

SAON Board Update

Report from the Arctic Data Committee and Partners

Peter L. Pulsifer (Carleton University, NSIDC U Colorado)

Chair, IASC-SAON Arctic Data Committee (ADC)

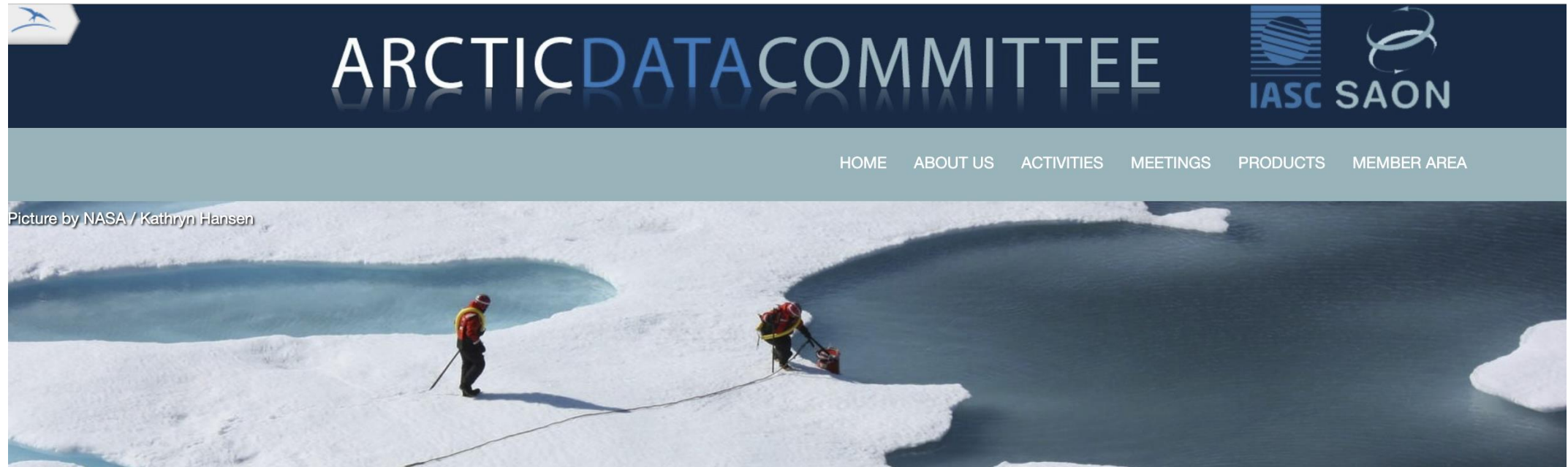
Co-Lead GEO Cold Regions Initiative

Marten Tacoma, Stein Tronstad (ADC Co-Chairs)

Pip Bricher, SOOS

Anton Van de Putte, SCADM

<http://arcticdc.org>



ADC News & Events

Polar Data Forum III - November 2019 -
Helsinki, Finland

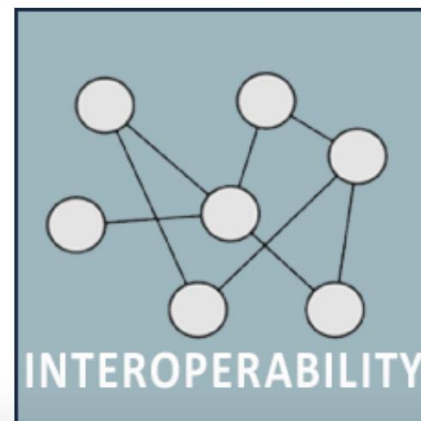
13 Mar 2019

Polar Data Architecture workshop 28-30
November 2018, Geneva, Switzerland

24 Aug 2018

Arctic Observing Summit, 24-26 June
2018, Davos, Switzerland

3 Nov 2017



ASM2 Deliverable Statement

Sub-Theme 2: Implementing and Optimizing a Pan- Arctic Observing System



Arctic Observing Summit (AOS)

Working Group 4: Participants of this group will focus on the role of the observing system implementation.

Co-chairs: Dr. Peter Pulsifer (National Snow and Ice Data Center); Dr. Torgeir Sævi (Finnish Meteorological Institute)

Rapporteur: Dr. Anja Rosel (Norwegian Polar Institute); Ms. Shannon Christoffersen (University of Calgary).

Thematic Working Group members: Dr. Paul Berkman (Tufts University); Dr. Maribeth Murray (University of Calgary); Dr. Roberta Pirazzini (Finnish Meteorological Institute); Ms. Sarah Marie Strand (The University Centre in Svalbard); Mr. Mikko Strahlendorff (Finnish Meteorological Institute); Dr. Taneil Uttal (National Oceanic and Atmospheric Administration).

