



Preliminary Program of the Gateway to the Arctic XI – Melting Glaciers in a Changing World

Program under continues changes

Program status 05/08/2025

Workshop organization:

Prof Dr Jan Borm (UVSQ / Université Paris-Saclay, France)

Dr Renate Treffeisen (AWI / REKLIM, Germany)

Dr Klaus Grosfeld (AWI / REKLIM, Germany)

Hannes Hiergeist (Environmental Research Station Schneefernerhaus, UFS, Germany)

Leonhard Günther (AWI / REKLIM, Germany)

Location:

Environmental Research Station Schneefernerhaus, Zugspitze, Germany

Monday, 08.09.2025

Travel and arrival at Garmisch-Partenkirchen

Stay in youth hostel for participants; dinner not included.

Tuesday, 09.09.2025

Morning:

09:00 Meeting at the cable car station and travel to the Schneefernerhaus

12:00 Lunch at the Schneefernerhaus cantine place

13:00 getting participants to their rooms

Afternoon session:

14:00 – 15:00 Welcome of the partner institutions

n.n. (Schneefernerhaus)

Prof Jan Borm

(Director of the Malaria Institute of Arctic Research Monaco-UVSQ)



Dr Klaus Grosfeld
(Managing Director REKLIM, REKLIM / AWI)

Context, aim and program of 2025 Gateway Workshop XI

Dr Renate Treffeisen
(Head of Climate Office AWI / REKLIM)

- 15:00 – 16:00 Round to get to know each other
- 16:00 – 16:30 coffee break
- 16:30 – 17:30 Introduction to the Schneefernerhaus as a working space
n.n. (Schneefernerhaus)
- 18:30 – 19:30 Dinner at Schneefernerhaus

Wednesday, 10.09.2025

Morning session I: Block - Glaciers and Ice Sheets

- 09:00 – 09:45 The fate of ice sheets and glaciers from an orbital perspective. How the gravity field helps to determine the global ice and water mass redistribution.
Dr. Ingo Sasgen
(REKLIM / AWI)
- 09:45 – 10:30 Dying glaciers in the Alps: a heritage of global warming
Dr. Christoph Mayer
(Bavarian Academy of Science- commission of glaciology)
- 10:30 – 11:00 coffee / tea break

Morning session II: Networking and exchange I

- 11:00 – 13:00 Networking and exchange among young researchers; short presentations of participants research themes (7 minutes presentation plus 3 minutes discussion)
(Presentations by: J. Agziou, D. Altraddawi, M.R. Mackenzie, N. Ben-Naghrouzi, O. Cornet-Salpetrier, A. Delangle, U. Dubey, F. Dupre, H. James; including a short break)
- 13:00 – 14:00 Lunch



Afternoon session I: Exploring the surrounding area

- 14:00 – 15:30 Outdoor excursion to the glacier and guided tour through the environment
Dr. Christoph Mayer
(Bavarian Academy of Science- commission of glaciology)
- 15:30 – 16:00 coffee break

Afternoon session II: Networking and exchange II

- 16:00 – 17:30 Networking and exchange among young researchers; short presentations of participants research themes (7 minutes presentation plus 3 minutes discussion)
(Presentations by: L. Loeslein, A. Mchedlishvili, V. Nagavciuc, M. Neudert, L. Njunnas, M. Paasch, A. Poignard, including a short break)
- 17:30 – 17:50 PhD career planning, challenges and opportunities
Dr Claudia Hanfland (AWI / POLMAR coordinator)
- 18:30 – 19:30 Dinner at Schneefernerhaus

Thursday, 11.09.2025

Morning session I: Networking and exchange III

- 09:00 – 09:50 Networking and exchange among young researchers; short presentations of participants research themes (7 minutes presentation plus 3 minutes discussion)
(Presentations by: M. Rath, K. Sander, L. M. Wassermann, b. Zhang)
- 09:50 – 10:00 break

Morning session II: Representations of permafrost research in the Arctic in literature

