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A Cumulative index to

Permafrost

Conference Proceedings, 1958-1983

J.A. Heginbottom, M. Sinclair

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**CUMULATIVE INDEX TO PERMAFROST
CONFERENCE PROCEEDINGS (1958-1983)**

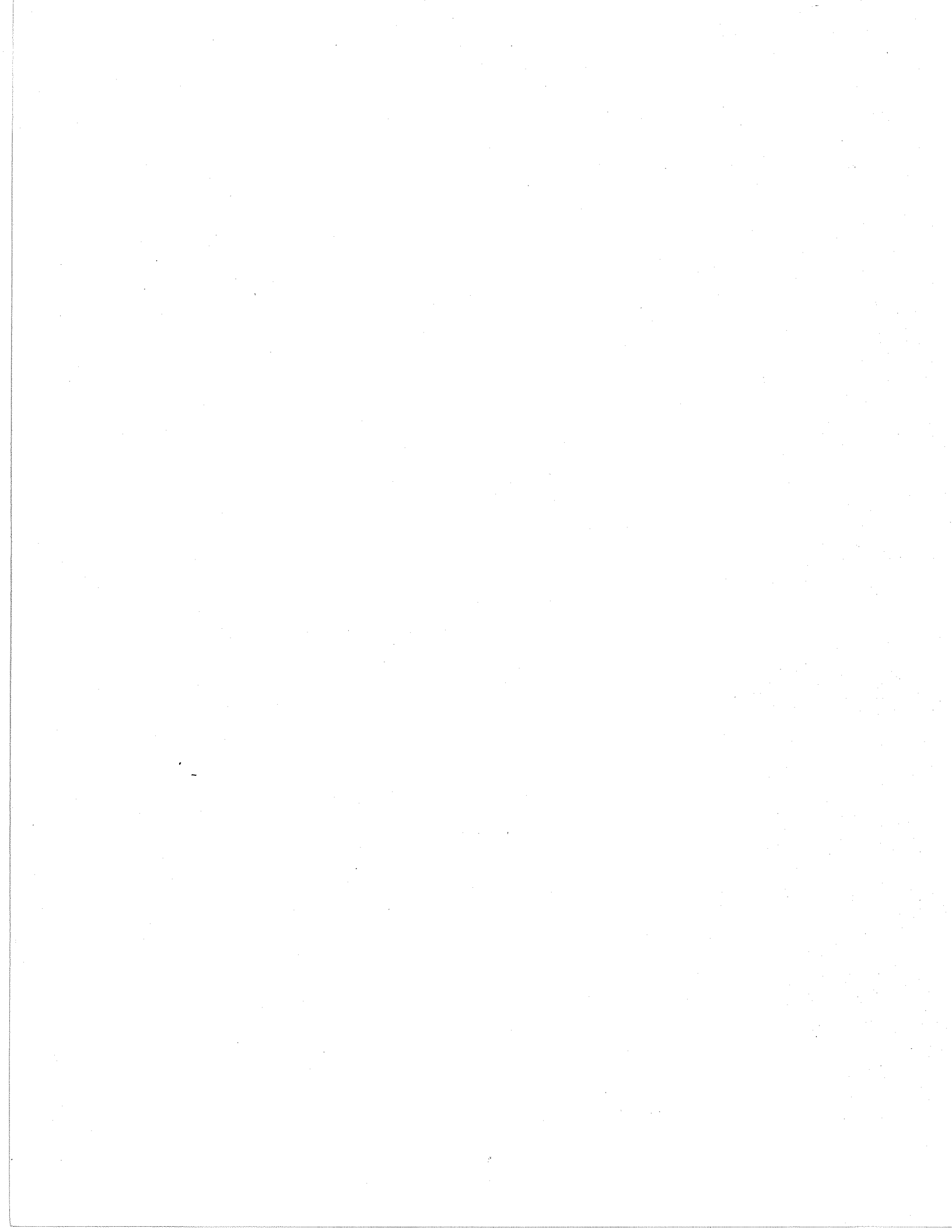
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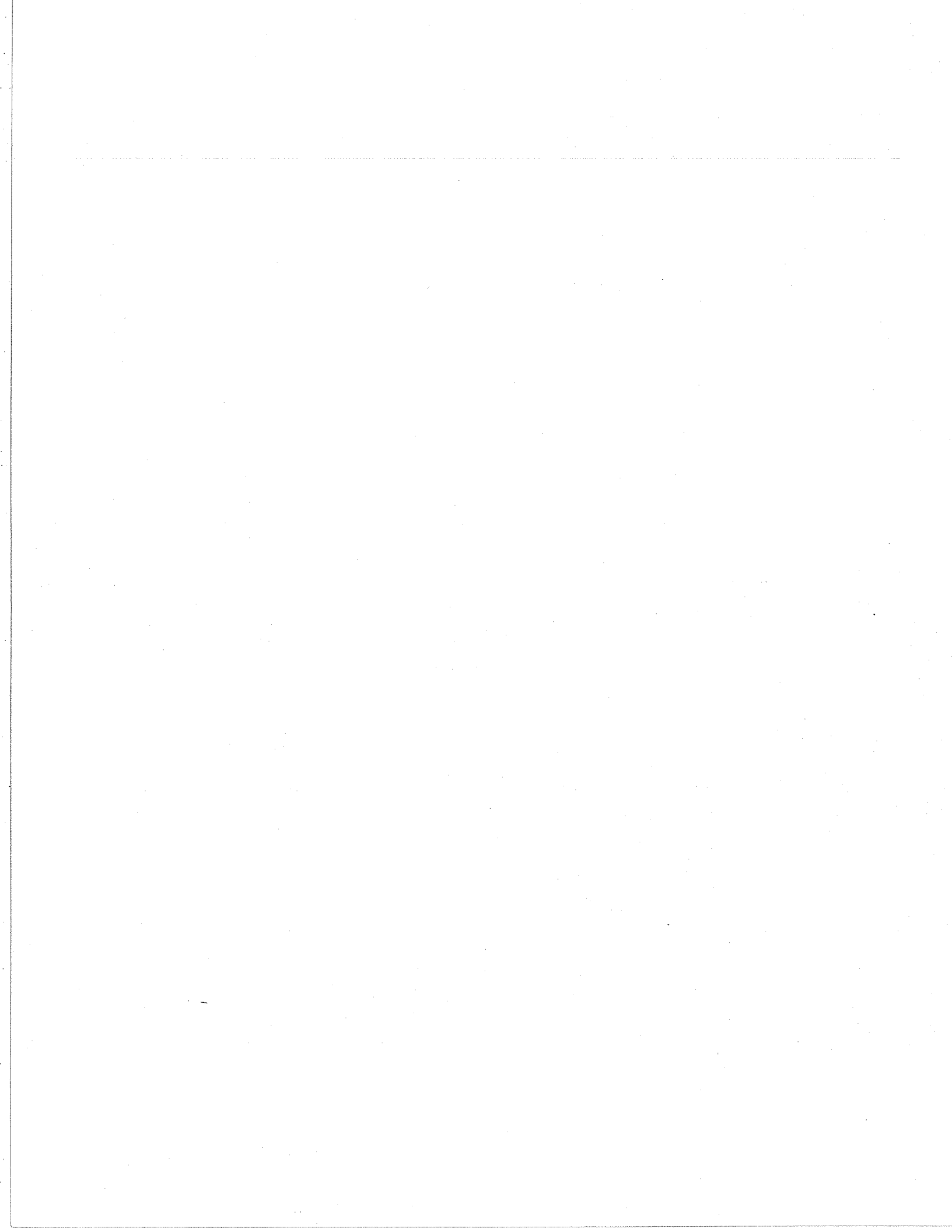
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ABSTRACT

