Exploration Club Bulletin.*)

34-3.6 *Årsberetning for de Meteorologiske Institutjoner i Norge.* Oslo. (Continuation of *Norske Meteorologiske Institutjoners Årsberetning.*)

34-3.7 *Bibliography of Meteorological Literature.* London. Publ. since 1922.

34-3.8 *Biblioteca del Jockey Club. Boletin Trimestral.* Buenos Aires. Publ. since 1935.

34-3.9 *Boletin del Museo Nacional de Historia Natural.* Santiago.

34-3.10 *Bulletin of the American Meteorological Society.* Lancaster, Pa.

34-3.11 *Bulletin of the Geological Society of America.* New York.

34-3.12 *Compte Rendu des Séances de l'Académie des Sciences.* Académie des Sciences. Paris. 1911, 1914.

34-3.13 *Deutsche Hydrographische Zeitschrift.* (Continuation of *Annalen der Hydrographie und Maritimen Meteorologie.*) Hamburg. Publ. since 1948.

34-3.14 *Explorers Journal.* New York.
34-3.15 *Fiskeridirektoratets Skrifter, Serie Havundersøkelser.* Bergen. (Continuation of *Report on Norwegian Fishery and Marine Investigations.*) Bergen.
34-3.16 *Hvalrådets Skrifter.* Scientific Results of Marine Biological Research. Oslo. Publ. since 1931.
34-3.17 *Hydrographic Review.* (Continued as *International Hydrographic Review*). Monaco. 1923–1946.
34-3.18 *International Hydrographic Review.* (Continuation of *Hydrographic Review.*) Publ. since 1947.
34-3.19 *Jahrbuch des Norwegischen Meteorologischen Instituts.* (Continued as *Norsk Meteorologisks Årbok.*) Oslo. 1920–1944.
34-3.20 *Jahresbericht.* Deutsches Hydrographisches Institut. Hamburg. Publ. 1947.
34-3.21 *Journal of the Institute of Navigation.* London. 1948.
34-3.22 *Marine Observer.* London.
34-3.23 *Meteorologiske Annaler.* Oslo. Publ. since 1942.
34-3.24 *Mitteilungen des Eidg.* Institutes für Schnee- und Lawinenforschung, Weissfluhjoch. Publ. since 1946.
34-3.25 *Nature.* American Nature Association. Washington, D. C. (VII, 1873; XLII, 1890; XLIX, 1893; LII, 1895; VII, 1899; LVII, 1898; LXI, 1900; CXXXII, 1933.)
34-3.26 *Norsk Geologisk Tidsskrift.* Oslo. Publ. since 1921.
34-3.27 *Norsk Hvalfangst-Tidende,* Sandefjord.
34-3.28 *Norsk Meteorologiske Årbok.* (Continuation of *Jahrbuch des Norwegischen Meteorologischen Instituts.* Oslo. Publ. since 1945.
34-3.29 *Norske Meteorologiske Institutjaners Årsberetning.* Oslo. (Continued as *Årsberetning for de Meteorologiske Institutjaner i Norge.*)
34-3.30 *Oxford University Exploration Club Bulletin.* (Continuation of *Annual Report,* Oxford University Exploration Club.)
34-3.31 *Proceedings of the American Philosophical Society.* American Philosophical Society. Philadelphia. (XLVIII, 1909; LXXIV, 1934; LXXXII, 1940.)
34-3.32 *Proceedings of the U. S. Naval Institute.* U. S. Naval Institute. Annapolis.
34-3.33 *Revista del Museo Argentino de Ciencias Naturales "Bernardino Rivadavia".* (Formerly *Anales del Museo Argentino de Ciencias Naturales "Bernardino Rivadavia"*). Buenos Aires.
34-3.34 *Science Naturelles.* Paris, Masson et Cie.
34-3.35 *Transactions of the American Geophysical Union.* Washington.
34-3.36 *Transactions of the American Philosophical Society.* American Philosophical Society. Philadelphia. (XXXI, 1932.)
34-3.37 *Transactions of the Royal Society of Edinburgh.* Royal Society of Edinburgh. (XXV, 1905; XLVII; XLIX, pt. IV; I, pt. IV, 1915; LII, pt. IV, 1921; LIII, pt. I, 1925.)
34-3.38 *Winterberichte des Eidg.* Institutes für Schnee und Lawinen forschung. Weissfluhjoch. (No. 11 published in 1949. Nos. 1–10 are not yet published.)

SECTION 35. AERIAL PHOTOGRAPHY

NOTE.—Official aerial mapping photography of the Antarctic is indexed on map appended to this manual.

35.1 **Shirley, Charles Curtis** Navy photography in the Antarctic. *Journal of Society of Motion Picture Engineers,* v. 52, no. 1. New York, 1949. 19–29. (Experiences during filming of Operation "Highjump", 1946–47.)

35.2 **Rosne, Finn** Antarctic mapping and aerial photography. *The Scientific Monthly,* v. 71, no. 5, Nov. 1950. 287–293. Map.

SECTION 36. MOTION PICTURE PHOTOGRAPHY

Section 36–1 Official Motion Picture Film

36–1.1 Army Signal Corps. A and N Screen Magazine, no. 69, 1947. *Antarctic expedition.* 16-mm., black and white, sound, 18-minute running time. Official. (Expedition activities of Task Force 68 Highjump Expedition, 1946–47. Originally classified restricted, now available for general use.)

36–1.2 Army Signal Corps. *Japanese Antarctic Whaling Expedition, 1947–48.* Finished film, 35-mm., black and white, silent, with some titles, 48-minute running time. Official. (Expedition's activities in whaling as seen by the Supreme Commander Allied Powers' official observer, Lt. Col. Walden Winston, U. S. A.)

36–1.3 Dept. of Interior, Fish and Wild Life Service, Office of Foreign Activities. *Antarctic wild life.* 1200', 16-mm., Kodachrome, silent; 2 duplicate prints. Official. (Principally from Dr. Gilmer's original film taken on Task Force 68, filled in by short scenes from U. S. Antarctic Service film.)

36–1.4 International Harvester Co. *U. S. Antarctic Service Exp. 1939–41.* 1 reel, 16-mm., Kodachrome, sound narration; made from 2,000' uncut film. Official.

36–1.5 International Harvester Co. *U. S. Antarctic Service Exp. 1939–1941.* 2000' of Kodachrome, 1600' of black and white, all 16-mm., silent; originals. Official. (P. A. Siple has duplicate print.)

36–1.6 Metro-Goldwyn-Mayer. *The secret land.* A record of Task Force 68, 1946–47. 16- or 35-mm., technicolor, sound narration, 78-minute running time. Original in MGM vault. Copies at 35-mm. available from MGM; 16-mm. copies available through MGM, or for official military government use through U. S. Navy Dept. of Public Relations. Commercial.

36–1.7 National Archives. *Ellsworth Trans-Antarctic Expedition, 1935–36.* 4303', 35-mm., black and white, silent, 5 reels. Gift from National Geographic Society. Official.

36–1.8 National Archives. *Byrd expeditions.* 380,000' of unedited and uncut 35-mm., black and white, silent. Includes negatives, small amount of positives and lavender tint. Subjects include complete coverage of first and second Byrd Antarctic expeditions, Byrd trans-Atlantic flight, and Byrd North Pole flight. Filed in 664 1000' cans. Gift of R. Adm. Byrd. Official.

36–1.9 National Archives. *U. S. Antarctic Service Exp. 1939–41.* 67,200', 35-mm., black and white, silent, 84 reels; 7,200', 16-mm., black and white, silent, 18 400' reels; 100', 16-mm., black and white, silent, 1 reel; and 2000', 16-mm., color, 5 400' reels, entitled *Antarctica.* (All expedition activities.) Original given to National Archives by Dept. of Interior. Location of copies unknown.

36–1.10 U. S. N. Photographic Center. *Task Force 68, Operation Highjump, 1946–47.* 178,850' of black and white, 35-mm., silent; 68,850' of Kodachrome, 16-mm., silent. Covers all expedition activities. Classified and unclassified. Original and one copy at U. S. N. P. C. Official. Divided as follows:

Group	*Black and white*	*Kodachrome*
Central	120,700'	41,400'
Eastern	37,400'	7,850'
Western	20,750'	19,600'

36–1.11 U. S. N. Photographic Center. *Task Force 68 news release.* 35-mm., black and white, sound, 2 reels, 20-minute running time; unclassified. Composed of excerpts from CTF 68 *Report to SecNav,* confidential, and from other CTF 68 footage. Official.

36–1.12 U. S. N. Photographic Center. *Commander, Task Force 68 film report to SecNav.* 35-mm., black and white, sound, 4 reels, 40-minute running time. CTF 68 activities. Original and one copy at U. S. N. P. C. Confidential. Official.

36–1.13 U. S. N. Photographic Center. *Task Forces 39, 1947–1948.* 1700' of black and white, 35-mm., silent; 38,050' of Kodachrome, 16-mm., silent. All expedition activities. Original and one copy at U. S. N. P. C. Some portions classified. Official.

Section 36–2. Selected Personal Motion Picture Film

36–2.1 **Davis, Robert** (U. S. Air Force) See P. A. Siple, *Task Force 43.*

36–2.2 **Davis, Malcolm** (National Zoological Park) *General Task Force 39 activities, particularly wild life.* 700' black and white, 200' color, 16-mm., silent; original film. Personal.

36-2.3 **Dawley, F.** (U. S. Navy) *Task Forces 68 and 69.* Considerable 16-mm. Kodachrome silent footage on both expeditions, with particular emphasis on ice-breaking and *U. S. S. Burton Island.* Personal.

36-2.4 **Eckland, Carl** (Fish and Wild Life Service) *U. S. Antarctic Service 1939-41.* 1800' of Kodachrome, 150' of black and white, 16-mm., silent; original film. Main portion taken at East Base; 300' on sledge trip through George VI Sound, including views of Alexander I Island and Wordie Ice Shelf. Small amount of West Base cargo-handling and local topography. Personal.

36-2.5 **Frazier, Russell G.** (Bingham Canyon, Utah) *U. S. Antarctic Expedition 1939-41.* 1600', 16-mm., concerning West Base activities. Personal.

