



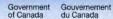
Government of Canada Program for IPY Data Management: Overview and Next Steps

Sustaining Arctic Observing Networks Second Workshop, April 11, 2008 Scott Tomlinson, IPY Federal Program Office









Canada



- · → Government of Canada Program for IPY
- Jointly managed by a committee encompassing science-based federal departments, northern responsibilities, academic granting councils and the IPY National Committee
 - Indian and Northern Affairs Canada
 - · Department of Fisheries and Oceans
 - Environment Canada
 - Health Canada
 - NSERC on behalf of NSERC, SSHRC, CIHR
 - Natural Resources Canada
 - IPY National Committee includes representatives from across Canada from the territorial governments, northern Aboriginal organizations, federal government, academia and NGOs



Government of Canada Program for IPY

- IPY Program components:
 - Science and research
 - Logistics for health and safety, licensing & permits
 - · Northern training and capacity building
 - Communications and outreach
 - Data management
- \$150 million in funding over six years 2006-2012





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IPY Science Program

- Focus on policy relevant science and research in two priority areas:
 - Climate change impacts and adaptation; and
 - The health and well-being of northern communities
- 44 science and research projects (~\$100 million)
- 1200 Canadian and 124 foreign scientists undertaking research in the Canadian Arctic in 2007
- Science projects have the potential to generate the equivalent of a decades worth of data over a two year period.







Data Management - Governance

- ADM Committee
 - Provide decisions on priorities and spending
- Federal Program Office
 - Coordinates the Data Management component of the Government of Canada Program for IPY
- IPY Data Management Subcommittee
 - Provides advice on best practices for data management
 - Recommends proposals for funding to the ADM committee on IPY

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Data Management - Objectives

- Ensuring that IPY data and information are properly managed, archived and made accessible over the long term
- This in turn will generate a stronger knowledge base for Arctic science upon which to address policy and program needs and to contribute to the strategic priorities for the North



Data Management Guiding Principles

- Promote and build upon existing best practises, resources, programs and processes; and
- Build a legacy of improved data management through increased awareness and understanding of good data management standards and procedures.

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Data Management Opportunities and Challenges

- Canada has made one of the largest investments in data management (4.7% of the total program) among the international partners for IPY
- Building awareness of the importance of data management and promoting responsible stewardship of data
- Long term data stewardship and the short duration of funding (funding available until 2012)
- Intellectual property
- Capacity building
- Standards
- Privacy and confidentiality



Data Management Framework

- Three main program areas in the framework:
 - Data assembly and archiving;
 - Ensuring access to IPY data; and
 - Supporting data management

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Data Management Framework - Work done to date:

- Data assembly and archiving
 - support provided for the development and maintenance of the Polar Data Catalogue (ArcticNet and CCIN)
- Ensuring access to IPY data
 - Support provided to the Canadian IPY Publications database (part of the Arctic Institute of North America) to ensure the breadth of IPY publications are available in one place



Data Management Framework - Next steps:

- Data assembly and archiving
 - Identification of organizations that are capable and willing to accept data, information and physical samples generated from IPY projects
- Ensuring access to IPY data
 - Provide support for data centres to provide on-line data browse, selection and download functionality
- Supporting Data Management
 - Develop standards and best practices for researchers involved in IPY projects.
 - Training and capacity building in data management

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For More Information



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