



**SAON Board meeting 7th April 2017  
9-15 (CET) / 3-9 AM (EST)  
Venue: ASSW, Prague, Czech Republic**

## **1. Introductions and adoption of agenda**

Christine Daae Olseng (SAON Chair) welcomed the participants and explained that the purpose of the meeting was to present background information for the strategic work for SAON, and to prepare a Retreat to be held later. The agenda was adopted (Appendix 1). The list of participants is found in Appendix 2, the list of documents is found in Appendix 3, and the list of actions is found in Appendix 4.

## **2. SAON Committees**

### **2a. Arctic Data Committee (ADC)**

Peter L. Pulsifer (ADC Chair) gave an overview of past and ongoing activities of the Committee and the work plan for 2017-18 (presentation # 2).

A major activity in 2016 had been a workshop on interoperability<sup>1</sup> with these themes:

- Data Discovery and Documentation
- Data as a Service
- Social Sciences, Indigenous Knowledge, Community Based Observing
- Cloud Data and Computing Platforms
- Connecting to the Global
- Governance & Sustainability

The event had been a combination of meetings of EU-PolarNet, the workshop, and ADC. There had been 60 participants from 17 countries, including indigenous organization participation

ADC had contributed to the statement from the 2016 Arctic Observing Summit, emphasizing the importance of interoperability.

It had been a Committee priority since 2014 to establish a mapping of the 'Arctic Data Ecosystem'. A similar initiative had been developed within the 'Pan-Arctic Options Project' (PAO), and this initiative will now lead

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<sup>1</sup> <http://arcticdc.org/meetings/adc-meetings/interoperability-workshop>

the effort, while sharing results with ADC, and others (World Data Systems, Belmont Forum, CODATA, Research Data Alliance, SAON, EU-Polarnet).

From the 2017-18 workplan, Peter L. Pulsifer high-lighted these activities:

- Mapping Arctic Data Ecosystem Initiative
- Work with partners on promoting data publications and citation – esp. NIPR, JP: ISAR 5 session ; Polar Data Journal
- Network building: strengthen existing partnerships and new:
  - GEOCRI, WMO, INTAROS, ESA, IARPC
  - Organizing AOS 2018

Focus activities will be on a) Metadata Elements, b) Education and Training, and c) Vocabularies.

Peter L. Pulsifer concluded the presentation, noting that the main challenges today are social and organizational rather than technical. Efforts should include “coordinating the coordinators”. He encouraged the Board to establish a clear path forward for working with GEO/GEOCRI, not only for ADC, but for SAON as a whole. He finally noted that the model for ADC is that the work is done by the members through individual contributions.

Sandy Starkweather (USA) asked how the work of the ADC is coordinated with the Portal Data Catalogue of the Global Cryosphere Watch (GCW). It was agreed that this is a question that requires more attention.

Eva Kruemmel (ICC) wanted to know how Indigenous representation in the Committee is secured, if more than two people could participate, how the representatives are determined, and encouraged him to ensure that PP organizations should be involved in the selection. Peter L. Pulsifer responded that he was working to identify funding to support two Indigenous representatives for the committee, and that the details on who those representatives are would still need to be determined. It would also be the question of finding the right balance compared to national representation and voting rights as each country usually has only one vote, even if more than one national representative is part of the committee.

Larry D. Hinzman (SAON vice-Chair) concluded that the Committee had had many activities and achievements within the last years, but also that the Committees cannot do this without resources.

