

Plans for WG3 sessions

Co-chairs:

- Amber Budden
- Øystein Godøy
- Kristina Miller
- Peter Pulsifer
- Stein Tronstad
- Chantelle Verhey

Background readings:

- See list of background documents at: <https://arcticdc.org/meetings/conferences/polar-data-architecture-workshop>
- Polar data policy alignment <https://zenodo.org/record/5734900#.Yj9kXDfMJ24>
- https://arcticdc.org/images/download/PDSAW_preliminary_report_Draft_15Dec2018.pdf

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	Agenda Item	Speaker(s)	Title/Question	Status: Invited/Contacted/Accepted
Day 1 (30th March)				
Session 1 14:00 -15:30 "Sharing and Listening"	Session Description	Lead(s): Peter Pulsifer (Virtual), Shannon Christoffersen (in-person) Estimated Participants: 40 Breakouts? (No) Description: This session will be used to introduce participants to the Arctic Observing Summit Working Group 3 (Data Sharing) and 'break the ice'. The objective of the session is to collectively discuss and better understand current issues, priorities, challenges, and opportunities related to sharing arctic data. The session will begin with a brief presentation that provides an overview of the 2020 Arctic Observing summit and subsequent community activities. There will be an open session for "lightning talks" (3-5 minutes) on data projects, programs and initiatives, followed by an introduction to the AOS Working Group 3 breakout session program for 2022. The session will conclude with a dedicated listening session where participants can share their thoughts on data sharing issues, priorities, challenges and opportunities.		
	Lightning Talks (5 mins each)	Chantelle Verhey	Federated search across polar data catalogues	Accepted, in-person
		David Arthurs, Polar View	Polar View Activities	Accepted, In-person
		David Hik, Polar Knowledge Canada	Arctic Data Standards Activity	Accepted, In-person

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	Peter Pulsifer, Carleton University	Mapping the Polar Data Ecosystem initiative	Accepted, Virtual
	Ekaterina Kim	AIDingArctic	Accepted, Virtual
	Willaim Manley, Univ. of Colorado	Polar Observing Assets Working Group	Accepted, Virtual
	Yubao Qiu, GEO	GEOCRI follow-on initiative	Accepted, Virtual
	Øystein Godøy	Arctic PASSION, Global Cryosphere Watch	Accepted, In-person
	Shannon Vossepoel	CCADI	Accepted, In-person
	James Badger	CCADI data service chaining	Accepted, Virtual
	Stein Tronstad	Data policy	Accepted, In-person
	Matt Jones	NSF Arctic Data Center and related activities	Accepted, Virtual
<u>Joint Session w/ WG 4</u> <u>16:00 - 17:00</u> SAON ROADS	WG3 chair: Amber (Virtually) & Chantelle (In-person)		
	WG4 chair:		
Questions:	- How do data sharing/organization systems get integrated into SAV definitions from the beginning?		

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		<ul style="list-style-type: none"> - What standards or policies are easier to organize up front versus make work with the observations? 		
<p><u>Joint Session w/ WG 1</u> <u>17:00 - 18:00</u> Food Security</p>	WG3 Chair: Peter (Virtually) WG1 Chair: Kaare Sikuaq Erickson (in person/ virtual?) Session Aims: 1. Foster progress towards sustained societal benefits of Arctic observing on a local level in the Arctic. 2. Ask questions that the people in attendance can answer in the space and time of the discussion. 3. Make goals that are clearly defined and attainable.			
	Introductions (5 min each)	WG1: Kaare	Brief introduction of session topic from WG1 perspective	Accepted?, virtual/in person?
		WG3: Peter Pulsifer	Brief introduction of session topic from WG3 perspective	Accepted?, virtual
	Presentation (5 minutes each)	Vanessa Raymond	Categorization is Political (short statement 31)	Accepted?, virtual/in person?
		Victoria B(?)	SIKU app example	Accepted?, virtual/in person?
	Questions/discussion: (35 minutes)	<ul style="list-style-type: none"> - Discuss data sharing and local societal benefits. - What are issues regarding Indigenous data sovereignty and open science? 		
<p><u>Virtual Breakout</u> <u>20:00 - 22:00</u></p>	<p>Lead(s): Chantelle Verhey (in-person), Amber Budden (virtual) Estimated Participants: N/A (Online Only)</p>			