This index covers the published proceedings volumes and field excursion guidebooks produced for four international Conferences on Permafrost (1963, 1973, 1978 and 1983), four Canadian Permafrost Conferences (1962, 1964, 1969 and 1981) and eight smaller meetings on special aspects of permafrost science and engineering held in Canada between 1971 and 1979. The main subject index is a computer generated, key-word index of titles; separate regional and author indexes are included. Of the nearly 1200 papers, etc., indexed, all but 35 are in English or have been translated into English. Of these 35, one is in French and 34 are in Russian; English abstracts are available for all of these.



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INTRODUCTION

Permafrost, or perennially frozen ground, is a widespread phenomenon of the arctic, subarctic and alpine regions of the earth. It underlies about one-fifth of the earth's land area and about one-half of the land area of Canada. Permafrost is also known to underlie parts of the seabed of northern Canada, Alaska and the USSR. Permafrost, ground ice and ground freezing place major geotechnical constraints on exploration and development in polar lands. Thus the study of permafrost and associated phenomena are of considerable interest to engineers, scientists and planners working in or responsible for these environments. Although the existence of permafrost has been known for several hundred years, and it has been studied scientifically for over a century, the problems it causes for engineers really came to prominence in North America only in the middle years of the present century: the term "permafrost" was coined by S.W. Muller in 1943.

The first conference held in North America to discuss permafrost was held in Ottawa, Canada, in March 1958. Thirty-three people took part in the discussions. There was no formal presentation of papers, but a summary of their deliberations was published a year later. Since that meeting, there have been four International Conferences on Permafrost (1963, 1973, 1978 and 1983) and four Canadian Permafrost Conferences (1962, 1964, 1969 and 1981). There have also been eight smaller meetings in Canada on special aspects of permafrost science and engineering which resulted in published proceedings volumes. These various conferences and meetings have resulted in the publication of a total of 22 volumes of proceedings plus four books of abstracts and 17 field guides (to the end of 1984.) These volumes include nearly 1200 scientific papers written by some 1400 authors. This body of literature is largely in English; 86 papers are in Russian and 2 are in French. One of the French papers and 52 of the Russian papers are already available in English. Abstracts of all papers are available in English.

The proceedings of these conferences, particularly the International conferences, have "over the years, served as standard references for students, scientists and engineers entering the fields covered, and, as such, have provided an invaluable source of scientific and technological data"*. Of the 22 volumes of proceedings, five include alphabetical indexes to the authors and one includes an index to major subject headings (one entry per paper). No other indexes are available to either subjects or titles. Thus there is a substantial body of literature for which no adequate index has existed prior to this present compilation.

*Polar Research Board (1981): Status Report, Fourth International Conference on Permafrost, July 1983, Fairbanks, Alaska.

SCOPE OF THE INDEX

This index covers the four international conferences on permafrost and all Canadian conferences and other meetings on permafrost which resulted in published proceedings volumes between 1962 and 1983. The published material used in compiling the index comprises the various proceedings volumes, two volumes of translations arising from the Third International Conference, a collection of papers submitted to the Fourth International Conference by the Russian Delegation, and field excursion guidebooks for the Second, Third and Fourth International Conferences. Only five guidebooks from the Fourth International Conferences are included, as only these were available by 31 December 1984--the closing date for inclusion.

Abstract volumes published prior to the Second, Third and Fourth International and Fourth Canadian Conferences have not been included in the index. This is because almost all the items in the abstracts volumes are superseded by full papers in the various proceedings volumes.

Other material that is not included comprises papers presented at other conferences not specifically dealing with permafrost. For example, there was a special symposium on Permafrost Geophysics organized in association with the 1975 meeting of the Geological Association of Canada. Most of the papers presented at this symposium were later published in the Canadian Journal of Earth Sciences, between November 1976 and May 1977. These papers are in the normal, library based search and retrieval system and thus it was seen as unnecessary to include them in this index.

USING THE INDEX

The Cumulative Index contains five parts:

- an index comprising a chronological list of the conferences, symposia, workshops, etc., for which Proceedings volumes were subsequently published;
- an index to the contents of each volume of Proceedings;
- an alphabetically arranged subject index, derived primarily by permuting the titles of the papers in the Proceedings volumes until significant terms were aligned at the left-hand margin of the page;
- a regional index listing papers with application to specific geographic areas; and
- an author index.

Index 1: Chronological List of Conferences, etc.

This index comprises a chronological list of meetings for which Proceedings volumes were subsequently published, and a list of the published volumes. It includes, as well, three sets of Excursion Guidebooks distributed to participants in the Second, Third, and Fourth International Conferences. The index is not a bibliographical description of the Proceedings volumes, but a statement that a conference or conferences were held during the year cited, and that the listed volumes of papers were subsequently published. The dates in the body of the index are those during which the meeting took place, not those of the publication of the volumes.

An identifying number (e.g.: 1963) placed to the left of each entry denotes the year in which the meeting was held and serves as the primary designator for the volume of Proceedings arising from the meeting. Where more than one volume was required to contain the published Proceedings of a single meeting, the primary designator is amended by the addition of capital letters (e.g.: 1978A, 1978B, 1978C, 1978D, 1978E) denoting, in order, the first and subsequent volumes. It should be observed, in this context, that when more than one meeting was held in a single year, the Proceedings volumes for the different meetings are also distinguished as above (e.g.: 1974A, 1974B).

For the purpose of conformity with this scheme each of the three series of Excursion Guidebooks, previously referred to, is treated as a single volume of which the individual Guidebooks form distinct parts.

Index 2: Contents of Conference Proceedings Volumes

This index is an accurate and complete statement of the contents of the volumes of published Proceedings and of the Excursion Guidebooks series; and is the index to which the Subject, Regional, and Author indexes refer. The Proceedings papers are listed by author and title in the sequence in which they appear in the original volumes. As well, the primary designator is amended by a number identifying the order of the paper in the volume (e.g.: 1973A-73 'Hoar, C.L., and Clark, L.K. A sanitary service complex for villages in permafrost regions: a demonstration project at Wainwright, Alaska, p.664.' is the 73rd paper to be found in the 1st volume of the Proceedings of the Second International Conference, held at Yakutsk in 1973). The page number at which the paper commences is also stated.

There occasionally appear, particularly in the case of translated papers, differences between the title listed in the original contents pages and the title at the head of the paper in the body of the volume of Proceedings. In such cases, that title which provides more specific information about the subject of the paper has, for the purpose of developing the Subject Index, been included here. Further, a few papers not listed in the original contents pages appear in the body of the published volumes. Those have also been included, with the pertinent page numbers. One or two papers cited in the original contents pages are not to be found in the body of the volumes. References to these have been omitted from this index.

