

## Northern Oceans Region Panel

Co-chairs: Amy Solomon ([Amy.Solomon@noaa.gov](mailto:Amy.Solomon@noaa.gov))  
John Fyfe ([john.fyfe@canada.ca](mailto:john.fyfe@canada.ca))

### Panel overview

NORP will serve as an international forum for coordinating and strategizing activities on the role of the Arctic Ocean in the context of the global climate system from a coupled perspective. NORP will facilitate progress in the development of tools and methods to monitor and assess climate variability and change, and evaluate climate predictability of the ocean-atmosphere-ice system in the Arctic and Subarctic Ocean. NORP will coordinate efforts that will enhance our ability to monitor the coupled system, understand the driving mechanisms of the system change from a coupled process perspective, and predict the evolution of the emerging New Arctic climate. NORP will play a central role in coordinating, monitoring, and evaluating the progress of such activities during and beyond the Year of Polar Prediction.

### Achievements for 2016-17

NORP was approved by the WCRP JSC on April 3, 2017. The first group telecon will be held on November 27, 2017.

### Plans for 2018 and beyond

NORP would like to have a face-to-face meeting in the spring, this will be discussed at the first telecon on Oct 27 2017. NORP will meet at the POLAR2018 in Davos, Switzerland. A joint meeting with SORP has been scheduled during POLAR2018 as well. Other activities and plans will be determined within the next few months after the panel begins discussions.

### Articles published in 2016/17 as part of panel activities (if any)

N/A

### Budget and other needs for 2018

NORP requests funds to support travel to/from POLAR2018 in June 2018 (Davos, Switzerland) when NORP will organize their first meeting, and also jointly with SORP.

## Annex A

### Proforma for CLIVAR Panel requests for SSG approval for meetings

1. **Panel or Working Group:** CliC/CLIVAR Northern Oceans Region Panel (NORP)
2. **Title of meeting or workshop:** 1<sup>st</sup> Session of the CliC/CLIVAR Northern Oceans Region Panel
3. **Proposed venue:** Congress Centre, Davos, Switzerland
4. **Proposed dates:** June 15-16, 2018
5. **Proposed attendees, including likely number:**

Attendees will be 14 panel members and a limited number of interested parties (not more than 20 people).

6. **Rationale, motivation and justification, including: relevance to CLIVAR science & WCRP Grand Challenges, and any cross-panel/research foci links and interactions involved:**

This meeting will be one of the few opportunities for NORP to meet face-to-face to review past activities and outline priorities for the next year. NORP is a new panel that will play a fundamental role in CLIVAR by serving as an international forum for coordinating and strategizing activities on the role of the Arctic Ocean in the context of the global climate system from a coupled perspective. In addition, NORP and SORP will have a joint meeting at POLAR2018 to discuss activities in CliC, CLIVAR, and SCAR that address the role of the polar oceans in climate more generally.

7. **Specific objectives and key agenda items:**

This meeting is critically important in outlining the objectives of NORP going forward. NORP has already identified 6 research areas; development of a state-of-the-art Arctic Ocean reanalysis, the role of the Arctic Ocean in arctic amplification, advancing the understanding of climate variability due to Arctic-midlatitude linkages, quantifying the response to natural external forcing and internal variability in the Arctic Ocean, promoting studies to assess model errors in Arctic projections through initialized forecasts, and Greenland Ice Sheet – ocean interactions. In order to make progress in these areas it will be necessary to prioritize these activities and identify specific opportunities.

8. **Anticipated outcomes (deliverables):**

Deliverables for this meeting will be determining short-term (2018-2019) priorities and long-term objectives, as well as, coordination of NORP with SORP to develop activities that contribute to the WCRP Grand Challenges on the consequences of melting ice and near-term prediction.

9. **Format:** Panel meeting
10. **Science Organizing Committee (if relevant)**
11. **Local Organizing Committee (if relevant)**
12. **Proposed funding sources and anticipated funding requested from WCRP:**

NORP requests US\$ 5K from CLIVAR to pay for travel to/from Davos, Switzerland for some of the panel members to participate in the panel meeting and joint meeting with SORP. A request to CliC will also be made as part of their co-sponsorship to the panel.