- ✓ Action: ADC to detail the work plan as an input to the Retreat

## 2b. Committee on Observations and Networks (CON)

Hannele Savela (Finland, co-chair of CON) presented objectives, goals and current activities of the Committee (presentation # 1). She noted that CON is the ‘home of the networks’ with these main goals:

- Provision of information on the baseline arctic observational assets
- Bringing together networks across domains
- Improvement of the Arctic observing networks
- Sustainability of observational platforms among nations and organizations (including indigenous peoples)
- Improved planning/coordination of current and future observational systems

The Committee was currently drafting its next work plan. It will follow the the two-year AC chairmanship period, and is now being developed for the 2017-19 Finnish AC chairmanship. The main headings in the work plan are:

- Bring the networks and observations together
- Contribute to the inventory of observational assets, programs, projects, platforms and networks
- Developing best practises for SAON Networks
- GEO Cold Regions Initiative
- Support SAON as the Arctic extension to GEOSS
- GEO Community Portal Development
- Activities 2.1, 2.2., 3.2 related to infrastructures and ECRVs
- Contribute to WMO Rolling Review of Requirements (RRR)

Finalisation of the Terms of Reference is awaiting overall strategic SAON discussion.

In the following discussion, several members expressed the wish that CON would add activities related to the 'Arctic Observing Framework Workshop' to the work plan. Hannele Savela responded that one activity could be to map current CON activities to the framework, but that this and other follow-up activities would be pending the outcomes of the Framework workshop.

- ✓ Action: CON to add follow-up work to the 'Arctic Observing Framework Workshop' to the Committee work plan.

### 3. INTAROS

Integrated Arctic Observation System ('INTAROS') is a project funded by EC under Horizon2020 with the overall objective to develop an efficient integrated Arctic Observation System by extending, improving and unifying existing and evolving systems in different regions of the Arctic. The coordinator Stein Sandven presented the project (presentation # 4) and described the activities of the six work packages:

- Requirements and strategy for a Pan-Arctic system
- Exploitation of existing observing systems
- Enhancement of in situ systems
- Community-based observing systems
- Data integration & management - IAOS
- Applications towards stakeholders

In the presentation, Stein Sandven also noted that the project is part of EU's 'Arctic project', which also covers the projects EU-PolarNet, 'APPLICATE', 'Blue Action', 'Arctic Permafrost' and a series of infrastructure projects. He finally provide details about the workshop "Building long - term observing systems in the Arctic - requirements and challenges" to be held 5<sup>th</sup> May 2017.

In the following discussion Stein Sandven emphasized the need for the project to collaborate with SAON and it's committees.

Nicole Biebow (Germany) noted the overlap with EU-PolarNet and believed that INTAROS should build the work on EU-PolarNet deliverables, including the inventories.

One of the activities of the project is to establish a Pan-Arctic Observation Forum. The similarity with the Arctic Observing Summit was noted and Stein Sandven emphasized that this will be developed in cooperation with existing stakeholders.

Rodica Nito (WMO) encouraged the project to follow the work that WMO is doing to record the capabilities of operational programs through the OSCAR system. The goal of this facility is to provide real-time or near-real time status of existing programs as well as reported variables.

Eva Kruemmel (ICC) asked how the project will cooperate with ADC and how the project will work with Community Based Monitoring (CBM). Stein Sandven responded that Peter L. Pulsifer is involved in one of the work packages, and he believed that connections to CBM and the Committees could be through him.

Lars-Otto Reiersen (AMAP) saw SAON as the follow-up to INTAROS, and Hannele Savela agreed that SAON should see INTAROS as the instrument to create the sustaining arctic observing network. Christine Daae Olseng proposed that a detailed plan on the cooperation with INTAROS should be developed for presentation at the coming INTAROS stakeholder workshop.

- ✓ Action: Develop a detailed plan on the cooperation between INTAROS and SAON.

#### **4. Arctic Science Ministerial: 2016 and 2018**

Larry Hinzman summarised the outcome of the 2016 Ministerial, noting that it had aligned the thinking among nations and pushed Arctic observations.

Attilio Gambardella (European Commission) told the meeting about the preliminary plans for a 2018 Ministerial. The European Commission, the Republic of Finland and the Federal Republic of Germany agreed to co-host the second Arctic Science Ministerial in the autumn of 2018. The Ministerial will not be an Arctic Council event, but connection is ensured by one of the ASM2 organisers, Finland, holding the chairmanship of the Arctic Council between May 2017 and May 2019.

