

# Sustaining Arctic Observing Networks - SAON

**GEO Cold Regions Initiative (GEOCRI)**

**8<sup>th</sup> November 2016**



**Jan Rene Larsen, SAON Secretary**  
**Peter Pulsifer, Arctic Data Committee**

## SAON Vision

Well-defined *observing networks* that enable users to have access to *free, open and high quality data* that will realize pan-Arctic and global value-added *services* and provide *societal benefits*.

Attaining this vision, requires an enhancement of Arctic-wide observing activities through *coordination, integration, sharing and synthesis of data* and related information.



## Purpose and goals of Committees

- Arctic Data Committee (ADC)
  - Led by Peter Pulsifer, US National Snow and Ice Data Center
- Committee on Observations and Networks (CON)
  - Led by Lisa Loseto, Fisheries and Oceans, Canada, Hannele Savela, INTERACT

The Committees address issues that transcend individual Arctic observing and data platforms and all scales of organizational capabilities



# Arctic Data Committee

<http://arcticdc.org/>



Picture by NASA / Kathryn Hansen



## ADC News

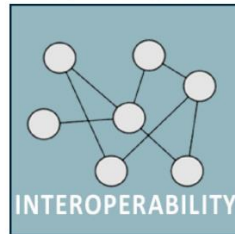
ASSW / AOS 2016  
14 Mar 2016

## Memorandum of Cooperation

Between  
The SCAR Standing Committee on Antarctic Data Management  
AND  
The IASC-SAON Arctic Data Committee



Arctic Data



Interoperability



Get Involved!

Designed & hosted by Arctic Portal

## Identifying common metadata elements

### Background

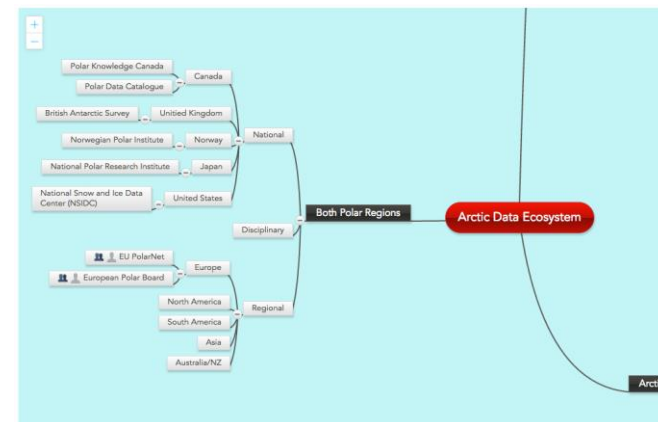
The SCAR Standing Committee on Antarctic Data Management was established in 2009 to continue to the work of the Joint Committee on Antarctic Data Management (est. 1997). The mandate of SCADM includes but is not limited to:

- Promotion of Antarctic data management
- Establishing Antarctic data management policies and priorities
- Establishing Antarctic data management policies and priorities
- Reporting to SCAR on Antarctic data management issues

More information about SCADM can be found at: <http://www.scar.org/scadm>

The IASC-SAON Arctic Data Committee (ADC) was established in 2014 based on a recommendation made in the *IASC Statement of Principles and Practices for Arctic Data Management* (April 16, 2013). The overarching purpose of the ADC is to promote and facilitate international collaboration towards the goal of free, ethically open, sustained and timely access to Arctic data through useful, usable, and interoperable systems. This includes but is not limited to:

- Advising IASC and SAON on matters related to data management and data sharing;



# Polar Data Forum II:

## International Collaboration for Advancing Polar Data Access and Preservation

Search this site



27-29 October 2015

University of Waterloo, Waterloo, Ontario, Canada

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### Welcome to the Polar Data Forum II website!

**Update 25 January 2015:** The deadline for submissions to the DSJ Special Issue has been extended, and funds have been made available to cover publishing charges for a limited number of manuscripts! Please [contact us](#) with questions or intent to submit. Thank you for your contributions!



