

AOS WG2 session

Co-chairs:

- Jari Haapala
- Lennart Gerke
- Machiel Lamers
- Toste Tanhua

Background readings:

- Arctic Observations Framework: STPI-SAON-International-Arctic-Observations-Framework-Report-2017.pdf (arcticobserving.org)
- UNDOS Arctic Plan: <https://www.oceandecade.dk/decade-actions/arctic-action-plan>
- Bradley, A., Eicken, H., Lee, O., Gebruk, A., Pirazzini, R. 2021. Shared Arctic Variable framework to link global and Arctic regional and local observing system priorities and requirements. Available via Williams College, 18 Hoxsey St., Williamstown, MA 01267 USA at <https://drive.google.com/file/d/1bb-TgjT8-3b0ZhFLIBBndh951hQJQOTE/view?usp=sharing>

	Speaker	Title/Question	Status
<u>Day 1 (30th March)</u>			
Theme: The UNDOS process			
Chair (all day, except where noted): Toste Tanhua			
<u>Session 14-15:30</u>	Vladimir Ryabinin (IOC) <i>Time: 14:00 – 14:15</i>	Overview of Ocean Decade and the role of ocean observing in the decade	Recorded presentation
	Molly McCammon (AOOS) <i>Time: 14:15 – 14:30</i>	How do we bring the outcome of the Arctic Plan UNDOS discussion (28th March) into recommendations for AOS	Confirmed, remotely
	Doug Cripe (GEO Secretariat) <i>Time: 14:30 – 14:45</i>	Short Statement (28): “GEO Knowledge Hub”	Confirmed
	Carlo Buontempo (C3S) <i>Time: 14:45 – 15:00</i>	What are the key elements of the C3S program on the arctic and what are the plans for the future to ensure a better coverage of the Arctic region, including on high-resolution reanalysis and on prediction.	Confirmed, remotely

	<p>Carl Gouldmann (NOAA, GRA chair)</p> <p><i>Time: 15:00 – 15:15</i></p>	Regional aspects of GOOS	Confirmed, remotely
	<p><i>Time: 15:15 – 15:30</i></p>	Discussion	
<p><u>Session 16-17 with WG1 (Food Security)</u></p> <p>WG2 chair: Toste Tanhua</p> <p>WG1 chair: Margaret Rudolf</p>		<p>Question: Requirements for observations to support food security (coastal or marine foci?). From a user perspective? In the light of the UNDOS process? What do we want from the decade?</p> <p>Draft agenda for WG1 and WG2 cross session:</p> <p>2 mins Welcome everyone, give Slido interactive poll details (one of the co-chairs?)</p> <p>5 mins Provide context for group conversation from WG2 (WG2 Co-chairs)</p> <p>Focus/question: What are requirements for observations to support food security (coastal or marine foci) from a user perspective? In the light of the UNDOS process?</p> <p>5 mins Provide context for group conversation from WG1 (WG1 Co-chairs)</p> <p>Focus/question: Checking the process: How are Indigenous and local communities in the Arctic being included in distinguishing essential and shared variables utilized by large Arctic observing networks? (e.g., Shared Arctic Variables, Essential Variables, Essential Climate Variables)</p>	

		<p>38 mins Group discussion</p> <p>8 mins Review key points of discussion</p> <p>2 mins Review Slido poll/quiz results</p>	
<p><u>Session</u> <u>17:00-18:00 with</u> <u>WG5</u> (Utility and Benefits)</p> <p>WG2 Chair: Machiel Lamers</p> <p>WG5 chairs: Maribeth Murray</p>		<p>Question(s):</p> <p>What are the best links to stakeholders from the observing system? How can we evaluate the benefit and fitness-for-purpose of the AOS?</p> <p>Value chains in connecting observations with user value? How do observations turn into data, transform to information and, in turn, into knowledge? Depending on where users find themselves across the value chain they attach different value to data/information/knowledge (Jelmer)</p> <p>How we can ensure the open and free access of stakeholders and users to the observations to shape the societal relevance and benefits?</p>	
<u>Session 18 – 18:30</u>		Wrap-up session	
<u>Session 18:30 – 19:30</u>		Executive Committee and chairs session	
<u>Session 20-22</u> (remotely)		<p>Regional presentations, including a panel (including review short statements).</p> <p>Questions: New developments at the regional level in terms of Arctic observing systems. Exploring opportunities for integration between the regional developments within the global system. Scope, funding, future outlook.</p>	-