In some volumes of Proceedings, only the principal (first) authors of papers are named in the contents pages. In the present index all authors are listed, in the order in which their names appear at the head of the published paper.

The member-volumes of the three series of Excursion Guidebooks are described analogously to the papers within the volumes of Proceedings, except that the total pagination of each Guidebook (e.g.: 94 p.) is substituted for the page number at which papers are shown to commence. The user of this index should remember, however, that each Guidebook volume is a distinct bibliographic entity; found by itself on library shelves, and so described in library catalogues.

Index 3: Subject Index

The Subject Index is composed from the titles of the papers listed in Index 2: Contents of Conference Proceedings Volumes. An average of four subject terms comprising a word or adjacent words, was selected from each title; and the title-strings were permuted as many times as necessary to bring each term, in its context, to the lefthand margin of the index. The index string-length of 65 character-positions is filled by the part of the title following the selected subject-term or, where necessary, by repetition of the title. The subject-terms are capitalized for ease of reference, and filing throughout is word-by-word. The designator of the indexed paper (e.g.: 1981-16) follows the title-string and, of course, refers the user to the previous index.

Some 250 titles were not considered to be sufficiently self-descriptive. These were editorially prefixed with appropriate subject-terms and inserted into the index; where each appears as a subject-term, followed by a colon (:), followed by a title-string of which the opening letter is printed in lower case. This form cannot be entirely relied upon as an indicator of added subject-terms, however, because a very small number of unamended titles contain a colon in the position following a key subject-term. In such cases, then, the suspicious reader should check the string following the colon, as well as the entire subject-string, against the entry appearing in the Contents of Conference Proceedings Volumes Index.

Index 4: Regional Index

This index records the designators of all papers which refer to specific geographic regions. A table of regions precedes the index proper, and users should scan this to determine the scheme of nomenclature employed.

Within the body of the index, designators are arranged chronologically beneath the names of the regions to which they apply, and are to be read across the page. Reference from the designators is, as with the Subject Index, to Index 2: Contents of Conference Proceedings Volumes.

Index 5: Author Index

The Author Index is an alphabetical listing of authors followed by the designators of the papers for which they are responsible. Designators are arranged chronologically, and are to be read across the page. A bracketed numeral preceding a designator indicates that the name of the author under consideration appears in that position in the list of authors at the head of the original paper as published and as reproduced in Index 2: Contents of Conference Proceedings.

Fifty-two Soviet contributions to the Third International Conference (1978), and one French contribution to the same Conference, appear in separate volumes in the original languages and in English translations. The original contributions are in 1978A and 1978B, and the translations in 1978C and 1978D. These are cross-referenced in the Author Index by linking both designators with a diagonal stroke. The reader with a facility in the original language may thus refer to either version, as s/he pleases.

Normalization of the spelling and initialization of names has been attempted only in those few cases where variants were known with certainty to refer to the same author. In general, to determine the complete contribution of an author, the user should scan all names in the vicinity of that of interest.

Acknowledgments

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- Brenda Nyman, Sharon Professional Services, for entering the whole mess into the word processing machine; and

- David Osborne, K.G. Campbell Corporation, for getting the whole mess out onto the printed page.

PERMAFROST CONFERENCES

In compiling this index, some statistical data on the various international and Canadian permafrost conferences have been developed (Tables 1 and 2). A review of these data illustrates some aspects of the growth of knowledge in permafrost science and engineering in North America.

Perhaps the single, most meaningful measure of this is the cumulative total of the number of papers published in the various proceedings volumes. This record starts with the First Canadian Permafrost Conference (1962), when 19 papers were presented. The major increases in this cumulative total have resulted from the four International Conferences in 1963, 1973, 1978 and 1983. In between these major events, relatively small numbers of papers were presented at the various Canadian conferences, seminars, etc. The only exception to this is the Fourth Canadian Conference (1981), when 65 papers were presented and published.

A measure of the influence of the International conferences is the number of people registered as attending the meetings and the number of countries represented there. In 1963, about 300 people from nine countries attended the First International Conference in Lafayette, USA. Ten years later, in 1973, about 400 people from 12 countries attended the Second International Conference in Yakutsk, USSR. In 1978, at the Third International Conference in Edmonton, Canada, 450 people from 13 countries were present. The largest meeting, however, was the Fourth International Conference in Fairbanks, USA, when 850 people from 25 countries were present.

Similar figures for the various Canadian meetings are less dramatic. The first, second and third Canadian Permafrost Conferences, in 1962, 1964 and 1969, were relatively small meetings, and only 19, 12 and 15 papers were included in the respective proceedings volumes. These conferences were followed by a series of specialized meetings on particular aspects of permafrost study during the 1970's. The number of papers published ranged from 7 to 20, the attendance ranged from 45 to over 200. The Fourth Canadian Permafrost Conference in 1981 was altogether a larger meeting, with 65 papers included in the proceedings volumes, and an attendance of 235. Over the years, the average attendance at the meetings in Canada has been 90% Canadian, with the remaining 10% primarily from the United States. Non-North Americans have attended only five of the 13 meetings in Canada.

Any comparative evaluation of the range of material presented at the various conferences is difficult. Each of the major conferences has been structured in a different way, while the smaller meetings were generally organized around a single theme. This review is therefore just a summary of the various themes of each of the conferences.

International Conferences

- First International Conference, (1963): nine themes with an average of eleven papers per theme;
- Second International Conference (1973): seven themes with an average of twelve papers per theme in the North American Contribution and 34 papers per theme in the USSR contribution;
- Third International Conference (1978): in Volume I, six themes under the general heading of "Permafrost Science", with twelve papers per theme; plus seven themes under the heading "Permafrost Engineering", with nine papers per theme. In addition there are eight review papers and four papers from the Chinese Delegation in Volume II of the proceedings;
- Fourth International Conference (1983): in the main volume, the papers are arranged alphabetically by author. The subject index identifies 24 topics and there are an average of eleven papers per topic. The final proceedings volume includes reports of panel discussions on six special themes, six papers from the USSR delegation on special themes and 27 other papers. A further volume of 34 papers is also contributed by the USSR delegation.

Canadian Conferences

- The first, second and third Canadian Permafrost Conferences (1962, 1964, 1969) had simple programs with two to four themes and two to eight papers per theme.
- The Fourth Canadian Conference was organized in seven themes, with an average of nine papers per theme.
- With three exceptions, the Canadian permafrost seminars were organized as single theme meetings, with an average of eleven papers per meeting. The other three meetings comprised two or three themes, with an average of six papers per theme.

