

Meeting Minutes

NORP/SORP/OMDP Polar heat workshop planning



Date: 2024- 12-09 **Start date:** 14:30 UTC
Venue: GoTo Meeting **ICPO Staff Host** Joana Gonzalez

Attendees (9)

NORP: Petteri Uotila, Benjamin Rabe, Hannah Zanowski, Milena Veneziani, Lars H. Smedsrud, Xiangdong Zhang, Patrick Heimbach, SORP: Carolina Dufour, OMDP: Alistair Adcroft.

Co-Chairs: NORP: Petteri Uotila, Benjamin Rabe, SORP: Carolina Dufour, OMDP: Alistair Adcroft.



Meeting Objective: Planning a NORP/SORP/OMDP joint workshop on Polar Heat

Agenda

1. Venue / date: are we still going for Boulder in May (back-to-back with the AMS Polar Met / PO conference in Denver)? Abstract submission for the conference has been extended <https://ams.confex.com/ams/2025Summit/cfp.cgi> to 17 December.
2. Funding: IASC Call for funding up to May 2025 (deadline end 2024); CLIVAR status?; CliC status?; Other?
3. Announcements

Minutes

Background to the workshop: Previously the group discussed about a joint workshop on polar heat, one proposal was to hold it at the AMS - 18th Conference on Polar Meteorology and Oceanography, in Denver in May, 2025, or during the PanCLIVAR meeting in Bali in



September, or the CliC Open Science Conference in 2026. There is some concern about the venue, given the travel restrictions to the US next year.

Petteri Uotila: CLIVAR favors the workshop to be held during the PanCLIVAR meeting in Bali, which is more likely to get funding, but not optimal in time and date. The PanCLIVAR meeting is in September, which is a difficult time for universities in the northern hemisphere.

- Benjamin: US CLIVAR is also interested in supporting the workshop, and external funding may come from IASC or other sources.

Carolina Dufour: SORP have discussed the workshop in previous telecons and at the moment no one is willing to be on the organizing committee; there may be people interested when the new members join the panel next year. SORP haven't discussed the venue and date, but May seems too early to organize. The PanCLIVAR meeting would be a good time, at least half of the panel will attend. Carolina will introduce the activity to the new members so they may have help from SORP for the organization.

Alistair: May seems too early to organize at this stage due to uncertainty about funding - whether the US CLIVAR or other agencies will support it. A September workshop seems a better option.

Lars is attending the Arctic Science Summit in Boulder, Colorado in March, perhaps a short workshop focusing on polar heat transport in the Arctic is an option. The discussion now is very relevant with the AMOC collapsing, and the community is divided between the paleo and present-day oceanographers.

- Benjamin: The idea is not just to focus on transport or lateral transport, but look at polar heat in general.
- Lars: Heat is advected in the ocean and radiates out, its a one-way problem apart from- surface fluxes, seasonality, and the atmospheric boundary layer. There is a growing discussion in the AMOC in Bergen, and this is relevant to the IPY. There's still a lot to discuss about the Arctic.
- Petteri: The idea from the previous meeting is to organize a 3-day workshop, with day 1 focusing on the ocean heat transport, day 2 on ocean heat and ice - interaction, 3 day story line -projections. Lar's suggestion can be included on day 1, focusing on the Arctic.

The first thing to define is whether members are still interested in organizing a bipolar workshop; it seems that SORP is less interested now. If there are people who are keen to organize it now there's a call for funding, but if there's no one who wants to take the lead, it can be postponed until 2026 to wait for the new members.

Carolina: It's not a problem if they continue to plan a polar heat workshop focusing on the Arctic only, or we could think about having a day or session on polar heat and



comparing the two poles during the panCLIVAR meeting - or also planning a future workshop together in 2026.

Lars: Is there any option to get funding from CliC?

- Benjamin: It was on the agenda at the beginning of the year, but it's uncertain what the outcome was, there's no negative answer, but it's still on the agenda. NORP/SORP asked for 5k CHF per panel.

Milena: What was the motivation for a joint workshop for CLIVAR?

- Alistair: Cross-panel activities are encouraged and are more likely to get the funding.

Carolina: The topic of polar ocean heat transport and air-sea fluxes is gaining a lot of interest lately, they are trying to write a paper on that for the Southern Ocean, there is interest but they will be busy, and with the last summer school, recruiting new members and the panCLIVAR meeting coming up, at the moment no one from SORP can take the lead and can't travel to the proposed locations, maybe SORP can help to organize remotely but they can not help on-site. They hope that the new members can be involved, or it is also ok if they decide to go without SORP.

Benjamin: There aren't any current members of SORP, NORP or OMDP interested in taking the lead on a big workshop now, the best option is to postpone it until 2026. Maybe next year they can organize small meetings or activities during various conferences.

Patrick: There are specific discussions going on about the Arctic; the Arctic amplification and atlantification, which is related to the AMOC. Moving the workshop to 2026 sounds better to have more time to think and more people to join the organization. One suggestion is to ask the Task Team on AMOC to co-organize, for a good connection between subtropical, subpolar and Arctic regions; also the Arctic-Subarctic Ocean Fluxes (ASOF) group led by Tom Haine might also be a good option.

Petteri: to contact the AMOC Task Team and ask them about the possible interest. The consensus of the panel regarding the venue and date is to postpone the workshop to 2026. Funding and venue will be clearer in 2025.

What about considering the upcoming IPY (2032-2033), which will be bipolar?

- Xiangdong Xang: IPY is happening in 2032-2033, it is better to have this workshop beforehand.
- Benjamin: During a previous planning meeting for IPY: mostly atmospheric oriented, few people from ocean ice and land, they are sketching a roadmap, it's at a starting stage, finding groups to organize it.

Link: <https://iasc.info/cooperations/international-polar-year-2032-33>

Roadmap: <https://iasc.info/news/iasc-news/1409-international-polar-year-2032-2033-updated-concept-note-published>



Postponing the workshop and seeking sponsorship under IPY sounds reasonable.

Next meeting to plan the workshop: beginning of March. SORP will present the activity to the new members and try to get help for the organization.

Further discussion in the NORP meeting suggested using conferences to organize the meeting and maybe hold a session - town hall on the topic during Ocean Sciences meeting in 20206, in Glasgow.