

The Sustaining Arctic Observing Networks (SAON)

Designing a Pan-Arctic System for Sustainable Observing

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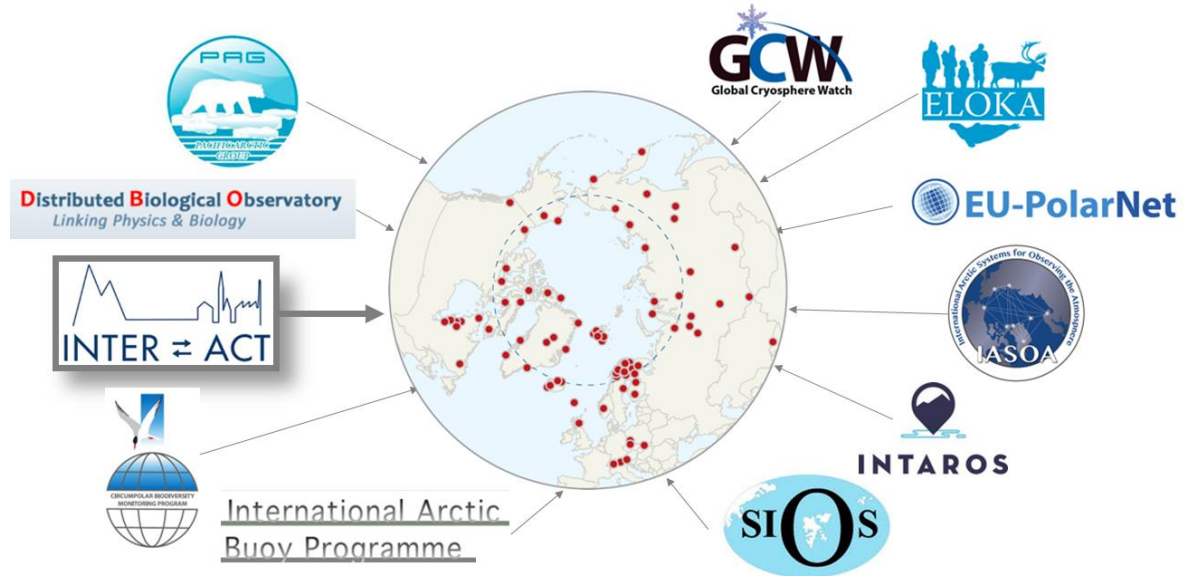
SAON Secretary

ASSW/FARO May 2019



Vision

A connected,
collaborative,
and
comprehensive,
long-term, pan-
Arctic observing
system that
serves societal
needs



Goals

The SAON Strategy and Implementation Plan were approved in 2018 and are organized around three key goals:

1. Create a roadmap to a well-integrated Arctic Observing System (Committee on Observations and Networks, CON)
2. Promote free and ethically open access to all Arctic observational data (Arctic Data Committee, ADC)
3. Ensure sustainability of Arctic Observing



