

The Canadian Polar Data Network (CPDN): Data Management for the NCP

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As the successor to the International Polar Year Data Assembly Centre Network (IPY-DACN, 2010-2012), the Canadian Polar Data Network (CPDN) provides long-term repository and access services to Canadian institutions and programs with interests in or connections to polar research data. CPDN is developing a research data management infrastructure to support Canada's polar (Arctic and Antarctic) scientific research and monitoring programs initiated from and taking place in Canada, with public access to data and careful data stewardship being our primary mandates. We are developing a distributed preservation backbone, producing standards-based research metadata, training and supporting researchers, and working collaboratively with multiple institutions and across sectors to preserve data. We encourage and welcome new collaborations with researchers and partners.

In recent years, CPDN has provided data management or planning services to the IPY and Canadian High Arctic Research Station programs, and we currently support the Northern Contaminants Program and the Beaufort Regional Environmental Assessment program of Aboriginal Affairs and Northern Development Canada. To date, NCP researchers have entered 42 NCP metadata records into the Polar Data Catalogue (PDC), the CPDN online portal for researchers and the public. Our goal for this year is to support NCP scientists to complete the metadata entry and begin archiving selected data files. Planned activities also include improving interoperability with other polar data portals, to give NCP and other data more visibility, and expansion of services to facilitate ingestion of real-time monitoring data streams.

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polardatanetwork.ca
&
polardata.ca

1. CPDN consults with researchers and funding organizations to determine best practices for data collection, description, preservation, and access

**NCP Research/
Monitoring
Activities**

2. NCP researchers produce a variety of Data from their projects

METADATA

DATA

3. PDC Data Manager supports NCP researchers to prepare and submit Metadata (descriptions of datasets) and Data files to the PDC

**POLAR DATA
CATALOGUE**

4. Upon submission and approval, Metadata are available to the public. Data files may be visible immediately or held temporarily under "Limited" access restrictions, in accordance with the terms of the Data Deposit Agreement with CPDN.

5. Metadata and Data Preservation Infrastructure used for security and prevention of data loss

**User/Public
Access**

6. DataCite persistent identifiers (Data DOIs) are assigned to datasets to facilitate visibility and reuse

