



“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

	<u>Chair</u>	<u>Rapporteur</u>
<u>Atmosphere I</u>	Rodrigo Caballero	Erko Jakobson
<u>Atmosphere II</u>	Jim Overland	Shuting Yang
<u>Ocean</u>	Michael Karcher	Johann Jungclaus
<u>Prediction and services</u>	Cecilia Bitz	Carlo Buontempo

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