Canadian Preparations
International Polar Year 2007-2008

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NWT Centre for Geomatics
Government of Northwest Territories
Canadian National IPY Committee

Largest-ever international program of coordinated research and observations focused on the polar regions

Involves more than 60 nations

Opportunity for the international science community to:
- do collaborative scientific research in polar regions
- leave a legacy of enhanced research capacity and infrastructure, data, communication tools, and a new generation of scientists

Estimates are that:
- 35-50% of IPY projects include Canadian involvement and/or activity in Canadian Arctic
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International IPY Themes

1. Current Status of Polar Regions
2. Change in the Polar Regions
3. Global Linkages
4. New Frontiers
5. Polar Regions as Vantage Points
6. The Human Dimension
   (Human Dimension runs through ALL Themes)

Observational Initiatives
Data Management
Education, Outreach & Communication
Call for Expressions of Intent
Jan – Nov 2005 (>1200 submitted)

Call for Full or Coordination Proposals
Jun & Sept 2005 and Jan 2006 (~420 submissions)

Approximately 60% involve Canadians
IPY as ‘Snapshot’ - - - and Legacy

EXISTING POLAR ACTIVITIES

2004 2005 2006 2007 2008 2009 2010

International Year of Planet Earth
International Heliophysical Year
Electronic Geophysical Year
IPY 2007-2008
Canada’s Program for
IPY 2007-2008
Planning for IPY in Canada

**National Committee**
(22 members from gov’t, Universities and Colleges, the North)

**Federal IPY Program Office**
(hosted by INAC)

**Northern Nodes (x4)**
(hosted by northern organizations)

**Canadian IPY Secretariat**
(hosted by University of Alberta)

**Canadian Polar Commission**

**IPY Youth Steering Committee**
(youth and early career scientists)

**Federal IPY working group**
(>20 departments and agencies)

**Territorial IPY Committees**
(NWT, Nunavut, Yukon)
Canadian granting agencies & federal depts support many northern research activities:

- NSERC Northern Research Chairs
- SSHRC Northern Research Development Grants; involvement in BOREAS
- CIHR Institute for Aboriginal Peoples Health; Northern and Rural Programs
- Northern Contaminants Program
- Northern Ecosystems Initiative
- Arctic-NET Network of Centers of Excellence
- Polar Continental Shelf
- NSTP
- etc, etc

$133M/yr
New Funding for Canadian IPY activities

NSERC
$6M

Government of Canada
$150M

Request for Proposals
International Polar Year Projects in the Natural Sciences and Engineering

Extension of Deadline for NSERC Request for Proposals to Support Participation of Canadian Researchers in the International Polar Year 2007-08

The deadline for the submission of proposals in support of International Polar Year (IPY) projects has been extended to November 28, 2005. This is a result of the recent federal announcement of further funding to support Canada’s participation in IPY (http://www.ipr-apt.ca/english/index.html).

The new federal funding initiative is focused on “Climate Change Impacts and Adaptation” and “Health and Well-Being of Northern Communities,” and NSERC is not directly involved in this program. NSERC expects that applications related to these areas will be submitted to the federal departments managing this funding process. Applications received at NSERC that we determine are more appropriate for this, or other funding initiatives, will be redirected to the appropriate program.

To be considered for NSERC funding, the proposed IPY project must be endorsed by either the national or international IPY Committee. A proposal may be submitted to NSERC for a project that has not yet received official IPY endorsement.

GOVERNMENT OF CANADA ANNOUNCES $150 MILLION FOR CANADIAN PARTICIPATION IN INTERNATIONAL POLAR YEAR

EDMONTON (ALBERTA) September 21, 2005 - The Honourable Anna McLeod, Deputy Prime Minister and Member of Parliament (Edmonton Centre), today announced Canada’s participation in International Polar Year 2007-2008, the largest ever international research program in the polar regions. The Government of Canada will provide $150 million in new funding over six years to carry out an innovative, interdisciplinary program for International Polar Year (IPY) along with our international partners.

“We are an Arctic nation. Nearly one-quarter of the Arctic region falls within Canada’s borders,” said Minister McLeod. “This International Polar Year will mark the first time in fifty years that so many nations will focus their collective efforts on major questions of science in the Earth’s polar regions. This is our generation’s opportunity to move the markers ahead on northern science and research, and, as has been done in past International Polar Years, achieve those breakthroughs in knowledge that change forever the way we understand and consider our northern and Arctic regions.”
Government of Canada
Program for IPY

$150M in funding over six years starting FY 2006-07 for Canadian participation in:

1) **Science and research** focused on science for climate change impacts and adaptation and health and well-being of northern communities

2) **Training & capacity-building**

3) **Communications & outreach**

4) **Logistics, infrastructure, emergency preparedness, data management**

5) **Support for licensing, coordination and administration**
Canadian IPY Program Offices

**IPY Federal Program Office**
Established in December 2005, through partnerships between 6 federal departments.

**Canadian IPY Secretariat**
Located at the University of Alberta, supports planning and implementation of the Canadian IPY program.