- 10:00 – 10:45 Permafrost research from a historical background (part I)
Dr Erki Tammiksaar (Universität in Tartu, Estonia)
- 10:45 – 11:30 Permafrost research from a historical background (part II)
Dr Joanna Kodzik (UVSQ / Université Paris Saclay)
- 11:30 – 11:45 *coffee / tea break*

Morning session III: Climate and permafrost in the Zugspitz-realm

- 11:45 – 12:05 Climatology of southern Germany
Dr Monica Ionita (AWI)
- 12:05 – 12:50 Permafrost and alpine hazards exemplified at the Zugspitze
Prof Michael Krautblatter (TUM Working group Landslide Research)



13:00 – 14:00 *Lunch at Schneefernerhaus*

Afternoon session I:

14:00 – 16:00 Guided tour to the permafrost of the Zugspitze
Prof Michael Krautblatter (TUM Working group Landslide Research)

16:00 – 16:30 *coffee / tea break*

Afternoon session II: Geopolitical Impact of Climate Change in the Arctic

16:30 – 17:15 Norwegian-Russian relations in Svalbard
Dr Eda Ayaydin
(University of London, Institute in Paris)

17:15 – 17:45 Group discussion about geopolitical changes, moderated by Eda Ayaydin

17:45 – 18:15 Presentation of working group results in plenum

18:15 – 18:30 Wrap-up

Evening

19:00 *Farewell Dinner*

Friday, 12.09.2025

Departure after breakfast

Cable car to Garmisch-Partenkirchen (all-together)

Individual ride home by train



Presentations by participants

(7 min plus 3 min discussion)

Wednesday, 10 September 11 – 13h: Networking and exchange I

- 1) Julia Agziou (Université Grenoble Alpes): ????
- 2) Dunya Altraddawi (LATMOS/UVSQ/CNRS): ???
- 3) Mackenzie Rae Baysinger (AWI): Seasonal evolution and spatial variability of porous sea ice - Development of inversion software and processing of electromagnetic field surveys.
- 4) Nahla Ben-Naghrouzi (UVSQ):
- 5) Oriane Cornet-Salpetrier (UVSQ): Space debris: beyond the environmental issue, what are the geopolitical and geo-economic challenges?
- 6) Alexandre Dalangle (UVSQ): Abolishing the Arctic, Narration and imaginary of a shifting geography in Vilhjalmur Stefansson's writings (1921-1964)
- 7) Umesh Dubey (Trier University): Patterns and Drivers of Southern Ocean Sea Ice Dynamics (PADOS)
- 8) Floralie Dupre (UVSQ): Thesis topic: Danish-Greenlandic relations in high-school history
- 9) Honor James (LMU Munic): Rheology of vesicular suspensions during deformation

Wednesday, 10 September 16 – 17:30h: Networking and exchange II

- 10) Laura Loeslein (Goethe University Frankfurt): Representation of geology in German literature
- 11) Alexander Mchedlishvili (University Bremen): ???
- 12) Viorica Nagavciuc (AWI): Quantifying the impacts of adaptation measures on spatio-temporal changes in flood and drought risk
- 13) Mara Neudert (AWI): Seasonal evolution and spatial variability of porous sea ice - Development of inversion software and processing of electromagnetic field surveys
- 14) Laura Njunnas (UVSQ): The effects of mother tongue teaching on the well-being of the Sámi people
- 15) Mirjam Paasch (GFZ): Influence of light and nutrient stress on glacier ice algae
- 16) Alexis Pognard (LATMOS/UVSQ/CNRS): Meteorological Measurements by Radiosonde



Thursday, 11 September 9 – 9:50h: Networking and exchange III

- 17) Moritz Rath (AWI): Long term radiation balance and permafrost temperatures in Bayelva, Svalbard
- 18) Kim Sander (GFZ): ?????
- 19) Luisa Malin Wassermann (Lund University): Environmental Changes in Icelandic Palsa Mires
- 20) Bo Zhang (GFZ): Remote Sensing for High-elevation Geohazards in Southeastern Tibet Plateau