The meeting will take place over two days, but the final format is still under discussion. It will be held in Berlin, Germany in the last week of September or the first week of October 2018, and more detailed information will be available in the beginning of the Summer 2017.

The four themes discussed at the ASM1 and the relevant deliverables will be subjects of the Ministerial discussion in 2018 together with new themes that the organisers and the scientific community will identify as prominent. All the delegations present at the ASM1 will be invited along with other governments engaging in Arctic Science. The participation of indigenous communities from the Arctic region is considered a priority. Their traditional knowledge and understanding of their natural environment is an essential element which contributes significantly to scientific understanding. Representatives of different Arctic community organizations from various Arctic countries around the world will be invited to take part in the Ministerial.

## 5. Arctic Workshop of the Transatlantic Ocean Research Alliance

The Arctic, through its interplay with the Atlantic Ocean, is a region of interest of the EU-US-Canada Transatlantic Ocean Research Alliance launched by the trilateral Galway declaration in May 2013. The Alliance triggered the decision to invest in a broad package of Arctic research activities.

Three large research projects focusing on developing an integrated Arctic Observing system and on the effects of Arctic change on lower latitudes have already been selected for funding and started their work in late 2016. All three projects have a broad transnational partnership.

Therefore, the European Commission had decided to organize an Arctic Workshop under the Transatlantic Ocean Research Alliance flag to build on this positive momentum and to further the scientific partnerships in the Arctic between the EU, the US, Canada and beyond. The workshop was co-chaired by the three chairs of the EU-US-Canada Arctic Working Group, Andrea Tilche, Martin Jeffries and Alain Leclair.

Another objective of the workshop was to contribute to the establishment of strategies and international efforts to work on some of the deliverables identified at the recent White House Arctic Science Ministerial. In particular, the discussion focused on developing an integrated Arctic observing system and on advancing towards the provision of sustained Arctic observations.

The Workshop was organized in two parts: First, a session to showcase projects and initiatives taking place in Canada, Europe, the United States, which are relevant to the development of an integrated Arctic observing system; Second, there were three discussion sessions: "Key Arctic Change variables for an integrated Arctic observing system serving scientific and operational purposes", "Status of data availability and strategies to build an integrated data access platform", and "Strategies and mechanisms to facilitate international Arctic science cooperation".

A report of the workshop will be prepared and distributed to participants and interested organizations. The Arctic Working Group will draft a white paper on "Possible strategies and mechanisms to facilitate international Arctic science cooperation".

## 6. Arctic Observing Framework Workshop

Steven M. Lev (STPI, USA) presented the outcome of the workshop on the development of an 'International Arctic Observations Assessment Framework'. The workshop had been done in collaboration with a series of international partners, and SAON had been engaged in the Workshop Organizing Committee (WOC) and had identified experts for the workshop. Representatives to the workshop were from Canada, Denmark, Finland, Germany, Italy, Japan, Norway, Russia, and USA.

The overall goal of the project is to 'assess contributions that current Arctic observations make toward delivering societal benefit within the Arctic'. The workshop (phase 1) had developed a Framework with identified Social Benefit Areas (SBAs) that rely on earth observations. Even though these SBAs were specific to the Arctic, the workshop had also mapped these to GEO SBAs. Phase 2 will provide an initial list of information products or services, and map these to key objectives within the SBAs. In Phase 3 subject matter experts will review these and identify individual earth observing inputs for each product.

Steven M. Lev summarised the work and encouraged SAON to consider how to use the information. Attilio Gambardella explained that the European Commission in June 2017 will start an internal study, building a business case for a pan-arctic observing system. The study will look carefully at the outcomes of the Arctic Observing Framework Workshop . The outcome of this study will be presented at the Second Arctic Science Ministerial and handed over to the main organisations and initiatives such as SAON and INTAROS.

