GLACIOLOGICAL DATA

PERMAFROST BIBLIOGRAPHY UPDATE
1983-1987

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for Glaciology
Snow and Ice

I. INTERNATIONAL CONFERENCE ON PERMAFROST
TRONDHEIM, NORWAY 1988

April 1988
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GLACIOLOGICAL DATA

REPORT GD-21

PERMAFROST BIBLIOGRAPHY UPDATE 1983-1987

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April 1988
DESCRIPTION OF THE WORLD DATA CENTER SYSTEM

The World Data Centers (WDCs) were established in 1957 to provide archives for the observational data resulting from the International Geophysical Year (IGY). In 1958 the WDCs were invoked to deal with the data resulting from the International Geophysical Cooperation 1959, the one-year extension of the IGY. In 1960, the International Council of Scientific Unions (ICSU) Comité International de Géophysique (CIG) invited the scientific community to continue to send to the WDCs similar kinds of data from observations in 1960 and following years, and undertook to provide a revised Guide to International Data Exchange for that purpose. In parallel the CIC inquired of the IGY WDCs whether they were willing to treat the post-IGY data; with few exceptions, the WDCs agreed to do so. Thus the WDCs have been serving the scientific community continuously since the IGY, and many of them archive data for earlier periods.

In November 1987 the International Council of Scientific Unions (ICSU) Panel on World Data Centers prepared a new version of the Guide to International Data Exchange, originally published in 1957, and revised in 1963, 1973 and 1979. The new publication, Guide to the World Data Center System, Part 1, The World Data Centers (General Principles, Locations and Services) was issued by the Secretariat of the ICSU Panel on World Data Centers. This new version of the Guide contains descriptions of each of the twenty-seven currently operating disciplinary centers, with address, telephone, telex, and contact persons listed. The reader is referred to the new Guide for descriptions of the responsibilities of the WDCs, the exchange of data between them, contribution of data to WDCs, and the dissemination of data by them. The WDCs for Glaciology are listed below.

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The following organization provides international data services including
data analyses and preparation of specialized data products. It merges the
previous activity of the Permanent Service on the Fluctuations of Glaciers and
the Temporary Technical Secretariat for World Glacier Inventory. These activ-
ities are not part of the WDC system but the center cooperates with WDCs in
the discipline. Users wishing assistance in seeking data or services from
this group may contact an appropriate WDC.

World Glacier Monitoring Service (WGMS)

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1Adapted from Guide to the World Data Center System. Part 1. The World Data
Centers (General Principles, Locations and Services). International Council
Foreword

This Data Report extends the bibliography prepared for the Fourth International Conference on Permafrost in July 1983 and published as Glaciological Data, Report GD-14. The bibliography covers the topics of permafrost, ground ice, frozen soils, engineering and geocryology. In addition to literature published since 1982, we have been able to include numerous Soviet references thanks to the kind assistance of Dr. P.I. Melnikov and Dr. N.A. Grave, USSR Academy of Sciences. The listings cover approximately 3300 references, indicating the continuing high level of interest in this field.

We hope that the information provided will contribute to the success of the Fifth International Conference being held in Trondheim, Norway, in August 1988, and will assist all scientists and engineers concerned with permafrost-related problems. We encourage the continued submission of published research and data-related materials on these topics to the World Data Center for incorporation into our computerized bibliographic system.

The bibliography was compiled by Ann M. Brennan of the WDC staff, ably supported by Claire S. Hanson, David Hendrix and Carol Pedigo. We thank Geza Thuronyi and Natalie Voshinin of the Cold Regions Bibliography Project, Library of Congress, for their considerable assistance. Dr. Jerry Brown, National Science Foundation, Division of Polar Programs and A.J. Roberto and Nancy Liston of the Cold Regions Research and Engineering Laboratory (CRREL) provided encouragement in the preparation of the bibliography. We are especially grateful to CRREL for funding the publication of “Permafrost Bibliography Update, 1983-1987.”

Roger G. Barry
Director
WDC-A for Glaciology [Snow and Ice]
National Snow and Ice Data Center
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PERMAFROST BIBLIOGRAPHY UPDATE
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Introduction

This bibliography provides a supplement to “Permafrost: A Bibliography, 1978-1982” published in Glaciological Data, Report GD-14. It covers the range of permafrost-related literature published from 1983 through 1987. We have included some citations for materials published in 1982. We were aided in this by Dr. P.I. Melnikov and Dr. N.A. Grave of the USSR Academy of Sciences. They reviewed the first bibliography and gave us a listing of 1982 Soviet publications which had been omitted.

The bibliography is presented in two sections, a categorized subject listing and an author index. The subject categories used are from the Cold Regions Bibliography Project Thesaurus. A listing of these categories used and the page on which they begin is given on pages 3-4.

We have attempted to be as comprehensive as possible by searching a variety of data sources and using broad subject categories. The major on line sources searched are:

COLD (Bibliography of Cold Regions Science and Technology)
GEOREF
GEOARCHIVE
NTIS (U.S. National Technical Information Service)
Dissertation Abstracts
Compendex (Engineering Index)
Meteorological and Geoastrophysical Abstracts
INSPEC
Citation (WDC/NSIDC).

Because we do not have all of the original material in hand, we cannot be certain of the completeness of each citation. However, every effort has been made to ensure accuracy.

We would appreciate your comments on the bibliography - on references we have not included, sources not searched, or subject areas which were not adequately covered. We plan to keep the “Permafrost Bibliography” up-to-date and your suggestions are welcome.

Ann M. Brennan
Compiler
Subject Categories

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