

Bibliography on
Northern Sea Ice
and Related Subjects

Bibliographie sur
la glace de mer dans le Nord
et autres sujets connexes

Compiled by
J. D. Bradford and M. Moline

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J. D. Bradford et M. Moline

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Compiled by

J.D. Bradford

**Department of Fisheries and Oceans
Ocean and Aquatic Sciences
Ottawa, Ont. K1A 0E6**

and M. Moline

**Under contract to
Department of Transport
Ottawa, Ont. K1A 0N5**

Compilé par

J.D. Bradford

**Ministère des Pêches et des Océans
Sciences océaniques et aquatiques
Ottawa (Ont.) K1A 0E6**

et M. Moline

**Employé à contrat par le
Ministère des Transports
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Department of Transport
Canadian Coast Guard
Ottawa, Ont. K1A 0N5

Ministère des Transports
Garde côtière canadienne
Ottawa (Ont.) K1A 0N5

CONTENTS/TABLE DES MATIÈRES

	Page
Acknowledgements/Remerciements.....	iv
Introduction/Introduction.....	v
List of Abbreviations/Liste des abréviations.....	vii
Section 1. Mechanics and Strength/Mécanique et résistance.....	1
Section 2. Operations and Ship Design/Opérations et conception des bateaux.....	27
Section 3. Sea Ice Observations/Observations sur la glace de mer.....	46
(A) Atlases and Periodicals/Atlas et périodiques.....	47
(B) Early (1825-1944)/Premières observations (1825-1944).....	53
(C) Recent (1945-)/Observations récentes (depuis 1945).....	67
Section 4. Ice Drift and Movement/Dérive et mouvement des glaces.....	81
Section 5. Sea Ice Environment/La glace de mer et son milieu.....	93
(A) Meteorology/Météorologie.....	94
(B) Oceanography/Océanographie.....	111
Section 6. Reconnaissance and Forecasting/Reconnaissance et prévision.....	133
Section 7. Ice Nomenclature/Nomenclature des glaces.....	151
Section 8. Miscellaneous/Divers.....	155
Section 9. Addendum/Addenda.....	161
Author Index/Index des auteurs.....	173
Geographical Index/Index géographique.....	191

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J.D. Bradford
M. Moline
Ottawa, Canada
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INTRODUCTION

As with the original edition of the bibliography, the intention in compiling this second edition has been to confine the material to subjects which have a bearing either directly or indirectly on the problem that sea ice presents to vessels. While geographically the emphasis is Canadian, works which describe the experience of other countries in northern sea ice operations, science, and technology have been included. In compiling the second edition over 700 new entries have been added and a sincere effort has been made to correct the inaccuracies, inconsistencies, and errors which were reported in the first edition. The bibliography now contains references to materials published up to 1974. A new feature of this edition is the inclusion of a geographical index.

For the purposes of this bibliography, sea ice means ice formed at sea. References to literature on ice islands, ice shelves, icebergs have only been included if information on sea ice drift or movement was contained in the article. Otherwise, these forms were considered by the compilers to be land ice or freshwater phenomena and hence, outside the realm of the bibliography.

Many of the references were gathered from recent sea ice literature. To these were added relevant materials which were found in the libraries of the Arctic Institute of North America, the U.S. Army Cold Regions Research and Engineering Laboratory, the Massachusetts Institute of Technology, Dartmouth College (Stefansson Collection), and the libraries of the following Canadian government departments and agencies: National Research Council, Ministry of Transport, Department of the Environment, Department of Energy, Mines and Resources, Defence Research Establishment (Geophysics), and Bedford Institute of Oceanography.

Immediately following most references are abbreviations of certain libraries in eastern North America where the item is located. The full names of the libraries are provided in the "List of Abbreviations". The list also includes the full names of the periodicals, institutes, etc., which appear in abbreviated form throughout the bibliography.

INTRODUCTION

Cette deuxième édition de la bibliographie a le même objectif que la première, c'est-à-dire, limiter la matière aux sujets qui se rapportent de près ou de loin au problème que représente les glaces marines pour les bateaux. Bien que du point de vue géographique, l'emphase soit mise sur le Canada, la bibliographie comprend aussi certains ouvrages qui décrivent l'expérience d'autres pays dans le domaine des activités, de la science et des techniques liées aux glaces marines du nord. Sept cents entrées nouvelles ont été ajoutées lors de la compilation de cette deuxième édition et un effort sincère a été fait pour corriger les inexacitudes, les anomalies et les erreurs qui ont été signalées après la première édition. Cette seconde version contient les notices des ouvrages publiés jusqu'en 1974 et comprend un index géographique.

Aux fins de la présente bibliographie, la glace marine désigne la glace formée en mer. Les notices des ouvrages portant sur les îles et les talus de glace et les icebergs n'ont été incluses que lorsque l'article traitait également de la dérive ou du mouvement des glaces marines. Dans tous les autres cas, ces formes de glace ont été considérées par les compilateurs comme des glaces de terre ou des phénomènes d'eau douce et se situent, par conséquent, en dehors du cadre de la présente bibliographie.

Un grand nombre des notices ont été puisées dans les ouvrages récents sur les glaces marines et le reste provient des textes pertinents trouvés dans les bibliothèques de l'Arctic Institute of North America, du Cold Regions Research and Engineering Laboratory des forces armées des États-Unis, du Massachusetts Institute of Technology et du Dartmouth College (collection Stefansson) et dans les bibliothèques canadiennes des ministères et organismes gouvernementaux suivants: le Conseil national de recherches, les ministères des Transports, de l'Environnement et de l'Énergie, des Mines et des Ressources, le Centre de recherches pour la défense (géophysique) et l'Institut d'océanographie de Bedford.

Les notices sont suivies immédiatement des abréviations de certaines bibliothèques de l'est de l'Amérique du Nord qui possèdent ces ouvrages. Le nom complet des bibliothèques est donné dans la liste des abréviations qui comprend aussi les noms complets des périodiques, des instituts, etc., abrégés dans la bibliographie.

LIST OF ABBREVIATIONS/LISTE DES ABRÉVIATIONS

LIBRARIES/BIBLIOTHÈQUES

AINA	Arctic Institute of North America, Calgary, Alberta
BCL	University of British Columbia Library, Vancouver, B.C.
BIO	Bedford Institute of Oceanography Library, Dartmouth, N.S.
CRREL	Cold Regions Research and Engineering Laboratory, Hanover, N.H.
DCL	Dartmouth College Library (Steffanson Collection) Hanover, N.H.
DINA	Department of Indian and Northern Affairs, Ottawa
DLC	Library of Congress, Washington, D.C.
DN-HO	U.S. Navy, Hydrographic Office, Suitland, Md.
DND	Department of National Defence Library, Ottawa
DOE	Department of the Environment Library, Ottawa
DRB	Defence Research Board, Ottawa
DRNL	Defence Research Northern Laboratory, Churchill, Manitoba
GSL	Geological Survey of Canada Library, Ottawa
LP	Library of Parliament, Ottawa
MIT	Massachusetts Institute of Technology, Cambridge, Mass.
MOT	Ministry of Transport Library, Ottawa
NL	National Library of Canada, Ottawa
NRC*	National Research Council Libraries, Ottawa
PAL	Public Archives Library, Ottawa
PAM	Public Archives of Canada, Manuscript Section, Ottawa
S&M	Surveys and Mapping Branch Library, Department of Energy, Mines and Resources, Ottawa
SPRI	Scott Polar Research Institute, Cambridge, England
UG	University of Guelph Library, Guelph, Ontario
USCG	United States Coast Guard, Office of Engineering, Washington, D.C.

INSTITUTES, etc. and PERIODICALS/INSTITUTS etc. et PÉRIODIQUES

AAAS	American Association for the Advancement of Science
Acoustical Society of America, Jour.	Acoustical Society of America, Journal
ACSSM	Associate Committee on Soil and Snow Mechanics (NRC)
AFCRL	Air Force Cambridge Research Laboratory
AIAA	American Institute of Aeronautics and Astronautics
AINA	Arctic Institute of North America
Akad. Nauk SSSR	Akademiia Nauk, SSSR
Akusti. Zhurnal.	Akusticheskii Zhurnal
Amer. Geog. Soc.	American Geographical Society of New York
Amer. Jour. Sci.	American Journal of Science

* As of October, 1974 the National Research Council Library has changed its name to "Canada Institute for Scientific and Technical Information" (CISTI).

Amer. Met. Soc.	American Meteorological Society
Am. Mineral.	American Mineralogist
Arkti. i Antarkti.	Arktiki i Antarktiki Nauchno-Issledovatel Institut
Arkti. Inst. SSSR	Arkti Institut (same as: Arktiki i Antarktiki Nauchno-Issledovatel Institut)
Arkti. Nauchno-Issledov. Inst.	Arktiki Nauchno-Issledovatel Institut (same as: Arktiki i Antarktiki Nauchno-Issledovatel Institut)
ASCE	American Society of Civil Engineers
Assoc. Comm. on Geotech. Res.	Associate Committee on Geotechnical Research (NRC)
BIO	Bedford Institute of Oceanography
BSRA	British Ships Research Association
Bull. Amer. Geog. Soc.	Bulletin, American Geographical Society
Bull. Amer. Met. Soc.	Bulletin, American Meteorological Society
Bull. Amer. Phys. Soc.	Bulletin of the American Physical Society
Canada, FRB, Man. Rpt. Series	Canada, Fisheries Research Board, Manuscript Report Series
Can. Geog.	The Canadian Geographer
Can. Geog. Jour.	Canadian Geographical Journal
Can. Geotech. Jour.	Canadian Geotechnical Journal
Can. Inst. of Min. & Met.	Canadian Institute of Mining and Metallurgy
Can. Jour. Res.	Canadian Journal of Research
Can. Res. & Dev.	Canadian Research and Development
Can. Ship. & Mar. Eng'g. News	Canadian Shipping and Marine Engineering News
CCO	Canadian Committee on Oceanography
CODC	Canadian Oceanographic Data Centre
CRREL	Cold Regions Research and Engineering Laboratory
DRB	Defence Research Board
DRNL	Defence Research Northern Laboratory
The Eng'g. Jour.	The Engineering Journal
Eng'g. Jour. of Can.	Engineering Journal of Canada
Eng'rs. Dig.	Engineer's Digest
EPRD	Environmental Protection Research Division Report
European Shipbuild.	European Shipbuilding
Geofys. Publik.	Geofysiske Publikasjoner
Geog. Helvetica	Geographica Helvetica
Geog. Mag.	The Geographical Magazine
Geograf. Obsh. SSSR	Geograficheskoe Obshchestvo SSSR
Geog. Rev.	The Geographical Review
Gidromet. Izd-vo, or Gidromet Izdatel, or Gidromet.	Gidrometeorologicheskoe Izdatel'stvo
Gos. Izdatel. Tek.- Teoret. Lit.	Gosudarstvennyi Izdatel'stvo Tekhniko-Teoreticheskoi Literatury
Gos. Okean. Inst.	Gosudarstvennyi Okeanograficheskii Institut
Havsforsk. Inst. Skr.	Havsforskningsinstituttets Skrift
IASH	International Association of Scientific Hydrology
IAHR	International Association for Hydraulic Research
ICES	International Council for the Exploration of the Sea
ICES Jour.	International Council for the Exploration of the Sea Journal
Internat. Jour.	International Journal
Internat. Shipbldg. Prog.	International Shipbuilding Progress
IUGG	International Union of Geodesy and Geophysics