		The sequence of presentations is subject to change	
	Craig Lee (USA) <i>Time: 20:00 – 20:10</i>	A conceptual framework of SAON ROADS and some specific developments in the marine sector	Confirmed
	Stein Sandven <i>Time: 20:10 – 20:20</i>	INTAROS	Confirmed
	Inga Lips <i>Time: 20:20 – 20:30</i>	Regional and global cooperation for the in-situ Observing System in the Arctic - A EuroGOOS vision	Confirmed
	Tero Mustonen <i>Time: 20:30 – 20:40</i>	Arctic PASSION Brief introduction on their Pilot Services which are under development, as many of them have regional aspects	Confirmed
	Sandy Starkweather (USA) <i>Time: 20:40 – 20:50</i>	The SAON ROADS process	Confirmed
	Verónica Willmott (ARICE)	Short Statement (4): “The critical role of a coordinated polar research vessel fleet in the Arctic Observing System”	Confirmed

	<i>Time: 20:50 – 21:00</i>		
Igor Polyakov	<i>Time: 21:00 – 21:10</i>	Nansen Amundsen Observing System (NABOS)	Confirmed
Bill Manley (USA)	<i>Time: 21:10 – 21:20</i>	Short Statement (16): “Optimizing Polar Observing with Asset-Level Metadata Interoperability Across Networks”	Confirmed
Alice Bradley (USA)	<i>Time: 21:20 – 21:30</i>	Short Statement (20): “Mapping the organizations involved in Arctic Observing”	Confirmed
Hiroyuki Enomoto (NIPR, Japan)	<i>Time: 21:30 – 21:40</i>	Asian/Japan point of view on developments at the regional level in Arctic Observing systems	Confirmed
Q&A session	<i>Time: 21:40 – 22:00</i>	How to streamline and be more efficient among actors? Efficiency, inclusivity	

	Speaker	Title/Question	Status: Invited/Contacted/Accepted
<p><u>Day 2 (31st March)</u></p> <p>Theme: Better coordination of defining and managing requirements for Arctic observations. Questions: Who does it and how? (Requirements, ROADS process, ECVs/SAVs)</p> <p>SAVs in the context of the global observing system: links and lessons learned from EOVs, ECVs, and the WMO observing requirements</p> <p>Chair (all day, except where noted): Jari Haapala</p>			
<p><u>Session</u> <u>14-15:30</u></p> <p>The process for formulating requirements and link to global processes.</p>	<p>Alice Bradley (USA) <i>Time: 14:00 – 14:15</i></p>	<p>The concept of SAVs</p> <p>Pre-read: Bradley, A., Eicken, H., Lee, O., Gebruk, A., Pirazzini, R. 2021. Shared Arctic Variable framework to link global and Arctic regional and local observing system priorities and requirements. Available via Williams College, 18 Hoxsey St., Williamstown, MA 01267 USA at https://drive.google.com/file/d/1bb-TgjT8-3b0ZhFLIBBndh951hQJQOTE/view?usp=sharing</p>	Confirmed
	<p>Diego Fernandez (ESA) <i>Time: 14:15 – 14:30</i></p>	The ESA Polar Science Cluster	Confirmed, remotely
	<p>Thomas Lavergne <i>Time: 14:30 – 14:45</i></p>	Short Statement (14): “On Essential and Shared Variables”	Confirmed
	<p>Artur Palacz <i>Time: 14:45 – 15:00</i></p>	EOV Framework	Confirmed, remotely