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### Second Polar Data Forum Communiqué

International Collaboration for Advancing Polar Data Access and Preservation  
October 27th - 29th, Waterloo, Ontario  
<http://www.polar-data-forum.org/>

#### The Importance of the Polar Regions for Humankind

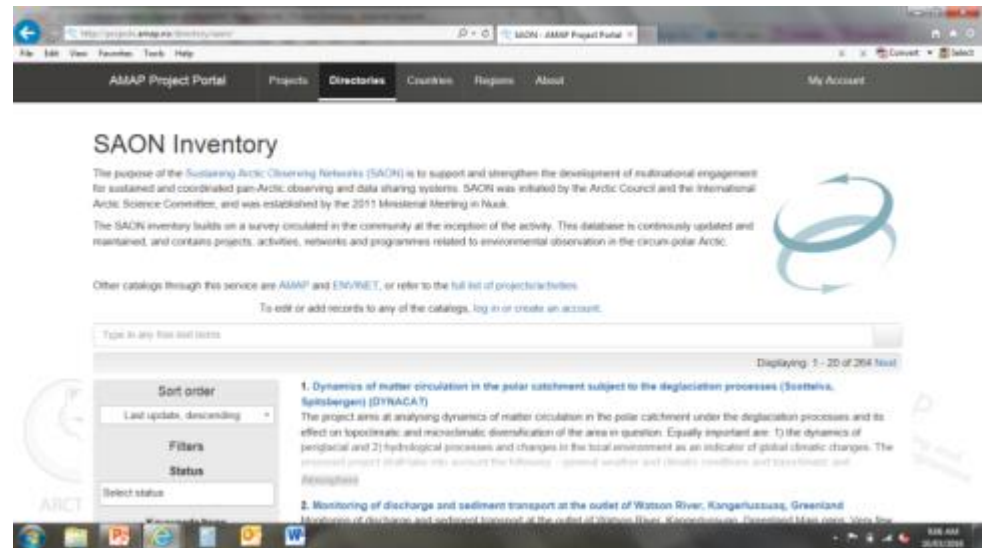
The Polar Regions are experiencing dramatic change. Understanding their complex dimensions (environmental, climatic, social, economic, and geophysical) is critical to grasping the global system and defining our future. Data are an invaluable resource. The coordinated capture, analysis, storage, stewardship, and sharing of scientific data along with Indigenous knowledge helps society better understand

to make polar data more useful and valuable in solving global problems.

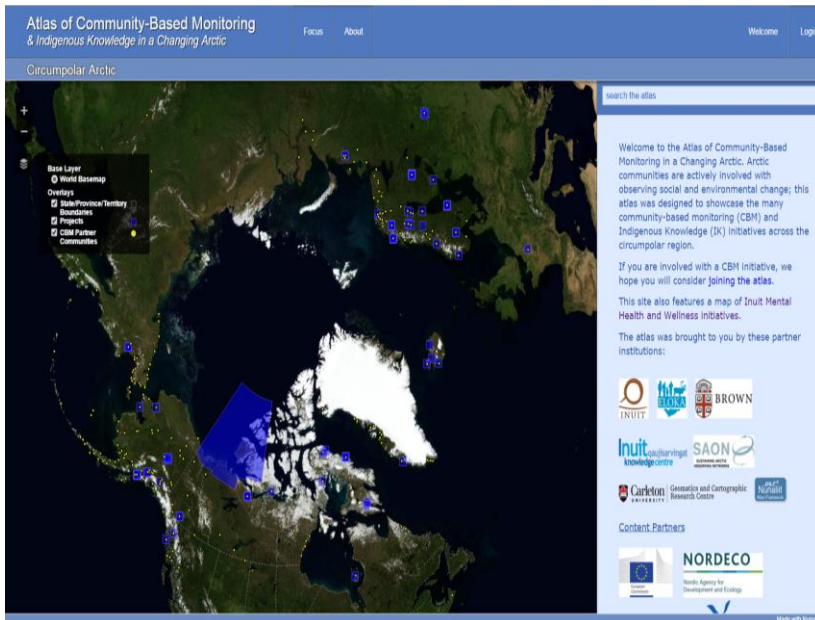
#### The Second Polar Data Forum

In 2013, at the First Polar Data Forum in Tokyo (PDF I), the community identified issues and made observations and recommendations on polar data management. PDF I focused on improving how people and systems can share data in a meaningful way. The goal was to move towards open and connected systems based on a culture of trust and acknowledgement of data