Jour. Amer. Geog. Soc.	Journal of the American Geographical Society
Jour. Amer. Soc. Naval Eng'rs.	Journal of the American Society of Naval Engineers (same journal as: Naval Eng'rs. Journal)
Jour. ASCE	Journal of the American Society of Civil Engineers
Jour. Cycle Research	Journal of Cycle Research
Jour. Eng'g. Mech.	Journal of Engineering Mechanics
Jour. FRB, Can.	Journal of the Fisheries Research Board of Canada
Jour. Geophys. Res.	Journal of Geophysical Research
Jour. Glaciol.	Journal of Glaciology
Jour. Inst. of Nav.	Journal of the Institute of Navigation (after 1971 - Journal of Navigation)
Jour. Marine Res.	Journal of Marine Research
Jour. Phys. & Chem. Solids	Journal of Physics and Chemistry of Solids
Led. i Ledotek.	Ledovedenie i Ledotekhnika
Limnol. & Ocean.	Limnology and Oceanography
Low Temp. Sci.	Low Temperature Science
Mar. Eng'g./Shipbuild. Log	Marine Engineering/Shipbuilding Log
Mar. Geol.	Marine Geology
Marine Obs.	The Marine Observer
Mar. Tech. Soc. Jour.	Marine Technology Society Journal
Medd. om Gron.	Meddelelser om Gronland
Merentutkimuslait. Julk.	Merentutkimuslaitos Julkaisu
Met. i Gidrol.	Meteorologiia i Gidrologiia
The Military Eng.	The Military Engineer
Mil. Sea Trans. Serv.	Military Sea Transportation Service
MSB	Marine Science Branch
NASA	National Aeronautics and Space Administration
Nat. Acad. Sci.	National Academy of Science
Nat. Geog. Mag.	National Geographic Magazine
Naut. Mag.	Nautical Magazine
Nav. Res. Reviews	Naval Research Reviews
New Scientist	New Scientist and Science Journal
NATO	North Atlantic Treaty Organization
NRC	National Research Council
Nuclear Eng'g.	Nuclear Engineering
Ocean. & Mar. Biol.	Oceanography and Marine Biology
Okean.	Okeanologiia
Photogram. Eng'g.	Photogrammetric Engineering
Phys. Ocean. & Met.	Physical Oceanography and Meteorology
Prob. Arkti.	Problemy Arktiki
Prob. Arkti i Antarkti.	Problemy Arktiki i Antarktiki
Prob. Severa	Problemy Severa
Proc. Phys. Soc.	Proceedings of the Physical Society of London
Proc. U.S. Naval Inst.	Proceedings of the U.S. Naval Institute
Proc. USSR Geog. Soc.	Proceedings, U.S.S.R. Geographical Society
Pub. in Met.	Publication in Meteorology
RCA	Radio Corporation of America
Rech. Tran.	Rechnoi Transport
Royal Geog. Soc. Jour.	Royal Geographical Society Journal
Royal Met. Soc. Quarterly Jour.	Royal Meteorological Society, Quarterly Journal
Sci. Am.	Scientific American

Scottish Geog. Mag.	Scottish Geographical Magazine
Scripta Metall.	Scripta Metallurgica
Shipbuild. Equip.	Shipbuilding Equipment
Shipbuild. & Mar. Eng. Build.	Shipbuilder and Marine Engine Builder
Shipbuild. & Ship. Rec.	Shipbuilding and Shipping Record
Ship Reg. & Shipbuild.	Shipping Register and Shipbuilder
SIPRE	Snow, Ice and Permafrost Research Establishment
SNAME	Society of Naval Architects and Marine Engineers
Sov. Antarkti. Eksped.	Sovetskoi Antarkticheskoi Eskpeditskii
Sov. Arkti.	Sovetskaia Arktika
SPRI	Scott Polar Research Institute
SSSR Hidrograf. Up.	Gidrograficheskoe Upravlenie Zapiski po Hidrografii
Zap. po Hidrografii,	
Teknill. Aikak.	Teknillinen Aikakauslehti (changed to: Tekniikka)
Trans. Am. Geophys. Un.	Transactions of the American Geophysical Union
Trans. Eng'g. Inst. Can.	Transactions of the Engineering Institute of Canada
Trans. Inst. Mar. Eng'rs.	Transactions of the Institute of Marine Engineers
Trans. Roy. Soc. Can.	Transactions of the Royal Society of Canada
UNESCO	United Nations Educational, Scientific and Cultural Organization
USNHO	United States Navy Hydrographic Office
USNOO	United States Naval Oceanographic Office
Vop. Arkti. Ledov.	Voprosy Arkticheskogo Ledovedeniya
Vseso. Arkti. Inst.	Vsesoiuznyi Arkticheskii Institut (same as: Arktiki i Antarktiki Nauchno-Issledovatel Institut)
Zav. Lab.	Zavodskaia Laboratoriia
Zhurnal Tekn. Fiz.	Zhurnal Teknicheskoi Fiziki

Section 1

**MECHANICS AND STRENGTH/
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Section 2

OPERATIONS AND SHIP DESIGN/ OPERATIONS ET CONCEPTION DES BATEAUX

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Section 3

SEA ICE OBSERVATIONS/ OBSERVATIONS SUR LA GLACE DE MER

(A) Atlases and periodicals/

Atlas et Périodiques

(B) Early (1825–1944)/

Premières observations (1825–1944)

(C) Recent (1945–)/

Observations récentes (depuis 1945)

A. Atlases and Periodicals/
Atlas et périodiques

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Section 4

ICE DRIFT AND MOVEMENT/ DERIVE ET MOUVEMENT DES GLACES

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Section 5

SEA ICE ENVIRONMENT/ LA GLACE DE MER ET SON MILIEU

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(B) Oceanography/Océanographie

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Section 6

**RECONNAISSANCE AND FORECASTING/
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Section 9

ADDENDUM/ADDENDA

The entries in this section came to the attention of the compilers while the editing of the Second Edition was in progress. Rather than hold the entries for a possible Third Edition, it was decided to include them as an additional section. As with the bibliography itself, the section is subdivided by subject matter.

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Section 10

AUTHOR INDEX/INDEX DES AUTEURS

A

Aagaard, K. 1126, 1521-1525, 1594, 2277, 2287
Aber, P.G. 939
Abrahms, W.R. 1896
Abrahams, R.N. 383
Ackley, S.F. 131, 1020, 2211, 2223, 2228, 2245, 2305
Adams, Capt. 729
Adams, C.M. 1, 2187
Adey, A.W. 1831, 1832
Agureev, S.P. 1127
Akagawa, M. 1120, 1128, 1129, 2278
Aleksandrov, A.P. 384
Alekseev, N.N. 730
Alexander, S.E. 385, 386, 940
Alimova, T.A. 628
Allen, J.H. 1130
Allen, M.B. 2326
Allen, W.T.R. 941, 1833
Al'tberg, V.Ia. 337
Amundsen, Roald. 731, 732
Amusin, M. 387
Anapol'skaya, L.Ye. 1295
Anderson, C. 1131
Anderson, D.L. 2-9, 356, 357
Anderson, D.M. 10
Anderson, J.W. 733
Anderson, R.M. 734, 735
Anderson, S.R. 1402
Anderson, V.H. 1834, 1835
Anderson, W.R. 388, 2106
Antonov, N.D. 1528
Antonov, V.S. 944, 1529, 2110
Antsey, R.L. 1387
Aota, M. 316, 1269, 1270, 2024
Apollonio, S. 1530
Appleton, T.E. 2111
Araldsen, O.P. 2112
Archibald, D.C. 1296, 1842
Arctic Institute of North America 11, 1843, 2113-2115
Arctic Meteorology Research Group 1297
Arikainen, A.I. 1139, 2306

Armstrong, Sir A. 747
Armstrong, T.E. 423-426, 682, 945, 946, 1844, 1845, 2083, 2084, 2099, 2116-2118
Arnold, K.C. 18, 1298
Arnol'd-Aliab'ev, V.I. 12-17, 337, 748
Arsen'ev, V.S. 1531
Arshenevskii, Iu. 1846
Arya, S.P.S. 1140, 2239
Ashton, J.M. 749
Assur, A. 19-26, 358-360
Aufderheide, A.C. 947
Avgevich, V.I. 1847
Avis, R.A. 2279