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Federated Search	Session Description		Description: This session will start with a 1 hr session for the PPFS review/status/ presentations and then will flow into more granular data interoperability. The POLDER WG is launching their production Federated Search in this session that uses schema.org mark-up to expose various repositories metadata in a single user interface. The first hour will include presentations from federated searches highlighting challenges, success stories, requirements to be included in the federated search, and discussion of its current state/ how to move forward. The second half of this session will include discussion for ways forward on harmonization of data, and data documentation to ensure efficient reuse of data across communities. The goal of this session is to include community input in a 2 year plan for the future of federated search and data interoperability.	
	Intro/Welcomes (5 minutes)	Chantelle/Amber	Welcome & Intro	
	Presentations (10 minutes each)	Matt Jones	DataONE	Accepted, Virtually
		Chantelle Verhey	POLDER PPFS	Accepted, In-person
		Melinda Minch	Polar Federated Search Launch Party	Accepted, Virtually
	Zoom breakout (10 minutes) & Discussion (30 minutes)		POLDER federated search breakouts	
			Jamboard - Platform feedback/ Future directions	
	Presentations (10 minutes each)	Rebekah Ingram	CCADI Semantic Harmonization (5-10 minutes)	Accepted, In-person
		Øystein Godoy	Data Granularity	invited
Discussion (30 minutes)/ Wrap-up		Data Interoperability and harmonization <ul style="list-style-type: none"> ○ Granularity of metadata records 		

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		<ul style="list-style-type: none"> ○ Ways forward on harmonization of data documentation to ensure efficient reuse of data across communities ○ Containers, semantics, etc necessary to achieve the “whole is more than the sum of parts” (Aristotle) 		
Day 2 (31st March)				
<u>Breakout Session 3 - 14:00 - 15:30 CEST</u> Data Ethics	Session Description	<p>Lead(s): Kristina Miller (in-person), Natasha Haycock-Chavez (in-person) - 1.5 hrs (0.5 hr intro speaker + 1 hr breakout discussions)</p> <p>Estimated Participants: 15-20 (virtual participation might increase this to 30)</p> <p>Description: The importance of ethical data collection and management practices was highlighted in the 2020 Arctic Observing Summit. Building on the previous discussions, in this session we will discuss the breadth of ethical data as it extends beyond methods of data collection and into practices of data co-production, data analysis and interpretation, and data dissemination. In this interactive, discussion-driven session, we will ask participants to 1) brainstorm and share how they approach ethical data methodologies and 2) what knowledge gaps exist in their approaches. The goal of the session is to create a package of resources that informs scientists and researchers in all sectors and at all career stages to approach data collection, interpretation, and dissemination ethically.</p>		
	Resources	Will create a list of resources during session		
	Intro/Welcomes (5 minutes)	Kristina/Tash	Welcome & Intro	
	Presentation (25 minutes)	Shannon Christoffersen	Data Ethics	Accepted, In-person
	Discussions		1) How do you/your organization approach ethical data methodologies in your work?	

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		<p>2) What knowledge gaps exist in your/your organization’s approach to ethical data practices (collection through to dissemination)?</p> <p>3) What resources do you use/find useful/wish you had to help with ethical data collection and dissemination?</p>		
<p>Breakout Session 4 - 16:00 - 17:00 CEST</p> <p>Data Policy</p>	Session Description	<p>Lead(s): Stein Tronstad (in-person)</p> <p>Estimated In-person Attendance: 20, max. 30; (No to breakout within a breakout)</p> <p>Description: In this session we will explore recent developments in global and polar data policies and their impact on data sharing, collaboration, and environmental monitoring in the polar regions. Emphasis will be given to the different policy requirements for scientific data and environmental monitoring data. While near real time or short term data access is often crucial for monitoring and management, the scientific process tends to involve privileged data access for a longer period of time. Where indigenous datasets are involved, questions relating to data sovereignty (the CARE principles) also come into play. A key question is how data policies should be adapted in order to maximize the data availability for management and monitoring while observing the legitimate interests of scientific and indigenous communities.</p>		
	Intro/Welcome (5 minutes)	Oystein/Stein	Welcome & Intro	
	Presentation (15 minutes)	Lars Peter Riishøjgaard - WIGOS	The WMO Data Policy and its links with the Arctic data community	Accepted (virtual?)
	Presentation (10 minutes)	Stein Tronstad	Alignment of polar data policies; recent new policies and their bearing on observational data	Accepted, in-person
	Discussion (30 minutes)		Questions for the session	