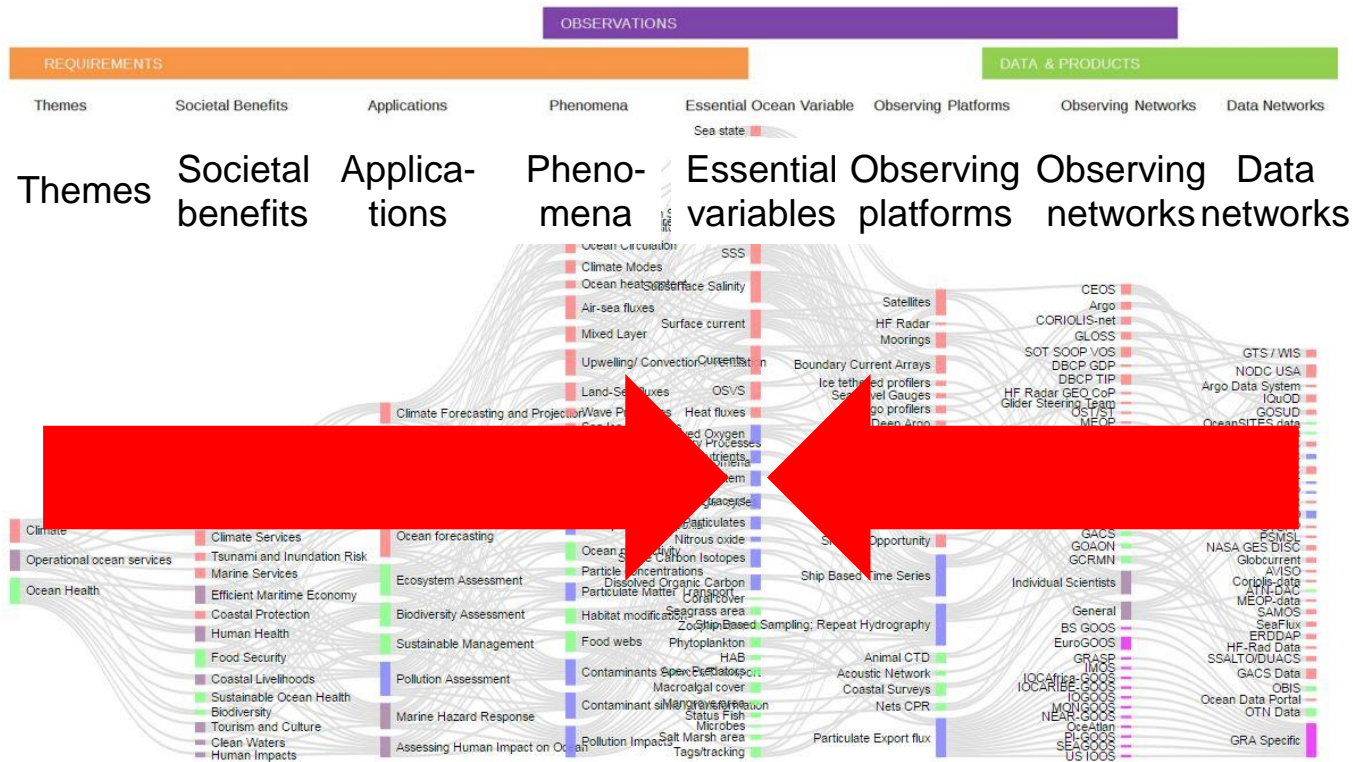
The first Arctic Science Ministerial launched a keystone effort in identifying 12 Arctic-specific *Societal Benefit Areas* to support collective international action on observing.

<https://www.arcticobserving.org/images/pdf/misc/STPI-SAON-International-Arctic-Observations-Framework-Report-2017.pdf>



1. Disaster Preparedness
2. Environmental Quality
3. Food Security
4. Fundamental Understanding of Arctic Systems
5. Human Health
6. Infrastructure and Operations
7. Marine and Coastal Ecosystems and Processes
8. Natural Resources
9. Resilient Communities
10. Sociocultural Services
11. Terrestrial and Freshwater Ecosystems and Processes
12. Weather and Climate

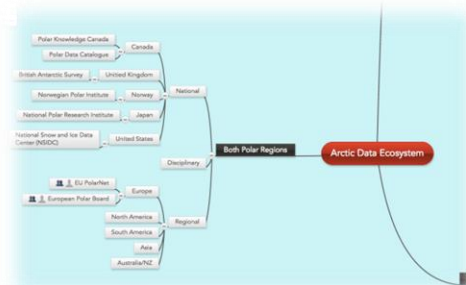
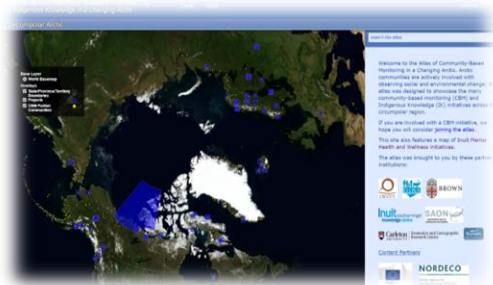
Roadmap: From benefits to networks



