“International workshop on polar-lower latitude linkages and their role in weather and climate prediction”

Agenda
http://polarprediction.net/linkages

Wednesday 10 December
13:00 Registration
14.00 Introduction by local authorities
14:25 Welcome and introduction by organizers
14:45 Keynote and challenger presentations (Chair: Claude Frankignoul) Keynote and challenger speakers

Ocean
Michael Karcher: On Arctic Ocean dynamics and its links with lower latitudes
Richard Bintanja: Future changes in Arctic precipitation and their effect on the AMOC
Andrey Proshutinsky: Arctic freshwater reservoirs and their influence on climate
Hugues Goosse: How can we improve the prediction of decadal trends in Southern Ocean sea ice extent?
Matthieu Chevallier: Polar ice-ocean modelling: when local flaws can affect other latitudes

16:30 Coffee break
17.00 Keynote and challenger presentations (Chair: Gudrun Magnusdottir)

Atmosphere
Jennifer Francis: New evidence linking rapid Arctic warming with changes in mid-latitude weather patterns
Elizabeth Barnes: The impact of Arctic warming on midlatitude weather: Can it? Has it? Will it?
Ted Shepherd: How do we deal with uncertainty connected with atmospheric circulation?
Hisashi Nakamura: Extreme amplification of cold continental anticyclones associated with wintertime blocking highs
Bingji Wu: Arctic sea ice loss also promotes weakening of winter monsoon over East Asia

19.00 Ice breaker and poster session I

Thursday 11 December
9:00 Keynote and challenger presentations (Chair: Geert Jan van Oldenborgh)

Atmosphere
James Screen: Evidence linking Arctic amplification to fewer mid-latitude cold extremes

Prediction and services
Thomas Jung: Polar-lower latitude linkages: The role of the Polar Prediction Project

Marika Holland: Challenges for improved prediction of polar-midlatitude linkages on seasonal to decadal timescales

10:30 Coffee break
11:00 Keynote and challenger presentations (Chair: Ileana Bladé)

**Prediction and services**
- Jun Inoue: Arctic Research Collaboration for Radiosonde Observing System Experiment (ARCROSE)
- Michael Sigmond: Towards improved and more relevant seasonal forecasts of the Arctic climate
- Trond Iversen: Challenges: Arctic sea-ice, predictability, and high-impact weather prediction
- Sabrina Plagemann: Components for improving skill in the polar regions in the MPI-ESM prediction system

12:30 Lunch and poster session II

13:30 Breakout group sessions

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<tr>
<th>Chair</th>
<th>Rapporteur</th>
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<tbody>
<tr>
<td><strong>Atmosphere I</strong></td>
<td>Rodrigo Caballero</td>
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<td><strong>Atmosphere II</strong></td>
<td>Jim Overland</td>
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<td><strong>Ocean</strong></td>
<td>Michael Karcher</td>
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<td><strong>Prediction and services</strong></td>
<td>Cecilia Bitz</td>
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Students:
- Carolina
- Joseph
- Anne

15:30 Coffee break

16:00 Breakout group sessions

18:00 Closing

20:00 Dinner at the Carpe Diem restaurant, Passeig Marítim de la Barceloneta 32, 08003 Barcelona

**Friday 12 December**

9:00 Breakout group sessions

10:30 Coffee break

11:00 Breakout group sessions

12:30 Lunch

13:30 Plenary session (Chair: Thomas Jung)

- Summary of the breakout groups

15:00 Coffee break

15:30 Plenary session (Chair: Francisco Doblas-Reyes)

- General discussion, plans for the future and final statements

17:00 Adjourn