36-2.6 **Gilmer, Raymond** (National Museum) *Task Force 68, 1946-47.* 800' 16-mm. Kodachrome, silent; original film. Antarctic wild life, and expedition activities. Dept. of Interior may have 2 duplicate copies. Personal.

36-2.7 **Krause, Glenn** (U. S. Hydrographic Office) *Task Force 68, 1947-48.* 2000' of Kodachrome, 200' of black and white, all 16-mm., silent; original film. Extensive coverage of expedition activities; particular emphasis on shore activities, including Bunger Lakes, Knox Coast, and on *U. S. S. Edisto.* Personal.

36-2.8 **Ronne, Finn** (Washington, D. C.) *Ronne Antarctic Research Expedition, 1947-48,* 16-mm., black and white, silent; original film. Duplicate at U. S. N. Photographic Center is not available for general use. Mr. Ronne also has 16-mm. color photography of an undetermined amount. Personal.

36-2.9 **Roscoe, John H.** (U. S. N. Photographic Interpretation Center) *Task Force 68, 1947-48.* 1200', 16-mm., Kodachrome, silent; original film. Subjects cover all phases of expedition, emphasizing activities of *U. S. S. Burton Island*, geographical exploration, shore parties, etc. Personal.

36-2.10 **Siple, Paul A.** (Dept. of the Army) *U. S. Antarctic Service Exp. 1939-41.* 2000' of Kodachrome, 1600' of black and white, all 16-mm., silent; print. Originals at International Harvester Co. Personal.

36-2.11 **Siple, Paul A.** (Dept. of the Army) *Task Force 68, 1946-47.* 2500', 16-mm. Kodacolor, silent. Combined films of P. A. Siple; Capt. Murray Wiener, U. S. Air Force; and Dr. Robert Davis, U. S. Air Force, Strategic. Each of these persons has copy print; U. S. Navy also has copy print. Personal.

36-2.12 **Wiener, Murray** (U. S. Air Force) See P. A. Siple, *Task Force 68.*

SECTION 37. STILL PHOTOGRAPHY

Section 37-1. Official Still Photography

Note: These references are representative collections of still photography. The listing is not intended to be complete.

37-1.1 **American Geographical Society.** Has on file collections of photography from *Ellsworth's Trans-Antarctic Exp.* and *Ellsworth's American Highlands Exp.*; also some photography from the *Byrd expeditions.*

37-1.2 **American Geographical Society.** *Current Geographical Publications*, published monthly by the Society, contains a listing of all photographs of the Antarctic received by the library during the month, including illustrations in books and periodicals.

37-1.3 **Armed Forces Photo Co.** Has 11" x 14" album of *Operation Highjump, U. S. Naval Antarctic Exp. 1946-1947.* Contains 100 black and white glossy prints, 4" x 5", with captions. Photos are official Navy releases. (Obtainable at Armed Forces Photo Co., 2001 "O" St., Washington, D. C. $8.00)

37-1.4 **National Archives.** *First and Second Byrd Expeditions.* Black and white ground stills and 18 cans of aerial mapping film, including that of Capt. McKinley. Gift from Admiral Byrd. Unclassified.

37-1.5 **National Archives.** *U. S. Antarctic Exp. 1939-1941.* 13,575 black and white 7" x 7" aerial negatives, catalogued; 5,035 black and white 4" x 5" and 5" x 7" ground negatives of expedition activities; and 6,006 prints of expedition activities, with some duplication. Unclassified.

37-1.6 **Ronne, Finn** (Washington, D. C.) Official still photography from *Ronne Antarctic Research Expedition*, not including the aerial negatives. Unclassified.

37-1.8 **U. S. Navy Dept., Office of Public Relations.** *U. S. N. Task Force 68 (Operation Highjump), 1946-1947* and *U. S. N. Task Force 68, 1947-1948 Expeditions.* Collection of expedition activities photography. For public release. Unclassified.

37-1.9 **U. S. Naval Photographic Center.** Has all official negatives of *U. S. N. Task Force 68 (Operation Highjump), 1946-1947* and *U. S. N. Task Force 68, 1947-1948 Expeditions*, as follows: Task Force 68—6000 black and white negatives, and 787 color transparencies; Task Force 39—3,124 black and white negatives, and 1,159 color transparencies. Classified and unclassified. Also, approximately 70,000 aerial mapping negatives resulting from Task Forces 68 and 39 expeditions; classified.

37-1.10 **Wilkins, Hubert** Retains control of photography taken on the *Wilkins-Hearst 1928-1929 and 1929-1930 Expeditions.* (Can be contacted through American Geographical Society.)

37-1.11 **Roscoe, John H.** (U. S. N. Photographic Interpretation Center) *Regional photographic interpretation series, Antarctica, Volume I* (in preparation). Washington, D. C., U. S. N. Photographic Interpretation Center, 1949. Contains numerous aerial stereograms and ground photographs, complete with interpretation, of most known sectors of the Antarctic.

Section 37-2. Selected Personal Still Photography

Note: These references are representative collections of still photography. The listing is not intended to be complete.

37-2.1 **Apfel, Earl T.** (Syracuse Univ.) *Task Force 68.* Numerous 35-mm. Kodaslides, including shore party and geological subjects. Personal.

37-2.2 **Bryant, Howil** *U. S. Antarctic Service Exp. 1939-1941.* An undetermined amount of black and white negatives and color transparencies. Personal.

37-2.3 **Eckland, Carl** (Fish and Wild Life Service) *U. S. Antarctic Expedition, 1939-1941.* 250 black and white 35-mm. negatives. Personal.

37-2.4 **Gilmer, Raymond** (National Museum) *Task Force 68.* 75 black and white negatives, 4" x 5". Some 35-mm. black and white negatives, all covering various expedition activities. Personal.

37-2.5 **Krause, Glenn** (U. S. Hydrographic Office) *Task Force 68.* 500 35-mm. Kodaslides; 800 35-mm. black and white negatives; and 200 #620 black and white negatives. Photography includes shore party activities and surveying. Personal.

37-2.6 **Ronne, Finn** (Washington, D. C.) *Second Byrd Expedition, U. S. Antarctic Service Expedition, and Ronne Antarctic Research Expedition.* Black and white negatives and color transparencies. Personal.

37-2.7 **Roscoe, John H.** (U. S. N. Photographic Interpretation Center) *Task Forces 68 and 39.* 450 Kodaslides, and 500 black and white photos of various sizes. Show expedition activities, particularly those of geographic interest. Personal.

37-2.8 **Siple, Paul A.** (Dept. of the Army) Mixed photography from four expeditions: *First and Second Byrd Exp.'s, U. S. Antarctic Service Exp.*, and *Task Force 68.* Includes 1000 black and white negatives not in other collections, and 400 Kodachrome slides. Personal.

37-2.9 **Winston, Waldon** (U. S. Army) *Japanese Antarctic Whaling Exp., 1947-1948.* 500 Kodaslides of whaling and expedition affairs, and an equivalent amount of black and white still photos. Personal.

Section 37-3. Selected Published Photographs

Note: This listing is merely representative of the types of Antarctic photography available in published sources. A complete listing of such photography would contain several thousand items.

37-3.1 *National Antarctic Expedition 1901-1904.* Photos and sketches. Panoramas. London, 1908. (Volume of the most interesting photos of the expedition, including the first aerial photos of Antarctica.)

37-3.2 **Wright, C. S. and Priestley, R. E.** *Glaciology. British Terra Nova Expedition, 1910-1913.* London, 1922. (Includes 800 photos taken in the vicinity of the Ross Shelf ice, Antarctica.)

37-3.6 **Scott, James Maurice.** *The polar regions; an anthology of Arctic and Antarctic photographs.* London, Chatto and Windus, 1934.

37-3.4 **Fairgrieve, J.** *Black's geography pictures, Set 5: The West Indies, Central and South America, Antarctica.* London, 1934.

37-3.5 **Stembridge, J. H.** Whaling fleet, South Georgia Island. In: *The world; a general regional geography.* Oxford, 1939. Photo, opp. p. 464.

37-3.6 **Balleny Island, Antarctica.** *G. J.*, XCVII, 4. London, April 1949. p. 207. Two photos. (Young Island and Buckle Island.)

37-3.7 **Bouvet Island, Antarctica.** *G. J.*, XCVII, 4. London, April 1941. p. 211. Photos.

37-3.8 **Drygalski, Erich v. and Machatschek, Fritz** Glaciers, Antarctica. In: *Gletscherkunde.* Vienna, Deuticke, 1942. Pl. 1, at end. Two photos.

37-3.9 **Antarctica.** *Australasian Antarctic Exp. 1911-1914. Scientific Reports.* Series A, v. 1. Sydney, Govt. Printer, 1942. Photos. (Pl. LXXXII, Garnet Point; LXXIV and LXXV, Horn Bluff; V, Aerial Cove; XXX, Cape Hunter; IV, Caroline Cove; LIII and LXIII, Commonwealth Bay; XII, Cape Denison; LXX, King George Land coastline; LXX and LXXVI, Penguin Point; XXXII, Way Archipelago; XXXI, Mertz Glacier Tongue CXVI and CXVII, Macquarie Is.)

37-3.10 **Great Ross Barrier, Antarctic.** *G. M.*, v. 15, no. 8. London, Dec. 1942. p. 349. Photos.

37-3.11 **Ice, Antarctic.** *G. M.*, v. 15, no. 8. London, Dec. 1942. 342-343, 345, and 348. Five photos. (Pancake ice, pack-ice, ice floes, and icebergs.)

37-3.12 **Peltier Channel, North Graham Land, Antarctica.** *G. M.*, v. 15, no. 8. London, Dec. 1942. p. 341. Photos.

37-3.13 **Rozemer, K. W. L.** Mt. Lister, Antarctica. In: *Der Kampf um den Südpol, die Schicksale der grossen Südpolexpeditionen.* Zurich, 1948. Opp. p. 97.

37-3.14 **English, R. A. J.** U. S. Hydrographic Office Sailing directions for Antarctica, *H. O. No. 138.* Washington, D. C., 1943. (Contains many coastal photos and aerial photos in all sectors of the Antarctic.)

37-3.15 **Evans, Edward** Whaling station, South Georgia, Antarctic. In: *Heroes of polar explorers.* London, 1943. p. 45. Photo.

37-3.16 **Macquarie Island.** *Australasian Antarctic Exp. 1911-1914. Scientific reports.* Series A, v. 5. Sydney, Govt. Printer, 1943. 58 photos. (Photos showing physiographic features.)