B

Back, G. 750
Bader, H. 27
Badgley, F.I. 333, 1299, 1532, 2056
Badigin, K.S. 28, 751
Bailey, D.T. 1400
Bailey, W.B. 1141, 1533-1536, 1629
Baird, P.D. 2119
Bajkov, A.D. 752
Baker, D.R. 1972
Balcom, W.J. 427
Baliles, M.D. 1848, 1973
Balsys, L. 679
Banke, E.G. 1142-1144, 1255-1257, 1472, 2240
Banks, R.E. 1537
Barber, F.G. 1538-1544, 1677, 1678, 2120, 2121
Barkley, R.A. 1849
Barlow, E.W. 2085
Barnes, C.A. 1545, 1546, 1595-1597
Barnes, H.T. 29, 30
Barnes, J.C. 1850, 2307
Barnes, P. 31
Barnes, W.H. 32
Barr, W. 753
Barrow, Sir John 754
Barry, R.G. 1300-1302, 2257, 2258
Bartenev, G.M. 33
Bartlett, R.A. 428, 755, 756
Basargin, V. 429

Bates, R.E. 683, 951
 Beal, M.A. 1547, 2280
 Beardsley, G.F. 1738
 Beaton, A.P. 948, 1056
 Beauchemin, R. 129
 Becker, A. 949, 2002
 Belcher, E. 757
 Belik, T.A. 1291
 Belinskii, N.A. 1548
 Bell, C.N. 758
 Bell, G.G. 34
 Bell, Robert. 759, 760
 Belmont, A.D. 1303-1305
 Belousov, M.P. 430
 Belousov, P.S. 1851
 Belov, M.I. 431, 2209
 Belyakov, L.N. 1549, 1550
 Bender, J.A. 1306
 Bennett, P.M. 761
 Bennett, R.E. 432
 Bennington, K.O. 35-38
 Benze, D.L. 2205
 Berdennikov, V.P. 1551
 Berezkin, V.A. 1552, 1553
 Bergthorsson, P. 1554
 Berkson, J.M. 950, 2227
 Bernier, J.E. 762-764
 Bernstein, R.L. 1555
 Berry, F.A. 1307
 Bessels, Emil 765
 Betin, V.V. 1852
 Bezeverkhny, Sh.A. 1853
 Biays, P. 1556
 Bilello, M.A. 683, 951, 1308, 1309, 1854, 1855
 Binney, Sir George. 766
 Biriulin, G.M. 1145
 Birket-Smith, K. 767
 Bishop, R.J. 2034
 Bjerrum, Niels. 39
 Black, L.D. 40
 Black, W.A. 684-688, 952, 953, 2086, 2122, 2213,
 2323
 Blackford, B.L. 1310
 Blair, C.H. 388, 433
 Blake, E.V. 768
 Blanton, W.J. 2205
 Blenkarn, K.A. 954
 Blindheim, J. 1557
 Blinn, J. 2319
 Blinov, L.K. 41
 Blinov, N.I. 196
 Bloch, M.R. 1311
 Boas, Franz. 769
 Bodurtha, F.T. 1312
 Boeger, A.C. 2215
 Bogorodskii, V.V. 42, 43, 1856-1858
 Boling, G.B. 434
 Bondarenko, A.A. 1851
 Bonneycastle, R.H.G. 770
 Borisenkov, E.P. 1146, 1278, 1313, 1558
 Borisov, P.M. 1314
 Bourkland, M.T. 1559, 1560
 Boville, B.W. 1315, 1379
 Bowley, C.J. 1859, 2307
 Boyes, G.A. 1316
 Boyle, R.J. 435, 1717, 2087
 Bracy, L.R. 377
 Bradford, J.D. 436-438, 2202
 Brainard, D.L. 771
 Bramson, M.A. 1853
 Brayton, G.E. 1561
 Breslau, L.R. 439, 2216
 Brewer, M.C. 2241
 Briazgin, N.N. 1317
 Bridgman, P.W. 44
 Brill, R. 45, 146
 Bringloe, J.T. 440, 441
 Brocher, Michel. 442
 Bronnikov, A.V. 443
 Brooks, C.N. 444
 Brouchu, M. 955
 Brown, A.L. 1860
 Brown, J.H. 46, 47
 Brown, P.R. 956
 Brown, R.A. 2259
 Brown, W.E. 2034
 Browne, I.M. 976, 1147, 1148
 Bruneau, A. 1149

Bruns, B.P. 48
 Bruun, P.M. 49
 Bryant, H.G. 772
 Bryce, G. 773
 Bryson, R.A. 1820, 1821
 Buck, B.M. 1861
 Buddington, J.O. 774
 Büdel, J. 689
 Budyko, M.I. 1318, 1319
 Buinitskii, V.Kh. 1150, 1151, 2123
 Bulgakov, N.P. 957
 Bullock, F.J. 445
 Burakovskii, K.V. 1152
 Burbidge, F.E. 958, 959, 1320, 1862
 Burke, A.K. 50, 51
 Burrell, W.N. 2206
 Burwash, L.T. 775, 776
 Businger, J.A. 1153
 Bustard, E.E. 446
 Butkovich, T.R. 52-57
 Butters, J. 1562
 Buzuev, A.Ia. 447, 448, 960, 1154, 1863-1865,
 2088

C

Cabaniss, G.H. 1155
 Cadwalader, J. 1156
 Callaway, E.B. 1866
 Calvert, J.F. 449, 450
 Cameron, H.L. 1867
 Cameron, W.M. 1563
 Camp, P.R. 45, 58
 Campbell, N.J. 1564-1570, 1705
 Campbell, W.J. 961, 1157-1161, 1239, 1869,
 1870, 2242, 2308, 2310, 2317, 2318, 2321
 Canada, Canadian Committee on Oceanography.
 1571, 2124, 2281
 Canada, Coast Guard. 451
 Canada, Department of Energy, Mines and Re-
 sources. 452-454, 690, 1572-1581, 2125
 Canada, Department of Indian Affairs and North-
 ern Development. 2126
 Canada, Department of the Interior. 777, 778
 Canada, Department of Marine and Fisheries.
 779

Canada, Department of Mines and Technical Sur-
 veys. 455, 456, 691-695, 962-966, 1582-
 1590, 2127
 Canada, Department of National Defence. 457,
 458, 967, 1321, 1871-1873, 2128
 Canada, Department of Naval Service. 696,
 780-782
 Canada, Department of Transport. 459-463,
 697-708, 783, 968, 969, 1322-1336, 1874-
 1880, 2089
 Canada, Environment Canada. 703, 2217-2219
 Canada, Meteorological Branch. 970
 Canada, Ministry of Transport (see also Depart-
 ment of Transport). 2203
 Canada, National Research Council. 224, 1337,
 1881, 2129, 2130
 Canada, Royal Canadian Mounted Police.
 971-973
 Canada, Royal Canadian Navy. 464, 465, 709
 Canada, Senate. 466
 Canadian Institute of Mining and Metallurgy.
 2131
 Carder, K. 1738
 Caron, C.A. 974
 Carsola, A.J. 1639
 Centre de Recherches Arctique. 2132
 Chafe, E.F. 784
 Challender, E.R. 2021
 Chang, D.T. 1850
 Chaplygin, E.I. 1182, 1741, 1882, 2090
 Charlesworth, J.K. 1162
 Charlton, H.W. 1883
 Chelyshev, K.B. 1851
 Cherepanov, N.V. 59, 60, 1985, 2188
 Chernigov, V.A. 61, 339
 Chernigovskii, N.T. 1338
 Chester, H.C. 785
 Chikovskii, J.S. 62
 Chikovskii, S.S. 63
 Chouinard. 467
 Clark, D.L. 2133
 Clarke, F.C. 211
 Clarke, P.C. 975
 Clarke, R.W. 796
 Clay, C.S. 950, 2227
 Coachman, L.K. 1229, 1524, 1525, 1546, 1591-
 1603, 1746, 2246, 2277, 2279, 2282

Coble, R.L. 66, 538
Coburn, J.L. 516
Cockanoff, O. 2309
Collin, A.E. 1567, 1568, 1604-1611, 2283
Collins, C.F. 468, 503
Collinson, R. 786-788
Colony, R. 2196
Cook, F.A. 789
Cook, T.A. 2134
Coombs, J.A. 1612
Coon, M.D. 1236, 1997, 2189, 2190, 2243
Cooper, P.F. 2220
Corkum, D.A. 1884
Corley, N. 1339
Corton, E.L. 1340, 1885
Corwin, N. 1642, 1686
Cotell, R.D. 239
Court, A. 1341
Courtald, A. 2135
Cox, G.T.N. 64
Crary, A.P. 81, 239, 976, 1148
Crenshaw, R.S. 469
Crighton, L.G. 470
Croal, J.P. 471, 472
Croasdale, K.R. 65
Crouse, N.M. 790
Cudbird, B.S.V. 941
Cutcliffe, J.L. 66, 67
Cyriax, R.J. 791

D

Danahy, P.J. 473
Danielson, E.W. 977, 1613
Darnall, C. 2287
Davies, G.P. 1087
Davies, T.V. 1635
Davis, C.H. 792
Davydov, L. 474
Day, G.G. 1751
Dediurin, A. 475
Defant, A. 1614
Dehn, W.S. 978, 1886
De Long, G.W. 793

Demel, K. 979
Demenitskaya, R.M. 1615
Dementev, Kh.N. 68
Demianov, N.I. 980
Demin, I.D. 1887
Dempster, R. 1149
Denisov, A.S. 1616
Denmark. 710, 981
Denner, W.W. 1736
Denver, W. 1739
Deriugin, K.K. 982
De Rycke, R.J. 983
Devik, O. 69
Dick, T.M. 476
Dichtel, W.J. 70
Diehl, C.H.H. 1924
Dix, P.J. 477, 478
Dodd, A.V. 1387
Dohler, G.C. 1617
Dolgin, I.M. 1342
Domashenko, U. 479
Donn, W.L. 1888
Donovan, F.P. 984
Dorokhov, A. 480
Doronin, Iu.P. 71-73, 1164, 1618-1620,
1889-1891
Dorsey, H.G. Jr. 1343
Dremlug, V.V. 547
Drogaitsev, D.A. 985, 1165, 1344, 1621, 1622
Dubrovin, O.V. 596
Dubovtsev, V.F. 960
Dunbar, M.J. 1611, 1623-1631, 1731, 2285
Dunbar, Moira. 74, 75, 481, 986-996, 1166-1168,
1631, 1892, 2091-2093, 2136, 2221, 2284,
2285
Dykins, J.E. 76, 2201
Dyubkin, I.A. 1770
Dzerdzeevskii, B.L. 1345

