

Polar Data Forum VI: Program

20-24 October, 2025 - Hobart, TAS, Australia

[CSIRO Hobart](#) - 3-4 Castray Esplanade Battery Point Tas 7004

Purpose and Objectives: The Polar Data Forum (PDF) is a place where polar data curators, holders, and users get together and work to leverage open science frameworks. The Forum has two main components: the Conference, where the border between funding, policy and data is explored through presentations and posters; and Workshop Sessions & Hackathons, where the Polar Data Community opens the dialogue to make progress on their shared objectives.

Room Codes: TAS-Hobart-B1-FG-R26-Auditorium / TAS-Hobart-B1-FG-R00-Freycinet

Timezone: AEDT (+11 UTC)

Note: Lunch will be catered and provided daily on-site

SIDE MEETINGS: 20 Oct 2025		Room
8:00am – 9:00am	Registration Open	Front Foyer
9:00am – 10:30am	Early Career Researchers (<i>Open</i>) <i>About:</i> This will be a space held for ECRs who would like to come learn about previous Polar Data Forums, what to expect for PDFVI, and to meet and greet other ECRs attending the event.	Auditorium
10:30am-12:30pm	SCAR - Standing Committee for Antarctic Data Management Meeting (<i>Open to observers</i>) <i>About:</i> Annual SCADM in-person meeting	Auditorium
Lunch (1hr)		
1:30pm-3:30pm	IASC-SAON Arctic Data Committee Meeting (<i>Open to observers</i>) <i>About:</i> Annual ADC in-person meeting Tentative Agenda can be found here	Auditorium

Day 1: 21 Oct 2025		Room
8:00am-9:00am	Registration Open	Front Foyer
8:30am-9:00am	Welcome	Auditorium
9:00am-9:45	Keynote: The Eurasian red squirrel (<i>Sciurus vulgaris</i>) Data, Knowledge and Backcasting using Oral Histories Speaker: Tero Mustonen, Snowchange Cooperative, Finland <i>Abstract:</i> The Eurasian red squirrel (<i>Sciurus vulgaris</i>) has played an important role in Finnish traditional culture and livelihoods since pre-historic times. This keynote summarizes recent science results and analyzes the current role, status, and trends of the red squirrel using both available scientific evidence and testimonies from oral historians who were immersed in Finland's boreal hunting societies during the mid-1900s. Red squirrels are not currently seen as being of great relevance to conservation efforts, despite their central role in spreading seeds and in boreal predator-prey food chains. If the animal is lost from Finland's remaining boreal timber forests, their absence may have consequences that are not yet understood. The keynote will discuss the role and scope of "data" of species in the boreal and the Arctic, cultural knowledge and the fusion of oral histories and science in backcasting and assessing the status and trends of this iconic animal of the Finnish boreal.	Auditorium
9:45-10:00	Coffee break (15 mins)	