37-3.17 **Whybrow, S. J. B. and Edwards, H. E. (ed.'s)** Latin American (II) Nos. 81-82. In: *Hurrap's geography picture summaries, Set 16.* London, 1944. Two photos. (Photos of a whaling station in South Georgia, and Wiencke Islands.)

37-3.18 *P. of the American Philosophical S.*, v. 89, no. 1. April 1945. (Contains numerous ground and aerial photos of the Antarctic.)

37-3.19 **Whaling ships, Antarctic.** *Crown Colonist*, v. 16, no. 181. London, Dec. 1946. 886-887. Three photos. (The *Trepassey* and the whale factory ship *Balaena.*)

37-3.20 **Antarctica.** *Life*, v. 20, no. 9. Sept. 1, 1947. p. 45. (Aerial photos in color showing the supposed ice-free lakes.)

37-3.21 **Antarctica.** *National G. M.*, v. 92, no. 4. Oct. 1947. 429-522. (Numerous photos, some aerial and some in color, of the U. S. Navy Task Force 68 expedition.)

37-3.22 **British whaling expedition, Antarctica.** *Crown Colonist*, v. 180, no. 17. London, April 1947. 220-221. Three photos. (Ships and whales.)

37-3.23 **Deception Island, Antarctica.** *Crown Colonist*, v. 17, no. 184, March 1947, pp. 168, 169; v. 18, no. 197, April 1948, p. 214. (Two photos, one showing Feldes Point.)

37-3.24 **Hope Bay, Graham Land, Antarctica.** *Crown Colonist*, v. 17, no. 184. London, March 1947. p. 169. (Photos showing a camp site.)

37-3.25 **Lakes, Antarctica.** *U. S. Naval I. Proceedings*, v. 73, no. 532. Annapolis, June 1947. p. 728. (Aerial photos of ice-free lakes.)

37-3.26 **Leith Harbor, South Georgia.** *Canadian G. J.*, v. 35, no. 6. Ottawa, June 1948. Pp. 286, 292. Two photos.

37-3.27 **Mt. William, Port Lockroy, Antarctica.** *Crown Colonist*, v. 17, no. 184. London, March 1947. p. 168. (Photos from Goudier Islet.)

37-3.28 **Pyramid Peak, Hope Bay, Graham Land.** *Canadian G. J.*, v. 35, no. 6. Ottawa, June 1948. p. 282. Photo.

37-3.29 **Ronne Antarctic Research Expedition.** *G. Rev.*, v. 38, no. 3. July 1948. 360-379. (Numerous photos, many aerial, of landmarks and physical features in Antarctica.)

37-3.30 **Wiencke Island, Palmer Archipelago.** *Canadian G. J.*, v. 35, no. 6. Ottawa, June 1948. p. 291. Two photos.

37-3.31 *The Antarctic pilot.* 2d ed. London, British Admiralty, 1948. 370 pp. (Contains numerous island and mainland photos, including the coasts of Antarctica and all islands southward of the usual route of vessels.

37-3.32 **Saunders, Alfred** *A camera in Antarctica.* London, Winchester Publications, 1950. 160 pp. Map.

SECTION 38. MISCELLANEOUS

38.1 **Wytfliet, C.** Australis terra & Chica. In: *Descriptionis Ptolomaica augmentum, sive Occidentis notitia brevi commentario.* Lovanii, typis Johannis Bogardi, 1597. N° 2.

38.2 **Campbell, A.** Sequel to Bulkeley and Cummin s Voyage to the South Seas; or the Adventures of the Gentlemen belonging to the Wager. London, 1747.

38.3 **Hammelmann's** Nik. als Nachfolger Nil Stairs, merkwürdige Reisen nach dem orientalischen Ocean und unter den Südpol. [Ist eine Erdichtung.] 2. Aufl. Erfurt, 1747.

38.4 **Helmesby, J.** Voyage and Adventures to the Southern Ocean 1787. London, 1787.

38.5 **Fitz Gerald, W.** An Ode to the Memory of the late Captain James Cook. London, 1780.

38.6 **Seward, A.** Elegy on Captain Cook; a poem. London, 1817.

38.7 Naturgemälde der neuentdeckten Polar- und Tropenländer. 2 Bde. Brunn, 1819.

38.8 **Körber, P.** Das Eismeer, Indien und die Südsee. Erzählungen für die Jugend. 4 Lief. Mit 3 Stahlstichen. Jugendbibliothek. Nürnberg, 1848.

38.9 A Tale of Isle St. Andrew (Antarctic America). *Nautical Mag.* London, 1844, 669-671.

38.10 **Llagg.** Nordpol und Südsee. Gedichte. 3. Auflage. Stuttgart und Augsburg, 1857, 168 pp.; 4. Auflage, 1860; 5. Auflage, 1865.

38.11 **Palmer, J. C.** *Antarctic Mariner's Song.* Illustr. New York, 1868.

38.12 **Hartwig, G.** Polar world; a popular description of man and nature in the Arctic and Antarctic regions of the globe. New York, 1869.—Polar and tropical worlds. Springfield, Mass., 1876.

38.13 **Kingston, W. H. G.** At the South Pole, or the adventures of R. Pengelley. With pl. London, Cassell, 1870.

38.14 **Haug's** Menschen des südpolaren Erd-Innern. *Globus.* Braunschweig, XXI (1872), 160.

38.15 **Wood, C. F.** Yachting Cruise in the South Sea. With 6 Photogr. illustr. London, King, 1875.

38.16 **Campion, H.** The secret of the Poles. Illustrated by an original physical Map of the earth in Space: showing approximatively the thickness of its crust, its complete hollowness, both polar openings, the Antarctic and Arctic atmospheres, the entrance of the etheral meteoric matter, and both Auroras. Birmingham, White & Pike, 1898, 48 pp.

38.17 **Umlauft, W.** Au pôle sud en ballon. Adapté du polonais par MM. Hellé. Ouvrage illustré de 72 gravures d'après les dessins de Liéger. VII-245 pp. Paris 1898 (?) S. n. d'éd. et de libr.

38.18 **Le Pôle Sud.** Aventures sur le Continent antarctique. Traduit de l'anglais par Harold. *Bibliothèque des familles et des maisons d'éducation.* Tours, libr. Mame et fils, 1898, 368 pp.

38.19 **Bullen, F. T.** The Lonely antarctic. *Leisure Hour.* London, XLVIII (April 1900), 507.

38.20 **Savile, F.** Beyond the great South wall: a tale of adventure in the antarctic continent; illustr. by Rob. L. Mason. New York, 1901, New Amsterdam Book C°.

38.21 **Savile, F.** Beyond the great South wall: Being some surprising details of the voyage of the S. Y. "Raccon" as reported by her owner, John, Viscount Heatherslie. London, S. Law, 1901 (?), 302 pp.

38.22 **Lebasejl', E.** Cudesa poljarnago mira (Die Wunder des Polargebietes) (Übersetst von E. Kostko). 2 Aufl. 288 pp. St-Peterburg, 1902, Sojkin.

38.23 **Stokes, F. W.** An artist in the Antarctic. *Century Mag.* New York, 1903, 521–528. Ill. & map.

38.24 **K(linckowström), A.** Urjagtjournalen. 2. Ett besök i en pinguinkolonI. *So. Jägarf. Tr.* Stockholm, 42 (1904), 77–86, 1 pl.

38.25 **Enzensperger, J.** Ein Bergsteigerleben. Eine Sammlung von alpinen Schilderungen nebst einem Anhang, Reisebriefe und Kerguelen-Tagebuch. Hrsg. vom Ak. Alpenverein München. München, Kommissionsverlag der Vereinigten Kunstanstalten (1905), xv–276.

38.26 **Stokes, F. W.** Color in the North and South Polar Regions. *Rep. 8 International G. C. held in Washington U. S.* 1905, 711–714.

38.27 **Murray, James and Marston, George** *Antarctic days; sketches of the homely side of polar life by two of Shackleton's men.* London, Andrew Melrose, 1913.

38.28 *Life* in the Antarctic. *National G. M.*, v. 42. Dec. 1922. 655–662.

38.29 **Bolsche, Wilhelm** *Von Drachen und Zauberkünsten, Abenteuer aus dem Kampf mit dem Unbekannten in der Natur.* Jungend- und Volksausgabe. Jena, E. Diederichs, 1925.

38.30 **Snell, Roy Judson** *Ice-bound in the south polar seas.* Fiction for boys. Chicago, A. Whitman and Co., 1925. 255 pp.

38.30a **Gibbs, Wolcott** *Bird life at the pole.* New York, 1931. 171 pp. (Burlesque of the first Byrd expedition.)

38.30b **Rose, M. I.** (ed.) *South of zero; the journal of John Hale Meridith while with the Clark-Jamison Antarctic Expedition of* 191– to 191–. New York and London, 1931. 280 pp. (A burlesque.)

38.31 **Kerr, Lennox** *Ice.* London, Lane, The Bodley Head, Ltd., 1933. (Fictional.)

38.32 **Bodman, Gaste** Dagligt liv i sydpolartrakter for 80 år sedan; overvintringen 1902–03. *Jorden Runt*, arg. 7. April 1935. 169–193.

38.33 **Walden, Jane and Paine, Stuart** *The long whip.* London, Chapman and Hall, 1937. 240 pp., photos. (The story of a husky at Little America with the second Byrd expedition. Semi-fiction.)

38.34 Society's special medal is awarded to Dr. Thomas G. Poulter: Admiral Byrd's second-in-command and senior scientist is accorded high geographic honor. *National G. M.*, v. 72. July 1937. 103–103.

38.35 **Ommanney, F. D.** *Below the roaring forties.* New York, Longmans, Green and Co., 1938. 308 pp. Also published under title of *South latitude.* London, 1938. (Descriptions of life and adventures during several expeditions to the Antarctic, primarily during the expedition of the *Discovery II* in the early thirties.)

38.37 **Bertram, C.** Life at the poles of the earth. *Sc. Digest*, v. 7. April 1940. 7–18.

38.38 **Devold, Hallvard Ophus** *Polarliv.* Oslo, Gyldendal Norsk Forlag, 1940.