Larry Hinzman concluded that the principle of defining SBAs as a starting point is a new approach, and that the Framework would be the first SAON output from the 2016 Arctic Science Ministerial.

## **7. Reporting on the ASSW session “Progress on the Development of a Pan- Arctic Observing System”**

Peter L. Pulsifer reported from the session. The titles of the presentations were:

- Monitoring arctic ocean climate using satellite altimetry
- Stakeholder engagement in sustained arctic observations: Community-based observations, satellite remote sensing and participatory scenarios focusing on coastal sea ice
- A pan-arctic observations value tree framework
- Outcomes from the 2016 arctic observing summit and progress towards 2018
- Synoptic arctic survey – a pan-arctic ocean research program
- Collaborative development of globally connected data and information systems for arctic observing: Results of the polar connections interoperability workshop
- The US arctic observing network - strategically integrating US efforts
- Monitoring arctic sustainability: Transdisciplinary approaches and methods
- Five years of continuous, real-time coastal ocean observation and community engagement in the Canadian high arctic
- Integrated Arctic observation system development under Horizon 2020 (INTAROS)
- The circumpolar active layer monitoring network (CALM): Long-term observations on the climate-active layer-permafrost system

Some of the key observations that Peter L. Pulsifer had made during the session on designing an observing system were

- Effectively engaging national programs such as US-AON is critical in terms of realizing an integrated international observing system
- Learn from the idea of “quick wins” - small, achievable tasks carried out as part of a long-term strategy
- Must consider more than the physical environment, but also Social Ecological Systems
- Understanding how to make resulting data flow through interoperability is an important part of designing the observing system

## **8. National SAON offices**

Sandy Starkweather (USA) gave an overview of ongoing efforts to establish a US Arctic Observing Network (AON, presentation # 3). The vision (under development) is to establish and support a task-driven US AON to mobilize US contributions towards integrated and well-defined pan-Arctic observing networks that enable access to high quality data, expertise and information in support of scientific understanding, local needs, and agency operations

The first steps in the implementation would involve a series of NOAA-led “quick wins”, including

- Improved observational products for sea ice forecasting;
- Improved cyberinfrastructure for tracking ships and potentially other research infrastructure that might interfere with subsistence use areas;
- Improved biogeochemistry products for fisheries management

Eva Kruemmel asked if there is a role for Indigenous knowledge in the process, and if the US national SAON office has Indigenous representation, for example from ICC Alaska. Sandy Starkweather responded that Carolina Behe from ICC Alaska has been contacted.

Larry Hinzman made reference to the outcome of the external review of SAON, noting that there was an overall recommendation to establish national SAON offices. He encouraged the SAON Board to have a discussion about vision and scope for these organisations.

Jeremy Mathis (USA) emphasized the international component of the office. It is not just looking through the national lenses, but is interested in a broad international vision. It will work with the overall SAON mission in mind.

## 9. Strategic discussion

Prior to the meeting, SAON Board members, networks, and organisations had been asked to formulate their expectations to SAON. 12 countries, 2 Indigenous organisations, 7 networks, and 4 organisations had provided a response. Jan Rene Larsen (SAON Secretary) summarised the responses.

In the discussion, Hannele Savela noted that many of the things mentioned are already organised through the committees.

Rodica Nitu (WMO) saw a major role for SAON in offering a template for national engagement.

Peter Schlosser (ISAC) also saw a need for bringing together and strengthening the national components. He believed that this would be needed in order to respond to messages like those that had come out of the 2016 Arctic Ministerial.

Eva Kruemmel explained about the national SAON committee that had been well functioning in Canada at one point in time. She believes that it does not require a lot of capacity, but a dedicated person who organizes a teleconference every few months and sends regular email updates .

Lars-Otto Reiersen argued that for SAON to develop, national organisation teams were needed. Such teams should also cover the social and economic areas and ensure that the private sector is involved. He also repeated the need for to identify resources for the functioning of the SAON Secretariat.