Table 1: Statistical Summary of Permafrost Conferences

Conference Title	Venue	Date	Number of People Attending	Number of Countries Represented
Permafrost Research Conference	Ottawa	1958	33	2
First Canadian Conference	Ottawa	1962	159	2
First International Conference	Lafayette	1963	c.300	9
Canadian Regional Conference	Edmonton	1964	153	2
Third Canadian Conference	Calgary	1969	349	3
Active Layer Seminar	Vancouver	1971	91	2
Thermal Regime Seminar	Saskatoon	1972	110	2
Second International Conference	Yakutsk	1973	c.400	12
Hydrology Workshop Seminar	Calgary	1974	206	3
Geophysics Symposium	Calgary	1974	207	3
Geophysics Symposium	Vancouver	1976	100	2
Field Methods and Geophysics	Saskatoon	1977	87	2
Third International Conference	Edmonton	1978	451	13
Geophysics Symposium	Calgary	1978	84	4
Engineering Workshop	Quebec	1979	44	2
Fourth Canadian Conference	Calgary	1981	234	6
Fourth International Conference	Fairbanks	1983	851	25

Table 2: Statistical Summary of Published Proceedings

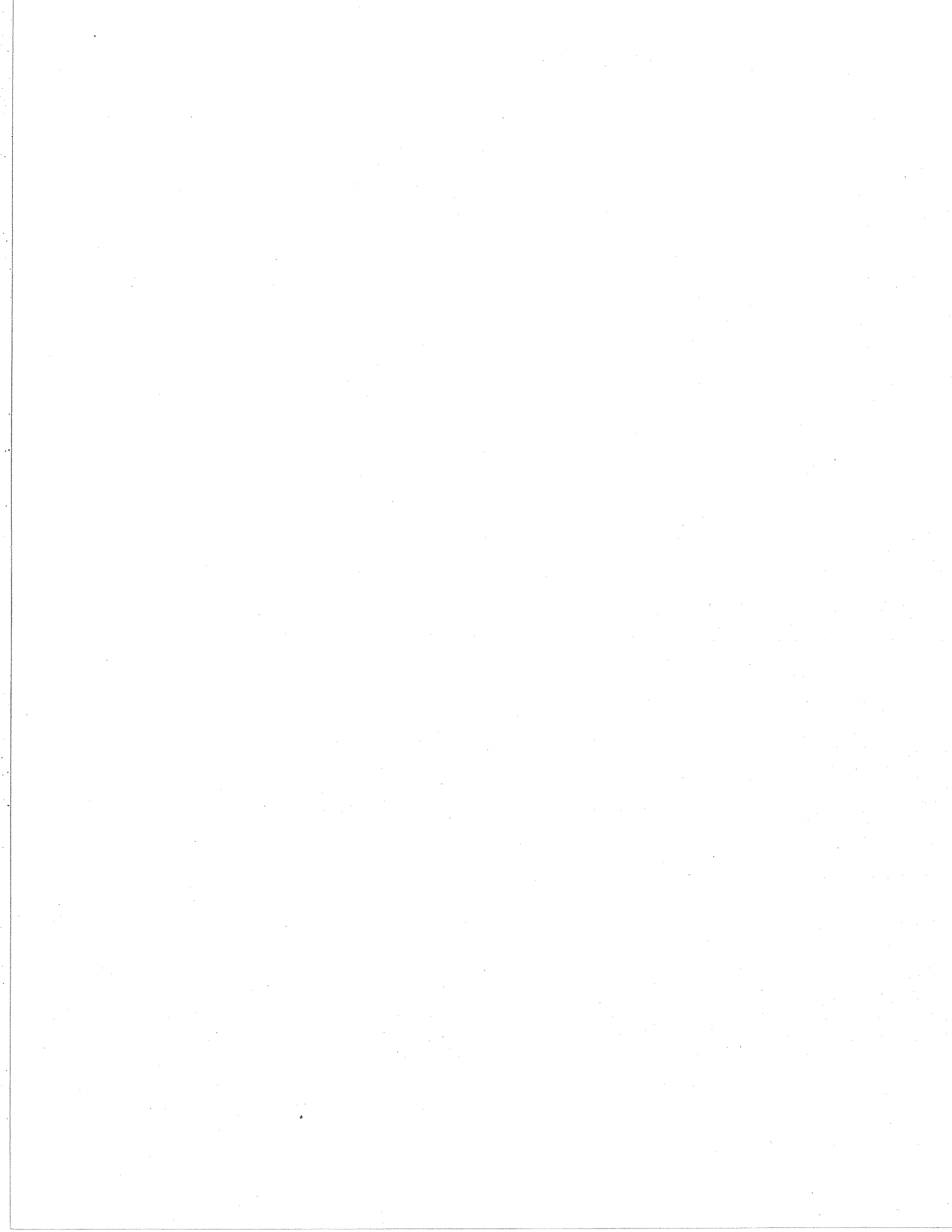
Conference Title	Date	Number of Papers		Number of authors (4)
		Presented at meeting (1)	Cumulative total published	
Permafrost Research Conference	1958	(minutes only)		
First Canadian Conference	1962	19	19	23
First International Conference	1963	103	122	145
Canadian Regional Conference	1964	12	134	13
Third Canadian Conference	1969	15	149	19
Active Layer Seminar	1971	9	158	10
Thermal Regime Seminar	1972	11	169	12
Second International Conference	1973	329 (2)	498	478
Hydrology Workshop Seminar	1974	12	510	13
Geophysics Symposium	1974	14	524	27
Geophysics Symposium	1976	11	535	21
Field Methods and Geophysics	1977	20	555	33
Third International Conference	1978	158 (2)	713	297
Geophysics Symposium	1978	15	728	31
Engineering Workshop	1979	7	735	10
Fourth Canadian Conference	1981	65	800	92
Fourth International Conference	1983	416 (2), (3)	1216	870

(1) The designation of some contributions as either papers or discussion has been to some degree arbitrary. Other compilers could therefore arrive at slightly different figures, particularly for the International Conferences.