38.39 **Saunders, Alfred** Adventures in the Antarctic. *Geogr. M.*, v. 12, no. 2. London, Dec. 1940. 118–131. (A brief sketch of life on South Georgia and aboard the *Discovery II* for 15 years.)

38.40 **Vikestad, Arnt** Dodging a German raider. *Yachting*, v. 72, no. 2. Aug. 1942. 27–28, 60. (Norwegian whalers in the Antarctic.)

38.40a **Marrier, Guillemette** *La ridondaine aux Kerguelen et la belle Louison.* Paris, Librairie Plon, 1945. (An historical romance. Based on the letters and journals of Jacques-Marie Marrier de la Gatinerie concerning Kerguelen's expedition of 1773–74 on which he was a junior officer, and on the official records of Kerguelen's trial in 1775.)

38.41 **Schmidt, C. W.** Beswinger des Südpols. *Junge Welt*, Heft 1. Walhstadt bei Heidelberg, Verlag Kemper, 1945.

38.42 **Henry, Thomas R.** Antarctic fairyland. *Saturday Evening Post*, v. 219, no. 45. May 10, 1947. 36–37. (U. S. N. Antarctic Expedition 1947.)

38.43 **McCarthy, O.** Dead men's diary. *Saturday Evening Post*, v. 219. May 17, 1947. 15–17.

38.44 **Sparks, F.** Icebergs bear down. Edited by E. P. Morgan. *Collier's*, v. 119. June 14, 1947. 12–13.

38.45 **Blakeslee, A. L.** Ice dooms Little America. *Sc. Illus.*, v. 3. April 1948. 40–47, 80–81.

38.46 **Murphy, Grace E. Barstow** A naturalist's wife in the sub-Antarctic. *Natural History*, v. 57, no. 8. Oct. 1948. 344–349, contd.

38.47 **Morris, A.** The coldest spot. *Fantastic Adventure*, v. 11, no. 2. Feb. 1948. 148–149.

38.48 **Pirie, J. H. Harvey** *Antarctic posts and stamps.* London, 1949, 71 pp., map. (A stamp-collecting handbook.)

38.49 **Ronne, Edith** Woman in the Antarctic, or the human side of a scientific expedition. *Appalachia*, v. 28, no. 1, Jun. 1950, 1–15.

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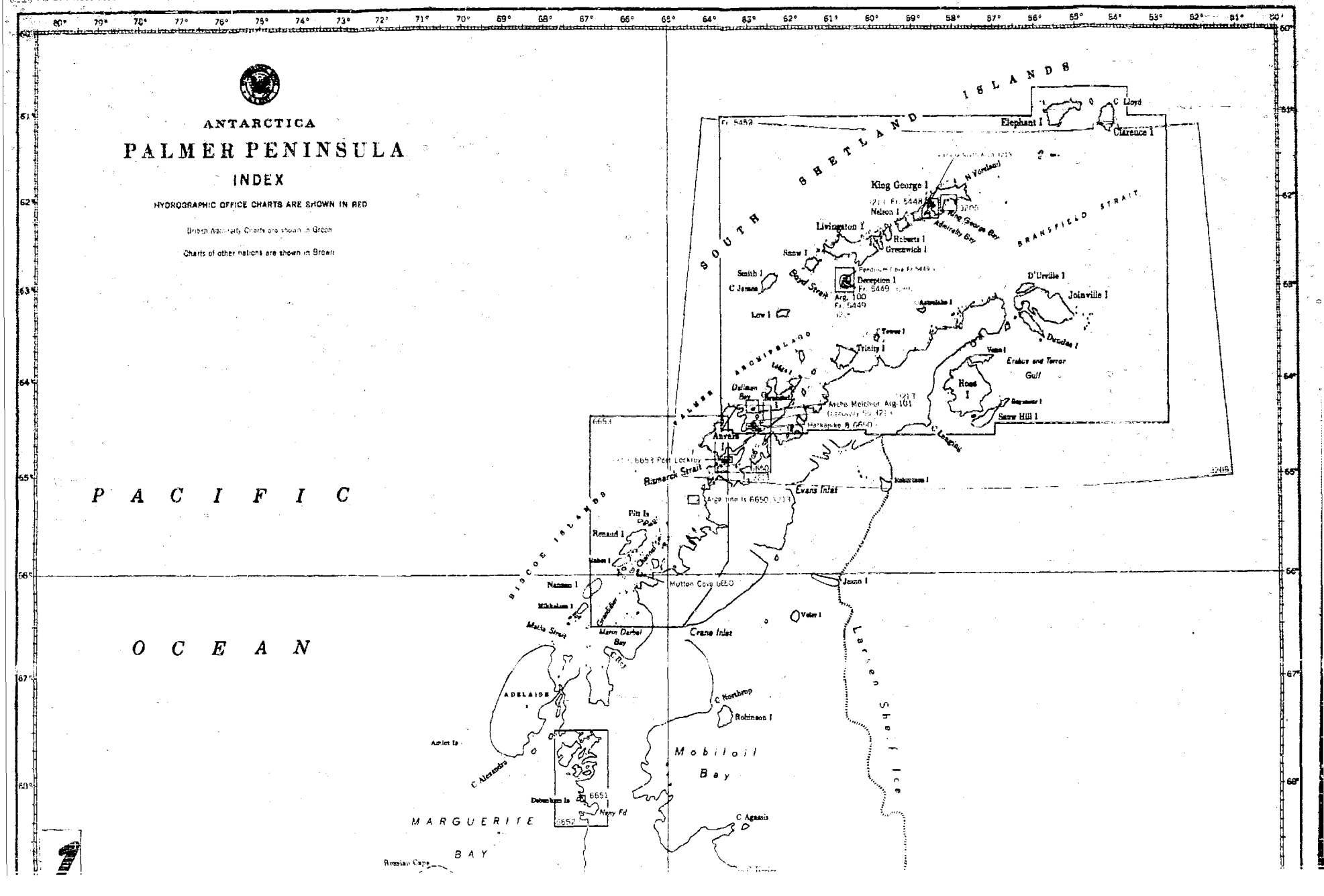
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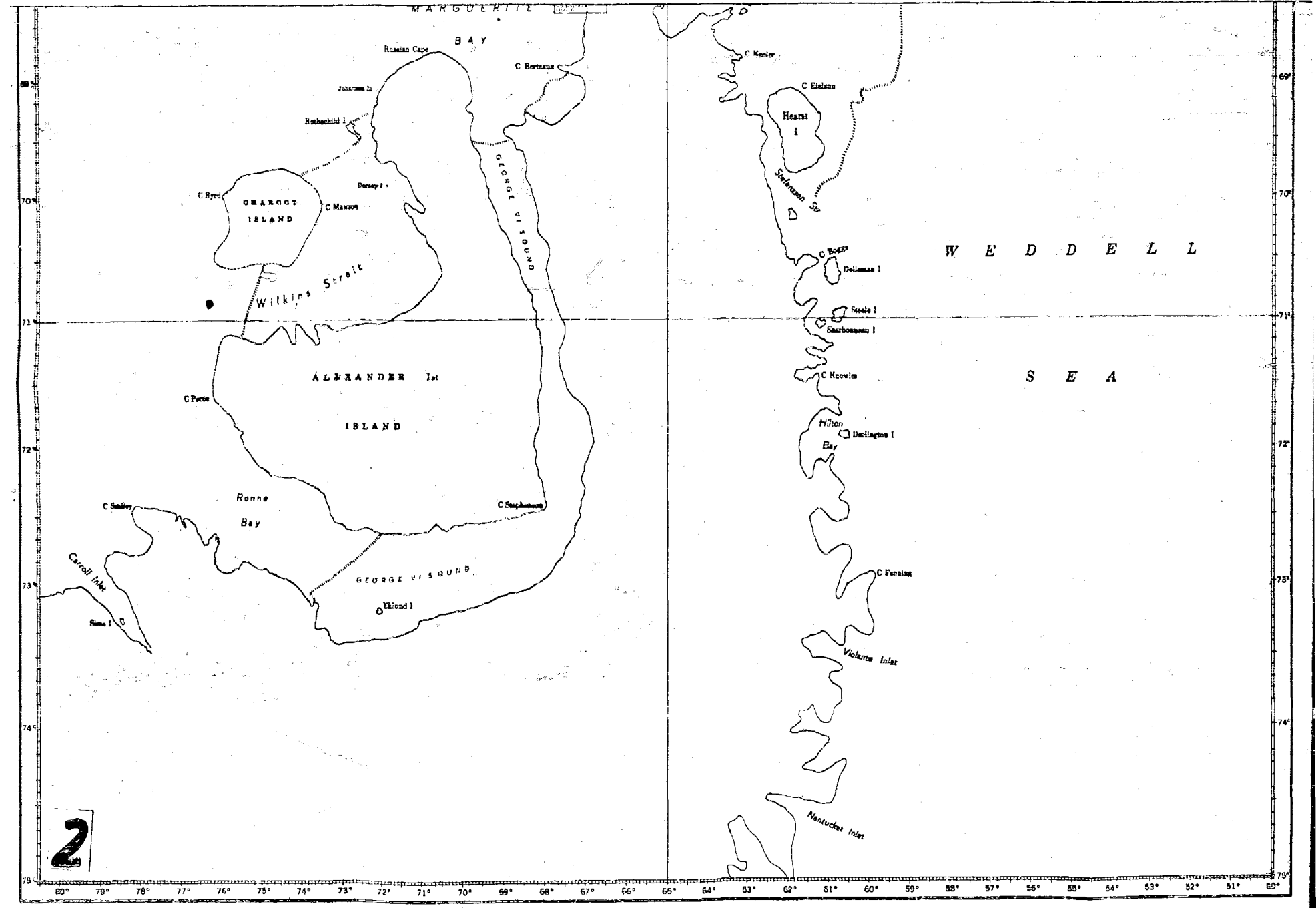
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Wuorinen, J. H. (29.19c)
Wüst, G. (18.117a, 118b, 125a, 125b, 133, 134, 136) (29.209a) (25.50b)
Wyllie, W. L. (23–69.20)
Wyman (29.52)
Wytfliet, C. (23.1)
Wyville, C. (23–29.17)
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Zahony, R. von (4.146)
Zatta, A. (20.19)
Zavatti, S. (23.33; (29.55)
Zedtwitz, F. X. (23.347a)
Zeidler, P. G. (18.115)
Zelinka, C. (K.) (4.171, 252)
Zero (19.10) (23.148)
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Zirkel, F. (12.16) (18.66)
Zoudervan, H. (16.24)
Zubov, N. M. (25.71)
Zuhn, A. (8.147)
Zumino, P. (23.149)