10:00am - 10:45am	<p>Community-Led Research and Indigenous Data Sovereignty <i>Title:</i> Empowering Indigenous Communities Through Collaborative Research: Enhancing Data Accessibility and Decision-Making with the Canadian Watershed Information Network <i>Presenter:</i> Claire Herbert</p> <p><i>Title:</i> Amplifying Impact Through Collaboration: Knowledge Mobilization and Data Sharing in Arctic Research <i>Presenter:</i> Chantelle Verhey</p>	Auditorium
10:45am - 12:00pm	<p>Data Story Telling <i>Title:</i> Data Stories as a Tool for Enhanced Data Accessibility: Turning Scientific Data into Engaging Narratives <i>Presenter:</i> Yanique Campbell</p> <p><i>Title:</i> Making the Most of your Data: Visualizing the Future of Researcher-Repository Collaborations <i>Presenter:</i> Shannon McAllister</p> <p><i>Title:</i> Using Compound Data Objects, Semantic Modelling and Multi-Level Software Architecture for Data-Driven Storytelling <i>Presenter:</i> Peter Pulsifer</p> <p><i>Title:</i> Cerulean Information Factory Storytelling Capability <i>Presenter:</i> David Arthurs</p> <p><i>Title:</i> Shining a light on observing systems: how BENEFIT assessment supports data storytelling and open science <i>Presenter:</i> Hazel Shapiro</p>	Auditorium
12:00pm - 1:00pm	<i>Lunch (1hr)</i>	
1:00pm – 2:30pm	<p>Vocabularies and Semantic Interoperability <i>Title:</i> Semantic mapping services and tools at the Arctic Data Centre: the MET Vocabulary Server <i>Presenter:</i> Lara Ferrighi</p> <p><i>Title:</i> Breaking Data Silos: An Oceanographic Dataset Interoperability Journey <i>Presenter:</i> Chantelle Verhey</p> <p><i>Title:</i> May the data be with you: unlocking polar insights with large language models. <i>Presenter:</i> Alice Cavaliere</p> <p><i>Title:</i> Towards Place-Based Semantics for Polar Research: Uplifting the SCAR Gazetteer as a Foundation for Data Integration <i>Presenter:</i> Brandon Whitehead</p>	Auditorium
2:30pm - 2:45pm	<i>Coffee break (15 min)</i>	
2:45pm – 3:45 pm	<p>Data Management <i>Title:</i> Physical sample management through the sample life cycle at BAS <i>Presenter:</i> Mari Whitelaw</p> <p><i>Title:</i> Cloud-based management of Ross Sea imagery to support machine learning applications <i>Presenter:</i> Caroline Chin</p> <p><i>Title:</i> Bedmap3: A Data Management Perspective <i>Presenter:</i> Alice Fremand</p>	Auditorium
3:45pm – 5:00pm	Machine Learning /Artificial Intelligence	Auditorium

	<p><i>Title:</i> Polar TEP Machine Learning Workspace <i>Presenter:</i> David Arthurs</p> <p><i>Title:</i> Reconstruction of Antarctic sea ice thickness from sparse satellite laser altimetry data via deep learning <i>Presenter:</i> Yafei Nie</p> <p><i>Title:</i> Frozen Constraints, Fluid Uncertainty: A Physics-informed Probabilistic Machine Learning Method for the Antarctic Ice Sheet <i>Presenter:</i> Kim Bente</p> <p><i>Title:</i> Legal and Ethical Considerations of Using AI in Polar Research <i>Presenter:</i> Munish Madan</p>	
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Day 2: 22 Oct 2025		Room
8:00am – 9:00am	<i>Registration Open</i>	<i>Front Foyer</i>
8:45am - 9:00am	<i>Welcome & Day 1 Recap</i>	Auditorium
9:00am-9:45	<p><i>Keynote: Utilising Earth Observation Data to Improve Understanding of Polar Regions: Activities of ESA Polar Science Cluster</i> Speaker: Martin Wearing</p> <p><i>Abstract:</i> Satellite Earth observation data provides a valuable resource for monitoring change in remote and inhospitable polar regions. In this presentation I will provide an overview of the activities and projects of the ESA Polar Science Cluster, with a focus on the generation of innovative data products and the insights they provide, as well as ongoing efforts to ensure data from multiple projects is harmonised and accessible for the benefit of the wider science community and upcoming international initiatives.</p>	Auditorium
9:45-10:00	<i>Coffee break</i>	
10:00am-11:00am	<p>Polar Modelling and Spatial Data <i>Title:</i> Seamap Antarctica: Advancing a Unified Understanding of the Antarctic Seafloor <i>Presenter:</i> Vanessa Lucieer</p> <p><i>Title:</i> Unifying Historical Antarctic Biogeographic Data using SCAR Gazetteer and a Discrete Global Grid System <i>Presenter:</i> Brandon Whitehead</p>	Auditorium
11:00am - 12:00pm	<p>Open Science <i>Title:</i> EarthCODE <i>Presenter:</i> David Arthurs</p> <p><i>Title:</i> Data migration from conventional server into Open Data Access Protocol type: Amundsen-Science-ERDDAP <i>Presenter:</i> Tahiana Ratsimbazafy</p> <p><i>Title:</i> Enabling Discovery: A New Registry of Polar Observing Networks (RoPON) <i>Presenter:</i> Shannon McAllister</p> <p><i>Title:</i> International Journal for Publishing Polar Data <i>Presenter:</i> Maskai Kanao</p>	Auditorium
12:00pm - 1:00pm	<i>Lunch</i>	
1:00pm - 2:45pm	<p>Data Platforms and Repositories <i>Title:</i> Lessons learnt in establishing the South African National</p>	Auditorium

