

**Library and Information Services Division  
Current References 2006-1**

**International Polar Year 2007-2008  
Resources on Polar Research in the NOAA Central Library Network  
A Selected Bibliography**



*Leffingwell's Flaxman Island Base - in use 1909-1911*

*from: NOAA Photo Library*

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Edited by Doria Grimes**

U. S. Department of Commerce  
National Oceanic and Atmospheric Administration  
National Environmental Satellite, Data, and Information Service  
National Oceanographic Data Center  
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<http://docs.lib.noaa.gov/rescue/Bibliographies/IPY2007.pdf>

## Preface to the Rev. 2008

The *Polar Bibliography* has recently been updated with a full-text online access to seventy additional historical documents that pertain to the polar research during the late 19<sup>th</sup> and early 20<sup>th</sup> centuries.

Most changes occurred in the section *II. Historical Resources on Polar Research in the NOAA Central Library Special Collections*. However, some additional entries have been added to the remaining sections as well.

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## Preface

This *Bibliography* has been prepared to support NOAA Central Library (NCL) activities during International Polar Year 2007-2008. It reflects the NCL network's unique print and online resources on exploration and research in Polar Regions. The *Bibliography* includes citations organized "by title" from NOAALINC, the library's online catalog, and from the library's historical collections. The data and listings are comprehensive from the 18th century to the present. The formats represented in this resource include print, CD-ROM, online full-text documents, digital videos, digital images, online cruise data and Web resources. This document provides full-text access, copyright permitting, to significant Polar documents in the NOAA Library collections. There are over one-hundred-and-fifty electronic references to unique historical documents that have been scanned and made available online via NOAALINC, as well as to scientific datasets available online via the National Oceanographic Data Center (NODC) Ocean Archive System.

The *Bibliography* is also published online under LISD Current Reference Series 2006-1 and is available to the international community via NOAA Central Library's home page and its online catalog NOAALINC. This *Bibliography* may also serve as an Internet locator for printed and online resources in Polar research. Any comments and suggestions for corrections are welcome.

Publications listed in this *Bibliography* may be requested through your local library's Interlibrary Loan (ILL) service. For more information, please view the NOAA Central Library's ILL home page: <http://www.lib.noaa.gov/docs/ill.html>

This publication is available online for downloading in Microsoft Word and in PDF formats at:  
<http://docs.lib.noaa.gov/rescue/Bibliographies/IPY2007.doc>  
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Finally, special thanks go to the NOAA Climate Data Modernization Project (CDMP) for including IPY documents in their funded projects, and Lason Incorporated for imaging the documents within a short time frame.

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## I. What is the International Polar Year?

An answer may be found at the websites below:

*IPY : International Polar Year.* (<http://www.ipy.org>)

*U.S. Committee to the International Polar Year.* (<http://www.us-ipy.org/history.shtml>)

*NOAA Arctic Research Office.* (<http://www.arctic.noaa.gov/aro/ipy-1/>)

“The Polar Regions are remote areas of the Earth that have profound significance for the Earth's climate and ultimately environments, ecosystems and human society. However we still remain remarkably ignorant of many aspects of how polar climate operates and its interaction with polar environments, ecosystems and societies. To have any hope of understanding the current global climate and what might happen in future the science community needs a better picture of conditions at the poles and how they interact with and influence the oceans, atmosphere and land masses. Existing climate models do not work well in the Polar Regions and have for example failed to predict the dramatic break-up of Antarctic ice shelves observed in recent years. The three fastest warming regions on the planet in the last two decades have been Alaska, Siberia and parts of the Antarctic Peninsula, Thus the Polar Regions are highly sensitive to climate change and this raises real concern for the future of polar ecosystems and Arctic society.

There have been a number of major international science initiatives in Polar Regions (...) and all have had a major influence in overhauling our understanding of global processes in these important areas. These initiatives have involved an intense period of interdisciplinary research, collecting a broad range of measurements that provide a snapshot in time of the state of the Polar Regions.”[1]

**The First International Polar Year (IPY), 1881-1883** was the first in the series of coordinated international expeditions to the Polar Regions. The first IPY, inspired by the Austrian explorer and an officer with the Austro-Hungarian Navy, Carl Weyprecht. Although he died before the commencement of the First International Polar Year, 11 countries participated in 15 expeditions, fulfilling Weyprecht's dream and heralding a new age of scientific discovery. [1]

**The Second International Polar Year (IPY), 1932 – 1933** marked the 25<sup>th</sup> anniversary of the first IPY. It was proposed in 1928 at an international conference of meteorological service directors. Forty nations participated in Arctic research from 1932 – 1933, in the fields of meteorology, magnetism, aurora, and radio science. However, due to the worldwide economic depression, the second IPY was smaller than originally planned.

**The Third International Polar Year (IPY), 1957 - 1958**, later renamed the **International Geophysical Year**, was proposed in 1952 by the International Council of Scientific Unions, following a suggestion by the National Academy of Sciences (NAS) member Lloyd Berkner. The Third IPY/IGY was based on the earlier IPYs, but included research outside of the Polar Areas. These international research programs involved 80,000 scientists from 67 countries. It produced unprecedented exploration and discoveries in many fields of research and fundamentally changed how science was conducted in the polar regions. Fifty years on,

technological developments such as earth observation satellites, autonomous vehicles and molecular biology techniques offer enormous opportunities for a further quantum step upwards in our understanding of polar systems.

**The upcoming Fourth International Polar Year (IPY) in 2007-2008** will mark the 50<sup>th</sup> anniversary of the Third International Polar Year to continue the tradition of international science years that began in 1882-1893 with the first International Polar Year and continued with a second International Polar Year in 1932-1933. “It will provide an opportunity to engage the upcoming generation of young Earth System scientists and to get the public to realize just how much the cold ends of the sphere we all live on really do influence us. To ensure that researchers get the opportunity to work in both polar regions or work summer and winter if they wish, the Polar Year will actually run from March 2007-March 2009” [2]