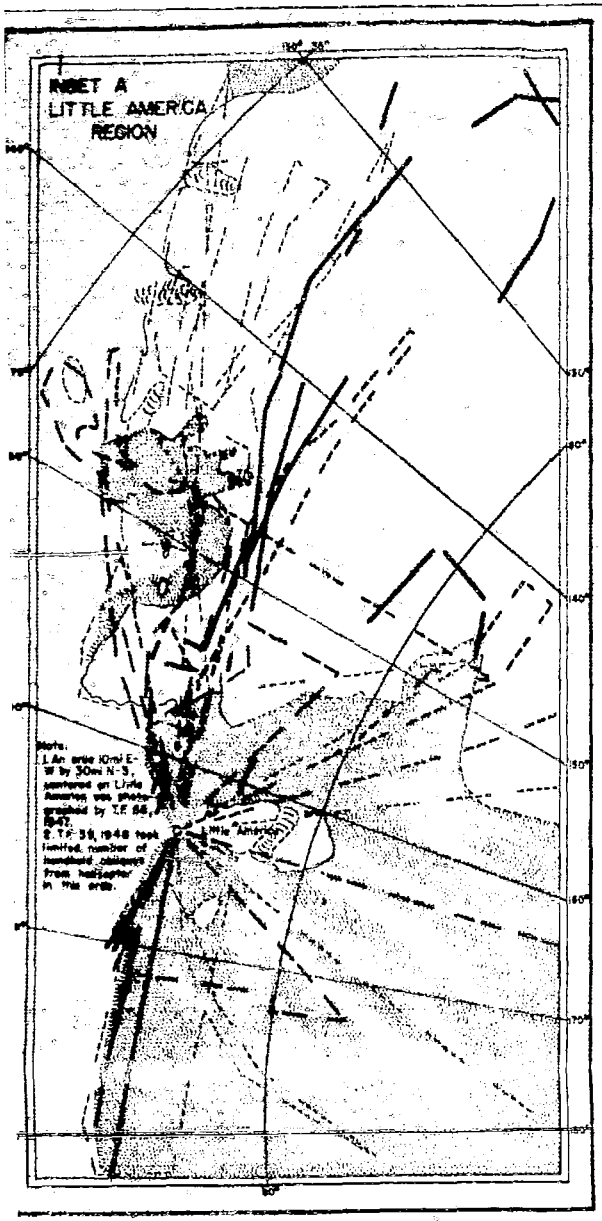
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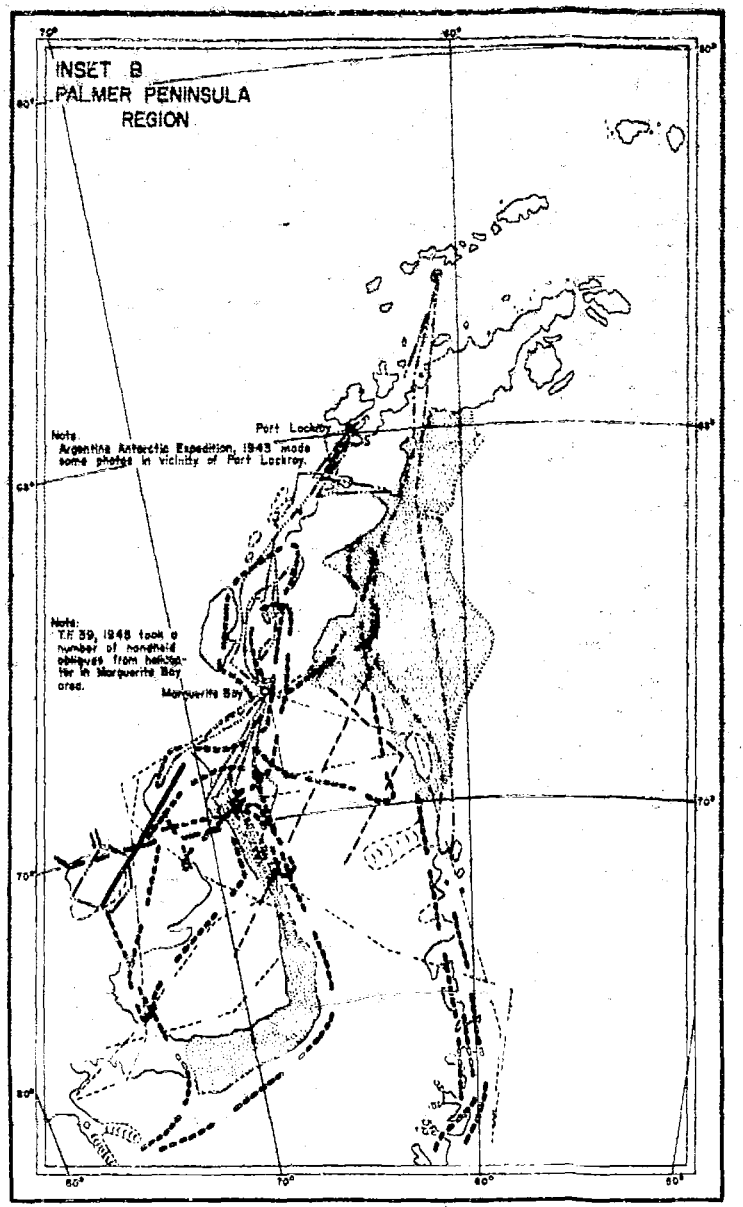


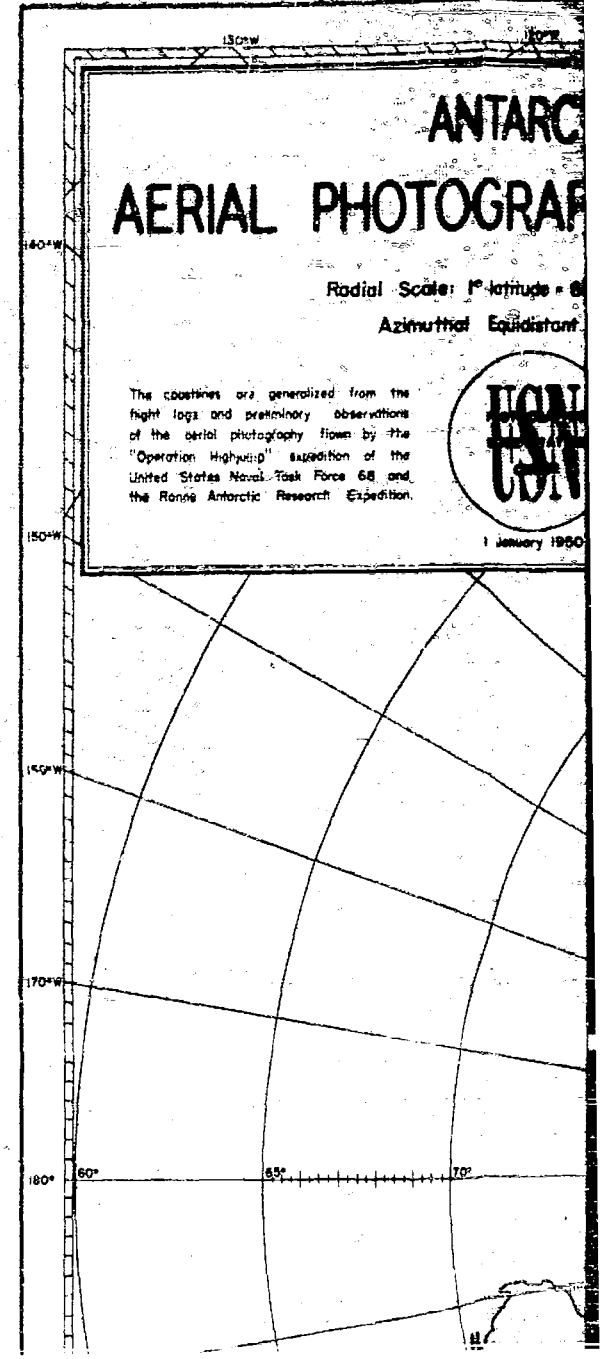


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H.O. Misc. No. 17040-1



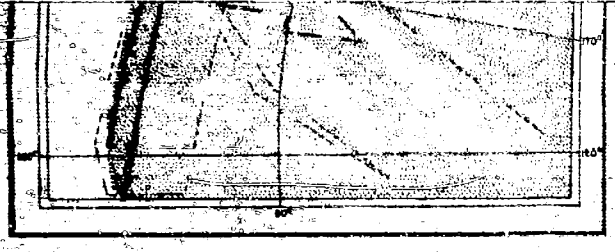


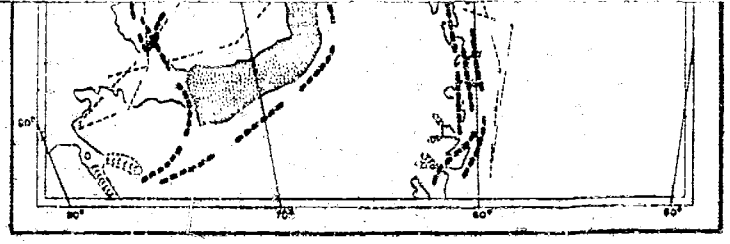


LEGEND

SYMBOL GROUPINGS BY NATIONALITY

BRITISH COMMONWEALTH——Dash-Dot Combinations
GERMAN——Line and Cross Combinations
NORWEGIAN——Dot Combinations
UNITED STATES——Dash Combinations