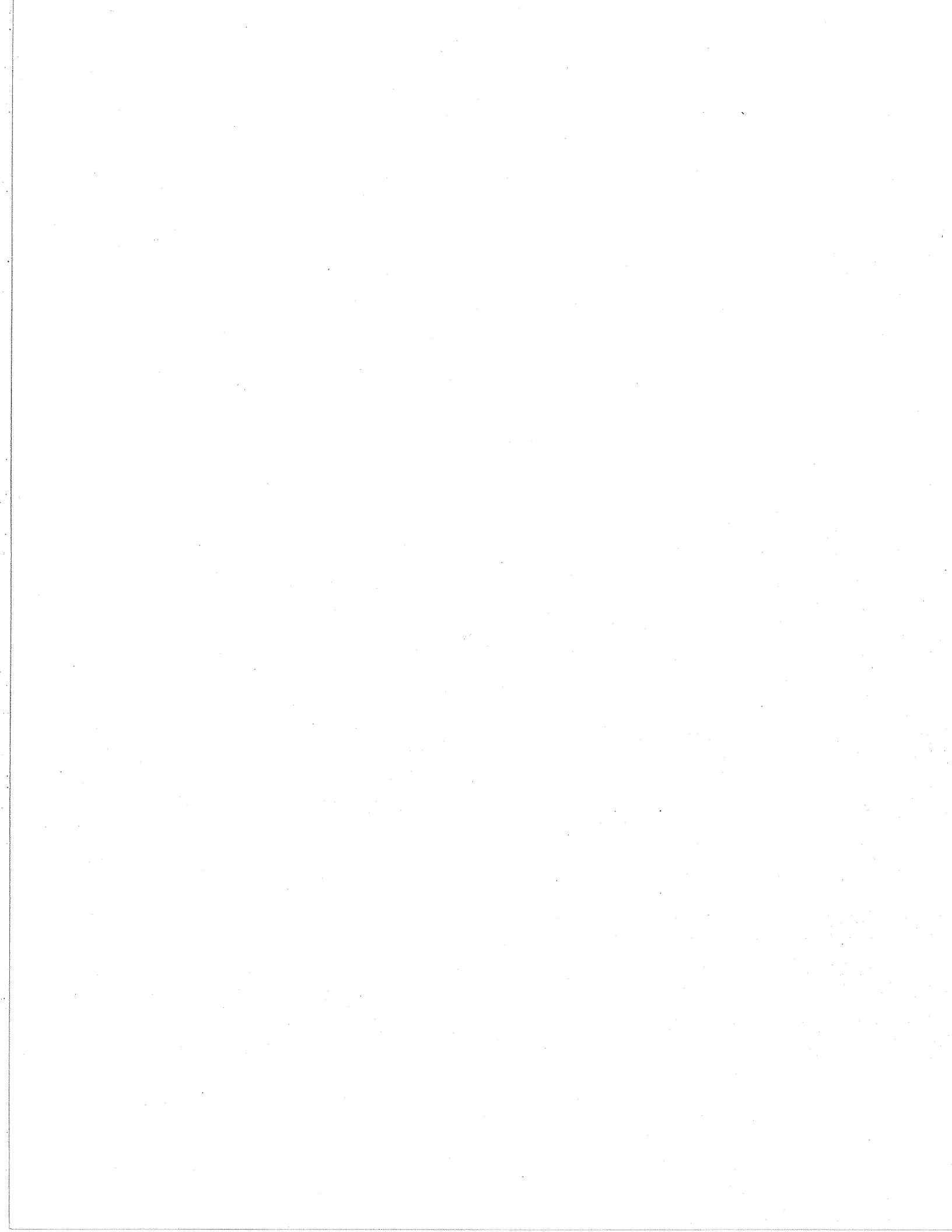
(2) Includes Excursion Guidebooks.

(3) Includes Problems of Geocryology (Untrans. contributions from the U.S.S.R.)

(4) These figures do not allow for the fact that some people authored or co-authored more than one paper. Thus the number of individual authors is less than these totals.



CHRONOLOGICAL LIST OF CONFERENCES, ETC.



CHRONOLOGICAL LIST OF CONFERENCES, ETC.

- 1962 First Canadian Conference on Permafrost. Ottawa, Ontario, Canada. 17 and 18 April, 1962. Proceedings.
- 1963 Permafrost International Conference. Lafayette, Indiana, U.S.A. 11 to 15 November, 1963. Proceedings.
- 1964 Canadian Regional Permafrost Conference. Edmonton, Alberta, Canada. 1 and 2 December, 1964. Proceedings.
- 1969 Third Canadian Conference on Permafrost. Calgary, Alberta, Canada. 14 and 15 January, 1969. Proceedings.
- 1971 Seminar on the Permafrost Active Layer. Vancouver, British Columbia, Canada. 4 and 5 May, 1971. Proceedings.
- 1972 Seminar on the Thermal Regime and Measurements in Permafrost. Saskatoon, Saskatchewan, Canada. 2 and 3 May, 1972. Proceedings.
- 1973A Second Permafrost International Conference. Yakutsk, Siberia, U.S.S.R. 13 to 28 July, 1973. (North American Contribution).
- 1973B Second Permafrost International Conference. Yakutsk, Siberia, U.S.S.R. 13 to 28 July, 1973. (U.S.S.R. Contribution).
- 1973C Second Permafrost International Conference. Yakutsk, Siberia, U.S.S.R. 13 to 28 July, 1973. Excursion Guidebooks.
- 1974A Workshop Seminar on Permafrost Hydrology. Calgary, Alberta, Canada. 26 to 28 February, 1974. Proceedings.
- 1974B Symposium on Permafrost Geophysics. Calgary, Alberta, Canada. 27 and 28 February, 1974. Proceedings.
- 1976 Symposium on Permafrost Geophysics. Vancouver, B.C., Canada. 12 October, 1976. Proceedings.
- 1977 Symposium on Permafrost Field Methods, 3 October, 1977, and Permafrost Geophysics, 4 October, 1977. Saskatoon, Sask., Canada. Proceedings.

- 1978A Third International Conference on Permafrost. Edmonton, Alberta, Canada. 10 to 13 July, 1978. Proceedings, v.1. (Original contributions).
- 1978B Third International Conference on Permafrost. Edmonton, Alberta, Canada. 10 to 13 July, 1978. Proceedings, v.2. (Original contributions).
- 1978C Third International Conference on Permafrost. Edmonton, Alberta, Canada. 10 to 13 July, 1978. English translations of twenty-six of the Soviet papers.
- 1978D Third International Conference on Permafrost. Edmonton, Alberta, Canada. 10 to 13 July, 1978. English translations of twenty-three of the Soviet papers, and the French paper, and the three invited Soviet theme papers.
- 1978E Third International Conference on Permafrost. Edmonton, Alberta, Canada. 10 to 13 July, 1978. Excursion Guidebooks.
- 1978F Symposium on Permafrost Geophysics (No.5). Calgary, Alberta, Canada. 13 and 14 November, 1978. Proceedings.
- 1979 Workshop on Permafrost Engineering. 27 and 28 September, 1979. Quebec City, P.Q., Canada. Proceedings.
- 1981 Fourth Canadian Permafrost Conference. Calgary, Alberta, Canada. 2 to 6 March, 1981. Proceedings.
- 1983A Permafrost Fourth International Conference. Fairbanks, Alaska, U.S.A. 17 to 22 July, 1983. Proceedings.
- 1983B Permafrost Fourth International Conference. Fairbanks, Alaska, U.S.A. 17 to 22 July, 1983. Final Proceedings.
- 1983C Permafrost Fourth International Conference. Fairbanks, Alaska, U.S.A. 17 to 22 July, 1983. Excursion Guidebooks.
- 1983D Permafrost Fourth International Conference. Fairbanks, Alaska, U.S.A. 17 to 22 July, 1983. Problems of Geocryology. (Untranslated contribution from the U.S.S.R.).

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CONTENTS OF CONFERENCE PROCEEDINGS VOLUMES

- 1962 First Canadian Conference on Permafrost. Ottawa, Ontario, Canada. 17 and 18 April, 1962. Proceedings.
- 1962-1 Lloyd, T. The Influence of permafrost on northern development. p.1.
- 1962-2 Thompson, H.A. Freezing and thawing indices in northern Canada. p.18.
- 1962-3 Day, J.H. Pedogenic studies on soils containing permafrost in the Mackenzie River basin. p.37.
- 1962-4 Beschel, R.E. Observations on the time factor in interactions of permafrost and vegetation. p.43.
- 1962-5 Radforth, N.W. The ice factor in muskeg. p.57.
- 1962-6 Mackay, J.R. Origin of the pingos of the Pleistocene Mackenzie Delta area. p.79.
- 1962-7 Yong, R. Research on fundamental properties and characteristics of frozen soils. p.84.
- 1962-8 Williams, P.J. Specific heats and unfrozen water content of frozen soils. p.109.
- 1962-9 Cook, F.A. Permafrost as a geomorphic process. p.127.
- 1962-10 Brandon, L.V. Groundwater in the permafrost regions of the Yukon, northern Cordillera and Mackenzie district. p.131.
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- 1962-13 Pihlainen, J.A. Field description of permafrost. p.156.
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- 1962-16 Lawrence, R.D. Permafrost and terrain factors in a tundra mine feasibility study. p.207.
- 1962-17 Annersten, L. Ground temperature measurements in the Schefferville area, P.Q. p.215.
- 1962-18 Johnston, G.H., and Brown, R.J.E. Effect of a lake on distribution of permafrost in the Mackenzie River Delta. p.218.
- 1962-19 Brown, W.G. Simple graphical methods for estimating the location of permafrost under shallow lakes and rivers. p.226.