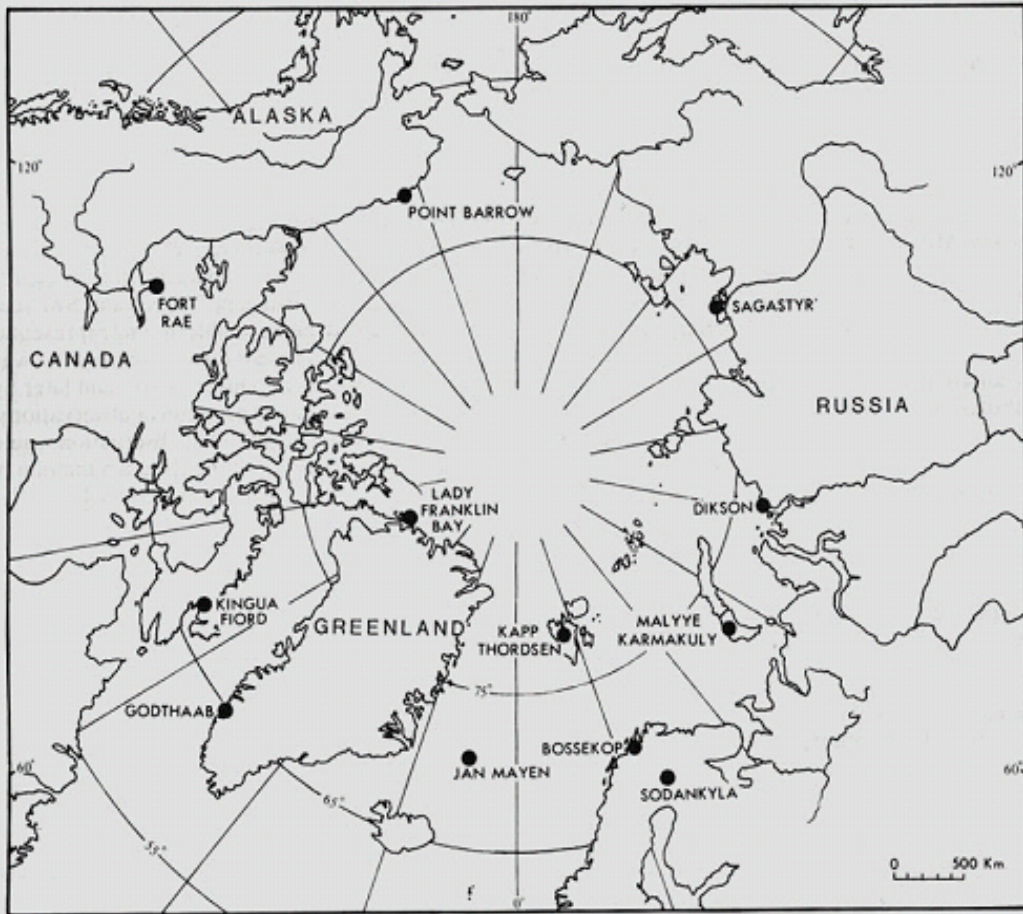


FIG. 1. Distribution of the arctic stations of the First International Polar Year.

[1] IPY, International Polar Year. What is IP? (<http://www.ipy.org/about/what-is-ipy.htm>)

[2] U.S. Committee to the International Polar Year, 2007-2008. IPY history. (<http://www.us-ipy.org/history.shtml>)

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“Nations should put aside their unprofitable competition for mere geographical discovery, he said, and instead field a series of coordinated expeditions dedicated to scientific research. The work of these expeditions would be: ‘with instruments precisely alike, governed by precisely the same instructions, and for a period of one year at least, to record a series of the utmost possible synchronous observations.’ Only in this way, he said, ‘shall we be placed in possession of materials enabling us to attempt a solution of the problems which now lie embedded in the Arctic ice’...” [1]



C. Weyprecht

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Leatherwood, Stephen ... [et al.]. Whales, dolphins, and porpoises of the eastern North Pacific and adjacent Arctic waters : a guide to their identification. Appendix A by Larry Hobbs ; foreword by Victor B. Scheffer. New York : Dover Publications, 1988.  
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Wilson, William J. ... [et al.]. Winter water availability and use conflicts as related to fish and wildlife in Arctic Alaska : a synthesis of information. Performed for Stream Alterations Activity, Office of Biological Services, Fish and Wildlife Service, U.S. Dept. of the Interior. [Washington] : Biological Services Program, Fish and Wildlife Service, U.S. Dept. of the Interior, 1977.  
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QC851 .W6445 WCP no.136

Work of the Signal Service in the Arctic regions. Prepared under the direction of Brig. & Bvt. Maj. Gen'l W.B. Hazen ; published by authority of the Secretary of War ; United States of America, War Department. Washington : Office of the Chief Signal Officer, 1883. Series: *Signal Service notes* ; no. 5.

Link to the First International Polar Year, 1881-1884 home page:

<http://www.arctic.noaa.gov/aro/ipy-1/index.htm>

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QH541.5.S3 G46 no.18

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Workshop on Seabird Incidental Catch in the Waters of Arctic Countries (2000 : Bedford Institute of Oceanography). Workshop on Seabird Incidental Catch in the Waters of Arctic countries, 26-28 April 2000 : report and recommendations. Edited by John W. Chardine, Julie M. Porter and Kenton D. Wohl. [Akureyri, Iceland] : Conservation of Arctic Flora and Fauna, [2000]. Series: *CAFF technical report* ; no. 7.  
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Workshop on the U.S. Antarctic Meteorological Data Delivery System (1987 : Boulder, Colo.). Workshop on the U.S. Antarctic Meteorological Data Delivery System. Edited by C.S. Hanson and C.R. Stearns. Boulder, Colo., U.S.A. : World Data Center for Glaciology (Snow and Ice), Cooperative Institute for Research in Environmental Sciences, University of Colorado ; operated for U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Environmental Satellite, Data, and Information Service, [1988]. Series: *Glaciological data* ; rept. GD-20.  
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Workshop to evaluate the need for a rain radar in polar orbit for GEWEX, Greenbelt, USA, 25-26 October 1989. [Geneva, Switzerland] : International Council of Scientific Unions : World Meteorological Organization, [1990]. Series: *WMO/TD* ; no. 369. Series: *WCRP (Series)* ;37.  
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QC866.5.I5 W67 no.37

Raschke, E. ... [et al.], editors. World Climate Research Programme sea-ice and climate : report of a workshop on polar radiation fluxes and sea-ice modelling (Bremerhaven, Germany, 5-8 November 1990). [Paris] : International Council of Scientific Unions ; [Geneva] : World Meteorological Organization, [1991]. Series: *WMO/TD* ; no. 442. Series: *WCRP (Series)* ;62.  
QC851 .W675 no.62  
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QC866.5.I5 W67 no.62

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Perry, Richard. *The world of the polar bear*. [Seattle] : University of Washington Press, [1967, c1966].  
QL737.C2 P38 1967

Thompson, Thomas. *YMER-80, satellites, Arctic sea ice and weather*. [Norrköping : Swedish Meteorological and Hydrological Institute], 1986. Series: *SMHI reports oceanography* ; nr. 2.  
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Richardson, John, Sir. *The zoology of the voyage of H.M.S. Herald [microform] : under the command of Captain Henry Kellet, R.N., C.B., during the years 1845-51*. Edited by Edward Forbes. With: Richardson, John, Sir. *Vertebrals, including fossil mammals*. London : I. Reeve, 1854. Series: *CIHM/ICMH microfiche series* ; no. 41954.  
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Scott, Donald Andrew. *Zooplankton other than copepoda collected from Fletcher's Ice Island (T-3) in the Canadian Basin of the Arctic Ocean*. Seattle, Wash. : Dept. of Oceanography, University of Washington, 1969. Series: *Technical report (University of Washington. Dept. of Oceanography)* ; no. 241.  
GC1 .W25 no.241

#### **IV. Internet Resources on Polar Research.**

[The entries below are listed in alphabetical order by the website title. The URL addresses were viewed for their accuracy in April 2007.]