**IPY Northern Nodes**
Currently hosted by 4 Northern Organizations, act as points of contact and facilitate northern research.
Northern Nodes

Yukon: Council for Yukon First Nations
NWT: Aurora Research Institute
Nunavut: Nunavut Research Institute
Nunavik & Labrador: Nunavik Research Centre

Purpose / role:
• establish point of contact in key northern regions
• facilitate integration of northern communities and organizations in proposed IPY research
• develop regional networks and act as a liaison
• information to researchers on licences, permit requirements in the northern regions
Peer review process to begin April, 2006.
Two critical Canadian policy and science interests:
  - Climate Change Impacts and Adaptations,
  - Health and Well Being of Northern Communities.

NOTE: There will be additional targeted CfP in coming months
Challenges for All Investigators

Infrastructure and logistics support
- Polar Continental Shelf Project
- Accommodation
- Transportation
- Aircraft
- Ships
- Access to research stations
- Earth Observation platforms

Licenses and Permits
Hiring of local staff
Health & safety procedures
Engaging northern communities
Partnerships and collaboration
Communications, outreach, & education
Data and information management

Don’t take these for granted!!
Community Involvement

Communities are getting involved in IPY in various ways (i.e. research leaders, resource providers, etc.)

Benefits for communities:
- Opportunities for increased access to research/researchers
- Opportunities to lead research
- Enhanced capacity and opportunities for the next generation of youth
- Economic impacts of increased local activity
Permitting, Licensing, IPR issues

- Overview Report on Research Licensing in Northern Canada
- Primer on Conducting Research in Canada's Northern Territories
- Primer on Conducting Research in the Northern Regions of Canada's Provinces

Forthcoming:
- Intellectual Property and Traditional Knowledge
- Environmental Assessment Process
- Researcher Mobility (immigration/security)
- Communicating IPY Research
Training, Communications & Outreach

www.ipycanada.ca

Newsletters

Posters

CANIPY IMS
Education & Outreach Partners

For Example:

Ends of the Earth: From Polar Bears to Penguins
Exhibit Plan

Science North

Youth Science Foundation
Welcome to CANIPY IMS
Bienvenue à CANIPY IMS

Canadian International Polar Year Internet Map Server
Serveur de cartographie internet de l'Année Polaire Internationale

Due to the large amount of information, the website will take some time to appear completely. Also avoid checking a whole folder, check one item at a time.

Due à la quantité d'information, ce site prendra un certain temps à apparaître proprement. Évitez de cocher un dossier complet, cochez plutôt un item à la fois.

Low speed connections are not recommended for this website. Please see the DATA section on the left to download CANIPY data alone.

Les connexions à basse vitesse ne sont pas recommandées pour ce site. Veuillez vous référer à la section de données «DATA» à gauche de l'écran pour télécharger les données utilisées pour CANIPY sans accès à la carte interactive.

CANIPY How-to Guide / CANIPY Guide d'Instructions:
Canadian International Polar Year Internet Map Server (CANOPY)
Serveur de Cartographie d'Internet pour l'API

Gauthier - Arctic WOLVES

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What capacity is going to be required when and where?
Observation Networks

Earth Observation

Weather Stations

Rangifer Herds

Permafrost Network
IPY Data Policy

- Free and unrestricted exchange
- Timely exchange
- Quality control
- Metadata submission
- Preservation of data
- Easy access
- Use and enhance existing facilities
- Reporting requirements
- Sensitivity of traditional knowledge
IPY data policies are currently under discussion and need to be coordinated with international and program initiatives -
- enhance existing networks
- build new networks

The Arctic Science and Technology Information System (ASTIS) database contains over 58,000 records describing publications and research projects about northern Canada. ASTIS is maintained by the Arctic Institute of North America at the University of Calgary, and is part of the Canadian Polar Information Network.

If you wish to bookmark this site, or create a link to it, please do so to this page. The pages that follow cannot be bookmarked.

La banque de données du Système d’Information sur les Sciences et la Technologie Arctiques (SISTA) renferme plus de 58 000 enregistrements décrivant des publications et projets de recherche sur le nord du Canada. SISTA est tenu à jour par l’Institut Arctique de l’Amérique du Nord situé à l’Université de Calgary et fait partie du Réseau canadien d’information polaire.

Si vous désirez marquer ce site d’un signet, ou créer un lien pour y accéder, veuillez le faire sur cette page. Les pages qui suivent ne peuvent être marquées d’un signet.
Finally, IPY as a catalyst for developing northern research infrastructure and programs.
IPY comes at a critical time for our circumpolar neighborhood...
“...Canadian northern research... requires a long-term commitment to capacity-building and rejuvenation of the northern research community through a targeted but highly flexible funding initiative.”
Contacts

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