## 10. SAON Board Retreat

The Board discussed the overall purpose of the Retreat.

Larry D. Hinzman explained that the Executive plans to involve everybody who is interested, and that participants do not have to be someone from the Board. Christine Daae Olseng added that a process will be established for submitting input prior to the meeting, and that there will be room for interactions after the Retreat.

Attilio Gambardella asked the organisers to provide a template or similar for input to the process.

There was an invitation from European Space Agency to host the meeting at the facilities in Frascati, Italy.

- ✓ Action: Decide on time and venue for the Retreat
- ✓ Action: Develop a detailed plan for the Retreat, including a process for interaction before and after the Retreat

## 11. Arctic Observing Summit (AOS) 2018

Peter Schlosser (ISAC) explained that AOS is a SAON Task, mainly executed by ISAC and Arctic Institute of North America (AINA). AOS is a forum for the exchange of knowledge of observing activities. The latest AOSs had solicited white papers, reviewed these and documented the outcome of AOS as published papers in 'Arctic Journal'. There is a progression in the number of participants and the depth of discussion. The Summit has moved from a single event to more of a process.

AOS2018 will be held in Davos Switzerland, 15-26 June 2018. The Executive Committee for the Summit has been established with two co-chairs with Larry Hinzman (SAON) and Peter Schlosser (ISAC). For this AOS, an aspect could be to synthesise past recommendations, and investigate if they have been picked up and implemented. Data and the management of data is recurring as is Indigenous and traditional knowledge.

Additional themes were discussed, including technology, satellites, and remote sensing. System designs and modelling was mentioned, including operation and deployment. It was finally proposed that SBAs and the UN Sustainable Development Goals were addressed.

Christine Daae Olseng noted that technology had been a theme through ASSW, also connecting to underwater technologies. She believed that CON should be the voice for what AOS should be. AOS should be the place where the networks can meet and move forwards.

Attilio Gambardella encouraged AOS to be aware of the 2018 Arctic Science Ministerial and consider input to this.



Hanne Sagen (INTAROS) proposed that AOS should focus on the major initiatives, like YOPP and MOSAIC, together with the EU-Projects.

Larry Hinzman saw two issues in the current organisation. First of all, he was concerned with the lack of credit that SAON and IASC are getting from the AOS. Secondly, he believed that the SAON Board should be more engaged in organising AOS. AOS currently faces economical challenging to secure the meeting facilities. AOS is supposed to be a communication tool of SAON, and the SAON Board should consider what/how SAON wants to use it as such, and what SAON would like to get out of the AOS.

Thorsteinn Gunnarsson (Iceland) informed the meeting that ASSW will be in Iceland in 2020 and that AOS is invited to be a part of this. It will be in Akureyri in March or April.

## **12. SAON chairmanship**

Christine Daae Olseng informed the meeting that she would step down as SAON chair by 1st July 2017. She said that she has enjoyed the work and will continue to be involved in the process until a new chair has been appointed.

Lars-Otto Reiersen responded that it was sad that Christine Daae Olseng would step down. He informed the meeting that according to the SAON Terms of Reference, it is the Arctic Council through AMAP that will appoint the new chair.

## **13. Any Other Business**

Jan Rene Larsen explained that the meeting document on GEO (# 06) is a proposal to the Board for SAON to seek recognition as 'ArcticGEOSS'. The GEO Secretariat has encouraged SAON to announce this decision at the GEO-XIV Plenary, 25-26 October 2017.