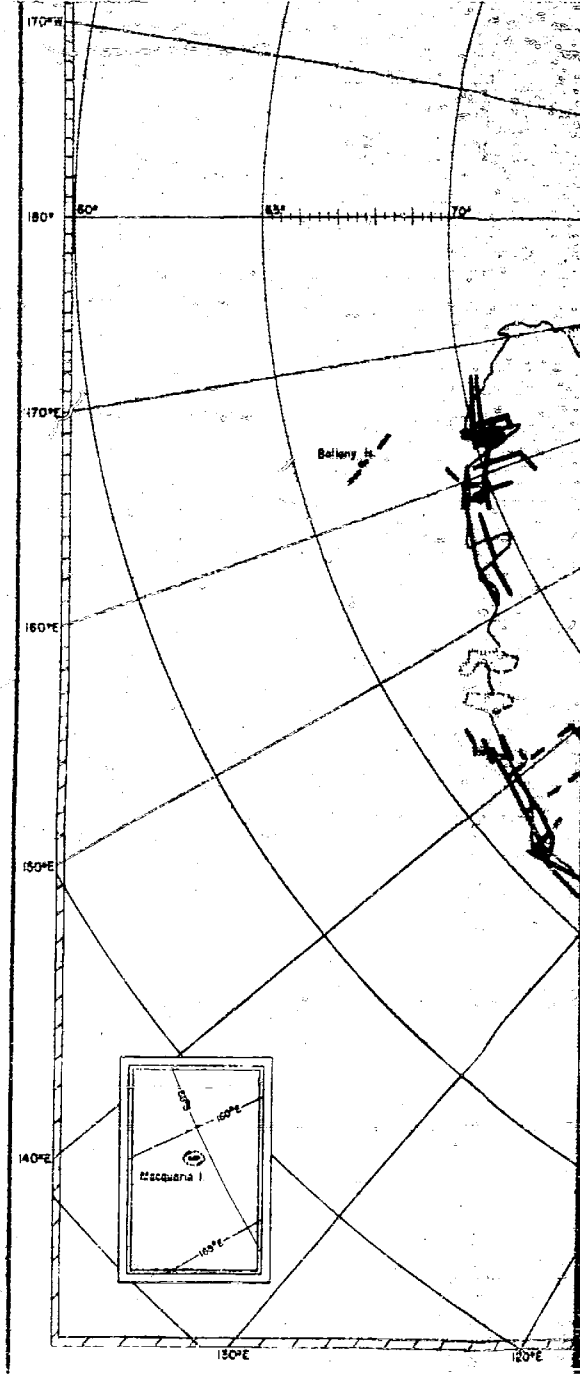


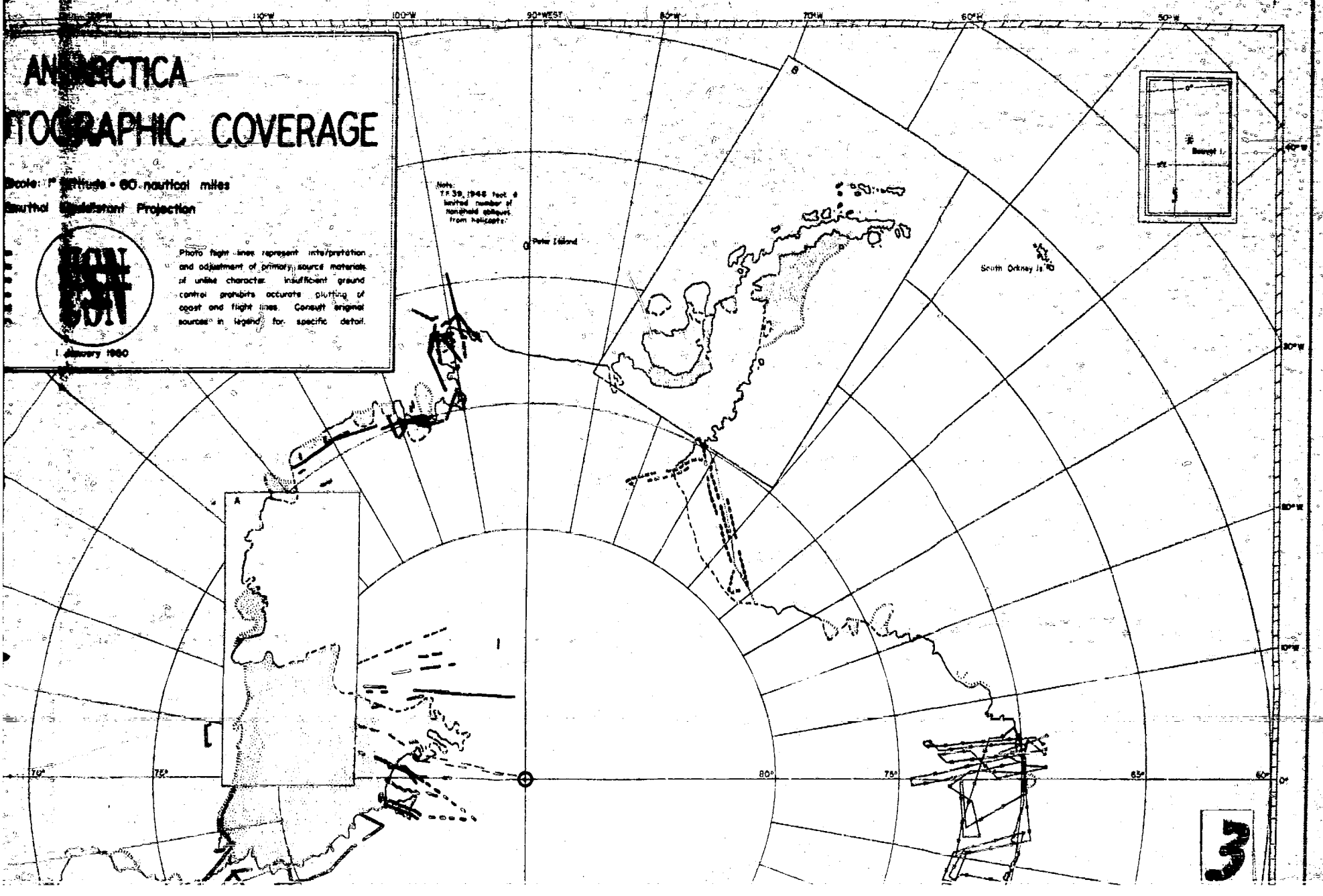
2 LEGEND

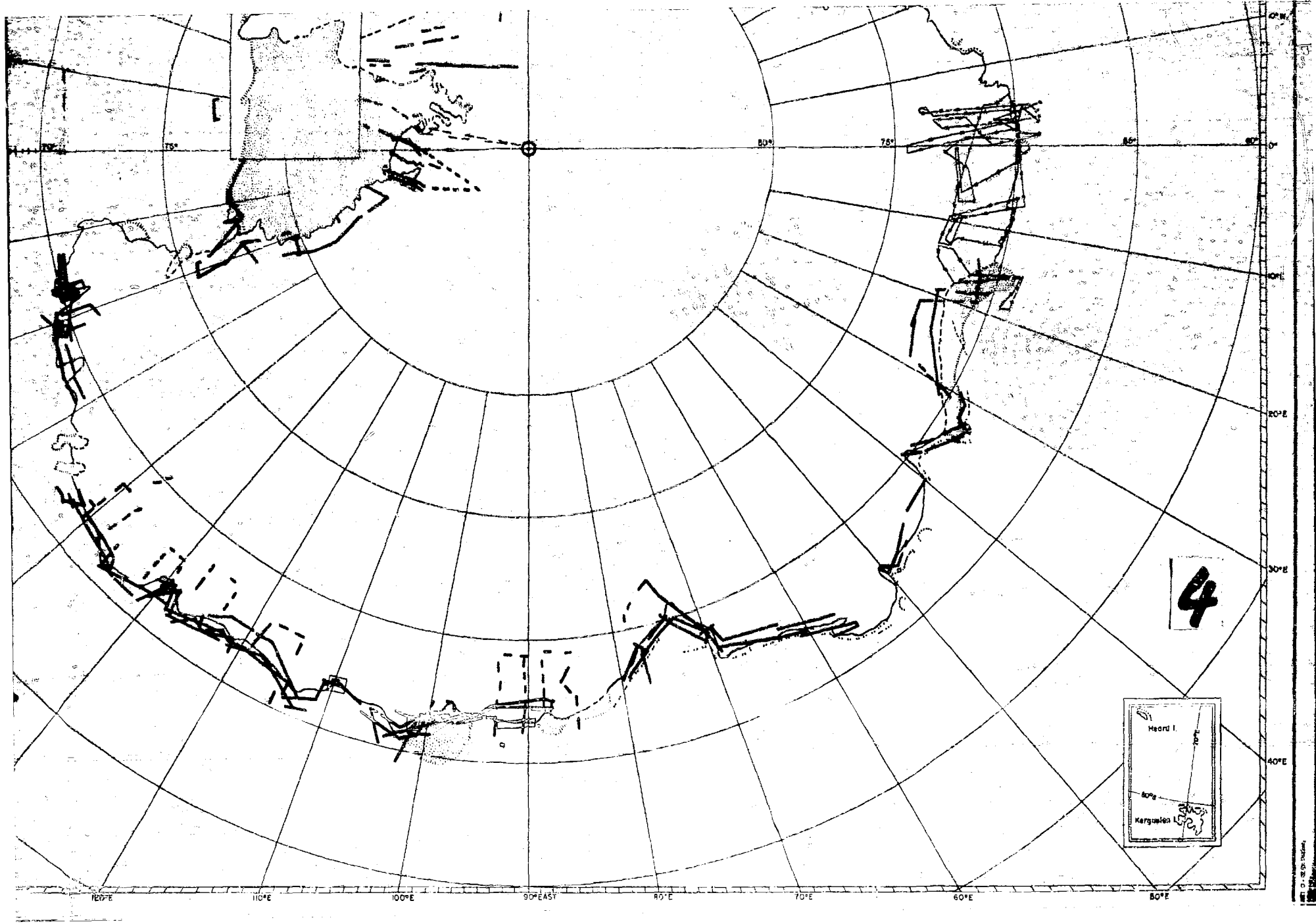
SYMBOL GROUPINGS BY NATIONALITY

BRITISH COMMONWEALTH — Dash-Dot Combinations
GERMAN — Line and Cross Combinations
NORWEGIAN — Dot Combinations
UNITED STATES — Dash Combinations