*AARI/AANII: Arctic and Antarctic Research Institute.* St. Petersburg, Russia : Arctic and Antarctic Research Institute.

Online access: <http://www.aari.nw.ru/>

“The Arctic and Antarctic Research Institute (AARI) of the Federal Service for Hydrometeorology and Monitoring of the Environment, organized in 1920, is the oldest and the largest Russian research institution in the field of comprehensive studies of the Polar Regions.”

*ACIA : Arctic Climate Impact Assessment.* The ACIA Policy Document was prepared by the Arctic Council and presented at the Fourth Arctic Council Ministerial Meeting, Reykjavik, 24 November 2004.

Online access: <http://www.acia.uaf.edu/>

“An international project of the Arctic Council and the International Arctic Science Committee (IASC), to evaluate and synthesize knowledge on climate variability, climate change, and increased ultraviolet radiation and their consequences. The results of the assessment were released at the ACIA International Scientific Symposium held in Reykjavik, Iceland in November 2004.”

ACIA reports and documents online: <http://amap.no/acia/>

*Alaska Satellite Facility (ASF).* Geophysical Institute, University of Alaska Fairbanks, 2006.

Online access: <http://www.asf.alaska.edu/>

“The Alaska SAR Facility, located in the Geophysical Institute at the University of Alaska Fairbanks, downlinks, processes, archives, and distributes SAR data from the European Space Agency's ERS-1 and ERS-2 satellites, NASDA's JERS-1 satellite, and the Canadian Space Agency's RADARSAT satellite. Available SAR products include: full-resolution (25 m) images; low-resolution (240 m) images; complex-format SAR data products which retain amplitude and phase information; geocoded images; and uncorrelated (raw signal) SAR data, representing the original backscattered radar signals. ASF also archives GPS (Geophysical Processing System) products which input SAR data. The GPS archive currently includes ice motion, ice classification, and ocean wave spectra products. ASF is also preparing for installation of the RGPS (RADARSAT Geophysical Processor System) which will provide high level sea ice products for the Arctic Basin. The Geo-Data center, a joint project between ASF and the Geophysical Institute, holds many complementary data sets, each covering Alaska and nearby regions. Their data holdings include LANDSAT, NOAA/AVHRR, and AHAP images as well as USGS maps.”

*The Antarctic Geology and Geophysics Working group home page.* Arlington, VA : National Science Foundation, Office of Polar Programs.

Online access: <http://www.geology.ohio-state.edu/agg-group/>

“The Antarctic Working Group for Geology and Geophysics is an ad hoc body whose role is to provide feed-back about current and planned research support capabilities available to Antarctic earth science projects supported by the National Science Foundation. The working group affords a broad conduit for exchange of information between the program manager and the earth-science

research community. The group addresses concerns and priorities within the Antarctic Geology and Geophysics program, making recommendations for action where appropriate. It also provides a forum to raise and discuss general programmatic issues associated with new opportunities in earth science research as it perceives them, or as they are recognized by the wider earth-science community.”

*Antarctic Glaciological Data Center*. Boulder, CO : University of Colorado, National Snow and Ice Data Center, Antarctic Glaciological Data Center.

Online access: <http://nsidc.org/agdc/>

“The Antarctic Glaciological Data Center (AGDC) at the National Snow and Ice Data Center (NSIDC) archives and distributes Antarctic glaciological and cryospheric system data collected by the U.S. Antarctic Program.”

*Antarctic Treaty Secretariat*. Buenos Aires, Argentina, 2007.

Online access: <http://www.ats.aq/>

“The Antarctic Treaty Secretariat was established in Buenos Aires, Argentina in September 2004 by the Antarctic Treaty Consultative Meeting (ATCM). One of the main tasks of the Secretariat is support of the annual meeting and publication of the ATCM Final Report. Aside from supporting the annual ATCM, the Secretariat has the following tasks: support intersessional work of the ATCM and the Committee for Environmental Protection (CEP); facilitate the exchange of information between the Parties required in the Treaty and the Environment Protocol; coordinate and liaise with other parts of the Antarctic Treaty System and other international institutions; establish and maintain databases relevant to the operation of the Treaty and the Protocol; circulate relevant information among the Parties; store and publish the records of the ATCM and CEP; make available information about the Antarctic Treaty System.”

*ARC : Arctic Private Research Consortium, Austria*. Created by Hermann F. Koerbel, 1997-2003.

Online access: <http://www.arctic.at/castaway/>

Website on history of the Austrian’s polar exploration. It also provides access to the Arctic and Antarctic research institutes worldwide, Antarctic research stations, collection digital images, videos, and list of polar publications.

*Arctic change : a near-realtime Arctic change indicator website*. Silver Spring, MD. : U.S. Dept. of Commerce, National Oceanic and Administration, Arctic Research Office.

Online access: <http://www.arctic.noaa.gov/detect/>

“The objective of this website is to present recent indicators that describe the present state of the Arctic climate and ecosystem in an accessible, understandable, and credible historical context. A summary of changes are listed in the Table of Indicators.”

*Arctic change : monitoring the drift, thickness, and mass balance of Arctic sea ice*. Silver Spring, MD. : U.S. Dept. of Commerce, National Oceanic and Administration, Arctic Research Office.

Online access: <http://www.crrel.usace.army.mil/sid/IMB/>

“Monitoring changes in the volume or mass of the Arctic sea ice cover is crucial for developing our understanding of climate change processes and their impacts. Changes in the volume of the ice cover can result from changes in the ice extent (area) or ice thickness. The extend to the Arctic sea ice is effectively monitored by aircraft and from satellites. Monitoring the ice

thickness is more challenging. Current, satellites cannot measure ice thickness, therefore data sources are limited to on-ice mass balance measurements and submarine or seafloor-mounted upward looking sonars. Developing a coordinated network to monitor changes in the ice thickness of the ice cover is the focus of one aspect of the NOAA SEARCH initiative. A key objective of this study will be to establish international partnerships and to build upon existing programs such as the North Pole Environmental Observatory (NPEO) and the International Arctic Buoy Program (IAPB).

*Arctic maps*. Silver Spring, MD. : U.S. Dept. of Commerce, National Oceanic and Administration, Arctic Research Office.

Online access: <http://www.arctic.noaa.gov/maps.html>

The website provides access to the online collections of Arctic maps. Compiled by the NOAA Arctic Research Office.

*Arctic : UNEP.NET, the Environment Network*. Duane Taylor, website manager, United Nations Environment Programme.

Online access: <http://arctic.unep.net/>

UNEP.NET's portal on the Arctic environment.

*ARCUS : Arctic Research Consortium of the United States*. Fairbanks, Alaska : ARCUS.