E

Easton, R. 2334
Edgerton, A. 2321
Edo Aircraft Corp. 1893
Edstrand, H.E. 597

Edwards, R.Y. Jr. 482, 483
Efimov, Iu.N. 1991
Egorov, K.L. 1169, 1170
Eide, L.I. 77
Einarsson, T. 1632, 2324
Ellett, D. 1707, 2295
Ellis, D.V. 1633
El-Sabh, M.J. 2137, 2286
Environment Canada. 703
Eskin, F.I. 1634
Estes, P. 484
Estoque, M.A. 1346
Estrada, H. 485
Euller, J. 486
Evans, D.V. 1635
Evans, R.J. 78-80, 2243
Evans, S. 1894
Evdokimov, S.N. 1195
Evgenov, N.I. 1636, 2094
Ewing, M. 81

F

Faddeev, O.V. 519
Fairbridge, R.W. 1637
Fakidov, I. 1895
Falkowski, S.J. 1347
Farhadieh, R. 82
Farmer, D. 1171
Farmer, L.D. 1923
Farquharson, W.I. 1638
Fedorova, Z.P. 1348
Fel'zenbaum, A.I. 1172-1175, 1225
Ferris, L.W. 487
Fertuck, L.J. 83
Filippova, L.I. 84
Findlay, A. 433
Finkelstein, M.I. 85-87, 1982
Finland. 488, 489
Finlayson, D. 1168
Fisher, R.L. 1639
Flaherty, R.J. 794
Fleagle, R.G. 2260
Fletcher, J.O. 1349-1354, 2138

Fletcher, N.H. 88
Fliegel, M. 2293
Flodin, J. 490
Flohn, H. 1355, 1356
Fogarasi, S. 1302
Ford, W.L. 1640
Forrester, W.D. 1641, 2137
Forward, C.N. 997-1000
Foster, L.R.R. 491
Foster, T.D. 89, 90
Fothergill, N. 492
Fox, T. 2259
Franceschetti, A.P. 1642
Frankenstein, G.E. 91-94, 1896
Franklin, Sir J. 795
Fraser, D.B. 1357
Fraser, J.K. 1001, 1002
Fraser, R.J. 493
Fraser, W.C. 1358
French, D.N. 1, 157, 158, 2187
French, H.V. 1897
Friend, P.F. 2139
Fritz, S. 1359
Frolov, V.V. 494
Fry, E. 796
Fujino, K. 95, 140, 314-316, 1265, 1643, 1898, 1899
Fukutomi, T. 96-98, 1003-1005, 1176-1180, 1644
Funai, A.I. 99

G

Gabraccio, D.H. 100
Gade, H.G. 1719
Gaigerov, S.S. 1360
Gajda, R.T. 495
Gakkel, Ia.Ia. 101, 496, 497, 982, 1181, 1900, 2095
Galt, J.A. 1645
Galway, M.A. 498
Ganton, J.H. 1281
Garcia, A.W. 1646
Garlick, J.K. 1361
Garner, G. 1006

Garner, R. 93, 94
Gary, A.P. 1007
Genalis, P. 499
German and Milne. 504
German, J.G. 468, 500-503, 2204
German, W.H. 618
Gerson, D.J. 1901
Gevorkian, R.G. 1182
Giddings, J.L. 1647
Giguere, P.A. 102
Gilder, W.H. 797
Gilmore, German and Milne. 505
Girs, A.A. 1362
Glagoleva, M.G. 1548, 1902
Glen, J.W. 103-107
Glennie, C.J. 1543
Gloersen, P. 1363, 1870, 1903, 1938, 2242, 2312, 2318
Glukhova, N.V. 1183
Glushnev, V.G. 85
Goddard, W.B. 1364, 2261
Godin, G. 1648
Godsell, P.H. 798
Godson, W.L. 1365-1367
Goetze, C.G. 108
Gold, L.W. 109-121, 237, 369, 1507, 2325
Golovkov, M.P. 122, 337
Goodnow, W.H. 159
Gorbunov, Iu.A. 1184, 1185, 1936, 2018
Gordeev, V. 506, 1186
Gordienko, P.A. 507, 1187-1189, 1649-1651, 2140
Gordon, A.R. 799, 1368
Gosudarstvennyi Okeanograficheskii Institut. 2096
Gotskii, M.V. 508
Graham, J.W. 1162
Graham, M.L. 1904
Graham, R.D. 1706
Grainger, E.H. 1652, 1653
Grant, D.A. 1905
Gray, R.B. 2320
Graystone, P. 123, 124
Great Britain. 711, 1008, 1009

Great Britain, Admiralty. 509-511, 800-802
Great Britain, Air Ministry. 1369
Greely, A.W. 803
Green, F. 804
Greenaway, K.R. 996, 1010, 1011
Greisman, P.E. 2287
Grim and Hattendorf. 512
Groen, P. 1654
Gruber, M. 2141
Grushkina, A.S. 73
Gudkovich, Z.M. 1154, 1190-1196, 1283, 1655, 1656, 1817, 1991, 2064
Guinard, N.W. 1906
Gunn, W.W. 2142
Gushchenkov, E.M. 1657, 1907
Gushov, V. 1908
Guterman, I.G. 1370

H

Hachey, H.B. 1536, 1658-1662
Hagglund, M.G. 1731, 1909
Hakodate Marine Observatory. 1197
Hale, R.T. 756
Hall, C.F. 805-807
Hamberg, A. 2288
Hamelin, L.E. 2097
Hamilton, W.L. 361
Hanagud, S. 1910, 2197
Hankimo, J. 1372
Hansen, W.J. 513
Hanson, A.M. 1911, 2143, 2263
Hanson, K.J. 1373, 2262
Harding, G. 1630
Hare, F.K. 1374-1383, 2264
Harrison, J.D. 125-128
Hartwell, A.D. 1063, 1912
Hartz, T.R. 1913
Harvey, G.J. 2289
Harwood, T. 1012, 1914
Hata, R. 1915
Hattersley-Smith, G.F. 1013-1015, 1640, 1663, 2144, 2145, 2222, 2265
Haubrich, R.A. 2296
Hausser, R. 129

Hawkes, I. 130
Hayes, C.E. 349
Haynes, B.C. 1435
Hayward, J.W. 30
Heap, J.A. 1916
Heastie, H. 1384
Hedlin, Menzies & Assoc., Ltd. 514
Hela, I. 1016, 1017
Helland-Hansen, B. 1664
Herbert, W. 2146
Herlinveaux, R.H. 1665-1668
Hermann, J.D. 515
Hesselberg, Th. 1917
Hibler, W.D. III. 131, 132, 1018-1021, 1063,
1956, 2211, 2223-2225, 2228, 2237, 2244,
2245, 2305
Hicks, C.N. 1669, 2266
Hickson, W.E. 808
Hidaka, K. 1198
Higuchi, K. 1690
Hill, C.E. 1385
Hill, R.C. 516
Hill, R.H. 1057
Hill, R.W.H. 1022
Hobbs, H.A. 133
Hoekstra, P. 134
Hogue, D.W. 1386, 1387
Holdsworth, G. 135, 2156
Holler, A.M. 1670
Holmes, J.F. 1671, 1725
Holmgren, B. 2267
Holtmark, B.E. 1388
Hood, A.D. 1918
Houle, J.L. 1919
Hoult, D.P. 2186
Hovmoller, E.A. 1389
Howick, E.E. 47
Hudson Bay Route Association. 517
Hughes, F.D. 1886
Hume, J.D. 2164
Hunkins, K.L. 136, 1155, 1199, 1615, 1672-1676,
2290-2293
Hunter, H. 518
Huntsman, A. 809

Hurlbut, G.C. 810
Husband, W.H.W. 83
Huyer, A. 1544, 1677, 1678

I

Iakovlev, A.A. 519
Iakovlev, G.N. 137, 1023, 1200, 1201, 1390-
1393, 2149, 2340
Iceland, National Research Council. 2159
Ignat'ev, M.A. 520, 521
Illingsworth, F. 522
Ingall, A.F. 1393
Ingram, R.G. 1202, 2294
International Association for Hydraulic Re-
search. 2147, 2148
Irvine, T.A. 1024
Ishida, T. 138-140, 1203, 1920
Ishikawa, M. 1269, 1270
Istoshin, Iu.V. 1902
Itin, U.S. 811
Itin, V.A. 812
Iurokin, A.I. 1204
Ivanov, K.E. 141
Ivanov, V.M. 1685, 1921

J

Jackson, C.I. 1394, 2258
Jacobs, W.C. 1395, 1435
Jannsson, Jan-Erik. 523
Japan Meteorological Agency. 1025-1031
Jarlan, G.E. 1396
Jeliseyen, V.K. 524
Jellinek, H.H.G. 142-146
Jelly, K.C.P. 2226
Jenness, J.L. 1679
Johannessen, O.M. 1202, 1205-1207, 1256, 1257,
1680, 1682, 2137, 2252, 2287, 2331
Johannesson, P. 49
Johansson, B.M. 525
Johnson, D.S. 1922
Johnson, H.F. 526
Johnson, J.D. 1923
Johnson, T.C. 2324