	<p>Antarctic Data Centre <i>Presenter: Anne Treasure</i> <i>Title: POLARIN Data Hub: Advancing International Collaboration and Open Science through a Federated Polar Data Infrastructure</i> <i>Presenter: Daan Kivits</i> <i>Title: The Spanish Polar Data Centre (CNDP): Supporting Open and FAIR data</i> <i>Presenter: Marc Casas</i> <i>Title: Empowering Antarctic End-Users: A New Era Of Satellite Data Accessibility</i> <i>Presenter: Kimberlee Baldry</i> <i>Title: TaiPI Data Repository: An Asia-based, Community-driven Platform for Open Polar Research</i> <i>Presenter: Whyjay Zheng</i> <i>Title: Archiving your Antarctic meteorological data with the AMRDC Data Repository</i> <i>Presenter: Matthew G. Noojin</i></p>	
2:45pm - 3:00pm	<i>Coffee break</i>	
3:00pm – 4:45pm	<p>International Collaboration <i>Title: Where Have We Been and Where Are We Going? a systematic review and synthesis of polar data literature</i> <i>Presenter: Peter Pulsifer</i> <i>Title: International Collaboration in Polar Data: Building an Inclusive Archival Network for the Polar Humanities</i> <i>Presenter: Ria Oliver</i> <i>Title: EU-PolarNet2 White Paper with 80 recommendations for strengthening international collaborative Polar observations</i> <i>Presenter: Gaël Lymer</i> <i>Title: Expanding spatial gap analyses across polar domains: integrating data streams to address knowledge gaps</i> <i>Presenter: Efrén López-Blanco</i> <i>Title: The Evolution of the Polar Data Ecosystem – Lessons learned from and since the last IPY for the next IPY</i> <i>Presenter: Mark Parsons</i></p>	Auditorium
<i>Networking Event 6:30-8:00pm (location: Tasmanian Museum and Art Gallery) / Tour of Islands to Ice: Dr David Hocking</i>		

Day 3: 23 Oct 2025		Workshops & Hack-a-thons	Room
8:00am – 9:00am	<i>Registration Open</i>		<i>Front Foyer</i>
8:45am-9:00am	<i>Welcome and Overview</i>		Auditorium
9:00am-10:30am	<p style="text-align: center;"><i>International Polar Year Planning -</i> Description: This session will explore strategic planning for the upcoming</p>		Auditorium

	<p>International Polar Year, focusing on scientific collaboration, data sharing, and aligning research efforts with global needs. Experts will discuss key priorities, interdisciplinary cooperation, and the development of open-access data frameworks to support policy and sustainability initiatives. Attendees will gain insights into how they can contribute to and engage with this global effort to advance polar science and address pressing environmental challenges.</p> <p>To see a draft Agenda please visit: PDFVI-International Polar Year-Workshop</p>	
<i>Coffee Break (15)</i>		
10:45am-12:00pm	International Polar Year Planning - <i>continued</i>	Auditorium
<i>Lunch (1hr)</i>		
1:00pm-2:30pm	<p>Polar Science Communication: Challenges and Best Practices - Description: This session will discuss best practices for communicating polar science information to the public; suggested tools, technologies, and resources; opportunities for collaboration; and potential solutions for overcoming communication barriers.</p> <p>To see a draft Agenda please visit: PDFVI-Polar Science Communication-Workshop</p>	Auditorium
<i>Coffee Break (15)</i>		
2:45pm-4:30pm	Polar Science Communication: Challenges and Best Practices - <i>continued</i>	Auditorium
<i>Group Pub Night 6:00pm - 8:00pm (location: Jack Greene Pub) / Appetizers and non-alcoholic beverages provided [Note: other food and drinks available for purchase]</i>		