	Ilkka Matero <i>Time: 15:00 – 15:15</i>	Short Statement (22): “Sea ice as a proposed theme to define a Shared Arctic Variable based on as part of Arctic PASSION” Link to Arctic PASSION service description: https://arcticpassion.eu/wp4/ps6	Confirmed
	Panel discussion <i>Time: 15:15 – 15:30</i>		
<u>Session 16-17</u> with WG4 (System Integration (SAON ROADS)) WG4 chair: Alice Bradley		Question: What are the synergies between SAVs, EOVS, ECVs? WG4 Question(s): What can we learn from the EOVS and ECV processes in terms of what worked well in the way to reach a useful result in the end? To make the process more effective (Michael Karcher) Spend 20 min on each of the following questions: 1. What synergies exist between SAVs (that could be proposed) and existing EV structures (e.g., ECV, EOVS)? 2. How can SAVs most efficiently complement other EV systems without repeating work? 3. What can lessons learned from EV systems tell us about SAVs?	
<u>Session 17-18</u> with WG6 (Capacity sharing)		0:00-0:05 Introduction + Purpose of the Capacity Sharing Working Group (WG 6)	

<p>WG6 chair: Lisa Grosfeld</p>		<p>0:05-0:10 Introduction + Purpose of the Regional to Global Observing Working Group (WG2) - "regional to global" aspects of capacity sharing</p> <p>0:10-0:20 What we'd like to accomplish in this discussion (WG 6)</p> <ol style="list-style-type: none"> 1. Discuss the meaning and importance of the concept of capacity—from your own perspective—as it relates to research and monitoring in a Northern context; 2. Identify gaps in our understanding and knowledge about the capacity needs of northern collaborators/rightsholders, end users and other stakeholders; and, 3. Identify challenges and barriers that may be impeding effective capacity sharing. <p>0:20-0:50 Exploring key questions 'around the room'</p> <p>How would you define capacity?</p> <p>What kinds of capacity do you think Arctic communities and external/"western" researchers need?</p> <p>How does one come to know what these needs are?</p> <p>Based on your understanding of what is needed, can you identify ways you and/or your work could contribute address these areas through capacity sharing?</p>	
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		<p>What do you think are the main challenges or barriers to capacity sharing?</p> <p>0:50-1:00 Wrap Up</p>	
<u>Session 18-18:30</u>	<p>Discussions/Panel/Brain-storming</p> <p>Including Slido</p>	Wrap-up session	
<u>Session 18:30 – 19:30</u>		Executive Committee and chairs session	
<u>Session 21:30-23:30</u>	<p>Discussions on topics presented day 1 and 2.</p> <p>Prepare first draft of synthesis to be presented in plenary on day 3.</p>		

	Speaker	Title/Question	Status: Invited/Contacted/Accepted
<p><u>Day 3 (1st April)</u></p> <p>Theme: Synthesis</p> <p>Chair: Machiel Lamers</p>			
9:30-10:30 BS: Summary of discussions. Writing synthesis		Refine recommendations	
<p><u>Session 11-12 with WG3 (Data sharing)</u></p> <p>WG2 Chair: Toste Tanhua</p> <p>WG3 chair: Peter Pulsifer</p>		<p>1. Brief introduction (5 minutes), focusing on lessons learned from GBIF and WMO and the building a whole from pieces (Ø. Godøy) <i>Coordinated observation efforts rely on harmonisation of data encoding as well as observation practises. Within the complex Arctic Observing System, standardised approaches for different observing capacities need to be identified along with mechanisms for conveying quality, attribution and provenance information. Approaches within the Arctic context should reuse or relate to existing global frameworks. Ways forward to establish coordinated observing capacities across communities should be discussed.</i></p> <p>2. A 5 minute presentation on the OCG data mapping exercise (T. Tanhua) <i>The goal of the OCG data mapping is to continue improving compliance with FAIR data principles for all of the ocean observing networks, to maximize discovery, exchange and use of OCG network data for near-real time as well as delayed mode data and other data products. It also aims to identify gaps and where enhancements can most improve data flows. A goal is higher compliance with FAIR principles which will ensure OCG data is embedded in future data workflows.</i></p>	

		<p>3. Questions for discussion:</p> <p><i>How the polar data community can enhance connections to global initiatives such as RDA, CoData, DataONE, GEO, IODE etc.?</i></p> <p><i>For the observing systems to have value, data flows should be established. Data should be available. FAIR principles, and implementation of those could be a topic. How can this be achieved in the future?</i></p>	
12-13		Finalise recommendations	
14-15:30		WG reports, meeting conclusion	