

SOOS - OSD Workshop Agenda

August 13th 2023

Facilitating the design of a comprehensive and multi-disciplinary observing system for the Southern Ocean

Aurora Lecture Theatre (and Zoom)
Institute for Marine and Antarctic Studies,
University of Tasmania
20 Castray Esplanade, Battery Point

The Observing System Design (OSD) Capability Working Group aims to energize and support the ongoing design of the emerging Southern Ocean observing system. We work towards this by (1) building and maintaining a network of interested members and stakeholders, (2) identifying and supporting potential observing system design projects, (3) providing input to other SOOS working groups, and (4) contributing to workshops and reports.

In this workshop, we will collaboratively advance a vision for future Southern Ocean observing system design. As a specific output, we aim to identify which scientific domains and geographic areas may especially benefit from focused, intensive observing system design efforts in the near-to-medium term future.

All times listed are local AEST - Meeting start at 0900 AEST (1600 PT)

0900 Workshop introduction & objectives (Dani Jones, BAS)

- Welcome, Introduce Structure, Discuss Aims of Meeting
- Introduce OSD to the SOOS community
- Summary of the 2023 OSD mini-workshops

0915 Other SOOS working group perspectives

- SOFLUX working group (Sarah Gille, SIO/UCSD - 10 min)
- CAPS working group (Peter Fretwell, BAS - 10 min)

0935 Observing system projects

- *Air-Sea interaction in the Polar Pod project* (Luc Lenain, SIO/UCSD - 10 min)
- *Perspective from the OASIS project* (Meghan Cronin, NOAA PMEL - 10 min)
- *SynObs project* (Elisabeth Remy, Mercator Ocean - 10 min)
- Discussion (10min)

1015 Break (15min)

1030 Multi-disciplinary observing systems for the Southern Ocean

- *Sensor webs for marine systems undergoing accelerating change* (Oscar Schofield, Rutgers - 10 min)
- *Towards an integrated and complementary ocean observing system* (Clive McMahon, University of Tasmania - 10 min)
- *Considering predictability timescales in designing the SOOS* (Matt Mazloff, SIO/UCSD - 10 min)
- *Climate And The Deep Blue Sea: Measuring and Predicting the Winds and Ocean Mixing that Set Earth's Transient Climate Response* (Joellen Russell, University Of Arizona - 10 min)
- *Observing Antarctic Bottom Water in the Southern Ocean* (Alessandro Silvano, University of Southampton - 10 min)

- *Essential (biodiversity) Variables in support of Southern Ocean monitoring* (Anton Van De Putte, Royal Belgian Institute for Natural Sciences/Université Libre de Bruxelles - 10 min)
- *The Australian East Antarctic Monitoring Program (EAMP) – inviting national and international collaboration* (Patricia Miloslavich, Australian Antarctic Division 10min)
- *Joint Commission on Ice-Ocean Interactions (JCIOI) activities towards a framework on ice-ocean interactions* (Felicity McCormack, Monash University -10 min)
- Discussions (10 min)

1200 Plenary discussion

1230 Lunch