Title: Developing an architecture for an international, interconnected arctic data system

Funding Programme and/or Organisation

Sustaining Arctic Observing Networks (SAON)

Coordinating organisations and main contact person

- The Arctic Data Committee
- Standing Committee on Antarctic and Southern Ocean Observing Systems

Main contact person: Peter L. Pulsifer
Colorado, Boulder, USA; e-mail: pete@noaa.gov

Description of the deliverable

Arctic societies, science and services are entering a new era that increasingly require cross-cultural, interdisciplinary integration of data to provide critical understanding and products. These needs require an integrated Arctic data system that is not only part of the global system, but which also allows exchange and usage of data between disparate data systems. Such a data system will allow enhanced understanding that is critical for mitigating risk to humans and infrastructure, reducing costs of adaptation and development, and supporting much needed research that spans disciplines and knowledge systems, including science and Indigenous Knowledge.

Data are an integral element in the observing system value chain. Without a data system that makes well documented data accessible, many kinds of observations are ephemeral and their value is limited. As such, we must ensure that the overarching observing

<https://polar-data-forum.org/>

The image shows a website banner for the Polar Data Forum. The background is a dark, atmospheric photograph of a snowy landscape with small wooden buildings and evergreen trees. At the top, there is a dark green navigation bar. On the left, it says 'Polar Data Forum' with the tagline 'Let polar data holders get together and make more use of data.' To the right of the tagline are several navigation links: 'Home', 'Program', 'Conference', 'Workshops & Hackathons', 'Logistics', and a prominent 'PROGRAM' button in a teal color. In the center of the banner, the text 'Third Polar Data Forum' is written in large white letters, followed by 'November 18 to 22, 2019 - Helsinki, Finland' in smaller white text. Below this, there is another teal 'PROGRAM' button. At the bottom, a countdown timer is displayed with four dark boxes containing the numbers '04', '17', '58', and '27'. Below these numbers are the labels 'Days', 'Hours', 'Minutes', and 'Seconds' respectively, separated by colons. A small white icon of a mobile phone is centered below the timer boxes.

Polar Data Forum
Let polar data holders get together and make more use of data.

[Home](#) [Program](#) [Conference](#) [Workshops & Hackathons](#) [Logistics](#) **PROGRAM**

Third Polar Data Forum

November 18 to 22, 2019 - Helsinki, Finland

PROGRAM

04 : **17** : **58** : **27**
Days Hours Minutes Seconds

Policy, Broader Context and Scenarios

Home → Workshops & Hackathons → Policy, Broader Context and Scenarios

For more information on this workshop please contact [Peter Pulsifer](#)

Convening bodies: Arctic Data Committee, Southern Ocean Observing System, Standing Committee on Antarctic Data Management

Duration: one day

Background

A number of recent conferences, workshops and meetings have confirmed that there are many national, regional and local projects and programs that are active in polar data management and stewardship and that also have a mandate or desire to contribute to regional or international coordination of efforts and activities. Many of those initiatives have resources available and are making progress towards an envisioned connected, interoperable polar data system. The international polar data community is eager to improve cooperation and coordination of their efforts.

At the 3rd Polar Data Forum, representatives from a wide range of different active programs and



Get notified

If you want to receive updates on the Polar Data Forum III please subscribe to the polardata mailing list at <https://nsidc.org/mailman/listinfo/polardata>

Paper, White Paper, Manuscript

- At Third Polar Data Forum, Pulsifer, McCubbin et al. will present a paper that will report on a synthesis of the content and outcomes of key Arctic and Polar data meetings and events dating to 2006

Reports Analyzed to Date

- Report 1: IPY Data Management Workshop (2006)
- Report 2: SAON Data Management Workshop Report (2010)
- Report 3: IPY Arctic Data Coordination Network Workshop minutes (2012)
- Report 4: Report on Workshop on Cyberinfrastructure for Polar Sciences (2013)
- Report 5: International Forum on Polar Data Activities in Global Data Systems Communique (2013)
- Report 6: Second Polar Data Forum Communique (2015)
- Report 7: Data Management for Arctic Observing: A Community White Paper (2013)
- Report 8: Response to the Open Geospatial Consortium Request for Information on Arctic Spatial Data by the Polar Data Community (2016)
- Report 9: OGC Arctic Spatial Data Pilot Phase 1 Report (2016)
- Report 10: Polar Data and Platform Interoperability Requirements (2017)
- Report 11: Developing an architecture for an international, interconnected arctic data system, SAON (2018)
- Report 12: Report of the 2nd Canadian Polar Data Workshop (2017)
- Report 13: Summary Report: Polar Data and Systems Architecture Workshop (2018)
- Report 14: Polar Data Planning Summit - Context and Scenarios Minutes (2018)

Top-Level, Key Themes Identified

Social and Organizational

- Community Building and Coordination (includes sub-themes, e.g. Data Managers, Mediators, Coordinators)
- Engaging Arctic Indigenous Peoples
- Education, Outreach, Culture Change
- Funding
- ...

