

## AOS WG5 Sessions

### Co-chairs:

- Maribeth Murray, AINA
- Ravi Sankar, Longwood University/AINA
- Srdjan Dobrocic, European Commission

### Early Career Co-Chair:

- Anna Pekisanova, University of Calgary

### Participants:

- Luci Isaacson, Climate Vision
- Pooja Mahapatra, FUGRO
- Douglas Cripe, GEO
- Henry Penn, INTERACT
- Doug Mengedoht, INTERACT
- Hermen Westerbeeke, The DARIA Group
- Karen Boniface, European Commission
- Talia Wells, AINA

### Background Readings:

1. Dobricic S, Monforti Ferrario F, Pozzoli L, Wilson J, Gambardella A, Tilche A. 2018. Impact Assessment Study on Societal Benefits of Arctic Observing Systems. European Commission. doi:10.2760/713084.  
<https://op.europa.eu/en/publication-detail/-/publication/1196aad5-d737-11e8-9424-01aa75ed71a1/language-en>
2. Starkweather et al. (2022). Equity and Shared Benefit – Revisiting the Concepts and Practices of the International Arctic Observing Assessment Framework [https://arcticobservingsummit.org/wp-content/uploads/2022/02/2022\\_027\\_Starkweather.pdf](https://arcticobservingsummit.org/wp-content/uploads/2022/02/2022_027_Starkweather.pdf)
3. 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-Tgjt8-3b0ZhFLlBBndh951hQJQQTE/view?usp=sharing>

4. Isaacson, L. (2021) Property Flood Resilience Climate Champions 2021 Defra Property Flood Resilience SW Pathfinder - Cornwall Council, Devon County Council, Plymouth City Council, Torbay Council, and the Council of the Isles of Scilly  
<https://climatevision.co.uk/wp-content/uploads/2022/02/CV-PFR-Climate-Champions771low.pdf>
5. Boniface, K., Gioia, C., Pozzoli, L., Diehl, T., Dobricic, S., Fortuny Guasch, J., Van Wimersma Greidanus, H., Kliment, T., Kucera, J., Janssens-Maenhout, G., Soille, P., Strobl, P. and Wilson, J. 2020. Europe's Space capabilities for the benefit of the Arctic, Publications Office of the European Union, doi:10.2760/641049.  
<https://op.europa.eu/en/publication-detail/-/publication/c142e208-b9b0-11ea-811c-01aa75ed71a1/language-en>

	Speaker	Title/Question	Status: In-person/Virtual
<b><u>Day 1 (30th March)</u></b>			
<b><u>Breakout Session 1</u></b>  <b><u>14:00-15:30pm</u></b>	WG Co-Chairs	Framing Utility and Benefits	In-person
		Presentation of Short Statements	In-person
	Anna Pekisanova (University of Calgary)	Short Statement (9): State-of-practice for synthesizing climate modelling data and risk-based estimation of geotechnical properties: a literature review	Virtual
	Dr. Henry Penn and Dirk Mengedoht  (INTERACT)	INTERACT: Activities and Community Engagement at Kluane Lake Research Station, Yukon, Canada & AWIPEV Arctic Research Base, Svalbard, Norway	Hybrid
	Luci Isaacson (Climate Vision)	“Engagement to Action: The What, How and Why”  Empowering people with the skills, tools and knowledge to better support communities to manage and adapt to future flooding and climate change.	Virtual
<b>DISCUSSION</b>			

<p><u>Cross-Cutting Session w/ WG 6 (Capacity Sharing)</u></p> <p><u>16:00-17:00pm</u></p> <p>WG5 Chair: Harry Penn</p> <p>WG6 Chair: Sandy Starkweather</p>	<p>0:00-0:05 Introduction + Purpose of the Capacity Sharing Working Group (WG 6)</p> <p>0:05-0:10 Introduction + Purpose of the Utility &amp; Benefits Working Group (WG5 co-chairs?)</p> <p>0:10-0:20 What we'd like to accomplish in this discussion (WG 6)</p> <ul style="list-style-type: none"> <li>● 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;</li> <li>● Identify gaps in our understanding and knowledge about the capacity needs of northern collaborators/rights holders, end users and other stakeholders; and,</li> <li>● Identify challenges and barriers that may be impeding effective capacity sharing.</li> </ul> <p>0:20-0:50 Exploring key questions ‘around the room’ (Virtual Moderator, In Person Moderator)</p> <ul style="list-style-type: none"> <li>● How would you define capacity?</li> <li>● What kinds of capacity do you think Arctic communities and external researchers need?</li> <li>● How does one come to know what these needs are?</li> <li>● Based on your understanding of what is needed, can you identify ways you and/or your work could address these areas through capacity sharing?</li> <li>● What do you think are the main challenges or barriers to capacity sharing?</li> <li>● How capacity sharing can be increased coming from community engagement to take part in the definition of shared arctic variables? – in reference to the White Paper on Essential and Shared Variables (WG2 / WG4 Lavergne, T. and Kern, S.).</li> <li>● If and how the Arctic Observation community can make headline reference to how GHG emissions are accelerating observations made (where possible)?</li> </ul> <p>0:50-1:00 Wrap Up (Virtual and In-Room Moderator)</p>	
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<p><u>Cross-Cutting Session w/ WG 2 (Regional to Global)</u></p> <p><u>16:00-17:00pm</u></p> <p>WG5 Chairs: Srdjan Dobricic &amp; Douglas Cripe</p> <p>WG2 Chair: Machiel Lamers</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 can we ensure the open and free access of stakeholders and users to the observations to shape the societal relevance and benefits?</p> <p>If and how the Arctic Observation community can make headline reference to how GHG emissions are accelerating observations made (where possible)?</p>	
<p><u>Breakout Session 2</u></p> <p><u>20:00 - 22:00pm</u></p>	<p>Recording of Breakout Session 1</p> <hr/> <p>Online Discussion(s):</p>	