# Committee on Observations and Networks: Inventories



## Programme/Project Directory



## Atlas of Community Based Monitoring

## SAON EU-PolarNet

Through the Arctic Monitoring and Assessment Programme (AMAP, a Working Group of the Arctic Council), SAON Committees contribute to these EU-PolarNet deliverables:

With Committee on Observations and Networks (CON):

- Inventory of existing monitoring and modelling programmes
- Strategic analysis of the different monitoring and modelling programmes and related infrastructures
- Roadmap for optimisation of monitoring and modelling programmes

With Arctic Data Committee (ADC):

- Data management recommendations for polar research data systems and infrastructures in Europe
- White paper on European polar data accessibility, including proposals for capacity building methodology to interconnect the existing and upcoming polar research data systems and infrastructures and thus ensure data are made more widely available and in a timely manner



## The Arctic Observing Summit is SAON's outreach event

- **Coordinate** the *implementation of a pan-Arctic observing system* with regional and global observing initiatives, and organize efforts in securing resources for its sustained operation through the leadership of the Sustaining Arctic Observing Networks (SAON) initiative
- **Work**, through the IASC-SAON Arctic Data Committee, to develop a *broad, globally connected Arctic observing data and information system of systems* that is based on open access data and standards, in addition to recognizing and addressing ethical use and proprietary rights of Indigenous Knowledge and that delivers value to Arctic and global communities.







## Arctic Science Ministerial Meeting, September 2016

- SAON is a critical contributor to 'Strengthening and Integrating Arctic Observations and Data Sharing'
- A US SAON Office will be opened
- Arctic Observation Framework: An international effort to identify common objectives that rely on earth observing data to deliver societal benefit in the Arctic

## SAON Membership

- All eight Arctic Council nations
- Indigenous organisations (PPs): AIA, ICC, Saami Council
- AC Working Groups
- Non-AC countries: China, Germany, Italy, Japan, Korea, Poland, Spain, UK
- Organisations: European Commission, EEA, GEO, ICES, IPA, ISAC, WMO (more)
- Networks: IASOA, INTERACT (more)

SAON is a joint effort of the **Arctic Council** (through AMAP) and the **International Arctic Science Committee**





## SAON and GEO/GEOCRI

- SAON serves as the Arctic Extension / Liaison for GEOSS/GEO
- Contributing to the GEOCRI work plan:
  - Developing inventories of Arctic observational assets, including organizations, programs, projects, networks and systems
  - Documenting and understanding the Arctic data management ecosystem
  - Maintaining an atlas of Community Based Monitoring



[www.arcticobserving.org](http://www.arcticobserving.org)



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Photo: Martin Fortier

#### SAON on the Map



#### Events

- 26-31 March 2017: Understanding Polar Ecosystems Change Through Time Series Observations, Technological Advances, and Biophysical Coupled Modeling
- 5-9 December 2016: ArcticNet Annual Scientific Meeting
- 5-10 November 2016: Arctic Data Committee & "Polar Connections" Interoperability Workshop and Assessment Process
- 7-10 November 2016: GEO-XIII Plenary
- 27 September 2016: ILLPolarNet Threshold Forum

#### News

- The White House Arctic Science Ministerial
- Asian Forum for Polar Sciences (AF&PS) Newsletter 01-2016
- [External review of SAON](#)
- POLAR2015
- SCOS Update, Issue 10, August 2016
- SAON on Facebook