## Appendix 1: Agenda

### Morning (9-12:30)

1. Introductions and adoption of agenda [*Christine Daae Olseng, 15 min*]

*[The focus of the meeting will be the strategic development of SAON. In the morning, the Committees are invited to the meeting, and the discussions should focus on their development and how they contribute to the overall strategy of SAON]*

2. SAON Committees

- a. Arctic Data Committee (ADC) [*Peter L. Pulsifer, 30 min*]:

- i. Draft Terms of Reference
- ii. Draft work plan
- iii. Workshop on interoperability, Frascati, November 2016

- b. Committee on Observations and Networks (CON) [*Hannele Savela, 30 min*]:

- i. Draft Terms of Reference
- ii. Draft work plan

*[Questions to the Committees: How should the Committees work with the Board, with each other, and what kind of support is needed? What is difficult for the Committees? What are the challenges?]*

3. INTAROS

*[The SAON contribution to this is mainly meant to be through the Committees. Hanne Sagen / Stein Sandven / Agnieszka B. Möller / Peter Pulsifer, 15 min]*

4. Arctic Science Ministerial: 2016 [*Larry D. Hinzman*], 2018 [*Attilio Gambardella*] [15-20 min]
5. Arctic Workshop of the Transatlantic Ocean Research Alliance [*Attilio Gambardella, 15 min*]
6. Arctic Observing Framework Workshop [*Steven M Lev, 15 min*]

### Afternoon (13:30-16)

*[The discussion in the afternoon will focus on the development of SAON. Agenda items 3-8 are meant to be address this]*

7. Reporting on the ASSW session “Progress on the Development of a Pan- Arctic Observing System” [*Peter L. Pulsifer, 10 min*]
8. National SAON offices [*Sandy Starkweather from the US AON Office. How do we stimulate national coordination between agencies and academia? 15 min*]
9. Strategic discussion
  - a. Strategic Plan (Statements from countries, networks, and organisations, incl. GEO and WMO)
  - b. Funding
  - c. Outreach
10. SAON Board Retreat (Seattle, USA 28-29 June 2017) [*An organising group should established, a facilitator should be identified*] [*Larry D. Hinzman, 15 min*]
11. Arctic Observing Summit 2018 (Davos, Switzerland, June 2018): *AOS is the outreach event of SAON. SAON is not high-lighted enough as organiser. It should be ensured that AOS is recognised as a principal SAON activity. Allen Pope, Eva Kruemmel, Jan Rene Larsen, Larry D. Hinzman, Peter*

*Schlosser, Tetsuo Ohata have a seat in the AOS Executive Committee. How are expectations to AOS formulated within SAON and brought forward?]* [Peter Schlosser, 15 min]

12. SAON Chairmanship

13. Any Other Business

## Appendix 2: List of Participants

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<b>Countries</b>						
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### Appendix 3: List of meeting documents and presentations

Agenda item	Document no	Document title	Document author
1	34	<a href="#">Draft agenda, version 31st March 2017</a>	Executive
	45	<a href="#">List of participants</a>	Secretariat
	11	<a href="#">GoToMeeting dial-in information</a>	Secretariat
	20	<a href="#">Registration instructions</a>	Secretariat
2a	23	<a href="#">Arctic Data Committee (ADC) - draft ToR</a>	ADC
	37	<a href="#">Arctic Data Committee (ADC) - Report of third meeting and draft work plan</a>	ADC
2b	05	Committee on Observations and Networks (CON) - <a href="#">draft ToR</a>	CON
	04	Committee on Observations and Networks (CON) - <a href="#">draft work plan, version 22nd February 2017</a>	CON
3	(link)	<a href="#">INTAROS (web page)</a>	
4	(link)	<a href="#">2016 Arctic Science Ministerial Statement</a>	
5	22	<a href="#">Development of an International Arctic Observations Assessment Framework: Presentation</a>	Steven Lev and Jason Gallo, Science and Technology Policy Institute, Washington DC
	41	<a href="#">International Arctic Observations Assessment Framework: A Workshop Summary (For participants review)</a>	
9	Statements from countries		
	38	<a href="#">Canada</a>	David Mate
	13	<a href="#">Denmark</a>	Helle Poulsen
	42	<a href="#">France</a>	Marie-Noelle Houssais
	12	<a href="#">Germany</a>	Nicole Biebow
	26	<a href="#">Iceland</a>	Thorsteinn Gunnarsson
	18	<a href="#">Italy</a>	Vito Vitale
	16	<a href="#">Japan</a>	Tetsuo Ohata
	09	<a href="#">Norway</a>	Birgit Njåstad
	21	<a href="#">Russian Federation</a>	Igor Ashik
	47	<a href="#">Spain</a>	Óscar Bermúdez Molina
	08	<a href="#">Sweden</a>	Ulf Jonsell
	44	<a href="#">USA</a>	Jeremy Mathis
	Statements from Arctic Council Permanent Participants (Indigenous organisations)		
43	<a href="#">Inuit Circumpolar Council (ICC)</a>	Eva Krüemmel	