Jonas, J.J. 169
Jones, G.H.S. 1924
Jones, T.L. 527
Jurvo, R. 813

K

Kaetzel, D.M. 528
Kagan, B.A. 1208
Kajihara, S. 1120
Kalitin, N.N. 1397
Kaminski, H.S. 1032
Kan, T.K. 950, 2227
Kane, E.K. 814-816
Kaplan, H.R. 2150
Karelin, D.B. 982, 1033, 1189, 1209, 1398,
2314
Karelin, I.D. 1210, 2191, 2311
Karizhenski, Ye.Ya. 2013
Karlsson, T. 147
Kashtelian, V.I. 148, 529-532
Kawamura, K.F.A. 1689
Keating, B. 533
Keegan, T.J. 1399
Keith, E.L. 712-714
Keller, B. 1354
Keller, E.E. 276
Kelley, J.J. 1400
Kelly, W.J.B. 1681
Kendall, G.R. 1401, 1402
Kennedy, R.A. 244
Kennedy, R.J. 149
Kennedy, W.A. 817
Ketchum, R.D. 1925-1929, 2312
Keys, J. 534, 1168, 1682
Khaikin, A. 535
Khaminov, N.A. 1930
Khanachenko, N. 1211
Khanina, S.K. 150
Kheisin, D.E. 151-154, 536, 537, 561, 1683
Khmyznikov, P.K. 1181
Khrol, V.P. 1212
Kiilerich, A.B. 1684
Kingery, W.D. 1, 66, 67, 133, 155-159, 538,
2151, 2187
Kinosita, S. 241

Kirch, R. 1403
Kireev, I.A. 1213, 1214
Kirillov, A.A. 539, 1034, 1215, 1931, 1932
Kirkpatrick, J.B. 1065
Kivisild, H.R. 540
Klein, W.H. 1404
Klimovich, V.M. 1035
Knapp, A.E. 954
Knapp, W.W. 1933
Knight, C.A. 160, 2192, 2193
Knight, N.C. 2193
Kniskern, F.E. 541, 1405
Knodle, W.C. 1216
Kobeko, P.P. 141, 161
Koch, L. 818-820, 1036
Kochanski, A. 1406
Kochetov, S.V. 2313
Koenig, L.S. 1037
Koerner, R.M. 1038, 1934, 2314
Kohler, R. 162
Kolesnikov, A.G. 163, 164, 1685
Kollmeyer, R.C. 1686, 1687
Kolosov, Yu.V. 1227
Konovalov, I.M. 165
Konstantinov, Iu.B. 1770, 1771
Kotras, T.V. 2205
Kovacs, A. 131, 362, 1020, 1039, 1040, 2211,
2228, 2237, 2245
Kovalev, E.G. 1992
Kozlov, A.I. 1982
Kozo, T.L. 1041
Krausz, A.S. 166
Krawczyk, J.J. 2154
Krenke, A.N. 296
Kruger, H.B. 1407
Krutskikh, B.A. 1935, 1936
Krylov, A.N. 542
Kryndin, A.N. 1937
Krypton, C. 543
Kubo, Y. 167
Kudriavtsev, V.A. 168
Kugzruk, F.K. 2211
Kuhn, P.M. 1938
Kukharskii, A. 544

Kunkel, B.A. 1444, 2268
Kuon, L.G. 169
Kupetskii, V.N. 170, 1688
Kurashina, S. 1042
Kuriowa, D. 373
Kurnosov, M. 545
Kusunoki, K. 171, 1043, 1179, 1180, 1644, 1689,
1690, 1797, 2152
Kutev, V.A. 86

L

Lachenbruch, A.H. 1695, 1696
La Fond, E.C. 1669, 1691-1694, 1763
Laikhtman, D.L. 1217
Lake, L.L. 546
Lake, R.A. 172, 1697-1699, 1715
Laktionov, A.F. 173, 547, 1408, 1650, 1651,
1700, 1701, 1939, 1940, 2095, 2153
Lalor, W.G. 2154
Lamont, A.H. 1044, 1409, 1941
Land, H.L. 548
Landauer, J.K. 57
Landtman, C. 549, 550
Lange, G.R. 551
Langleben, M.P. 124, 174-184, 269-271, 1045,
1244, 1409-1412, 1942, 1943, 2002, 2315,
2331
Langway, C.C. Jr. 185
Lank, R.B. 552
Lank, S.W. 553
La Placa, S. 186
Lappo, S.D. 1218, 1944
Larin, B.V. 1945
Larnder, M.M. 1046
Larsen, A.H. 554
Larsen, H.A. 555, 821, 822
Larsson, H. 1946
Lauder, J.R. 1862
Lauzier, L.M. 1569, 1702-1706
Lavoie, N.G. 556
Lavrov, V.V. 187-194
Law, L.K. 2269
Lawrence, R.G.A. 2204
Lazarenko, N.N. 1413

Lazier, J.R.N. 1570
Leahy, D.M. 1414-1416
Leaver, J.M. 1947
Lebedev, A.A. 1047, 1948, 1949
Lebedev, V.V. 1950
Lecourt, E.J. 559
Lee, A. 1707, 2295
Lee, H. 1123
Lee, O.S. 363, 364, 366, 1951-1953
Lee, R. 1708
Legen'kov, A.P. 195, 196, 1219-1222, 1709
Leichtman, D.L. 1223
Leith, A.T. 823
Leith, C.K. 823
Leonov, A.K. 1710, 1711
Le Page, L.S. 1954, 1955
Le Schack, L.A. 1712, 1956, 2224, 2296
Lewis, E.L. 174, 197-199, 1698, 1699,
1713-1716
Lewis, J.W. 483, 557-559
Lewis, R.G. 560
Li, H. 1234, 1957, 2249
Lichomanov, V.A. 561
Liddle, L.F. 2206
Lieske, B.J. 1400, 1417, 2263
Lindgren, J. 597
Lindsay, D.G. 715, 1048, 1049
Lindsay, D.M. 824
Ling, C.H. 2229
Lin'kov, E.M. 200
Little, E.M. 272, 1669, 2326
Liubomirova, K.S. 1418
Livingston, C.W. 201
Ljoen, R. 1557
Lobkovich, J.F. 562
Lock, G.S.H. 2155
Loewe, F. 2327
Lofgren, G. 202, 365
Loginov, K. 563
Loken, O.H. 2156
Long, A. 1682
Longley, R.W. 1419-1421
Lonsdale, K. 203
Losev, S.M. 1413

Loshchilov, V.S. 1154, 1851, 1863, 1958, 1959
 Lotz, J.R. 1422
 Loucks, R.H. 1570
 Love, H.W. 2157
 Low, A.P. 825-827
 Lower St. Lawrence and Gulf Development Association. 564, 565
 Luchinninov, V.S. 204
 Lundquist, G.A. 70
 Lyon, G.F. 828, 829
 Lyon, W.K. 205, 566, 1050, 1717

M

MacDowell, G.P. 2076
 MacFarlane, M.A. 1315
 Mack, G.E. 839, 840
 MacKay, D.K. 1051, 1298
 MacKay, G.A. 1423
 MacLean, J.H. 569
 Macleod, N. 570
 Maclure, K.C. 571
 MacMillan, D.B. 836-838
 Macpherson, A.H. 1052
 Maier, P. 2259
 Makarov, S.O. 841
 Makios, V. 2320
 Maksimov, I.V. 1960
 Malakov, N.T. 572
 Malmberg, S.A. 1718, 1719
 Malmgren, F. 206
 Malone, E.V. 1961
 Mamauff, N.M. 258
 Mandrovsky, B.N. 2098
 Mann, C.R. 1720
 Manning, T.H. 842-845
 Mantis, H.T. 207
 Marei, F.I. 161
 Mariutin, T.P. 208
 Markham, Sir A.H. 846
 Markham, Sir C.R. 847-851
 Markham, W.E. 948, 1022, 1053-1057, 1511, 1512, 1962-1964
 Marriott, R.S. 852
 Marshall, B.V. 1696

Marshall, N.B. 1058, 2226
 Martin, P. 1059
 Martin, S. 77, 209, 210
 Masuzawa, N. 1224, 1226, 1965
 Matheson, K.M. 1424
 Mathews, F.S. 211
 Mathews, S.T. 574, 586
 Mathiassen, T. 853, 854
 Mathien, G. 1721
 Matsukado, W.M. 1966
 Matthews, F.W. 573
 Matthews, J.B. 1722
 Maybourn, R. 575
 Maykut, G.A. 212-214, 334, 1967-1969, 2189
 McCann, S.B. 1434
 McClain, E.P. 1970-1973, 2316
 McLaren, P. 2230
 McClintock, F.L. 830, 831
 McClure, Sir R.L. 832
 McDonald, E.A. 567, 568, 2207
 McDougall, G.F. 2328
 McDougall, H. 1974
 McGill, D.A. 1642, 1686
 McIntosh, J.A. 1975-1977
 McKeevor, T. 833
 McLachlan, D.W. 834
 McLean, N.B. 835
 McLeod, N. 30
 McLerran, J.H. 1978
 McMahan, R.G. 383
 McNeill, J.D. 1979
 Mead, W.R. 576
 Meek, G.T. 1980
 Meeks, D. 1981, 2317
 Melberg, L.C. 577
 Meleshko, V. 578
 Mellor, M. 130, 215, 1060
 Mendel'son, V.L. 1982
 Merrill, G.C. 1061
 Meserve, J.M. 2329
 Metcalf, W.G. 1723-1725
 Mettler, A.J. 216
 Meyer, M.A. 1983
 Meyerhof, G.G. 217