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11 to 15 November, 1963. Proceedings.
- 1963-1 Legget, R.F. Permafrost in North America. p.2.
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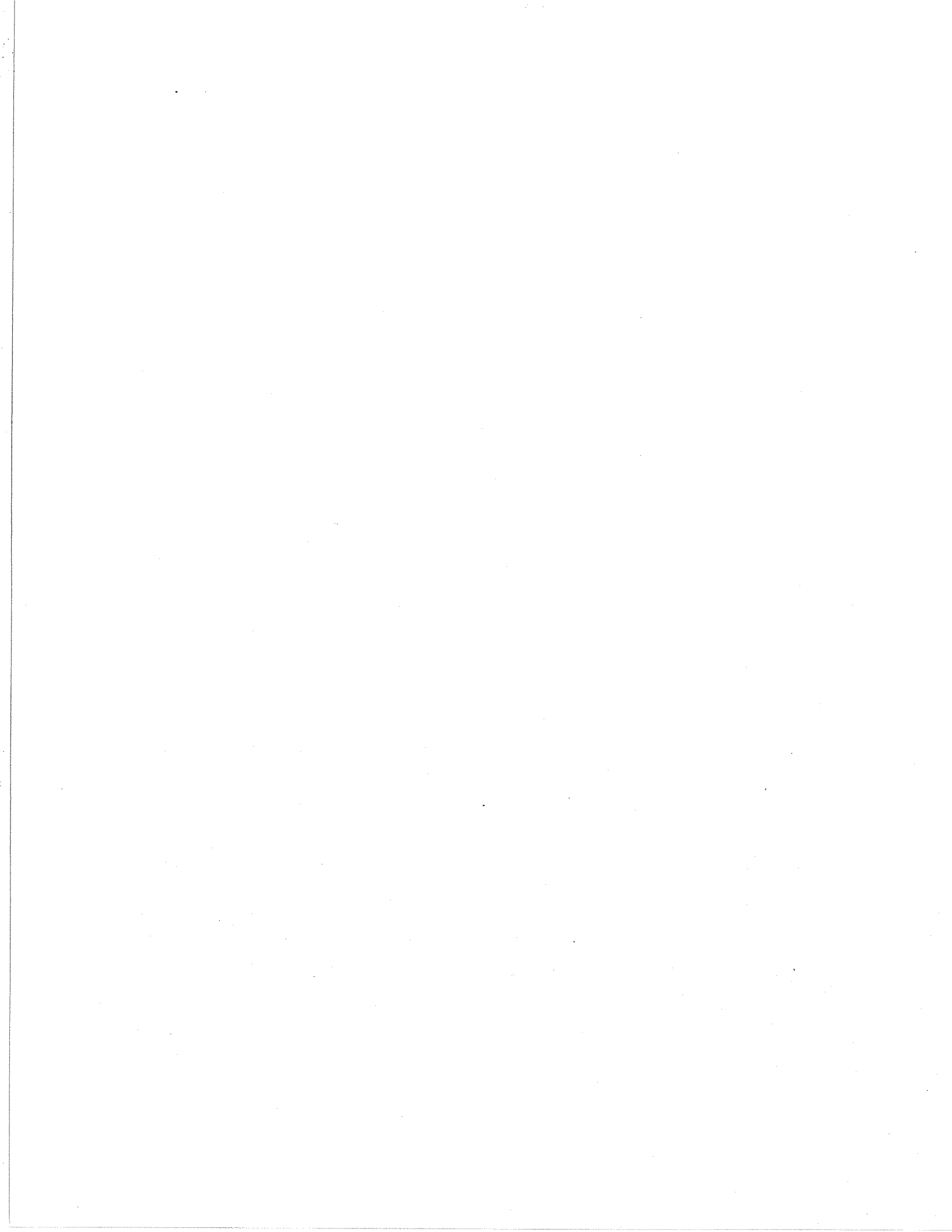
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1983A-126	1983A-127	1983A-132	1983A-138	1983A-142
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1983A-175	1983A-181	1983A-182	1983A-188	1983A-191
1983A-194	1983A-198	1983A-200	1983A-202	1983A-203
1983A-207	1983A-215	1983A-218	1983A-219	1983A-224
1983A-226	1983A-228	1983A-230	1983A-236	1983A-240
1983A-244	1983A-246	1983A-247	1983A-253	1983A-267
1983A-276	1983B-14	1983B-18	1983B-19	1983B-22
1983B-24	1983B-25	1983B-26	1983B-28	1983B-30
1983B-31	1983B-34	1983C-1	1983C-2	1983C-4
1983C-5				

North America: Canada (general)

1962-2	1962-5	1962-9	1962-15	1963-13
1963-22	1963-24	1963-46	1963-51	1963-64
1963-68	1963-69	1963-74	1963-95	1963-98
1964-1	1964-4	1964-6	1964-10	1969-1
1969-12	1971-1	1971-3	1971-4	1972-8
1972-9	1973A-2	1973A-3	1973A-87	1974A-1
1974A-3	1974A-4	1974A-8	1974A-12	1977-1
1978A-37	1978A-50	1978A-75	1978A-139	1978C-15
1978F-14	1978F-15	1981-32	1983A-89	1983A-256
1983B-29	1983B-35			

North America: Canada - Yukon

1962-10	1963-86	1969-7	1969-14	1971-8
1973A-24	1973A-26	1976-5	1978A-119	1978E-1
1979-2	1981-21	1981-52	1981-59	1983A-19
1983A-52	1983A-82	1983A-84	1983A-154	1983A-183
1983A-189	1983A-205	1983A-237	1983B-15	1983B-17
1983B-19	1983C-3			

North America: Canada - B.C.

