

Titel:

Nudged climate model runs for MOSAiC

Abstract:

With this project, we aim to evaluate and improve the representation of key Arctic climate processes in coupled climate models using data from the year-long central Arctic Ocean drift campaign MOSAiC. To obtain model output that is comparable to observations, we nudge the atmospheric circulation in models against reanalysis. A pilot study has demonstrated that this allows to reproduce observed weather patterns at MOSAiC in coupled climate models on a day-to-day basis (<https://egusphere.copernicus.org/preprints/2022/egusphere-2022-706/>).