24	<a href="#">Saami Council</a>	Saami Council
Statements from networks		
36	<a href="#">International Arctic Systems for Observing the Atmosphere (IASOA)</a>	Taneil Uttal
39	<a href="#">International Study of Arctic Change (ISAC)</a>	Maribeth Murray
25	<a href="#">The Circumpolar Health Observatory (CircHOB)</a>	Kue Young
19	<a href="#">International Network for Terrestrial Research and Monitoring in the Arctic (INTERACT)</a>	Margareta Johansson
27	<a href="#">International Permafrost Association / Global Terrestrial Network for Permafrost (IPA / GTN-P)</a>	Sarah Marie Strand, Hanne H. Christiansen, Vladimir E. Romanovsky
32	<a href="#">Pan-Eurasian Experiment (PEEX)</a>	Hanna K. Lappalainen
31	<a href="#">Svalbard Integrated Arctic Earth Observing System (SIOS)</a>	Ole Jørgen Lønne
Statements from organisations		
46	<a href="#">European Commission</a>	Attilio Gambardella
40	<a href="#">European Environment Agency (EEA)</a>	Nikolaj Bock
06	<a href="#">Group on Earth Observations (GEO)</a>	Jan Rene Larsen and Barbara Ryan
29	<a href="#">World Meteorological Organisation (WMO)</a>	Rodic Nitu
Strategy related documents		
35	<a href="#">Current SAON Mission, Vision and Goals</a>	
(link)	<a href="#">SCAR strategic plan</a>	
14	<a href="#">Proposal for funding of Secretariat</a>	
15	<a href="#">Proposal for outreach strategy</a>	
(link)	<a href="#">External review of SAON (summary)</a> <a href="#">External review of SAON (full report)</a>	External review group
11	(link) <a href="#">2018 Arctic Observing Summit (web page)</a>	

## Presentations

No	Author	Title
1	Hannele Savela	<a href="#">SAON Committee on Observations and Networks (SAON CON)</a>
2	Peter L. Pulsifer	<a href="#">Update on Activities and Workplan of the ADC</a>
3	Sandy Starkweather	<a href="#">The US Arctic Observing Network Office - A first follower?</a>
4	Stein Sandven	<a href="#">INTAROS – Integrated Arctic Observation System</a>

The documents and presentations can be found at <http://www.arcticobserving.org/12-board-meetings/236-saon-board-meeting-prague-7th-april-2017>

## Appendix 4: Actions

Action No	Action	Who	When
1	ADC to detail the work plan as an input to the Retreat	ADC	1 <sup>st</sup> June 2017
2	CON to add follow-up work to the 'Arctic Observing Framework Workshop' to the Committee work plan	CON	1 <sup>st</sup> June 2017
3	Develop a detailed plan on the cooperation between INTAROS and SAON	Executive	1 <sup>st</sup> May 2017
4	Decide on time and venue for the Retreat	Executive	1 <sup>st</sup> May 2017
5	Develop a detailed plan for the Retreat, including a process for interaction before and after the Retreat	Executive	1 <sup>st</sup> May 2017