

List of Topic 2 Talks 2020/21

for Fridays Seminar at 11am

27. November 2020: Mosaic: First results and questions, C. Haas (AWI)

29. January 2021: Ocean modelling at GEOMAR and AWI, A. Biastoch (GEOMAR) and S. Danilov (AWI)

26 February 2021: Solid Earth and Ice Sheets

1. The solid earth in the earth system, Volker Klemann (GFZ)
2. Evaluating ice sheet history for the past 80,000 years - are marine oxygen isotopes a reliable indicator of sea level? Evan Gowan (AWI)

26 March 2021: Observing the Atlantic Ocean Circulation from pole-to-pole: GEOMAR and AWI perspectives, T. Kanzow (AWI) and P. Brandt (GEOMAR)

07 May 2021: Observing Mass Change in System Earth with current and future Gravity Field Missions, F. Flechtner (GFZ) and I. Sasgen (AWI)

28 May 2021: The international GEOTRACES programme: Reliable trace element distributions in a changing ocean for reconstructing the past (part I) and for discovering future trends (part II), W. Geibert (AWI) and M. Frank (GEOMAR)

25 June 2021: Abrupt climate change

1. Abrupt Climate and Weather Changes Across Time Scales, G. Lohmann (AWI)
2. Decadal Atlantic Meridional Overturning Circulation (AMOC) slowing events in a climate model, M. Latif (GEOMAR)

24 September 2021: Digital Twins, T. Jung (AWI) and M. Visbeck (GEOMAR)

29 October 2021: Artificial Intelligence for Earth System Sciences

1. AI & Earth System Models - Hybrid AI- and physical based simulation models for improving process understanding, C. Irrgang (GFZ)
2. AI & Data Analysis and Prediction for Marine Big Data, W. Rath (GEOMAR)
3. AI Enablement - Cross-compartment data analytics for the AWIPEV observatory - a use case for Enabling AI, S. Frickenhaus (AWI)

List of Topic 2 Talks 2022

for Fridays Seminar at 11am

28 January 2022: The glacial Arctic Ocean as a freshwater basin - a controversial issue

1. Glacial episodes of a freshwater Arctic Ocean covered by a thick ice shelf, W. Geibert (AWI)

Original Nature Publication: <https://doi.org/10.1038/s41586-021-03186-y>

2. No freshwater-filled glacial Arctic Ocean, R. Spielhagen (GEOMAR)

Reply to Geibert, Matters arising, Nature: <https://rdcu.be/cGeGU>

Reply to Spielhagen, Matters arising, Nature: <https://rdcu.be/cGeHn>

25 February 2022: Arctic and Tropical Atlantic Climate Variability and Linkages to the Mid-latitudes

1. Changes in atmospheric circulation regimes over the North-Atlantic-Eurasian region and Arctic-midlatitude linkages, D. Handorf (AWI)
2. AMOC Impact on the Tropical Atlantic and Tropical Atlantic Climate Variability, J. Lübbecke (GEOMAR)

25 March 2022: Remote Sensing

1. Ice from Above: Satellite Remote Sensing - from Ice sheets to the Ocean, A. Humbert (AWI)
2. Water from Above: Radar Altimetry - from High Mountains to the Ocean, T. Schöne (GFZ)

20 May 2022: Land-ocean transport of organic carbon

1. What happens in natural river landscapes and under human interventions? D. Sachse (GFZ)
2. What happens at the land-ocean interface and the sea-floor? G. Mollenhauer (AWI)