



Online ESM Workshop 2021

1-2 March 2021
Online

Monday, March 1st, 2021

Time	Session	Chair
10:30 – 11:15	Session I: Welcome and Introduction <ul style="list-style-type: none"> ESM: Overview and Updates – Thomas Jung, AWI (20min) JL-ExaESM – Martin Schultz, FZJ (15min) AG Großrechner – Daniela Jacob, GERICS (10min) 	<i>Thomas Jung (AWI)</i>
11:15 – 11:30	Coffee Break	
11:30 – 12:30	Session II: Project Highlights I <p>WP1: Earth System Model Development</p> <ul style="list-style-type: none"> ESM Tools (Miguel Andrés-Martinez, AWI) Aerosol interactions with ice clouds (Mattia Righi, DLR) <p>WP2: Earth System Data Assimilation</p> <ul style="list-style-type: none"> How can AI improve ESM? (Christopher Irrgang, Jan Saynisch-Wagner, Maik Thomas, GFZ) <p>WP3: Frontier Simulations</p> <ul style="list-style-type: none"> First results of atmospheric simulation on the ESM Partition (Domenico Taraborrelli, FZJ) Langrangian tracer transport in Asian Summer Monsoon (ASM) (Sabine Brinkop, DLR; contributions by FZJ) 	<i>Catrin Meyer (FZJ)</i>
12:30 – 13:30	Lunch	
13:30 – 15:00	Session III: Project Highlights II <p>WP1: Earth System Model Development</p> <ul style="list-style-type: none"> LPJ-GUESS/LSM: a land surface model for coupled ecosystem-climate experiments (David Martin Belda, KIT) The Flexible Ocean and Climate Infrastructure – FOCI (Sebastian Wahl, GEOMAR) Seamless Modelling with ICON-ART (Peter Braesike, KIT) <p>WP2: Earth System Data Assimilation</p> <ul style="list-style-type: none"> s (Harrie-Jan Hendrick-Franssen, Ching-Pui Hungm Johannes Keller, Stefan Poll, Stefan Kollet, FZJ; Tobias Finn, Uni Hamburg; Shaoning Lv, Uni Bonn) Impacts of the data assimilation in the coupled model system on volume and heat budget estimates for the North Sea (W. Chen, J. Schulz-Stelleneth, S. Grayek, and J. Staneva, HZG) <p>WP3: Frontier Simulations</p> <ul style="list-style-type: none"> Modelling of subsurface systems (solid earth) in ESM - improvement in the resolved physics coupling and uncertainties quantification via AI methods (Mauro Cacace, D. Degen, Leni Scheck-Wenderoth, GFZ) Terrestrial Frontier Simulations (Carina Furusho Percot, Carl Hartick, FZJ) 	<i>Stefan Kollet (FZJ)</i>

	<ul style="list-style-type: none"> Virtual Campaigns - MOSES Müglitz (Olaf Kolditz, UFZ) / Frontier Simulations with mHM (Luis Samaniego, UFZ) <p>WP5 – Earth System Model Diagnosis</p> <ul style="list-style-type: none"> Virtual field campaigns (Survachal Cheedela, AWI) 	
15:00 – 15:30	Coffee Break	
15:30 – 17:00	<p>Breakout Sessions I</p> <p><i>Guiding questions: What worked well? Where did we fall short? What will be the next steps? Where shall we put priorities? Where can we make a difference through collaboration? What should be the role of ESM in PoF-IV?</i></p> <ul style="list-style-type: none"> WP1: Earth System Model Development WP2: Earth System Data Assimilation WP3: Frontier Simulations WP4: Strategic Development (incl. national strategy) WP5: Earth System Model Diagnosis 	<i>WP and TT leads</i>
17:00 – 17:15	Conclusion Day 1	<i>Thomas Jung (AWI)</i>
17:15 – 18:15	Icebreaker	

Tuesday, March 2nd 2021

Time	Session	Chair
9:00 – 10:00	<p>Breakout Sessions II</p> <p>Continued from day 1.</p>	<i>WP and TT leads</i>
10:00 – 10:30	Coffee Break	
10:30 – 11:30	<p>Report from Breakout Sessions</p> <ul style="list-style-type: none"> WP1: Earth System Model Development WP2: Earth System Data Assimilation WP3: Frontier Simulations WP4: Strategic Development WP5: Earth System Model Diagnosis 	<i>Leni Scheck-Wenderoth (GFZ)</i>
11:30 – 11:45	Final Discussion and Closure	<i>Thomas Jung (AWI)</i>
11:45 – 12:00	Health Break	
12:00 – 13:00	ESM Steering Group Meeting (closed session)	