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		<ul style="list-style-type: none"> • How should international data policies be adapted in order to maximize the data availability for management and monitoring while observing the legitimate interests of scientific and indigenous communities? • Do the current and emerging policies stipulate requirements that could impede the timely access to important observations?
<u>Joint Session w/ WG 5</u> <u>17:00 - 18:00</u> Utility & Benefits	WG3 Chair: Kristina Miller (In-person) WG5 Chair: Doug Craig(?)/Ravi Sankar?	
	Questions:	How are data used for the benefit of Indigenous People?
<u>Virtual Breakout</u> <u>21:30 - 23:00</u> Open Science Education: Best Practices, Data Sovereignty and Co-production	Session Description	
	<p>Leads: Amber Budden, Noor Johnson, Andy Barrett, Matt Jones (all virtual) Estimated in-person attendance: N/A (online only); (Possible zoom breakouts)</p> <p>Description: This session will discuss the needs of the Arctic research community for Open Science Education. In the first part of the session we provide an overview of a workshop given as part of ASSW earlier in the week, including information on curriculum development and resultant resources. During the second part, the community will be invited to share experiences and perspectives around open science education, share community accessible resources and identify current gaps and opportunities for future development. Collectively we will explore ways to best support educators and users of open science deliverables in the Arctic. We welcome interested participants to contact the organizers in advance (aebudden@nceas.ucsb.edu) if they would like to share information on their initiatives as a brief presentation within the session.</p>	
Intro/Welcomes (5 minutes)	Amber	Welcome & Intro

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	Report	Amber?	Report out from ASSW Wksp <ul style="list-style-type: none"> ● Process of curriculum development ● Curriculum and resources available ● Outcome of wksp 	Accepted, virtual
	Discussion		The need for open science learning <ul style="list-style-type: none"> ● Status of existing opportunities ● Needs for open science education ● Format / means of transmission 	
Day 3 (1 April)				
Joint Session w/ WG 6 9:30 - 10:30 Utility & Benefits	WG6 chair: TBD (virtual)			
	WG3 chair: Chantelle Verhey (in-person), Kristina Miller (in-person)			
	Presentations (5 minutes each)	Lisa Grosefield	Introduction + Purpose of the Capacity Sharing Working Group (WG 6)	Accepted (in-person/virtual?)
		Chantelle Verhey	Introduction + Purpose of the Data Sharing Working Group (WG3)	Accepted, In-person
	Discussion (10 minutes)	WG6	<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/rights holders, end users and other stakeholders; and, 3. Identify challenges and barriers that may be impeding effective capacity sharing. 	
Questions:		<ul style="list-style-type: none"> - How would you define capacity? - What kinds of capacity do you think Arctic communities and external/"western" researchers need? - How does one come to know what these needs are? 		

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			<ul style="list-style-type: none"> - Based on your understanding of what is needed, can you identify ways you and/or your work could address these areas through capacity sharing? - What do you think are the main challenges or barriers to capacity sharing?
<u>Joint Session w/ WG 2</u> <u>17:00 - 18:00</u> Utility & Benefits	WG2 Chair: T. Tanhua? WG3 Chair: Øystein Godøy (in-person)		
	Brief introduction (5 minutes)	Ø. Godøy	Focusing on lessons learned from GBIF and WMO and the building a whole from pieces 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.
	The OCG data mapping exercise (5 minutes)	T. Tanhua	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.

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	<p>Questions:</p>	<ul style="list-style-type: none"> - How can the polar data community enhance connections to global initiatives such as RDA, CoData, DataONE, WMO, GEO, IODE etc.? - 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?
<p><u>Breakout Session 5 - 12:00 - 1:00 CEST</u> Reporting Session</p>	<p>Session Description</p>	<p>Lead(s): All Co-chairs Description: Report development</p>