Online access: <http://www.arcus.org/>

“The Arctic Research Consortium of the United States (ARCUS) was formed in 1988 to identify and bring together the distributed human and facilities resources of the Arctic research community--to create a synergy for the Arctic in which each resource, when combined with others, can result in a strength that enables the community to rise to the many challenges facing the Arctic and the United States. ARCUS provides a mechanism for the Arctic community to complement the advisory roles of other national organizations, such as the US Arctic Research Commission (USARC), the Polar Research Board (PRB), and Interagency Arctic Research Policy Committee (IARPC), that are concerned with the Arctic. ARCUS is a non-profit corporation consisting of institutions organized and operated for educational, professional, or scientific purposes.”

*Australian Arctic Division*. Australian Government, Arctic Division, 2006.

Online access: <http://www.aad.gov.au/>

“Administers Australia's wide-ranging activities in Antarctic and subantarctic regions is the responsibility of the Australian Antarctic Division (AAD), a part of the Australian Government's Department of the Environment and Heritage.”

*AWI : Alfred Wegener Institute for Polar and Marine Research includes the Alfred Wegener Institute in Bremerhaven*.

Online access: <http://www.awi-bremerhaven.de/>

“The Alfred Wegener Institute conducts research in the Arctic, the Antarctic and at temperate latitudes. It coordinates Polar research in Germany and provides both the necessary equipment and the essential logistic back up for polar expeditions. Recent additional research themes include North Sea Research, contributions to Marine Biological Monitoring, Marine Pollution Research, Investigation of naturally occurring marine substances and technical marine

developments. The Institute was established as a public foundation in 1980.”

British Antarctic Survey (BAS). Cambridge, England, 2004.

Online access: <http://www.antarctica.ac.uk/>

“British Antarctic Survey (BAS) is the UK’s national Antarctic operator, and has for the past 60 years been responsible for most of the UK’s scientific research in Antarctica. Part of the Natural Environment Research Council (NERC), BAS operates five research stations, two Royal Research Ships and five aircraft in and around Antarctica. As a world leader in Antarctic research, BAS is playing a major role in International Polar Year 2007-2008 (IPY).”

Byrd Polar Research Center at the Ohio State University. Columbus, Ohio : Ohio State University, Byrd Polar Research Center, c1998-2006.

Online access: <http://www-bprc.mps.ohio-state.edu/>

“Named in honor of one of America's most famous explorers, the Byrd Polar Research Center of The Ohio State University is recognized internationally as a leader in polar and alpine research. The Center's research programs are conducted throughout the world. Research at the Center focuses on the role of cold regions in the global climate system, with major research themes focused on: climatic reconstruction of glacial and post-glacial times; polar ice-sheets: dynamics, history and ice-atmosphere interactions; high-latitude landform evolution, soils and hydrology; geologic evolution of Antarctica; and the history of polar exploration.”

Canada and the Circumpolar World. Canada : Dept. of Foreign Affairs and International Trade.

Online access: <http://www.dfait-maeci.gc.ca/circumpolar/menu-en.asp>

“On this site you will find the objectives and details about the priority areas of the Northern Dimension of Canada's Foreign Policy (NDFP) and you can also browse through some descriptions of projects we support, which you will find under the Sustainable Development page. We hope this will give you a better idea about Canada's role in the Circumpolar world.

Wood, Kevin R., James E. Overland. Climate lessons from the First International Polar Year, 1881-1884 : [poster]. Seattle, Wash. : NOAA Pacific Marine Environmental Laboratory.

Online access: [http://www.arctic.noaa.gov/aro/ipy-1/images/sm\\_ipy.gif](http://www.arctic.noaa.gov/aro/ipy-1/images/sm_ipy.gif)

This digital poster emphasizes the achievements of the First International Polar Year.

Cold Regions Bibliography Project. Alexandria, VA : American Geological Institute, 2007.

Online access: <http://www.coldregions.org/>

“The *Antarctic Bibliography* covers all disciplines related to the region including biological and geological sciences, medical sciences, meteorology, oceanography, atmospheric and terrestrial physics, expeditions, logistics equipment and supplies, and tourism. The *Antarctic Bibliography* is produced with support from the National Science Foundation with contributions from the Scott Polar Research Institute, University of Cambridge.”

Committee of Polar Research Polish Academy of Sciences. Warsaw, Poland, 2007.

Online access: <http://www.polar.pan.pl/indexEN.htm>

Poster “Polish Paleontological Study in Arctica”:

<http://www.polar.pan.pl/Pictures/paleoarctica.jpg>

Poster “Geodynamic Studies of Lithosphere in Antarctica”:

<http://www.polar.pan.pl/Pictures/lithosphere.jpg>

*Committee on Polar Research, 1961–1966.* Washington, D.C. : National Academy of Sciences, 2007.

Online access: [http://www7.nationalacademies.org/archives/cpr\\_1961-1966.html](http://www7.nationalacademies.org/archives/cpr_1961-1966.html)

Established in early 1958, the extradivisional Committee on Polar Research grew out of the Academy's US National Committee on the International Geophysical Year. Following up on the USNC's direction of IGY scientific activities at the North and South Poles, the Committee developed program recommendations for the National Science Foundation regarding scientific research in the Arctic and Antarctic regions. The Committee also served as the US National Committee for the International Council of Scientific Union's Special (later, Scientific) Committee on Antarctic Research (SCAR). In 1975, the Committee was reorganized as the Polar Research Board under the National Research Council's Assembly of Mathematical and Physical Sciences. The records of the Committee on Polar Research span 8 linear feet and contain correspondence, memoranda, meeting minutes, and reports. The records have been arranged according to the NAS Records System, the structure of which follows the organization of the institution at the time the records were created. The collection is divided into two groups, one containing activity records, and the second containing reports.

*CRREL.* U .S. Army Cold Regions Research and Engineering Laboratory (CRREL).

Online access: <http://www.crrel.usace.army.mil/>

“The Cold Regions Research and Engineering Lab (CRREL) is a unique facility of the U.S. Army Corps of Engineers that addresses the problems and opportunities unique to the world's cold regions.”

*The First International Polar Year, 1881-1884.* Seattle, Wash. : Joint Institute for the Study of the Atmosphere and Ocean ; Silver Spring, MD. : U.S. Dept. of Commerce, National Oceanic and Administration, Arctic Research Office.

Online access: <http://www.arctic.noaa.gov/aro/ipy-1/>

“The records of the first IPY offer a rare glimpse of the circumpolar Arctic environment as it existed in the past. These observations collected so long ago now hold the potential to improve our understanding of historical climate variability and environmental change in the Arctic. For the first time, the synoptic meteorological records of the first IPY, along with an extensive documentary image collection, have been collected in a single location in digital format.”

*Hidden Ocean Arctic 2005.* Silver Spring, MD : NOAA Ocean Explorer, Office of Ocean Exploration, 2005.

Online access: <http://oceanexplorer.noaa.gov/explorations/05arctic/>

“In June 27 - July 26, 2005, an international team of 45 scientists from the United States, Canada, China and Russia will participate in a collaborative effort to explore the frigid depths of the Canada Basin, located in one of the deepest parts of the Arctic Ocean. This expedition is named "The Hidden Ocean" because this part of the Arctic Ocean is covered with sea ice for most of the year and thus difficult to reach.”