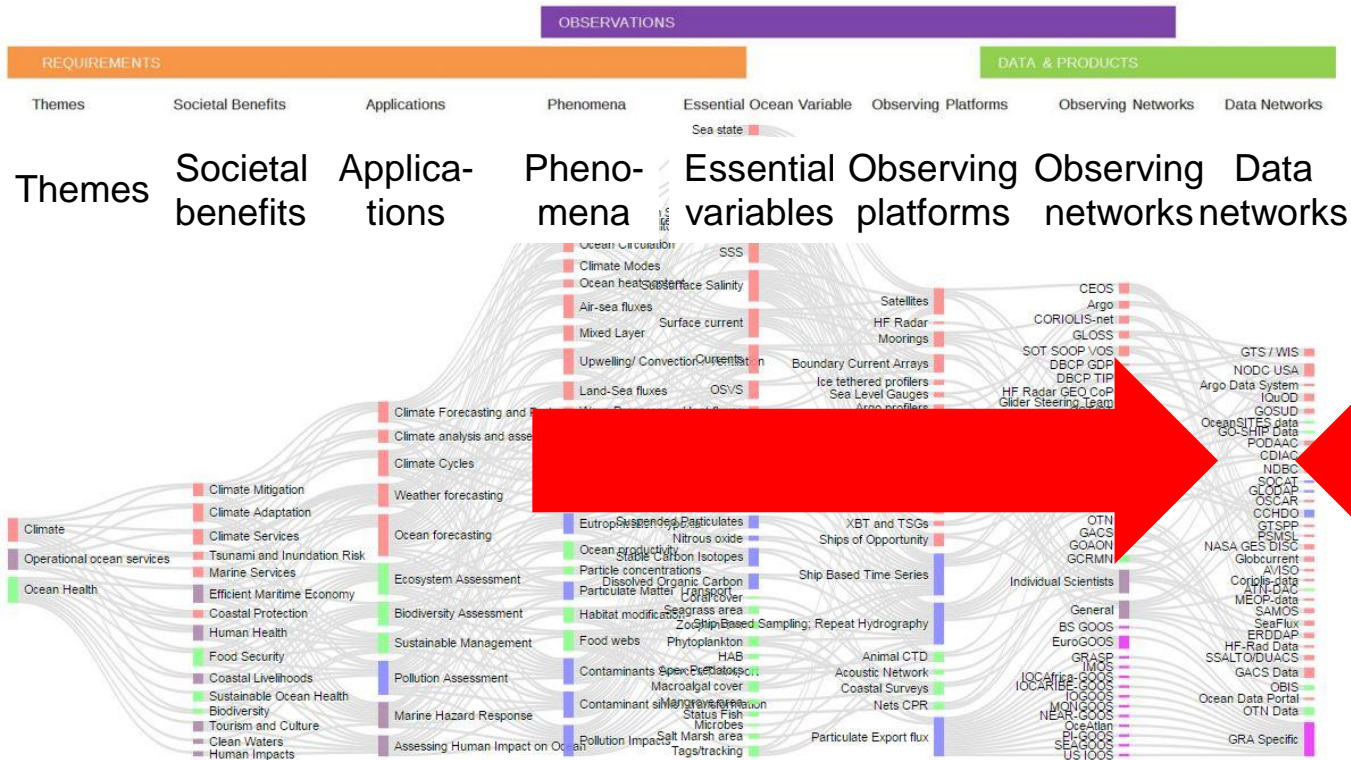
SAON Goal: Free and ethically open access to all Arctic observational data

Main objectives:

1. A road map outlining a world-wide system that will provide researchers and others with access to all Arctic observational data
2. A world-wide system for access to all Arctic data.
3. Establish a Persistent Consortium of Organisations to Oversee the Development of a a world-wide system for access to all Arctic data



Roadmap: From benefits to networks



Data Sharing: Cooperation from Local to Global

- Significant progress made since International Polar Year
- Framework for cooperation exists
- Recent collaboration being leveraged to establish concrete “architecture”



