

"Challenges for Earth System Modelling: The AWI-IUP perspective".

The AWI-IUP seminar will take place on June 24 at AWI, Glaskasten, Bussestr. 24, Bremerhaven.

This seminar shall focus on the current Challenges for Earth System Modelling as we face them from our perspectives. The talks and potential posters will bring scientists together to discuss ideas for research plans, open problems, and grand challenges. **You are invited to come.** Here is the preliminary agenda:

9:45 open start with coffee and tea etc.

10:00 talks (20 min+10 min discussion)

10:00 Losa et al., Recent advances in ocean biogeochemical modeling: towards synergy between models and in situ and satellite observations

10:30 Wieters et al., ESM-Tools – A tool for Earth System Modellers

11:00 Nerger and Tang, Flexible efficient ensemble data assimilation with the parallel data assimilation framework PDAF

11:30 Tang et al., Assimilation of satellite sea surface temperature and profile observations into a coupled ocean-atmosphere model

12:00-13:30 lunch at Mensa/canteen and poster session (coffee and tea)

13:30 Gier et al., CMIP6 Evaluation with the ESMValTool

14:00 Daskalakis et al., Challenges of atmospheric chemistry modelling

14:30 Lohmann et al., Questions arising from the paleoclimate records and climate phenomena on long time scales

15:00 end and open discussion (coffee and tea)

Posters:

Luisa von Albedyll: How much did deformation contribute to sea ice thickness growth in the North Greenland Polynya 2018?

Thomas Rackow: Involving new components like chemistry and land ice

Thomas Rackow, Stephan Juricke: Stochastic coupling

Juricke et al.: Improving ocean eddy activity: Kinetic energy backscatter in eddy-permitting global ocean models