*IASC : International Arctic Science Committee.* Oslo, Norway : International Arctic Science Committee.

Online access: <http://www.iasc.no/>

Website of IASC, The International Arctic Science Committee, a non-governmental organization whose aim is to encourage and facilitate cooperation in all aspects of arctic research, in all countries engaged in arctic research and in all areas of the arctic region.

*IASSA : International Arctic Social Sciences Association*. Nuuk, Greenland : University of Greenland, International Arctic Social Sciences Association.

Online access: <http://www.iassa.gl/>

“IASSA was founded in 1990 in Fairbanks, Alaska, at a meeting held in conjunction with the 7th Inuit Studies Conference. The creation of IASSA follows the suggestion, made at the Conference on Coordination of Research in the Arctic held in Leningrad in 1988, to establish an international association to represent Arctic social scientists. From its foundation in 1990 until 1992, IASSA's secretariat was housed at the Department of Geography, McGill University, Montreal, Canada. The following three years the secretariat was situated at the Arctic Center, University of Lapland, Rovaniemi, Finland. Then from 1995 to 1998, it was housed at the Department of Eskimology, University of Copenhagen, Copenhagen, Denmark. From 1998 to 2001, the secretariat was located at the GÉTIC (Groupe d'études inuit et circumpolaires) of Université Laval in Quebec City, Canada. From 2001 to 2004, it was at the University of Alaska Fairbanks Department of Anthropology. The IASSA secretariat is presently located at Ilisimatusarfik, the University of Greenland, Nuuk, Greenland.”

*International Geophysical Year*. Washington, D.C. : National Academy of Sciences.

Online access: <http://www7.nationalacademies.org/archives/igy.html>

*International Geophysical Year, 1957-1958*. Washington, D.C. : National Academy of Sciences.

Online access: <http://www.nas.edu/history/igy/>

“Following a suggestion by NAS member Lloyd Berkner, the International Council of Scientific Unions in 1952 proposed a comprehensive series of global geophysical activities to span the period July 1957-December 1958. The International Geophysical Year (IGY), as it was called, was modeled on the International Polar Years of 1882-1883 and 1932-1933 and was intended to allow scientists from around the world to take part in a series of coordinated observations of various geophysical phenomena. Although representatives of 46 countries originally agreed to participate in the IGY, by the close of the activity, 67 countries had become involved.”

*International Glaciological Society (IGS)*. Cambridge, England, 2006.

Online access: <http://www.igsoc.org/>

“The International Glaciological Society was founded in 1936 to provide a focus for individuals interested in practical and scientific aspects of snow and ice.”

Bell, Robin Elizabeth. *International Polar Year 2007-2008: the Opportunity of a Generation*.

Online access:

[http://www7.nationalacademies.org/ocga/testimony/International\\_Polar\\_Year\\_2.asp](http://www7.nationalacademies.org/ocga/testimony/International_Polar_Year_2.asp)

Statement of Dr. Robin Elizabeth Bell, Doherty Senior Research Scientist Lamont-Doherty Earth Observatory of Columbia University and Chair, Polar Research Board U.S. National Committee for International Polar Year Division on Earth and Life Studies National Research Council The National Academies before the Committee on Commerce, Science and Transportation and



Committee on Foreign Relations U.S. Senate, September 26, 2006.

*The International Polar Years.* Silver Spring, MD. : U.S. Dept. of Commerce, National Oceanic and Administration, Arctic Research Office.

Online access: <http://www.arctic.noaa.gov/ipy.html> The website provides information on history of the International Polar Years along with helpful links to scientific sites on IPYs and related sites. The collections of the digital images and scanned photos are also available.

*IPA International Permafrost Association.* Oslo : University of Oslo, 2007.

Online access: <http://www.geo.uio.no/IPA/>

“The International Permafrost Association, founded in 1983, has as its objectives to foster the dissemination of knowledge concerning permafrost and to promote cooperation among persons and national or international organizations engaged in scientific investigation and engineering work on permafrost. Membership is through adhering national or multinational organizations or as individuals in countries where no Adhering Body exists. The IPA is governed by its officers and a Council consisting of representatives from 24 Adhering Bodies having interests in some aspect of theoretical, basic and applied frozen ground research, including permafrost, seasonal frost, artificial freezing and periglacial phenomena. Committees, Working Groups, and Task Forces organize and coordinate research activities and special projects.”

*IPY : International Polar Year.* Cambridge, Engl. : British Arctic Survey.

Online access: <http://www.ipy.org/> The official website of the International Polar Year 2007-2008.

“The International Polar Year (IPY) 2007-2008 will be an intense, internationally coordinated campaign of research that will initiate a new era in polar science. IPY 2007-2008 will include research in both polar regions and recognize the strong links these regions have with the rest of the globe. It will involve a wide range of research disciplines, including the social sciences, but the emphasis will be interdisciplinary in its approach and truly international in participation. It aims to educate and involve the public, and to help train the next generation of engineers, scientists, and leaders ... This website was originally established by the IPY Planning Group to provide a central point of reference for information on its developing plans for the International Polar Year. The site is now supporting the activities of the Joint Committee. The site is already linked to several national IPY websites. It is intended that it will become the hub for a number of web sites associated with the various science projects and outreach/education initiatives comprising what is developing into the largest ever research program in the Polar Regions.”

*IPY Greenland : International Polar Year, 2007-2009.* The official website for IPY Greenland.

Online access: <http://www.ipy.gl/>

*IPY, International Polar Year, 2007-2008, Canada.* Edmonton, Alberta : University of Alberta, Canadian IPY Secretariat.

Online access: <http://www.ipy-api.ca/english/>

*IPY “Planet Earth” posters and booklets.* Washington, D.C. : National Academy of Sciences, 2007.

Online access: <http://www7.nationalacademies.org/archives/IGYPlanetEarthPosters.html>

As part of its program of educational outreach, the NAS IGY committee in 1958 put together a booklet providing a brief introduction to the earth and environmental sciences. The booklet was organized around six posters, each devoted to an area of geophysics, created expressly for the outreach project. We reproduce booklet and the six posters here - just click on the thumbnails below to see the full-size poster images on the web; or click the hyperlink for the higher resolution image for printing (note: higher resolution image may take longer to download on slower connection speeds).

*Nansen Environmental and Remote Sensing Center*. Bergen, Norway : University of Bergen, Nansen Environmental and Remote Sensing Center.

Online access: <http://www.neresc.no/index2.php>

“Nansen Environmental and Remote Sensing Center (NERSC) is an independent non-profit research institute affiliated with the University of Bergen, Norway. The Nansen Center conducts basic and applied environmental research funded by national and international governmental agencies, research councils and industry.”

*National Ice Center*. Suitland, MD : National Ice Center.