1981-54

North America: Canada - Mackenzie

1962-3	1962-6	1962-10	1962-14	1962-18
1963-88	1964-12	1969-5	1969-6	1969-13
1971-2	1971-5	1971-7	1971-9	1972-3
1972-10	1972-11	1973A-5	1973A-8	1973A-9
1973A-24	1973A-58	1973A-71	1973A-84	1973A-86
1974A-5	1974B-8	1974B-9	1974B-10	1976-1
1976-2	1976-3	1976-5	1976-9	1976-10
1977-4	1977-9	1977-11	1977-12	1977-13

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North America: Canada - Mackenzie

(Continued)	1977-16	1978A-1	1978A-32	1978A-35
1978A-42	1978A-61	1978A-62	1978A-67	1978A-73
1978A-78	1978A-79	1978A-82	1978A-86	1978A-104
1978A-105	1978A-109	1978A-114	1978A-119	1978A-129
1978A-130	1978E-2	1978E-3	1978F-1	1978F-2
1978F-3	1978F-4	1978F-5	1978F-12	1978F-13
1979-4	1979-5	1979-6	1981-1	1981-17
1981-25	1981-26	1981-27	1981-31	1981-43
1981-60	1981-64	1983A-17	1983A-24	1983A-59
1983A-66	1983A-70	1983A-101	1983A-106	1983A-109
1983A-139	1983A-156	1983A-158	1983A-176	1983A-213
1983A-214	1983A-216	1983C-3		

North America: Canada - Alberta

1976-2	1978A-59	1978A-105	1978A-131	1978E-6
1981-7	1981-53	1983A-106		

North America: Canada - Saskatchewan

1964-11	1983A-185
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North America: Canada - Keewatin

1978A-3	1978E-4	1979-1
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North America: Canada - Manitoba

1962-11	1963-91	1964-5	1964-11	1973A-32
1978A-3	1978A-123	1978A-124	1978E-4	1981-8
1981-55	1983A-9	1983A-87	1983A-168	1983A-179
1983A-199				

North America: Canada - Franklin

1963-4	1969-3	1973A-22	1974A-6	1974B-12
1976-1	1976-11	1977-8	1977-10	1977-16
1981-2	1981-9	1981-14	1981-15	1981-16
1981-47	1983A-55	1983A-56	1983A-85	1983A-128
1983A-148	1983A-227	1983A-251	1983A-257	

North America: Canada - Ontario

1964-3	1973B-201	1978A-69	1981-10	1983A-107
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North America: Canada - Quebec-Labrador

1962-16	1963-93	1969-2	1969-3	1972-12
1973A-10	1973A-12	1973A-16	1973A-17	1973A-56
1976-6	1978A-10	1978A-21	1978A-65	1978E-5
1978F-7	1978F-8	1978F-9	1979-3	1979-7
1981-3	1981-5	1981-39	1981-65	1983A-258

North America: Canada - Atlantic Provinces

1973A-12

North America: U.S.A. (excluding Alaska)

1963-82	1963-99	1973A-11	1973A-72	1978A-93
1983A-71	1983A-77	1983A-190	1983A-243	1983A-252
1983B-68				

North America: Greenland

1963-9	1963-25	1963-73	1963-97	1963-100
1973A-68	1973A-85	1973B-207	1983A-253	

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1978A-40 1983A-252

Europe: (as a whole)

1963-18	1963-37	1973B-19	1983A-125	1983A-220
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Europe: North Atlantic Islands (Iceland, Faroes and Spitzbergen/Svalbard)

1963-27	1978A-72	1978A-132	1981-19	1983A-3
1983A-46	1983A-72	1983A-97	1983A-229	

Europe: British Isles

1983A-145

Europe: Norway

1963-50	1983A-83	1983A-112
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Europe: Denmark

1973B-200	1978A-39	1983A-29	1983A-117
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Europe: Belgium, Netherlands and Luxemburg

1983A-13	1983A-79	1983A-238
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Europe: Germany (W and E)

1978A-39	1983A-130
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Europe: Switzerland and Austria

1978A-53	1978A-58	1983A-61	1983A-78	1983A-108
1983A-110				

Europe: Sweden

1963-28	1963-29	1963-77	1973B-200	1978A-34
1981-63	1983A-112	1983A-223		

Europe: Poland and Czechoslovakia

1973B-75	1973B-106	1983A-157
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Europe: Finland

1981-4	1983A-206
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Asia: (as a whole)

1963-18	1963-36	1963-37
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Asia: USSR (general)

1963-2	1963-21	1963-70	1963-83	1963-84
1963-85	1963-101	1963-102	1973B-2	1973B-3
1973B-11	1973B-15	1973B-17	1973B-25	1973B-30
1973B-38	1973B-43	1973B-46	1973B-49	1973B-52
1973B-54	1973B-69	1973B-104	1973B-111	1973B-112
1973B-115	1973B-117	1973B-118	1973B-123	1973B-127
1973B-128	1973B-130	1973B-131	1973B-139	1973B-147
1973B-149	1973B-150	1973B-151	1973B-153	1973B-157
1973B-159	1973B-162	1973B-163	1973B-164	1973B-166

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Asia: USSR (general)

(Continued)	1973B-180	1973B-182	1973B-183	1973B-186
1973B-187	1973B-188	1973B-190	1973B-191	1973B-192
1973B-193	1973B-194	1973B-195	1973B-196	1973B-206
1973B-210	1973B-230	1977-3	1978A-11	1978A-28
1978A-33	1978A-37	1978A-43	1978A-51	1978A-64
1978A-66	1978A-68	1978A-77	1978A-115	1978A-126
1978B-4	1978B-6	1978B-7	1978B-13	1978C-4
1978C-13	1978C-14	1978C-15	1978C-17	1978C-21
1978C-25	1978C-26	1978D-1	1978D-4	1978D-14
1978D-18	1978D-26	1978D-27	1983A-49	1983A-63
1983A-69	1983A-111	1983A-119	1983A-197	1983A-217
1983B-2	1983B-5	1983B-8	1983B-16	1983B-21
1983B-27	1983B-37	1983B-38	1983B-40	1983B-41
1983B-42	1983B-47	1983B-48	1983B-50	1983B-53
1983B-57	1983B-62	1983B-67	1983D-1	1983D-4
1983D-5	1983D-28	1983D-34		

Asia: USSR - European Russia

1973B-19	1973B-29	1973B-32	1973B-53	1973B-145
1973B-202				

Asia: USSR - West Siberia

1973B-7	1973B-18	1973B-20	1973B-27	1973B-28
1973B-32	1973B-33	1973B-44	1973B-57	1973B-110
1973B-124	1973B-142	1973B-144	1973B-161	1978A-9
1978A-54	1978A-127	1978C-3	1978C-23	1978D-19
1983A-239	1983B-39	1983D-29	1983D-33	

Asia: USSR - Central Asia

1973B-63	1978A-57	1978C-24	1983A-67	1983D-27
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Asia: USSR - Central Siberia (including Yakutia)

1973B-5	1973B-6	1973B-23	1973B-26	1973B-31
1973B-34	1973B-35	1973B-36	1973B-39	1973B-40
1973B-47	1973B-60	1973B-62	1973B-102	1973B-103
1973B-108	1973B-110	1973B-113	1973B-114	1973B-119
1973B-124	1973B-136	1973B-146	1973B-160	1973B-178
1973B-185	1973B-203	1973B-204	1973B-208	1973B-209
1973B-232	1973C-1	1973C-2	1973C-3	1973C-4
1973C-5	1973C-6	1978A-116	1978A-122	1978B-2
1978D-15	1978D-17	1978D-25	1983A-28	1983A-153
1983A-265	1983B-45	1983B-55	1983B-61	1983D-3