Mikhailova, E.N. 1225
Mikkelsen, E. 855
Milano, V.R. 579, 580
Milne, A.R. 218, 219, 1062, 1281, 2330
Milwright, A.L.P. 1955
Minoda, K.T. 1689
Mironov, L.V. 2061
Mitchell, J.L. 1984
Mitenkov, F. 581
Miura, S. 1226
Mock, S.J. 1021, 1063, 2225
Mohacsi, S. 582
Mohaghegh, M.M. 220, 2190
Mohr, T. 1064
Moiseeva, E.V. 1853
Molochnov, G.V. 1985
Monsinger, M.N. 1065
Montgomery, M.R. 1066, 1067, 1380-1382,
1425, 1986
Montgomery, R.B. 1450
Moore, R. 1987
Moretskii, V.N. 221
Morgan, C.W. 1068
Morley, J.P. 583, 584
Moroz, V.G. 1227
Morozov, N. 585
Morozova, T.P. 1069
Morse, F.H. 1956
Morse, R.M. 1687, 1726
Morton, W. 856
Mosby, H. 1727, 1728
Mosby, O. 1776
Moynihan, M.J. 1287
Muench, R.D. 1729-1732, 2297, 2298
Muguruma, J. 222, 1690, 1733
Mukherji, B. 223
Muller, E.H. 1426
Munn, H.T. 857, 858
Murcray, W.B. 2270
Murdie, R.C. 586
Murty, T.S. 1228
Murzin, A.I. 1988
Mustafin, N.V. 1734

N

Naab, J.W. Jr. 587
Nakayama, I. 1119
Namias, J. 1427, 2271
Nansen, F. 859, 860, 1735
Nares, Sir G.S. 861, 862
Nazarov, V.S. 588, 589, 1070, 1989
Nazintsev, Iu.L. 225-227, 1428-1430, 1990
Neal, V.T. 1736, 1738, 1739
Neiss, H. 1848
Nelson, K.H. 228, 229, 1737
Neshyba, S.J. 1736, 1738, 1739
Nevel, D.E. 230-234, 590, 591
Newbury, T.K. 1732
Newton, J.L. 1229, 1598
Nichols, D.A. 1740
Nichols, J.W. 863
Nikiforov, E.G. 1278, 1431, 1741, 1742, 1991
Nikolaev, V.N. 592, 1490, 1816, 1992
Nikolayev, A.Ya. 1231
Nikolayev, Y.V. 1993
Nogid, L.M. 593-596
Noice, H.H. 864, 1071
Nomitsu, T. 235
Nordberg, W. 2242, 2310, 2321
Norina, A.M. 1743
Norstrom, H.F. 597
North Atlantic Treaty Organization (NATO).
2158
Northwood, T.D. 236
Novikov, Yu.R. 1994
Novitskii, V.P. 1744
Nusser, F. 1072
Nutt, D.C. 1232, 1631, 1745, 1746, 2246
Nuttall, J. 237
Nye, J.F. 2247, 2248

O

Oakley, O.H. 553
Odar, F. 377
Offenbacher, E.L. 238
Ohotani, K. 1747
Oi, M. 1269, 1270, 2024

Olenicoff, S.M. 1233, 1354
Oliver, J. 239
Olsen, B.E. 1748
Ommanney, C.S.L. 2156
Ono, N. 140, 240, 317-319, 1203, 1921
Orlenko, L.R. 1995
Ornstein, W. 366
Orvig, S. 1383, 1432, 1433, 1494-1496, 2272
Osborn, S. 865
Ostenso, N.A. 1749, 1750
Osterkamp, T.E. 134
Oura, H. 241
Owens, E.H. 1434
Owens, G.V. 1307
Owston, P.G. 242
Ozawa, K. 1073

P

Pai, S.I. 1234, 2249
Paige, R.A. 243, 244
Palfrey, K.M. 1751
Palibin, M.A. 245
Palmer, Sir F. 866
Palosuo, E. 598, 1074-1082, 1996
Panfilon, D.F. 1752
Panov, V.V. 1753
Pantaleev, N.A. 1685
Paren, J.G. 246
Parks, G.A. 599
Parmenter, F.C. 1235
Parmerter, R.R. 1083, 1236, 1294, 1997, 2194,
2250, 2251
Parry, Sir W.E. 867-869
Partch, E. 1123
Paterson, W.S.B. 2269
Pavskii, Ye.I. 1998
Pearce, D.C. 2160
Peary, E.A. 870
Peary, R.E. 871-877
Perey, F.G.J. 247
Perkin, R.G. 248
Perry, R.E. 1999
Perutz, M.F. 107
Peschanskii, I.S. 249-256, 600, 601, 1237, 2161

Petrichenko, A.N. 1238, 1754
Petrov, E.Iu. 280, 602
Petrov, I.G. 257
Petrunitchev, N.N. 258
Petterssen, S. 1435
Peyton, H.R. 259-261, 2195
Piotrovich, V.V. 878
Pister, K.S. 262
Pitzel, G. 947
Plummer, J.E. 603
Ponomarev, P.A. 604
Popham, R.W. 1964, 2070
Popov, Iu.N. 530, 605, 606
Post, B. 186
Potocsky, G.J. 1405, 2000
Potter, J.G. 1436
Poulin, A.O. 2001
Pounder, E.R. 183, 184, 247, 263-274, 291, 298,
1207, 1942, 1943, 2002, 2252, 2331
Pozniak, I.I. 532, 606
Prasad, B. 1437
Prik, Z.M. 1438
Pritchard, D.W. 1694
Pritchard, R.S. 2189, 2196
Proskuriakoff, B.V. 275
Pullen, T.C. 607, 608, 643
Putnam, G.P. 879
Putnins, P. 1439

R

Rachtov, A. 609
Rachtov, N.S. 1771
Radio Corporation of America. 2003
Rae, J. 880, 881
Rae, R.W. 1440, 1441
Ramseier, R.O. 1981, 2317, 2318, 2320
Rankin, D.A. 1599
Rasmussen, K. 882, 883
Rasmussen, L.A. 1159, 1160
Ratmanov, G.E. 1755
Reece, J.W. 620
Reed, J.C. 610
Reed, R.J. 1239, 1442-1446
Repkin, B. 1756

- Riabchikov, V.A. 295
 Richards, G.H. 884
 Richardson, C. 276, 611
 Richardson, Sir J. 885, 886
 Ricketts, N.G. 1757
 Rigby, F. 2299
 Riis-Carstensen, E. 2332
 Rijken, H. 612
 Riley, J. 951
 Ringer, W.E. 277
 Ripley, D.M. 613
 Robdrup, H. 614
 Roberts, B. 2083, 2084, 2099
 Robertson, O.S.C. 615-618
 Robin, G. de Q. 1758
 Robinson, J.L. 619, 1084-1086
 Rodewald, M. 1759
 Rodhe, B. 1447, 1448, 2004, 2231
 Rodman, H. 887, 888
 Rogers, G.F. 620
 Rokeby-Thomas, H.R. 889
 Romanov, M.A. 1991
 Ronhoude, A.G. 2163
 Roselman, I.C. 238
 Ross, B. 278, 1910, 2197
 Ross, Sir J. 890
 Ross, W.G. 1163
 Rossby, C.-G. 1449, 1450
 Rothrock, D.A. 279, 1240, 1241, 2189, 2198,
 2253-2255
 Rouse, J.W. 2005, 2006
 Rowland, J.T. 891, 892
 Royen, N. 1451
 Rubin, M.J. 1452
 Russanov, N.I. 295
 Russell, H.E. 621
 Rutkowicz, S. 979
 Ruzin, M.I. 1242
 Ryvlin, A.Ia. 280, 447, 448, 521, 531, 532
 Rzheplinsky, G. 1243
- S**
- Sabinin, K.D. 1760
 Sadler, H.E. 1761, 2298
- Sagar, R.B. 1453
 Saita, T. 235
 Sala, I. 281, 282
 Saltzman, P. 2007
 Sanderson, R.M. 1087, 2232
 Santsevich, T.I. 1656
 Sarkka, V. 622
 Sarukhanyan, E.I. 1196
 Sater, J.E. 1762, 2162, 2163, 2256
 Sauer, C.D. 1638
 Saunders, E.J. 1088
 Saur, J.F.T. 1763
 Savel'ev, B.A. 283-286, 1089
 Schafer, P.J. 1764
 Schalk, M. 2164
 Schell, I.I. 1454-1459, 2008, 2273
 Schell, J.A. 2006
 Schmutge, T.J. 2310
 Schule, J.J. 1090, 2077
 Schwarzacher, W. 1091
 Schwerdtfeger, P. 287-291, 2009
 Scott Polar Research Institute, 623, 2165
 Seemann, B. 893
 Seibert, G.H. 1765
 Seifert, W.J. 716, 1244
 Semikov, T.T. 2010
 Senior, C.W. 292, 1766
 Serikov, M.I. 293
 Serson, H.V. 1092, 1207, 1663
 Shackleton, E.A.A. 894, 895
 Shalaginov, A. 624
 Shamontyev, V.A. 1701, 2011
 Shandrikov, N.P. 338
 Shapiro, A. 2166
 Shapiro, N.B. 1225
 Sharikov, Iu.D. 1289
 Shaw, D.M. 1767, 1888
 Shcherbakova, R.I. 165
 Sherman, T.A. 625
 Shesterikov, N.P. 1864, 2012
 Shilin, B.V. 2013
 Shil'nikov, V.I. 345
 Shimanski, Iu.A. 626
 Shirsov, P.P. 1768