Online access: <http://www.natice.noaa.gov/>

“The National Ice Center (NIC) is a multi-agency operational center operated by the United States Navy, the National Oceanic and Atmospheric Administration (NOAA), and the United States Coast Guard. Our mission is to provide the highest quality strategic and tactical ice services tailored to meet the operational requirements of U.S. national interests and to provide specialized meteorological and oceanographic services to United States government agencies.”

*National Science Foundation, Office of Polar Programs (OPP) : compelling science from Antarctica and the Arctic*. Arlington, VA : National Science Foundation, Office of Polar Programs.

Online access: <http://www.nsf.gov/dir/index.jsp?org=OPP>

“The Office of Polar Programs (OPP) manages and initiates National Science Foundation funding for basic research and its operational support in the Arctic and the Antarctic. The funds are provided as NSF grants to institutions (mainly U.S. universities), whose scientists perform the research at the institutions or in a polar region, and as cooperative agreements or contracts to support organizations including contractors and the U.S. military.”

*National Snow and Ice Data Center (NSIDC)*. Boulder, CO : University of Colorado, National Snow and Ice data Center.

Online access: <http://nsidc.org/>

“NSIDC is part of the University of Colorado Cooperative Institute for Research in Environmental Sciences, and is affiliated with the National Oceanic and Atmospheric Administration National Geophysical Data Center through a cooperative agreement. NSIDC serves as one of eight Distributed Active Archive Centers funded by the National Aeronautics and Space Administration to archive and distribute data from NASA's past and current satellites and field measurement programs. NSIDC also supports the National Science Foundation through the Arctic System Science Data Coordination Center and the Antarctic Glaciological Data Center. Established by NOAA as a national information and referral center in support of polar and cryospheric research, NSIDC archives and distributes digital and analog snow and ice data.

We also maintain information about snow cover, avalanches, glaciers, ice sheets, freshwater ice, sea ice, ground ice, permafrost, atmospheric ice, paleoglaciology, and ice cores.”

*NCEP MMAB Sea Ice home page.* The Polar and Great Lakes Ice group works on sea ice analysis from satellite, sea ice modeling, and ice-atmosphere-ocean coupling. It work supports the Alaska Region of the National Weather Service, the Great Lakes Marine Forecasting group in the Cleveland NWSFO, and other groups, as well as the Environmental Modeling Center, of which the ice group is a part. Site developed by Robert Grumbine, NCEP, Camps Spring, MD. Last update, Sept. 14, 2001.

Online access: <http://polar.ncep.noaa.gov/seaice/>

*NOAA Arctic Research Office.* Silver Spring, MD. : U.S. Dept. of Commerce, National Oceanic and Administration, Arctic Research Office.

Online access: <http://www.arctic.noaa.gov/aro/>

“The Arctic Research Office (ARO) serves as a focal point for NOAA's research activities in the Arctic, Bering Sea, North Pacific and North Atlantic regions. The office manages the Arctic Research Initiative and other funds allocated to it, supporting both internal NOAA and extramural research. It represents NOAA on the Interagency Arctic Research Policy Committee, leads U.S. involvement in the Arctic Monitoring and Assessment Program, and provides a point of contact between NOAA and the Cooperative Institute for Arctic Research and the International Arctic Research Center at the University of Alaska Fairbanks. The Arctic Research Office is a component of NOAA's Office of Oceanic and Atmospheric Research.”

*NOAA Arctic Science Laboratory.* Silver Spring, MD. : U.S. Dept. of Commerce, National Oceanic and Administration, Arctic Research Office.

Online access: <http://asl.arctic.noaa.gov/>

“The NOAA Arctic Science Laboratory (ASL) is a virtual organization composed of scientists from throughout NOAA and its institutional partners who share an interest in Arctic sciences. For us, the Arctic includes the Arctic Ocean and the seas surrounding it, the adjacent landmasses, and the overlying atmosphere. We are a multidisciplinary group composed of physical scientists, chemists, and biologists that study the Arctic through direct and remote observation, models, and analysis of data. We apply our knowledge to help NOAA achieve its strategic goals of prediction and stewardship of the natural environment and thereby provide benefit to our society and economy. The ASL web site is intended to describe in one place the significant resources that NOAA applies to Arctic science issues.”

*NOAA Arctic theme page.* Silver Spring, MD. : U.S. Dept. of Commerce, National Oceanic and Administration, Arctic Research Office.

Online access: <http://www.arctic.noaa.gov/>

“The Arctic Theme Page is a rich and comprehensive resource linking to widely distributed data and information, from research institutions throughout the world, focused on the Arctic.

Available information includes relevant data, graphics, and forecasts, including historical perspectives and in-depth analyses. Also included are a selection of essays by Arctic experts on key issues in the Arctic. The audience for the Arctic Theme Page is wide, including scientists, students, teachers, decision makers and the general public.”

NOAA Central Library. NOAA Photo Library : NOAA at the ends of the Earth. Silver Spring, MD : NOAA Central Library.

Online access: <http://www.photolib.noaa.gov/corps/>

Historical and contemporary collection of scanned images from Polar regions organized into several albums: “The Arctic field party (1949-1951),” “The northern seas: Bering, Chukchi, and Beaufort seas,” “Islands in the sun,” and “The Antarctic.” The NOAA Photo Library has been created and organized by capt. Albert “Skip” Theberge.

NOAA Explores the Poles, International Polar Year. Silver Spring, MD : NOAA, 2007.

Online access: <http://www.ipy.noaa.gov/>

“NOAA's mission to understand and predict the Earth system is integrally linked to polar science. NOAA has been involved in science and research at the Arctic and Antarctica since the agency was formed in 1970; for many years before that, predecessor agencies that were later combined to create NOAA were exploring, investigating and monitoring the Earth system in both Polar Regions. Throughout the two year period of the International Polar Year (March 2007 to March 2009), NOAA will be involved in new explorations and experiments to better understand the Polar Regions, as well as continuing its work and long-standing, year-round presence in both the Arctic and Antarctic. Other Federal agencies also are participating in IPY. “

NOAA Ocean Explorer : Arctic exploration. Silver Spring, MD. : U.S. Dept. of Commerce, National Oceanic and Administration, Office of Ocean Exploration.

Online access: <http://oceanexplorer.noaa.gov/explorations/02arctic/welcome.html>

This website provides information on NOAA's Arctic expedition, August 15-September 8, 2002, including the cruise summary report, digital image and video logs, and educational lesson plans.

NOAA Paleoclimatology. Boulder, CO : NOAA Paleoclimatology Program.

Online access: <http://www.ncdc.noaa.gov/paleo/paleo.html>

“Welcome to the Paleoclimatology Branch. Paleoclimatology is the study of past climate, for times prior to instrumental weather measurements. Paleoclimatologists use clues from natural "proxy" sources such as tree rings, ice cores, corals, and ocean and lake sediments to understand natural climate variability. NOAA Paleoclimatology operates the World Data Center for Paleoclimatology and the Applied Research Center for Paleoclimatology, with the goal to provide data and information scientists need to understand natural climate variability as well as future climate change. Our international partners include the Past Global Changes Program of the International Geosphere Biosphere Programme, and the World Data Center system of the International Council of Scientific Unions.”