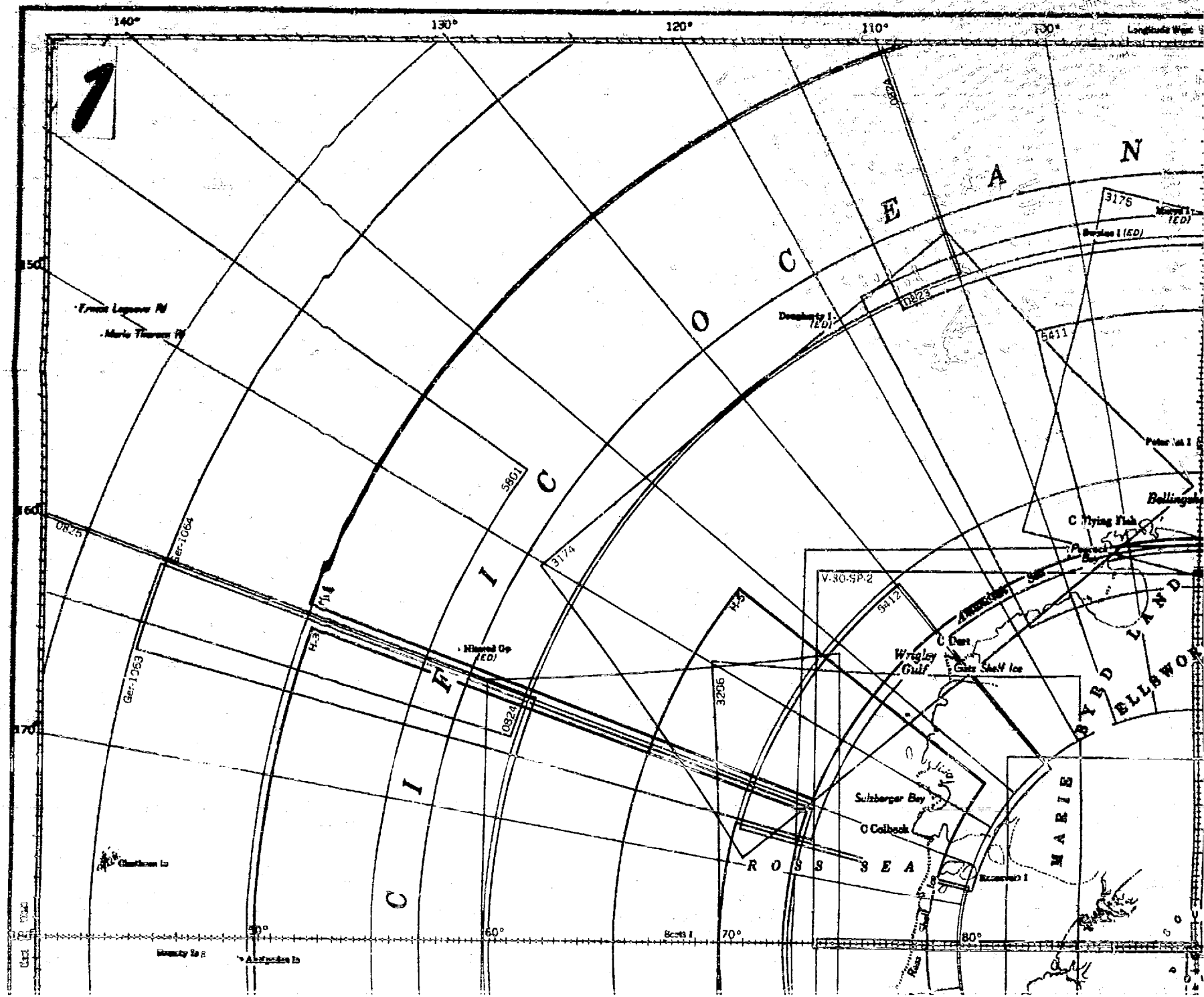
DATE	NAME	SYMBOL	SOURCE	PHOTOGRAPHY
1926-1929	WILKINS-HEARST 1st EXPEDITION		*Geographical Review*, V. 27, July 1937, pp430-444	Limited number of intermittent handheld still and motion pictures
1928-1930	BYRD 1st EXPEDITION		*Little America*, Putnam, N.Y., 1930, p416	Intermittent handheld still and motion pictures
1929-1930	WILKINS-HEARST 2nd EXPEDITION		*Geographical Journal*, V.78, Nov. 1931	Limited number of intermittent handheld still and motion pictures
1929-1930	BRITISH, AUSTRALIAN, NEW ZEALAND (MAWSON)		*Geographical Review*, V.20, Oct. 1930, pp.535-554 *Polar Record*, No.7, July, 1931, pp.56-60	Limited number of intermittent handheld stills
1929-1930	CHRISTENSEN 3rd EXPEDITION (RIISER-LARSEN)		*Geographical Review*, V.20, Oct. 1930, pp 555-573	Limited number of intermittent handheld stills
1933-1935	BYRD 2nd EXPEDITION		*Discovery*, Putnam, N.Y., 1935 p400	Intermittent handheld still and motion pictures
1934-1937	BRITISH GRAHAM LAND (RYMILL)		*Polar Record*, No.74, July, 1947, pp.142-153 *Geographical Journal*, V.91, April, May, & June 1938 *Geographical Journal*, V.96, Sept. 1940	Mapping Obliques for 1030 miles of coastline Intermittent handheld stills
1935-1936	ELLSWORTH 3rd EXPEDITION		*Geographical Review*, V.27, July 1937, pp430-444 *Geographical Journal*, V.96, Sept 1940	66 intermittent handheld 35mm. exposures
1936-1937	CHRISTENSEN 6th EXPEDITION		*Atlas over dele av det Ant. Kystland*, Grøndahl & Sons Boktrykkeri, Oslo, 1946	2200 mapping obliques
1938-1939	DEUTSCHE ANTARKTISCHE EXPEDITION (RITSCHER)		*Deutsche Antarktische Expedition 1938-1939* Leipzig, Koehler & Amelang, c.1942	12,000 Mapping obliques
1939-1941	UNITED STATES ANTARCTIC SERVICE		*Polar Record*, No.27, July, 1941, pp.427-449 *Proceedings of the American Philosophical Society* V.89, No.1, April 1943	13,575 mapping obliques
1943	ARGENTINE		*Polar Record*, V.4, No.30, July 1945, pp.285-286	Aerial photography in vicinity of Port Lockroy
1946-1947	U.S. NAVAL TASK FORCE 68 (BYRD-CRIZEN)		Official Charts, MS	65,000 trimetrogon photos. 173,000 ft 35mm and 69,000 ft 16mm of aerial motion pictures
1947	AUSTRALIAN (R.A.A.F.)		*Polar Record*, V.5, No.33-34, Jan.-July 1947, p79	250 handheld obliques (Macquarie Island)
1947-1948	RONNE ANTARCTIC RESEARCH EXPEDITION		Official Charts, MS	14,000 Trimetrogon photos. Motion pictures
1947-1948	U.S. NAVAL TASK FORCE 30	Areas of coverage	Official Charts, MS	Verticals, handheld obliques and motion pictures
1947-1948	AUSTRALIAN (CAMPBELL)		*Polar Record*, V.5, No.37-38, Jan.-July 1949, p. V.5	Limited number of pictures of Heard Island

