





## 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



3



## 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.



4



## 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

5



## 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

6



## 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.

7



## 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

8



## Data Management Framework

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

9



## 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

10



## 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

11



## For More Information



**IPY Federal Program Office**  
Indian and Northern Affairs Canada  
E-mail: [api-ipy@inac.gc.ca](mailto:api-ipy@inac.gc.ca)  
Phone : (819) 953-2007  
Fax : (819) 934-0584  
[www.api-ipy.gc.ca](http://www.api-ipy.gc.ca)

12



**Thank You**