North Atlantic Oscillation (NAO). Page created by Ian Bell, and maintained Martin Visbeck.

Online access: <http://www.ldeo.columbia.edu/NAO/>

“The climate of the Atlantic sector and surrounding continents exhibits considerable variability on a wide range of time scales. Improved understanding of this variability is essential to assess the likely range of future climate fluctuations and the extent to which these fluctuations are predictable, and to assess the potential impact of climate change due to anthropogenic forcing. A substantial portion of the climate variability over the Atlantic basin is associated with the NAO, which is a dominant pattern of atmospheric circulation variability. The NAO refers to a meridional oscillation in atmospheric mass with centers of action near Iceland and over the

subtropical Atlantic from the Azores across the Iberian Peninsula. When the NAO is in its positive phase, low pressure anomalies over the Icelandic region and throughout the Arctic combine with high-pressure anomalies across the subtropical Atlantic to produce stronger-than-average westerlies across middle latitudes. This phase of the oscillation is, consequently, associated with cold conditions over the northwest Atlantic and warm weather over Europe, as well as wet conditions from Iceland through Scandinavia and dry conditions over southern Europe. This pattern of climate anomalies, which has been recognized at least since Walker and Bliss (1932), is most pronounced during winter when atmospheric teleconnection patterns such as the NAO are strongest.”

Northern Research Portal. Saskatoon, Saskatchewan, Canada : University of Saskatchewan Archives.

Online access: <http://scaa.usask.ca/gallery/northern/content?pg=entrylevel>

Educational portal offers resources in Polar regions for students and teachers K-12, older students, general audience, independent researchers as well as the curricular materials for the student of the University of the Arctic.

Pacific Arctic Group. Oslo, Norway : International Arctic Science Committee, Pacific Arctic Group (PAG)

Online access: <http://www.arctic.noaa.gov/aro/pag/>

The Pacific Arctic Group (PAG) is a loose confederacy of institutes and individuals having a Pacific perspective on Arctic science. Organized under the International Arctic Science Committee, the PAG has the mission to serve as a Pacific Arctic regional partnership to plan, coordinate, and collaborate on science activities of mutual interest. We propose the creation of a Project Office to assist in identifying, promoting, and facilitating the science activities of the PAG.

PIPS 3.0 : U.S. Navy Polar Ice Prediction System Upgrade. Monterey, CA : Oceanography Department Naval Postgraduate School.

Online access: <http://www.oc.nps.navy.mil/~pips3/>

“This site has been set up to provide a means for investigators associated with the Navy Polar Ice Prediction System upgrade to exchange information and ideas. The goal of PIPS 3.0 is to update PIPS using the latest physics and computational advances in a parallel computing environment.”

Polar Science Center. Seattle, Wash. : University of Washington.

Online access: <http://psc.apl.washington.edu/pscweb2002/homepage.html>

“The Polar Science Center (PSC) is a unit of the Applied Physics Laboratory at the University of Washington. PSC was established in 1978 at the end of the multiyear Arctic Ice Dynamics Joint Experiment (AIDJEX), a major NSF/ONR program. In 1982 PSC was incorporated into the Applied Physics Laboratory, a multidisciplinary research facility. PSC provides comprehensive logistics and support for numerous polar field experiments. Polar Science Center researchers observe and model the physical processes that controls the nature and distribution of sea ice and polar ice sheets, the structure and movement of high-latitude oceans, and the interactions between air, sea, ice and biota. The Center has made major contributions to the understanding of how the arctic system has undergone important changes during the past four decades.”

*PRB : Polar Research Board.* Washington, D.C. : National Academy of Sciences, Polar Research Board.

Online access: <http://www.dels.nas.edu/prb/>

“The PRB is a unit of The National Academies, which is comprised of the National Academy of Sciences, the National Academy of Engineering, the Institute of Medicine and the National Research Council. The PRB provides independent analysis to the federal government and the nation on matters of science and technology research needs, environmental quality, natural resources, and other issues in the Arctic, the Antarctic, and cold regions in general.”

*Russian-American Long-term Census of the Arctic (RUSALCA) : Initial Expedition to the Bering and Chukchi Seas (Arctic Ocean), July 23 – September 6, 2004.* Silver Spring, MD. : U.S. Dept. of Commerce, National Oceanic and Administration, Arctic Research Office.

Online access: <http://www.arctic.noaa.gov/aro/russian-american/>

“July 23, 2004 marked an historic day in Arctic research and exploration as well as Russian-U.S. relations. On this date the Russian research ship, the Professor Khromov, left Vladivostok, Russia packed with U.S. and Russian, funded scientists to begin a 45-day collaborative journey of exploration and research in the Arctic ... This initial cruise was a collaborative U.S – Russian Federation oceanographic expedition to the Arctic seas regions shared by both countries: the Bering and Chukchi Seas.” The website provides access to the cruise, digital image, video and station logs.

*Scott Polar Research Institute.* Cambridge, England : University of Cambridge, 2006.

Online access: <http://www.spri.cam.ac.uk/>

“The Scott Polar Research Institute was founded in 1920, in Cambridge, as a memorial to Captain Scott and his four companions who died returning from the South Pole in 1912. When Scott's last words, ‘For God's sake look after our people’ were made known to the British nation, the response was tremendous. Scott himself had emphasised the importance of science and from this plea, the Institute was born. The Institute is the oldest international centre for Polar Research within a university. Seventy-five years of scientific exploration, collection, recording and interpretation of results makes it a unique institution. Many other institutes concerned with polar issues have grown up with around it: the British Antarctic Survey, the Scientific Committee on Antarctic Research, the Cambridge Arctic Shelf Project, the World Data Centre C (Glaciology), the International Glaciological Society and the International Whaling Commission. In 1960, the Ford Foundation enabled the Institute to meet the challenge of an explosion in polar information following World War II. Now, once again, the Institute has embarked on a major expansion of the library to serve the needs of the research community into the future. This planned extension will be named the Shackleton Memorial Library in honour of the contributions made to polar research by Sir Ernest Shackleton and his son, Lord Shackleton.”

*SCAR : Scientific Committee on Antarctic Research.* Cambridge, Engl. : Scott Polar Research Institute, Scientific Committee on Antarctic Research.

Online access: <http://www.scar.org/>

“Home Page of the Scientific Committee on Antarctic Research (SCAR), an inter-disciplinary committee of the International Council for Science (ICSU). SCAR is charged with the initiating, developing and coordinating high quality international scientific research in the Antarctic region, and on the role of the Antarctic region in the Earth system. The scientific business of SCAR is

conducted by its Standing Scientific Groups which represent the scientific disciplines active in Antarctic research and report to SCAR.”

*SEARCH : Study of Environmental Arctic Change.* Fairbanks, AK : Arctic Research Consortium of the United States (ARCUS).

