

## FESOM days agenda

**7.12.2020**

*Moderators:*

*9:00-11:00 Helge Goessling*

*11:00-13:00 Stephan Juricke.*

9:00	Thomas Jung	Introduction.
9:15	Dmitry Sidorenko	Preparing the FESOM2 roadmap.
9:30	Sergey Danilov	Plans for numerical part.
9:45	Break	
10:00	Gerrit Iohmann	Overview of AWI-ESM activities at the paleoclimate dynamics group
10:15	Paul Gierz	FESOM Developments from AWI-Paleodyn: Interactive coupling of ice sheets and iceberg interaction.
10:30	Pengyang Song	The effect of tide motions in FESOM2
10:45	Break	
11:00	Judith Hauck	Ocean biogeochemistry in FESOM-REcoM - Development and applications
11:30	Jan Streffing	Advances in AWICM3 coupling
11:45	Break	
12:00	Thomas Rackow	On the way to a coupled Digital Twin - DYAMOND simulations with IFS-FESOM2
12:15	Dmitry Sein	Extreme resolutions
12:30	Tido Semmler	AWI-CM in CMIP6 and CMIP7
12:45	Jan Hegewald	Asynchronous I/O -- FESOM six times faster
13:00	Lunch	
14:00	Discussion	Paleo oceanography/climatology, (moderator: Paul Gierz)
16:00	Discussion	Biogeochemistry (moderator: Judith Hauck)

## 8.12.2020

Moderators:

9:00-11:00 Jan Streffing

11:00-13:00 Claudia Hinrichs.

9:00	Patrick Scholz	New vertical geometric features implemented into FESOM2.0 (partial cells, floating sea ice, cavity)
9:15	Claudia Wekerle	Regional Ice-Ocean studies in the Arctic and Antarctic with FESOM (RIO)
9:30	Vera Fofonova	FESOM-C: seamless modelling across the scales
9:45	Break	
10:00	Patrick Scholz	The available vertical mixing parameterization in FESOM2.0
10:15	Stephan Juricke	Development of energetically consistent closures in FESOM2: Reducing model biases by improving physics
10:30	Lorenzo Zampieri	Icepack: a set of new sea-ice sub-grid parameterizations for FESOM2
10:45	Break	
11:00	Qiang Wang	Understanding Arctic changes by employing FESOM
11:15	Frank Kauker	Application of FESOM2 in the sea ice section: from process studies to seasonal predictions
11:30	Lars Nerger/Helge Goessling	Data assimilation developments with FESOM and PDAF
11:45	Break	
12:00	Natalja Rakowsky	FESOM - on the road to ExaScale
12:15	Dmitry Sidorenko	Online diagnostics
12:30	Nikolay Koldunov	Tools for data handling and visualization
12:45	Lunch	
14:00	Discussion	Link to ice sheet modelling (moderator: Claudia Wekerle)
16:00	Discussion	User friendliness and tools for data handling and visualization. (moderator: Nikolay Koldunov)