	Speaker	Title/Activity/Questions	Status: In-person or Virtual
<b>Day 2 (31st March)</b>			
<u>Breakout Session 1</u>  <u>14:00 - 15:30pm</u>  <u>Co-chairs: Maribeth Murray, Ravi Sankar (virtual) and Srdan Dobricic</u>	Co-Chairs	Summary of Day 1	In-person
	Dr. Pooja Mahapatra (FUGRO)	White Paper: "Geo-data for risk management in a changing Arctic"	Virtual
	Dr. Douglas Cripe (GEO)	"GEO and Cloud Service Providers"	
	Poster Authors	WG5 Poster Presentations	TBD
<b>DISCUSSION</b>			
Begin to draft recommendations document; canvas session attendees (Final 10 minutes)			

<p><u>Cross-Cutting Session w/ WG 1 (Food Security)</u></p> <p><u>16:00 - 17:00pm</u></p> <p>WG 5 Chair: Harry Penn</p>	<p>Question(s):</p> <p>The relevancy of food security to their region, and alternative words used for the concept</p> <p>How do Arctic observing networks inform policy that further impact food security of local and Indigenous communities in theArctic?</p> <p>Are current procedures in place to assure all voices are heard in current benefit assessment processes in observing networks?</p> <p>What needs to be done to move forward?</p> <p>If and how the Arctic Observation community can make headline reference to how GHG emissions are accelerating observations made (where possible)?</p> <p>How does technology play a role in enhancing food security in northern and Arctic regions? For example, how can technology increase food production or access to local produced food?</p>		
<p><u>Cross-Cutting Session w/ WG 3 (Data Sharing)</u></p> <p><u>17:00 - 18: 00pm</u></p> <p>Co-Chairs: Anna Pekisanova &amp; Karen Boniface</p>	<p>Douglas Cripe (GEO)</p>	<p>“GEO Knowledge Hub”</p>	
	<p>Question(s):</p> <p>If and how the Arctic Observation community can make headline reference to how GHG emissions are accelerating observations made (where possible)?</p> <p>How could increased Copernicus Marine Service training benefit local communities? How to extend the use of Copernicus data and involve further Indigenous People ? (currently more designed toward researchers and policy makers).</p>		

<u>Breakout Session 2</u> <u>(Online Only)</u>  <u>21:30-23:30pm</u>	<p><b>*VIRTUAL WRITING TIME*</b></p> <p>ECCCs should use this time to begin writing up the first two days' proceedings and begin to draft recommendations.</p>	
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	Speaker	Title/Question	Status: In-person/Virtual
<b><u>Day 3 (1st April)</u></b>			



<p><u>Breakout Session 1</u></p> <p><u>9:30 - 10:30am</u></p> <p><u>Co-chairs: Maribeth Murray, Ravi Sankar (virtual) and Srdan Dobricic</u></p>	<p>i. Summary of previous day and recommendations that have been assembled thus far (10 minutes)</p> <p>ii. Begin summarizing to facilitate recommendations</p> <p>lii. What kinds of activities WG 5 should engage in between the end of this AOS and AOS 2023.</p> <ul style="list-style-type: none"> <li>- Formalized meetings in between summits</li> <li>- What type of interim activities?</li> <li>- Grow the list of contacts/networks</li> <li>- Hold a side meeting at ASSW 2023?</li> <li>- Action items for the WG that could be worked on in the coming 24 months.</li> </ul>	
<p><u>Cross-Cutting Session w/ WG4 (System Integration)</u></p> <p><u>11:00am - 12:00pm</u></p> <p>WG 5 Chairs: Pooja Mahapatra &amp; Talia Wells</p> <p>WG4 Chair:</p>	<p>Question(s):</p> <p>Can use cases or identified information needs help us work backwards toward SAV definitions?</p> <p>How do societal benefits of SAVs get documented?</p> <p>If and how the Arctic Observation community can make headline reference to how GHG emissions are accelerating observations made (where possible)?</p> <p>PLEASE READ THROUGH THE SAON/ROADS Background Docs/Short Statements for inspiration.</p>	
<p><u>Breakout Session 2</u></p> <p><u>12:00 - 13:00pm</u></p> <p><u>Co-chairs: Maribeth Murray, Ravi Sankar (virtual) and Srdan Dobricic</u></p>	<p>Co-leads and participants to give a brief overview to guide the conversation and serves as a refresher for those who have not been able to attend all of the sessions.</p> <p>Looking ahead:</p> <ul style="list-style-type: none"> <li>- Recommendations to the Arctic Science Ministerial</li> <li>- Outcomes from WG 5.</li> </ul>	