Asia: USSR - Far East

1973B-22	1973B-23	1973B-24	1973B-33	1973B-45
1973B-59	1973B-71	1973B-121	1973B-143	1973B-158
1973B-167	1973B-179	1973B-203	1973B-229	1978A-68
1978A-138	1978B-2	1978D-1	1978D-24	1978D-25
1983A-1	1983A-28	1983A-114	1983A-231	1983A-265

Asia: Mongolia

1973B-8	1973B-21	1973B-109	1978A-29	1978A-63
1981-20	1983A-122			

Asia: China (general)

1978B-9	1983A-25	1983A-26	1983A-209	1983A-210
1983A-261	1983A-273	1983B-3	1983B-9	1983B-33

Asia: China - Northwest (Xinjiang, Gansu and Ningxia)

1983A-74	1983A-96	1983A-187	1983A-232	1983A-270
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Asia: China - Tibet (Xizang and Qinghai)

1978B-10	1978B-11	1978B-12	1983A-27	183A-39
1983A-43	1983A-74	1983A-95	1983A-96	1983A-211
1983A-234	1983A-260	1983A-262	1983A-269	1983A-271
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Asia: China - Northeast (Heilongjiang, Jilin and Liaoning)

1983A-38	1983A-40	1983A-57	1983A-88	1983A-129
1983A-135	1983A-164	1983A-222	1983A-249	1983A-250

Asia: Japan and Korea

1963-92	1973B-198	1978A-101	1983A-116	
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Asia: Southern Asia

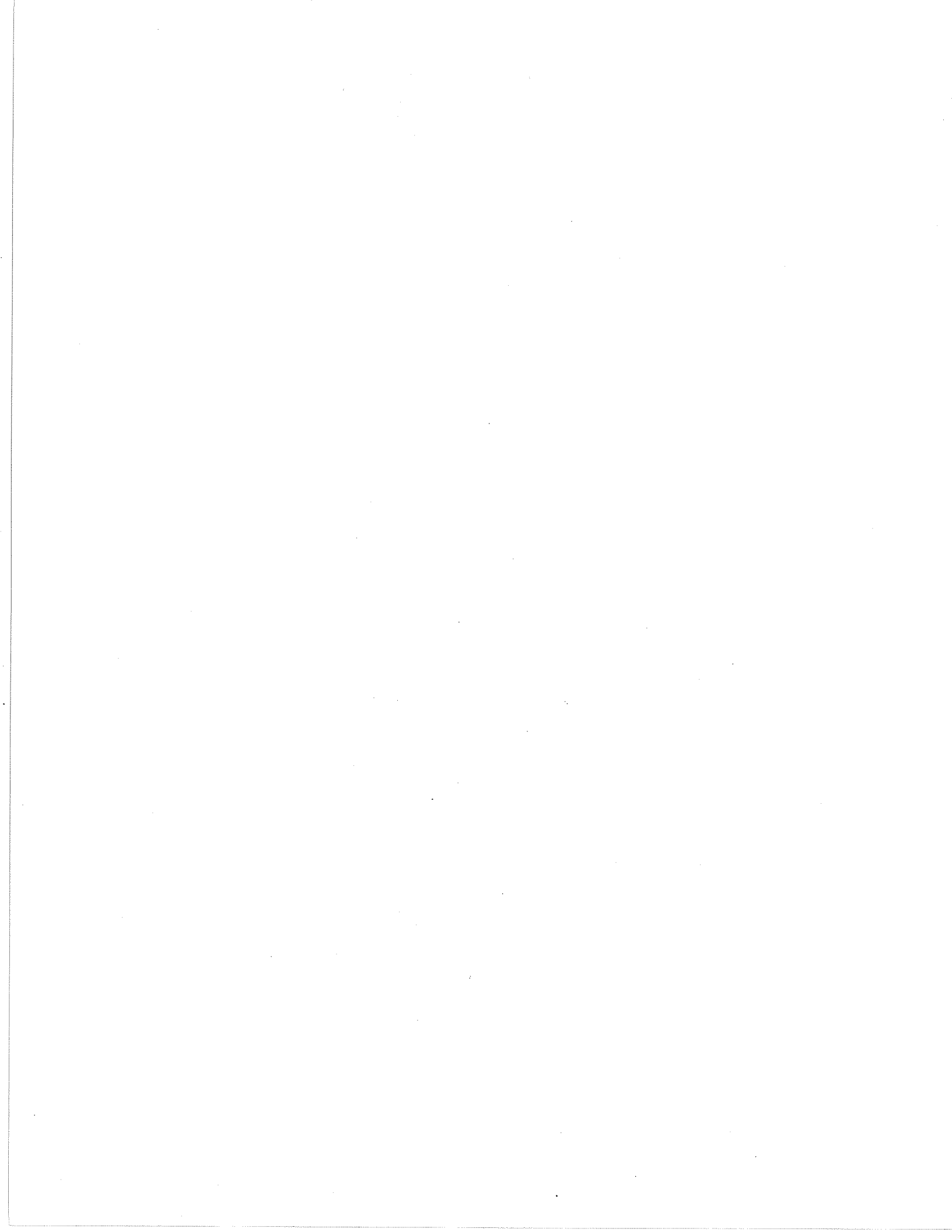
1983A-80

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1963-11	1963-23	1963-81	1973A-14	1973A-21
1973A-23	1973A-27	1978A-16	1983A-193	1983A-248

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1973A-55	1973B-1	1983A-15	1983A-20	1983A-31
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Danilova, N.S.	(2) 1973B-26 (3) 1978A-37/1978C-15 (3) 1983D-28	1973B-31 (3) 1978C-15/1978A-37
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Davis, J.L.	(2) 1976-5 (3) 1978F-8	(2) 1978A-75
Davis, R.M.	1963-100	
Davison, D.M.	1981-60	
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Demin, I.I.	(4) 1983D-5	
Dennis, J.G.	(3) 1983A-188	
Dertsakyan, A.K.	1973B-163	
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Devyatkin, V. N.	(2) 1973B-2	
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Dimo, V.N.	1973B-3	
Ding, D.	1983A-42	(2) 1983A-57
Ding, J.	1983A-43 1983B-3	(2) 1983A-269
Dingman, S.L.	1973A-48	
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Dmitrachenko, V.M.	(3) 1973B-181	
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Domaschuk, L.	1981-55	1983A-45
Dostovalov, B.N.	1963-19 (3) 1973B-89	(2) 1973B-4 (2) 1973B-194
Dostovalov, B.W.	1973B-80	
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Drewe, J.G.	1969-7	
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Dubnyak, V.A.	(3) 1973B-53	
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Dunayeva, Y.N.	1983A-49	(4) 1983A-63
Dydyshko, P.I.	(2) 1973B-223	
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Eroshenko, V.N.	(3) 1978A-128/1978D-20	(3) 1978D-20/1978A-128

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Esch, D.C.	1973A-67 (2) 1983A-12 (2) 1983A-151	1981-62 1983A-53 1983B-4
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Frolov, A.D.	1973B-84 1973B-100 1978D-11/1978A-97	(2) 1973B-91 1978A-97/1978D-11
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Schindler, J.F.	1983A-203	
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Shields, D.H.	(3) 1983A-45	
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