- Shokalskii, Iu.M. 1245, 1769
 Shpaikher, A.O. 627, 628, 1741, 1753, 1770, 1771
 Shreve, R.L. 294
 Shtokman, V.B. 1772, 1773
 Shuleikin, V.V. 295, 1246, 1247
 Shul'man, A.R. 84, 150
 Shulman, P.P. 141
 Shumskii, P.A. 296
 Shumway, G. 1639
 Shvainshteyn, Z.I. 629, 630
 Shvets, M.E. 1248
 Sidhu, G.S. 1910, 2197
 Simmons, P.L. 896
 Simmons, R.E.G. 631
 Simonett, D. 1987
 Simpson, L.S. 1953, 2014, 2015, 2166
 Sinev, N. 632
 Siniurin, Iu.N. 1204, 1249, 2016
 Skiles, F.L. 292, 1250
 Skorik, I.L. 1460
 Skov, N.A. 1093
 Sleptsov-Shevlevich, B.A. 2065, 2066
 Slipchenko, W. 2167
 Small, F.S. 1094
 Smesov, A.N. 1251
 Smetannikova, A.V. 1891
 Smirnov, N.P. 1196, 1490, 1491
 Smirnov, V.I. 297, 628, 633-636, 1095, 1252, 2017
 Smirnov, V.N. 1774
 Smith, C.L. 1253
 Smith, E.H. 897, 1775, 1776
 Smith, F.C.G. 898
 Smith, J.D. 1123, 1600-1602, 1777, 1778
 Smith, M. 298
 Smith, S.D. 534, 1142-1144, 1228, 1254-1257, 1472, 2240
 Smithsonian Institution. 1461
 Snow, W.P. 899
 Society of Naval Architects and Marine Engineers. 637
 Sokolov, A.L. 638, 1936, 2018
 Sokolovskaia, L.I. 2019, 2100
 Solomon, H. 1258, 1259
 Sommerfeld, R. 335
 Somov, M.M. 1145, 1260, 1261, 1294, 1779, 2020
 Soper, J.D. 900, 901
 Soule, F.M. 1776, 1785, 2021
 Speerschneider, C.I.H. 902
 Spichkin, V.A. 345, 539
 Sproule, J.C. 2333
 Spyker, J.W. 83
 Staib, B.O. 2168
 Stalinski, P. 273, 274
 Stead, G.W. 639, 640
 Stearns, L.F. 1938
 Stearns, S.R. 299
 Stefan, J. 300
 Stefanovich, A.N. 641
 Stefansson, U. 1780, 2300
 Stefansson, V. 903-909, 2101
 Stehle, N.S. 216, 2022, 2199, 2334
 Steinemann, S. 301
 Steiner, H.A. 1315
 Stepanon, V.N. 1781
 Stephens, R.W.B. 302
 Stevens, H.T. 1096
 Stewart, J. 642
 Stewart, R.W. 1782
 Stewart, W.J. 910, 911
 Stolee, E. 2169, 2170
 Storrs, A.H.G. 643
 Stringer, W.J. 2233
 Strong, R. 2171
 Strübing, K. 1262
 Sudar, R.B. 198
 Sukhorukov, A.Ia. 606
 Summers, R.J. 912
 Surface, R.K. 1445
 Sutherland, P.C. 913
 Suzuki, F. 1899
 Suzuki, Y. 140, 1263-1265
 Sverdrup, H.U. 303, 914, 1266, 1267, 1783-1785

Sverdrup, O. 915, 916
Swallow, J.C. 1786
Swan, H.F. 644
Swanson, L.M. 717, 718
Sweers, H.E. 1719
Swenson, P.B. 2031
Swithinbank, C.W.M. 645, 719, 1097-1099,
2083
Sychev, K. 2023
Syubaev, M. 535

T

Tabata, T. 140, 304-319, 1180, 1268-1272, 1644,
2024
Tabor, D. 31,
Taggert, C.I. 2025, 2026
Taguchi, T. 917
Tait, A.J. 2027
Tank, W.G. 1446
Tankin, R.S. 82
Tarshis, M.K. 646, 647
Tayler, N.M. 648
Taylor, B. 1497
Taylor, R.B. 2234
Teleki, G. 2028-2031
Thiele, E.H. 649
Thomas, C.W. 650, 2032
Thomas, D.R. 2248
Thomas, M.K. 1462-1464
Thompson, A. 2033
Thompson, H.A. 1371, 1465-1471
Thompson, T.G. 229, 1737
Thompson, T.W. 2034
Thorén, R. 2035, 2036, 2172
Thorndike, A.S. 320, 1100, 1437, 1969, 2189,
2200, 2319
Thorpe, M.R. 1472
Tidmarsh, W.G. 1730-1732
Tien, C. 376
Tiller, W.A. 127, 128
Timofeev, V.T. 1787-1792
Timokhov, L.A. 321, 1185, 1210, 1273-1276
Timonov, V.V. 2037
Titus, R.L. 1464
Tolstikov, E.I. 1277

Tooma, S.G. 1926, 1957
Trangeled, S. 2301
Tranter, G.J. 918
Trask, P.D. 1757
Tremblay, A. 919
Treshnikov, A.F. 1146, 1278, 1558, 1793, 1794
Tripp, R.B. 1603, 1795-1797
Troelson, J.C. 1101
Tsang, Y.W. 1310
Tsepkov, L.P. 33
Tsurikov, V.L. 322-329, 2038
Tsurikova, A.P. 329
Tsutomu, I. 1073
Tucker, W.B. III. 1041, 1957, 2225, 2235
Tully, J.P. 1763, 1798, 1799
Tunnell, G.A. 1102, 2039
Twitchell, P.E. 2143
Tyrrell, J.B. 920
Tyson, G.E. 921

U

Uchipi, E. 1642
Uglev, V.D. 196, 1222, 1283
United Nations Educational, Scientific and Cul-
tural Organization (UNESCO). 2173
University of Michigan. 2053, 2054
University of Washington. 2174
Untersteiner, N. 80, 213, 214, 330-335, 1155,
1484-1488, 1967-1969, 2055, 2056, 2175,
2229, 2274, 2275
Uralov, N.A. 1949
U.S. Army. 1473-1475, 2330
U.S. Bureau of Aeronautics. 2040
U.S. Coast Guard. 1103, 2302
U.S. Congress. 651-653
U.S. Department of Transportation. 2176
U.S. National Academy of Sciences. 2177, 2178
U.S. National Research Council. 2179
U.S. Naval Arctic Research Laboratory. 1280
U.S. Navy. 654-662, 720-728, 1104-1108, 1279,
1476-1479, 1800-1811, 2041-2051, 2102,
2103, 2180

U.S. Treasury Department. 729, 1109, 1812,
1813
U.S. Weather Bureau. 1110, 1480-1483
Uspenskii, P.N. 341
Utina, Z.M. 1995

V

Valeur, H.H. 2057
Van Allen, L.C. 2163
Van Allen, W.H. 2058
Vance, G.P. 663-665, 673
Vandall, P.E. 1641
Vangeheim, G.Ya. 1408
Vant, M.R. 2320
Van Wijk, M.C. 2059
Veinberg, B.P. 336, 337, 922
Verrall, R.I. 1281
Vesso, J.J. 2060
Vialov, S.S. 338, 339
Vilks, G. 1814
Vilmundarson, T. 2210
Vinieratos, E.R. 2201
Vinje, T.E. 1111-1114, 1282, 2236
Vinogradov, I.W. 666
Vitman, F.F. 340
Vize, V.Iu. 1489, 1815, 2095
Vladimirov, O.A. 1115, 1490, 1491, 1816
Vlasov, L.I. 341
Voevodin, V.A. 2061, 2208
Voitkovskii, K.F. 342-344
Volkman, G.H. 2304
Volkov, N.A. 345, 346, 1154, 1278, 1283, 1865,
2062-2067
Vorob'ev, V.N. 1817
Voronov, P.S. 346
Vowinckel, E. 939, 1284, 1492-1497

W

Wadhams, P. 347, 2181, 2336
Waite, A.H. 2068, 2069
Wakahama, G. 348
Wakeham, W. 923
Walker, E.R. 248, 1699, 1716, 2337
Walker, J.C.F. 246

Walmsley, J.L. 1498
Ward, S.R. 485
Wardlaw, R.L. 1499
Wark, D.Q. 2070
Warner, J.I. 1162
Warnock Hersey International Limited. 667
Washburn, A.L. 1116
Watanabe, K. 1117-1120, 1285, 1818
Watson, A. 668-670
Weaver, J.C. 1121
Webb, W.W. 349
Weber, J.R. 1819
Webster, A.R. 503
Weeks, L.J. 924-926
Weeks, W.F. 9, 25, 26, 64, 131, 134, 199, 202,
350-366, 1020, 1021, 2182, 2211, 2228,
2237, 2245, 2338, 2339
Weir, T.R. 1122
Welch, M. 1123
Weller, G. 1500, 2267, 2276
Wells, R.D. 2183, 2184
Wendland, W.M. 1820, 1821
Wendler, G. 2071
Wennink, C.J. 671
Westhall, V.H. 2235
Westphal, K.O. 367, 1822
Weyprecht, K. 927
White, L.G. 912
White, R.M. 672, 673
Whitelaw, A.H. 674
Whitham, K. 2269
Whitman, W.G. 368
Whitney, H. 928
Wilheit, T.T. 2242, 2310, 2321
Wilimovsky, N.J. 1823, 2303
Wilkens, Sir G.H. 929, 930
Willand, J.H. 1850
Williams, G.P. 369, 675, 1501-1507, 2072, 2073,
2185
Wilson, C. 1508
Wilson, C.V. 1367, 1509
Wilson, H.P. 1307, 1510-1513

Wilson, J.T. 370
Winchester, J.W. 1286, 2238
Wing, L.W. 1514
Wittmann, W.I. 292, 1090, 1124, 1167, 1927-
1929, 2074-2077, 2322
Wolfe, L.S. 2186
Wolford, T.C. 1287, 1687
Wonders, W. 1125
Wood, C.D. 676
Woodworth, W.C. 1368
Wordie, J.M. 931-933
World Meteorological Organization. 1515, 2104,
2105
Worthington, L.V. 1671, 1786, 1824, 1825,
2304
Wright, B.D. 2252
Wright, F.F. 2326
Wright, J.W. 934
Wu, Jin. 371
Wyatt, A.G.N. 935
Wyman, M. 372

Y

Yamaji, K. 373
Yarham, E.R. 677
Yegorov, K.L. 1288
Yelisseyev, V.K.O. 678
Yen, Y-C. 374-377
Young, Sir A.W. 936
Young, C.W. 1976, 1977