Online access: <http://www.arcus.org/SEARCH/>

“SEARCH is an interagency effort to understand the nature, extent, and future development of the system-scale change presently seen in the Arctic. These changes are occurring across terrestrial, oceanic, atmospheric and human systems, including: increased air temperatures over most of the Arctic; changing ocean circulation and rising coastal sea level; reduced sea ice cover; and; thawing permafrost. Currently more than 40 projects are funded as SEARCH activities by U.S. agencies and many more projects relevant to SEARCH objectives are supported through other programs.”

*SHEBA : Surface Heat Budget of the Arctic Ocean (SHEBA).* Seattle, Wash. : University of Washington, Polar Science Center.

Online access: <http://sheba.apl.washington.edu/>

“SHEBA is a coordinated project to investigate the role of arctic climate in global change. The primary goals of SHEBA are: To determine the ocean-ice-atmosphere processes that control the surface albedo and cloud-radiation feedback mechanisms over arctic pack ice, and to use this information to demonstrably improve models of arctic ocean-atmosphere-ice interactive processes; To develop and implement models that improve the simulation of the present day arctic climate, including its variability, utilizing coupled global climate models.”

*University of Saskatchewan Archives. Balfour W. Currie : The Second International Polar Year.* Saskatoon, Saskatchewan, Canada : University of Saskatchewan Archives.

Online access: <http://scaa.usask.ca/gallery/northern/currie/>

The online exhibit on history and purpose of the Second International Year, 1932-1933. The website includes scanned historical photos, full-text writings, oral history documents on Canadian participation in the YPY.

*U.S. Antarctic Program.* Arlington, VA : National Science Foundation, Office of Polar Programs.

Online access: <http://www.usap.gov/>

“Without interruption since 1956, Americans have been studying the Antarctic and its interactions with the rest of the planet. The U.S. Antarctic Program carries forward the Nation's goals of supporting the Antarctic Treaty, fostering cooperative research with other nations, protecting the Antarctic environment, and developing measures to ensure only equitable and wise use of resources. The program comprises research by scientists selected from universities and other research institutions and operations and support by a contractor and other agencies of the U.S. Government. The National Science Foundation (the U.S. Government agency that promotes the progress of science) funds and manages the program. Approximately, 3,000 Americans are involved each year. The research has three goals: to understand the region and its ecosystems; to understand its effects on (and responses to) global processes such as climate; and to use the region as a platform to study the upper atmosphere and space. Antarctica's remoteness and extreme climate make field science more expensive than in most places.” This portal

provides also access to the *Antarctic Photo Library* at: <http://photolibrary.usap.gov/>

*U.S. Army Cold Regions Research and Engineering Laboratory (CRREL).*

Online access: <http://www.crrel.usace.army.mil/>

“The Cold Regions Research and Engineering Lab (CRREL) is a unique facility of the U.S. Army Corps of Engineers that addresses the problems and opportunities unique to the world's cold regions.”

*U.S. Committee to the International Polar Year 2007-2008 : U.S. IPY home page.* Washington, D.C. : National Academy of Sciences, c2003-

Online access: <http://www.us-ipy.org/history.shtml>

The website provides information on the activities, current events, and publications of the U.S. Committee to the International Polar Year 2007-2008.

*USGS Astrogeology Research Program : ice & polar research.* Flagstaff, AZ : USGS Astrogeology Research Program.

Online access: <http://astrogeology.usgs.gov/>

“The mission of the USGS Astrogeology Research Program is to establish and maintain geoscientific and technical expertise in planetary science and remote sensing to perform the following tasks: scientifically study and map extraterrestrial bodies, plan and conduct planetary exploration missions, and explore and develop new technologies in data processing and analysis, archiving, and distribution.”

*Woods Hole Oceanographic Institution. Arctic Group.* Woods Hole, MA : Woods Hole Oceanographic Institution.

Online access: <http://www.whoi.edu/science/PO/arcticgroup/>

“This is an interdisciplinary web site of the Woods Hole Oceanographic Institution scientists currently involved in Arctic studies.

The Arctic Ocean is an important component of the global climate system. The processes occurring in the Arctic Ocean affect the rate of deep and bottom water formation in the convective regions of the high North Atlantic and influence ocean circulation across the globe. This fact is highlighted by global climate modeling studies that consistently show the Arctic to be one of the most sensitive regions to climate change. Woods Hole Oceanographic Institution has adopted an interdisciplinary approach to studying the Arctic. The objective of this web site is to organize and to provide a necessary degree of coordination between different WHOI departments and scientific centers outside of WHOI. This activity includes:  
Coordination of WHOI Arctic studies with other Arctic research centers in order to explore new directions of Arctic investigation (new methods of observations, new theories, numerical and statistical methods, etc.); Coordination of Arctic expeditions; Organization of conferences, AGU sessions, workshops, and seminars related to Arctic topics.”



## V. Poster – Polar Resources in the NOAA Central Library

The poster is a collage of images and text related to polar research. It features several key elements:

- Historical Polar Expeditions:** A sailing ship in icy waters and a historical document titled 'TOYAGE POLA AOD'. Below this is the text 'Historical Polar Expeditions'.
- www.lib.noaa.gov:** A screenshot of the NOAA Central Library website.
- NOAA Photo Library:** A screenshot of the NOAA Photo Library website.
- Polar Explorers:** A photograph of a person in a white parka walking on ice, with a red icebreaker ship in the background. Below is the text 'Polar Explorers'.
- Arctic Life:** A photograph of a walrus in the water, with the text 'Arctic Life' below it.
- NOAA Arctic Research Office:** A screenshot of the NOAA Arctic Research Office website, with the text 'NOAA Arctic Research Office' and 'www.arctic.noaa.gov/aro/' below it.
- Central Document:** A large white document titled 'Library and Information Services Division Current Reference 2007-2' and 'International Polar Year 2007-2008 Resources on Polar Research in the NOAA Central Library Network & Selected Bibliography'. It lists the NOAA Central Library and NOAA Arctic Research Office as providers.

**International Polar Year 2007-2008**  
Resources on Polar Research in the NOAA Central Library Network  
<http://docs.lib.noaa.gov/rescue/Bibliographies/IPY2007.pdf>  
U.S. Department of Commerce, NOAA, NESDIS, National Oceanographic Data Center, NOAA Central Library  
1315 East-West Highway, Silver Spring, MD 20910; e-mail address: [Anna.Fiolek@noaa.gov](mailto:Anna.Fiolek@noaa.gov)  
Janice Beattie, Director

Created by Anna Fiolek, January 2007  
LISD Current References 2007-2

Full version available online at:

[http://docs.lib.noaa.gov/rescue/Bibliographies/IPY2007\\_poster.pdf](http://docs.lib.noaa.gov/rescue/Bibliographies/IPY2007_poster.pdf)

### For more information contact:

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Visit the NOAA Central Library home page:  
<http://www.lib.noaa.gov/>