Day 4: 24 Oct 2025 Workshops & Hack-a-thons		Room
8:45am-9:00am	<i>Welcome and Overview</i>	
9:00am-10:30am	<p style="text-align: center;">Polar Archive Action Group</p> <p>Description: This workshop is a follow-up from the original held in the UK-March 2025. Building upon the groundwork laid at the March workshop hosted at the Scott Polar Research Institute (SPRI) in Cambridge, this session will focus on refining the draft proposal and furthering collaborative efforts to develop a robust, sustainable network of archives dedicated to polar research in the social sciences and humanities.</p> <p>To see a draft Agenda please visit: PDFVI-Polar Archive Network-Workshop</p>	Freycinet
9:00am-10:30am	<p style="text-align: center;">Data for Ship Navigation in the Polar Regions</p> <p>Description: This session will consider the data needed to support ship navigation in polar waters – data sources, data interpretation, and data presentation.</p> <p>To see a draft Agenda please visit: PDFVI-Ship Navigation-Workshop</p>	Auditorium

<i>Coffee Break (15)</i>		
10:45am-12:00pm	Data for Ship Navigation in the Polar Regions <i>continued</i>	Auditorium
<i>Lunch (1hr)</i>		
1:00pm-2:30pm	Polar Semantics and Vocabularies Description: This session will be guided by the PS&V Working group on further working on polar semantic resources documentation and guidance for researchers and repositories <i>To see a draft Agenda please visit: PDFVI-Polar Semantics & Vocabularies-Workshop</i>	Auditorium
<i>Coffee Break (15)</i>		
2:45pm-4:30pm	Polar Semantics and Vocabularies - <i>continued</i>	Auditorium
4:30pm-5:00pm	<i>Closing Remarks</i>	Auditorium

Note: Please check your emails for hybrid connection information

Poster Information

Researchers presenting posters at the Polar Data Forum are invited to display their work in the designated hallway area, where posters will be available for viewing throughout the event. We recommend using a standard poster size of 36 x 48 inches (91 x 122 cm) for consistency and ease of setup. To foster engagement and discussion, we encourage presenters to be near their posters during coffee breaks, as this provides an excellent opportunity to answer questions and connect with fellow attendees interested in your research. Please ensure your poster is clearly labeled and professionally formatted to maximize visibility and impact.

For printing services nearby: <https://nobleink.com.au/>

Another option: is Officeworks - Located at 99/103 Campbell St, Hobart TAS 7000

Presenter Information

Each presentation should be approximately 15 minutes in length. Each session has time for questions from the audience. Please provide your presentation in a .pdf or .pptx format a day before.

Please contact info@polar-data-forum.org if you need an immigration invitation letter to attend in person.