Z

Zagorodnikov, A.A. 1851
Zaitsev, G.N. 1826
Zakharov, V.F. 1516
Zalite, J.A. 679
Zav'yalova, I.N. 1295
Zdanovich, V.G. 1289
Zhmurko, V.Ia. 1290, 2078
Zhukov, V.S. 378
Zhukovskaya, N.A. 1891
Zimmerman, L.W. 2143
Zinov'eva, M.M. 1291
Zotikov, I.A. 296
Zubenok, L.I. 1517
Zubian, G.D. 1518
Zubov, N.N. 379-381, 680, 937, 938, 1292-1294,
1519, 1520, 1827-1830, 2079-2082
Zvolinskii, N.V. 382
Zyler, B.V. 681

GEOGRAPHICAL INDEX/ INDEX GEOGRAPHIQUE

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Arctic: Eastern Hemisphere

387, 494, 509, 545, 749, 751, 753, 787, 811, 812, 841, 957, 1008, 1034, 1069, 1072, 1111-1114, 1213, 1223, 1238, 1293, 1596, 1783, 1811, 1813, 1907, 2020, 2117, 2118, 2209, 2322, 2340

Arctic: Western Hemisphere

385, 444, 453, 460, 472, 555, 569, 615, 619, 627, 628, 639, 643, 657, 659, 661, 667, 683, 685, 697, 698, 699, 701-708, 719, 720, 726, 728, 735, 737, 742, 775, 776, 787, 795, 818-820, 852, 862, 892, 894, 895, 919, 942, 970, 986, 987, 990, 996, 1001, 1011, 1014, 1020, 1022, 1024, 1053, 1055, 1057, 1065, 1090, 1097, 1105, 1106, 1121, 1122, 1125, 1135, 1278, 1286, 1297, 1302, 1326, 1327, 1329, 1331-1336, 1358, 1365, 1374, 1380-1382, 1407, 1414, 1416, 1425, 1463-1465, 1468, 1470, 1481, 1513, 1572, 1581, 1583, 1589, 1606-1608, 1611, 1633, 1645, 1663, 1666-1668, 1670, 1798, 1800, 1801, 1833, 1862, 1877, 1878, 1880, 1980, 2047, 2049, 2109, 2111, 2119, 2127, 2129, 2132, 2134, 2136, 2199, 2214, 2217, 2225, 2237, 2259, 2266, 2280, 2281, 2283, 2293, 2308, 2323, 2339

Baffin Bay (see also Smith Sound)

99, 438, 481, 560, 607, 656, 660, 683, 689, 697, 698, 701-708, 830, 897, 913, 931, 932, 934, 939, 941, 951, 981, 992, 993, 1032, 1068, 1105, 1106, 1124, 1212, 1498, 1527, 1534, 1545, 1574-1576, 1588, 1610, 1625-1627, 1631, 1642, 1648, 1688, 1730-1732, 1745, 1751, 1757, 1762, 1809, 2108, 2127, 2136, 2169, 2170, 2217, 2279, 2284, 2285, 2297, 2298, 2302, 2328

Baltic Sea

12, 13, 413, 422, 429, 576, 578, 622, 671, 813, 1016, 1017, 1074-1082, 1372, 1447, 1937, 1996, 2004, 2212, 2231

Barents Sea (see also Northern Sea Route)

17, 979, 1646, 1743, 1744, 1828, 1948

Beaufort Sea

65, 132, 697, 698, 701-708, 738, 756, 784, 786, 787, 903-909, 941, 978, 983, 1013, 1040, 1052, 1132, 1138, 1142, 1143, 1229, 1230, 1340, 1411, 1417, 1541, 1547, 1563, 1598, 1639, 1669, 1676, 1679, 1681, 1691, 2336, 2337

Bering Sea/Strait

887, 893, 917, 978, 991, 1531, 1594, 1595, 1603, 1655, 1669, 1694, 1711, 1747, 1755, 1763, 1812, 1826, 2277, 2318

Canadian Arctic Archipelago (see also Northwest Passage, Queen Elizabeth Islands)

393, 435, 690, 693, 697, 698, 701, 703-708, 762, 763, 778, 779, 797, 830, 836, 865, 880, 881, 885, 889, 899, 903, 905, 915, 916, 941, 962, 964, 989, 1048, 1052, 1097, 1107, 1109, 1116, 1300, 1321, 1322, 1325, 1330, 1339, 1412, 1422, 1441, 1533, 1535, 1538, 1544, 1562, 1580, 1609, 1611, 1640, 1663, 1678, 1682, 1699, 1761, 1814, 1854, 1878, 1880, 1892, 2127, 2136, 2169, 2217, 2230, 2234, 2269

Chukchi Sea

730, 756, 784, 893, 1181, 1524, 1603, 1673, 1694, 1763, 1812, 1813, 2238

Davis Strait

656, 683, 689, 697, 698, 701–708, 769, 857, 858, 897, 902, 923, 924, 946, 951, 981, 993, 1032, 1068, 1115, 1124, 1163, 1526, 1527, 1560, 1578, 1588, 1625–1627, 1648, 1705, 1757, 1775, 1776, 1809, 2127, 2170, 2217, 2298

Denmark Strait

981, 1041, 1525, 1695, 1720, 1797, 1825

Greenland Sea

689, 818–820, 942, 943, 981, 1036, 1058, 1093, 1126, 1282, 1284, 1455, 1459, 1521–1523, 1525, 1553, 1557, 1559, 1623, 1632, 1718, 1719, 1724, 1772, 1775, 1776, 1797, 1810, 1826, 1929, 1948, 2210, 2232, 2287, 2289, 2300, 2301

Gulf of Alaska

978

Gulf of St. Lawrence

436, 556, 564, 565, 599, 631, 684, 691, 697, 702, 703, 953, 955, 969, 997, 999, 1000, 1051, 1056, 1094, 1171, 1202, 1205–1207, 1256, 1257, 1310, 1375, 1396, 1424, 1537, 1612, 1641, 1680, 1702, 1703, 1706, 1867, 1874, 1880, 2087, 2122, 2127, 2136, 2137, 2202, 2203, 2218, 2252, 2286, 2294, 2331

Hudson Bay/Strait/Foxe Basin

123, 392, 403, 427, 432, 455, 456, 459, 466, 476, 513, 514, 517, 527, 546, 683, 695–698, 701–708, 712–714, 717, 718, 740, 741, 752, 760, 762, 763, 766, 780, 781, 783, 794, 799, 810, 823, 825–829, 833–835, 842–846, 853–855, 866, 879, 883, 891, 898, 901, 919, 923, 925, 926, 941, 948, 951, 958, 959, 965, 966, 974, 977, 984, 988, 998, 1002, 1006, 1009, 1010, 1044, 1046, 1061, 1066, 1067, 1228, 1296, 1320, 1330, 1415, 1423, 1466, 1471, 1536, 1539, 1540, 1542, 1543, 1564–1568, 1572, 1577, 1581, 1586, 1587, 1589, 1590, 1613, 1627, 1628, 1638, 1652, 1653, 1658, 1659, 1661, 1820, 1821, 1836, 1859, 1875, 1883, 1918, 1919, 1941, 1947, 1986, 2125, 2127, 2136, 2219

Kara Sea (see also Northern Sea Route)

16, 17, 122, 1009, 1070, 1430, 1438, 1528, 1636, 1646, 1779, 1921

Labrador Sea

363, 456, 683, 689, 695, 697, 698, 701–708, 809, 935, 941, 943, 951, 956, 1106, 1124, 1130, 1131, 1374, 1375, 1526, 1527, 1556, 1570, 1578, 1579, 1588, 1628, 1648, 1686, 1705, 1746, 1786, 1809, 1905, 1924, 1951, 2021, 2127, 2218

Laptev Sea (see also Northern Sea Route)

1069, 1145, 1348, 1811, 1813, 2311

Lincoln Sea

862, 873, 882, 1101, 1765

Nares Strait/Kennedy Channel/Robeson Channel

697, 698, 701-704, 774, 785, 792, 806, 856, 862, 870-872, 882, 915, 921, 963, 994, 995, 1085, 1168, 1610, 1642, 1729, 1751, 2127, 2217, 2221

North Atlantic Ocean

689, 697, 702, 703, 724, 888, 897, 943, 954, 956, 1047, 1058, 1102, 1103, 1110, 1141, 1235, 1279, 1296, 1455, 1456, 1458, 1579, 1626, 1634, 1662, 1707, 1756, 1759, 1780, 1816, 1838, 1884, 1948, 1949, 2008, 2021, 2048, 2052, 2202, 2226, 2295, 2300, 2301, 2304, 2329

Northern Sea Route (U.S.S.R.)

419, 420, 421, 423, 426, 431, 543, 638, 749, 922, 1095

Northwest Passage (see also Canadian Arctic Archipelago)

386, 435, 442, 471, 472, 495, 498, 515, 533, 586, 618, 645, 677, 694, 697, 698, 701-708, 731, 732, 747, 786, 787, 790, 791, 800-803, 815-817, 821, 822, 830-832, 849, 867-869, 890, 903, 905, 913, 933, 936, 941, 945, 964, 971-973, 1052, 1054, 1062, 1084, 1087, 1088, 1097, 1281, 1286, 1357, 1419-1421, 1434, 1467, 1501, 1582, 1585, 1604, 1677, 2127, 2141, 2167, 2169, 2170, 2204, 2217, 2328

Okhotsk Sea

304, 313, 917, 1003-1005, 1025-1031, 1042, 1043, 1117-1120, 1128, 1129, 1177, 1224, 1226, 1268-1272, 1285, 1643, 1818, 1915, 1965, 2152, 2273, 2278

Queen Elizabeth Islands (see also Canadian Arctic Archipelago)

686-688, 693, 697, 698, 701-708, 715, 716, 941, 962, 963, 973, 1012, 1014, 1015, 1049, 1086, 1092, 1394, 1663, 2127, 2214, 2217, 2222, 2257, 2258, 2265, 2316

Sea of Japan

917, 1290

Smith Sound (see also Baffin Bay/Nares Strait)

697, 765, 856, 861, 862, 939, 1588, 1631, 2217, 2279, 2297, 2298

Spitzbergen area (see also Greenland Sea/Barents Sea)

1111, 1557

White Sea (see also Northern Sea Route)

585

