



Tipping Points in Antarctica

Towards Evidence-Based Policy

Monday, 16 October 2023

Meeting location

NORCE Research Office Brussels
Rue Guimard 9, 1000 Brussels

14:00 ○ **Registration and Coffee**

14:15 ○ **Welcome Remarks**

Petra Langebroek (NORCE Norwegian Research Center) and Larisa Lorinczi (DG for Research and Innovation)

14:20 ○ **Plenary Session** | Moderated by Renuka Badhe (European Polar Board)

Tipping points and the safe operating space for Antarctica

Ricarda Winkelmann (PIK, Potsdam Institute for Climate Impact Research)

How stable is the Antarctic ice sheet? What is the safe operating space for Antarctica? Prof. Dr Winkelmann will give a brief overview of the latest scientific knowledge on Antarctic ice sheet stability and tipping, as generated through our EU projects.

Observing Antarctic changes

Ruth Mottram (DMI, Danish Meteorological Institute)

What do observations tell us about the current state of Antarctica? What is missing? And why is there a further need for observational networks in and around Antarctica? Dr Mottram will shortly recap our current status and highlight some key areas where new observations can help to reduce uncertainties in Antarctic changes.

On the need to consider ocean and ice sheets together

Nicolas Jourdain (UGA, Université Grenoble Alpes)

When assessing ocean and ice sheet processes, we often use computer models that simulate these components separately. Dr Jourdain will briefly present the main motivations for the coupling of ocean and ice-sheet models, in particular in the context of tipping points. Hereafter he will review the major model developments made through our European projects.

[Q&A]

15:00 ○ **Research-into-Policy World Café**

Tentative thematic table list:

- The safe operating space in Antarctica: looking at Tipping Points
- What's next for coupled models and its implication for the IPCC?
- Antarctic ice sheet and global climate – what needs to be done now?
- The role of the EU in research and policy in Antarctica
- Best support for Early Career Researchers in Antarctic research

16:00 ○ **Conclusion and next steps**