

# An Arctic Data Coordination Network

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Seeking to coordinate ethically open data sharing and preservation across the Arctic

Mark Parsons, Peter Pulsifer, David Carlson, and many others

1 October 2012  
Potsdam, Germany

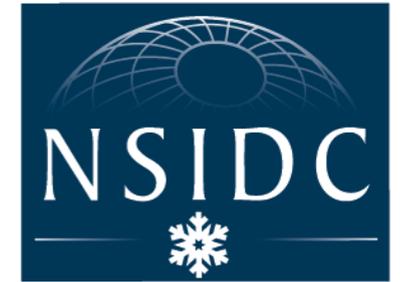


## Motivation from IPY

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- “IASC must develop an effective and pragmatic data strategy to ensure active pan-Arctic data sharing and collaboration. [...] SAON may provide an initial focus and is a logical leader of an initial pan-Arctic data strategy.”

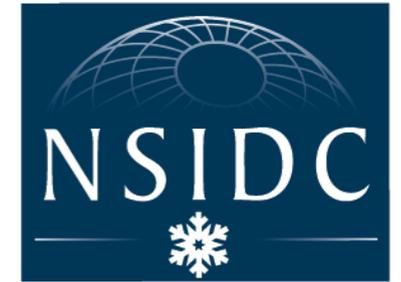
*The State of Polar Data—The IPY Experience*



# Coordination Across Networks

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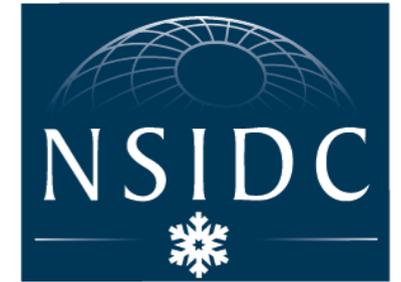
- Builds from data centers involved in the IPYDIS. Tend to be more research data focussed
- Works closely with Task 2 on creating a polar metadata profile, Task 8 coordinating existing meta-databases and project directories, and Task 9 on LTK/CBM network.
- Global Change Master Directory already harvests metadata from several IPY data centers.
- Several, Arctic and thematically focused data discovery prototypes based on automated metadata sharing are in development. ACADIS, CBMP, GCW, PDC.



# Coordination Across Networks

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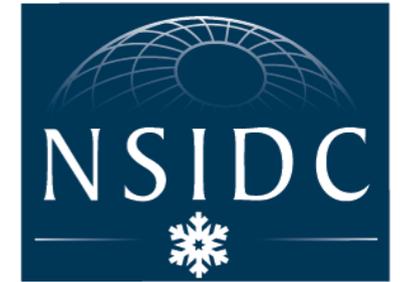
- Workshop in Montreal; 41 people, diverse topics. (see report on SAON website)
  - Advanced Tasks 2, 8, and 9.
  - Growing number of collaborators willing to share metadata and services.
  - Service and standards “brokering” is necessary to reach across disciplines and research and operations.
  - Recommended SAON network requirements.



# Way Forward

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- Erica Key, NSF is organizing coordination discussion groups in preparation for for the Arctic Observing Summit and creating an online collaboration space.
- Metadata sharing and brokering experimentation continues (slowly).
- IASC Data Policy Group launched.
- We continue to try and identify and coordinate funding. An ongoing issue is aligning what different networks and data centers are actually funded to do.



# Data Access and Beyond

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- We promote *ethically* open data in the spirit of the IPY data policy.
- How should the proposed IASC data policy relate to SAON?
- Emphasis to date has been on discovery. We need to link that better to direct access.
- New metadata sharing services will emerge in the next 6 months (PDC, ACADIS, GCW). Should one of these be a SAON portal? What does that mean? What would be involved?
- Preservation is underplayed, yet it is a necessary component of access.
- How can we extend data management plan requirements and coordinate more across operational and research data.

# Data Access and Beyond

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- Defining the requirements of what is a SAON network.
  1. There is an identified data resource person
  2. The network or data centre meets the requirements for World Data System certification
  3. The network/data centre adheres to the IPY data policy
  4. The network/data centre uses standard metadata that meets the needs of the discipline(s)
  5. The network/data centre harmonize with relevant broad international data systems (domain not discipline)
- Governance needs to be strengthened. The ADCN needs a secretariat.