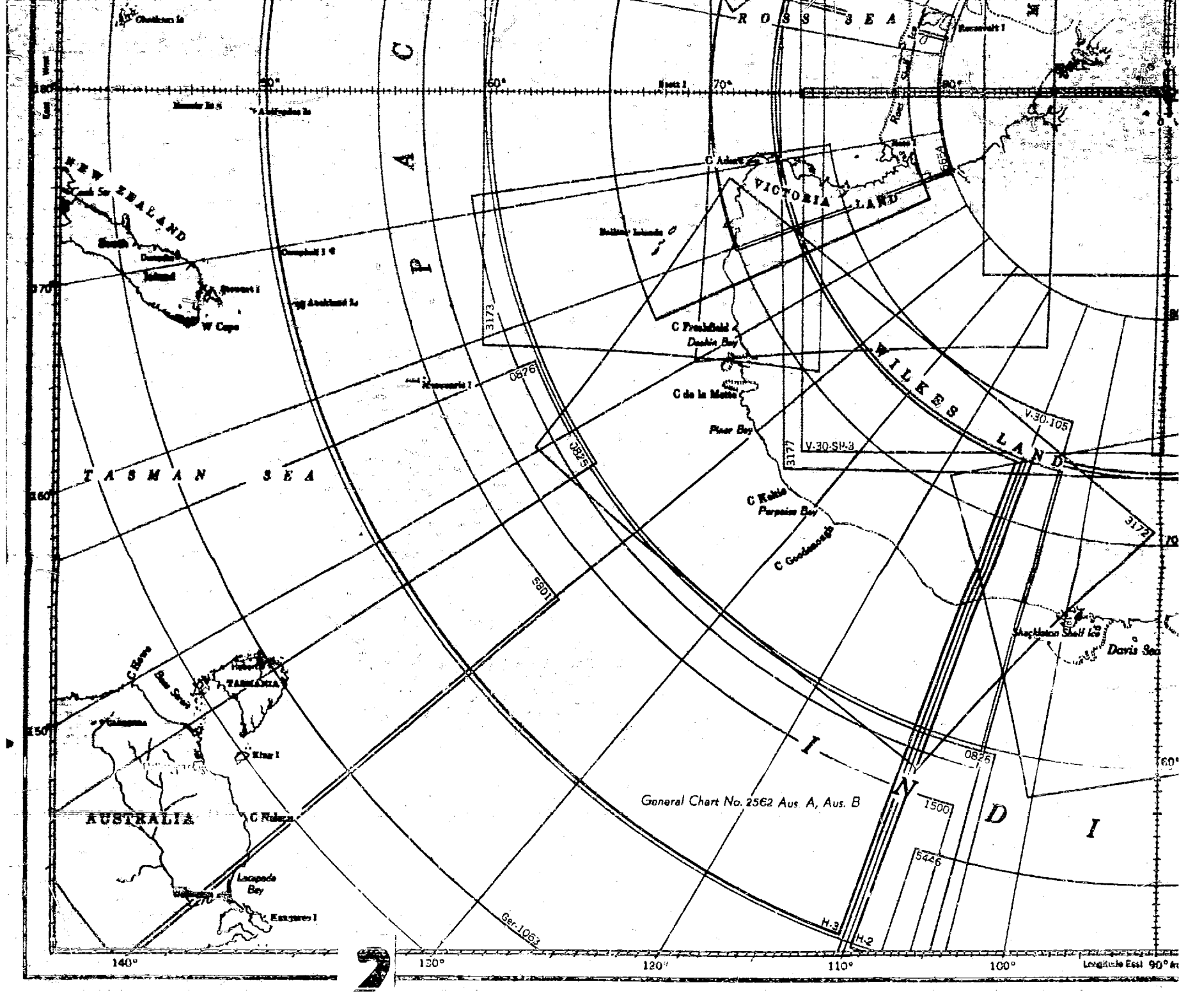


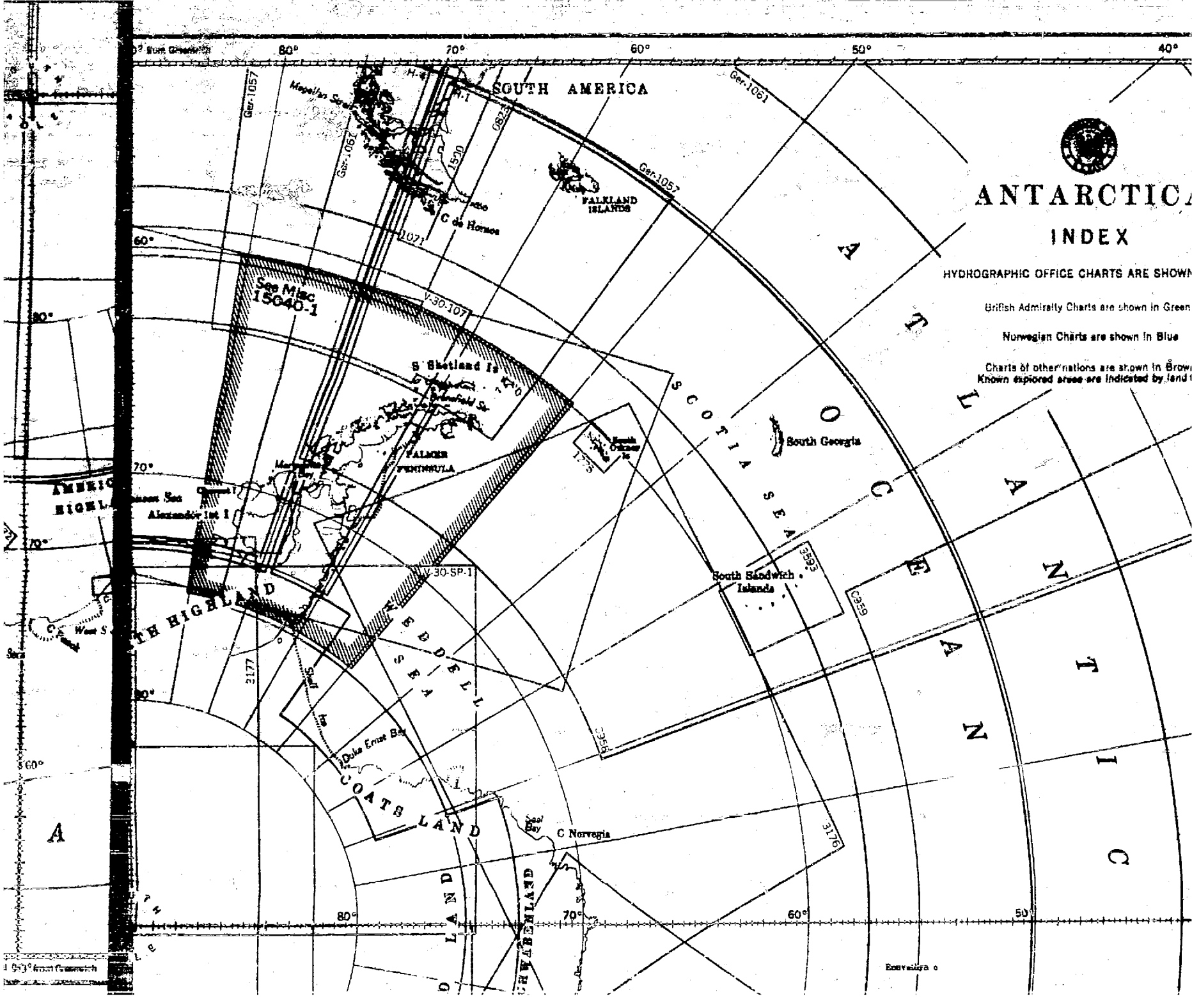

ANTARCTICA
TOGRAPHIC COVERAGE
Scale: 1° latitude = 60 nautical miles
Stereographic Projection
Photo flight lines represent interpretation and adjustment of primary source materials of unlike character. Insufficient ground control prohibits accurate plotting of coast and flight lines. Consult original sources in legend for specific detail.
1 January 1960
Note:
TF 38, 1965 had a limited number of nonphoto obliques from helicopter
Peter I Island
South Orkney Is
Bouvet I.
110°W
100°W
90°WEST
80°W
70°W
60°W
50°W
40°W
30°W
20°W
10°W
0°
80°
75°
70°
65°
60°
A
3

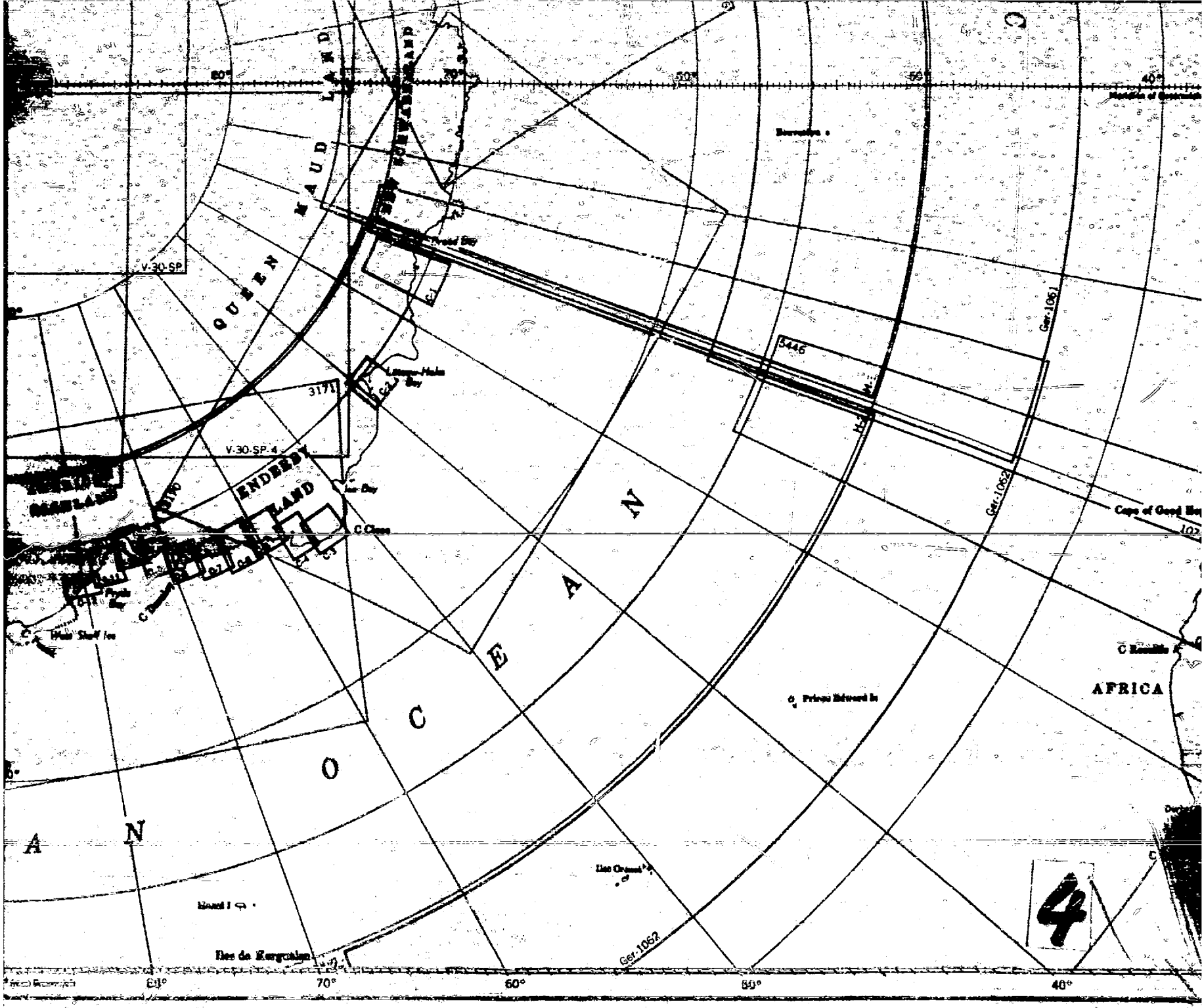

4
Heard I.
Kerguelen I.

H.O. Misc. No. 15040




P A C I F I C
R O S S S E A
VICTORIA LAND
WILKES LAND
T A S M A N S E A
I N D I
AUSTRALIA
NEW ZEALAND
TASMANIA
C Adare
C Franklin
Dusky Bay
C de la Mailla
Piner Bay
C Kidd
Porpoise Bay
C Goodenough
Shackleton Shelf Ice
Davis Sea
C Howe
Port Jackson
King I
C Pillar
Lancelin Bay
Ger-1062
V-30-105
V-30-SP-3
3173
3177
3172
0826
0825
5801
1500
5446
H-3
H-2
General Chart No. 2562 Aus A, Aus. B
180°
170°
160°
150°
140°
130°
120°
110°
100°
90°
80°
70°
60°


SOUTH AMERICA
ANTARCTIC
INDEX
HYDROGRAPHIC OFFICE CHARTS ARE SHOWN
British Admiralty Charts are shown in Green
Norwegian Charts are shown in Blue
Charts of other nations are shown in Brown
Known explored areas are indicated by land
See Misc. 15040-1
V-30-107
V-30-SP-1
S Shetland Is
FALKLAND ISLANDS
C de Hornos
PALMER PENINSULA
Alexander Int I
South Georgia
South Sandwich Islands
SCOTIA SEA
WEDDELL SEA
COATS LAND
C Norvegia
Dronning Maud Land
Ger-1057
Ger-1061
1590
1071
1775
2177
3176
C359
C360
C363
80°
70°
60°
50°
40°



Hydrographic Office, Washington, D. C., Aug. 1949