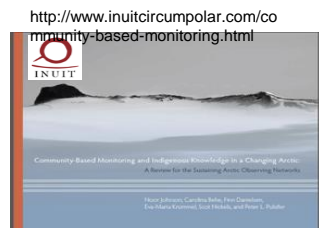
The Polar Data Project

The Polar Data Community (including Arctic Data Committee) is establishing the **"Polar Data Project"**, focusing on linking together existing and new resources to develop the system:

- Leverages existing entities (e.g. GCW, ASDI, Arctic Portal, CCADI, NSF ADC, INTAROS, GEO CRI and many others)
- Focus on concrete proposals to achieve workplan (e.g. ASM2 Deliverable, T-MOSAIC)
- Plan to work with funding agencies to enhance alignment, reduce fragmentation, promote effective governance and establish co-funding mechanisms
- In close collaboration with Arctic communities and Indigenous organizations, observing community, science community, private sector, and others

Indigenous Knowledge, Community Based Monitoring (CBM) and Information Systems

- Growing group actively working to share Indigenous Knowledge, information and data
- Progress needed on bridging worldviews, concepts and semantics represented in information systems
- Indigenous Peoples must lead engagement and work with their knowledge



Third Polar Data Forum

- Week of 18 November 2019, FMI HQ, Helsinki, Finland
- 2 days plenary ; 3 days "hackathon"
- Convened by ADC, SOOS, SCADM, WDS, GCW, others
- Hosted by FMI, INTAROS, NIOZ, EPB, others
- General knowledge sharing +
- Concrete activity/progress on:
 - Federated search
 - Semantics
 - Data interoperability
- Several planning activities ; committees forming
- Aiming for detailed materials for ASSW

Temporary URL: <http://bit.ly/PDFIIISite>

Polar Data Forum III

Following conversations at the Polar Data Planning Summit in Boulder, and the Polar Data and Systems and Architecture Workshop in Geneva in 2018, we are pleased to announce that the Third Polar Data Forum (PDF III) will be hosted by the Finnish Meteorological Institute at their Dynamicum campus in Helsinki from November 18th to 22nd, 2019. PDF III will be co-organized with regional partners including the IXTABDS project in conjunction with the EU Arctic Cluster, the Royal Netherlands Institute for Sea Research, and other European organizations. The Forum will be co-convened by the IASC-SAON Arctic Data Committee, Southern Ocean Observing System, Standing Committee on Antarctic Data Management, the World Data System and other organizations engaged in polar data management.

PDF III will be a two day conference style meeting in support of information exchange, with the remainder of the week using a "hackathon" approach that will build on the development work done in Boulder, Geneva and other related meetings.





SAON Membership

- All eight Arctic Council nations
- Non-AC countries: China, Germany, Italy, Japan, Korea, Poland, Spain, UK
- Indigenous organisations, mainly ICC, Saami Council
- Partners (institutions, organizations, networks), including European Commission, ESA, GEO, and WMO)

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

The Arctic Observing Summit is SAON's outreach event

- The theme for AOS 2018 was *The Business Case for a Comprehensive Pan-Arctic Observing System*
- AOS 2020 will be held with ASSW in Akureyri, Iceland. The theme will be *Observing For Action*
- <http://www.arcticobservingsummit.org/>



More information:
www.arcticobserving.org

SAON
SUSTAINING ARCTIC
OBSERVING NETWORKS

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Photo: Martin Fortner

SAON on the Map

Events

- 8-20 May 2016: 2nd Pan-Eurasian Experiment (PEEX) Science Conference & the 6th PEEX Meeting
- 16-17 March 2016: Meeting of the SAON Board
- 14 March 2016: Meeting of the SAON Committee on Observations and Networks (CON)
- 14 March 2016: IARPC Arctic Data Coordination Team open town hall meeting
- 15-18 March 2016: Arctic Observing Summit
- 13 March 2016: Pacific Arctic Group (PAG): Business Meeting

News

- APECS is seeking a new host for the International Directorate
- Old weather
- Integrating Arctic Research
- Polar Data Forum update
- Arctic 100 Expedition in spring / summer 2017
- CAFF's Webinar series: Land Cover Change Index