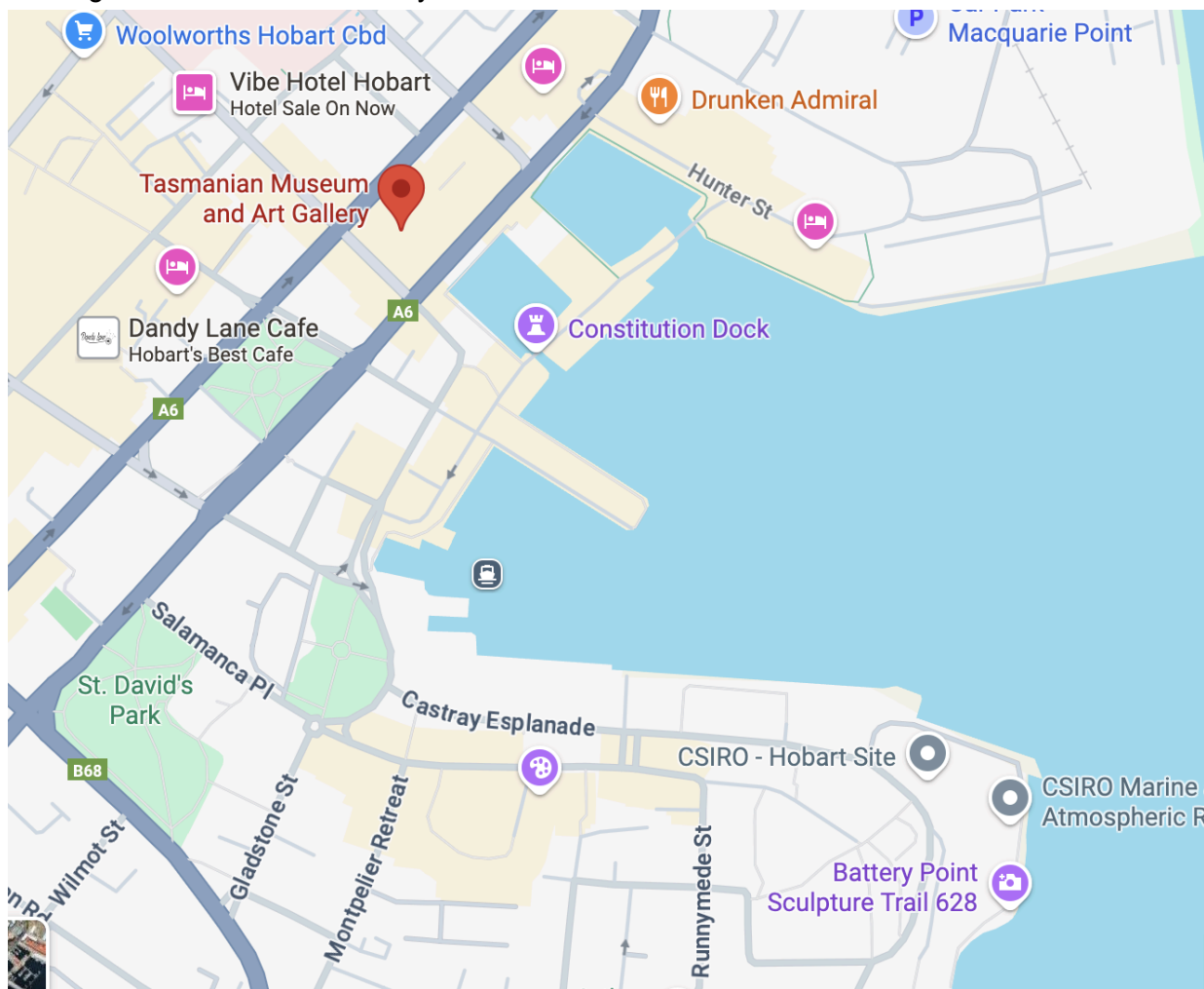
Link to the Drive for presentation submission:

<https://drive.google.com/drive/u/0/folders/1j6kPcSMcOqdShDFYJXamhvdHlHKMx7VH>

Additional Group Outings Information

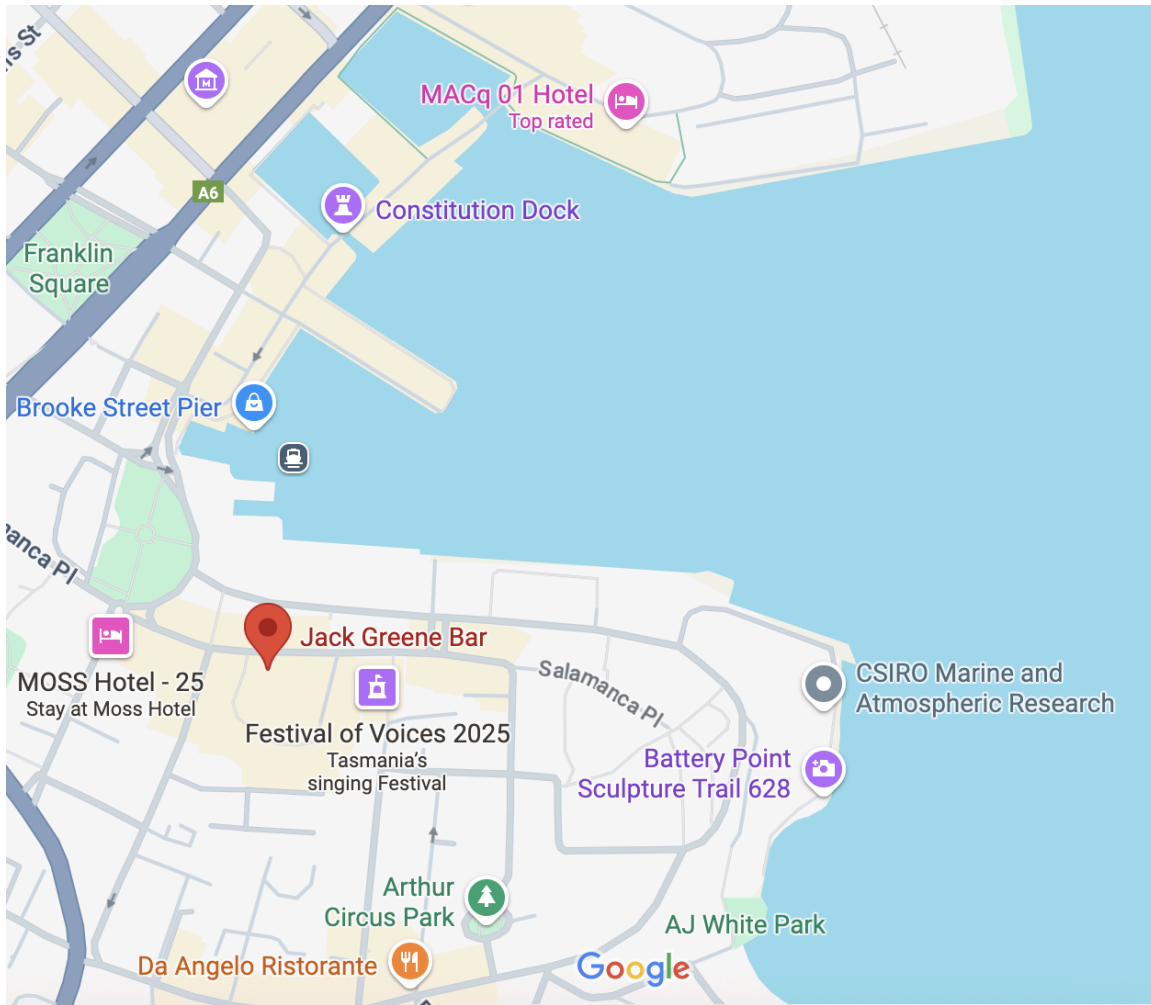
Networking Event: Islands to Ice Tour

- **Date:** October 22, 2025 (Day 2)
- **Time:** 6:30 PM - 8:00 PM
- **No Fee**
- **Location:** Tasmanian Museum and Art Gallery - Dunn PI, Hobart TAS 7000, Australia
- **Details:** Enjoy a guided tour of the "Islands to Ice" exhibition with Dr. David Hocking, offering insights into the natural history and research of Tasmania's subantarctic islands and Antarctica.



Group Pub Night

- **Date:** October 23, 2025 (Day 3)
- **Time:** 6:00 PM - 8:00 PM
- **Location:** Jack Greene Pub, 49 Salamanca PI, Battery Point TAS 7004, Australia
- **Details:** Casual gathering for attendees to socialize and network. Appetizers and non-alcoholic beverages are included. Additional food and drinks will be available for purchase.



Last Updated 8 October 2025