Technical

- Interoperability
- Data Discovery
- Data Archiving

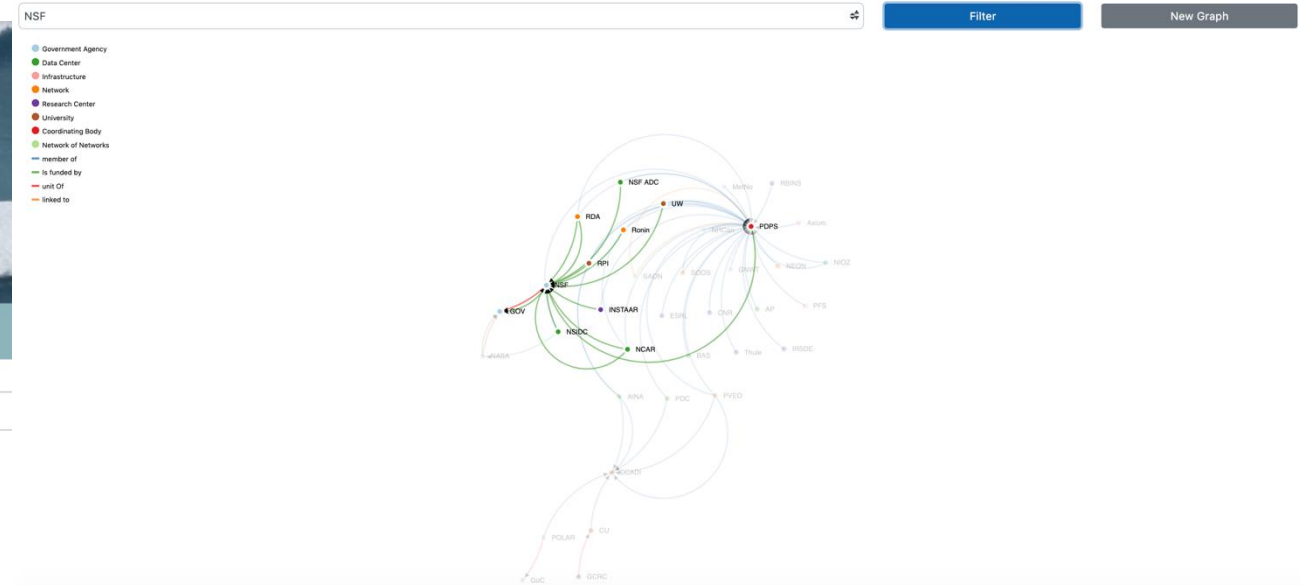
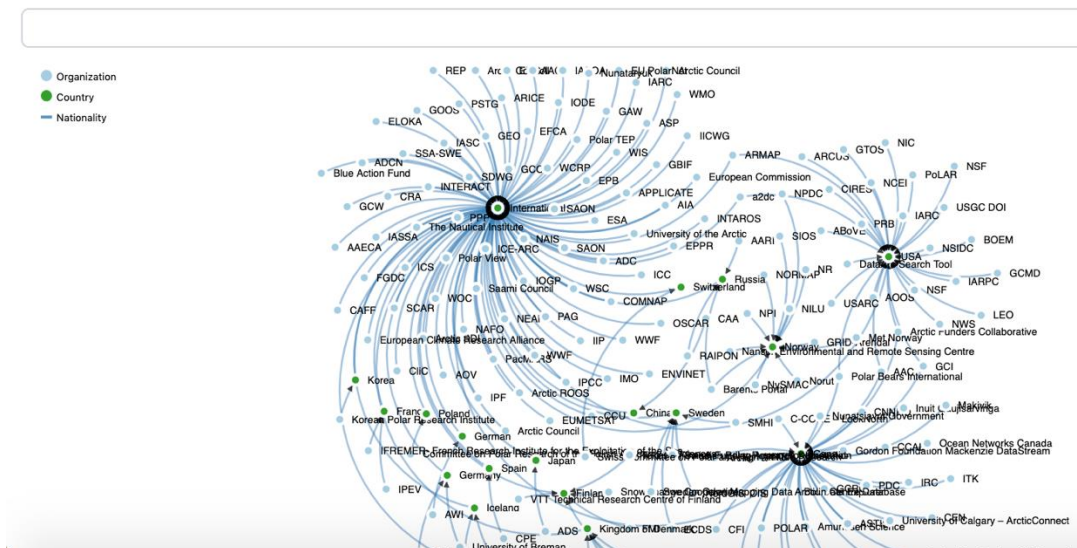
Matrix and Other Analyses Provide “weight” of Themes

[illegible]

Combining Analysis with Mapping the Arctic Data Ecosystem project Visualization and Analysis Tool



[Home](#) [Harvesting Graph](#) [Organization Relationships Graph](#) [Nationality Graph](#) [About](#)



Next Steps

- Summary paper presented at Third Polar Data Forum
- Using feedback from Forum, Arctic Observing Summit White Paper to be submitted
- Journal article manuscript submitted based on White Paper and other work
- These documents can be used to provide SAON guidance to ArcticGEOSS consortia developing their proposals



Thank you!