

OCEAN MODEL WINTER WORKING GROUP MEETING

February 2025

Thursday, February 27th * All times are MST; Speakers: please leave 3 min at the end of your slot for questions.

Time	Торіс	Speakers

09:00	Welcome and Logistics	Co-chairs
09:15	Sources of the Arctic Atlantic Water biases in CESM2	Who Kim
09:40	High-Resolution Simulations with the Community Earth System Model (CESM): An Update	Fred Castruccio
10:05	A comparative study of upper ocean heat and salinity budgets	Justin Small
10:30	BREAK	
11:00	Impact of Freshwater in the East Greenland Current on Overturning in the Subpolar North Atlantic	Margarita Markina
12:00	LUNCH BREAK	
13:00	Modelling Vertical Diffusivity for the Ocean Surface Boundary Layer Using Machine Learning	Aakash Sane
13:25	Physics-constrained neural-network parameterization of mesoscale eddies in a global ocean model	Pavel Perezhogin
13:50	Air-sea flux parameterization and uncertainty quantification with a data-driven approach	Jiarong Wu
14:15	BREAK	
14:30	What is driving the Chl-a anomalies in the Southern Ocean?	Gian Giacomo
14:55	Simulating marine ecosystem dynamics and biogeochemical cycling with multiple plankton functional types	Jun Yu
15:20	Implementation of Artificial Radionuclides in CESM2: Model Evaluation Using Historical Cesium and Plutonium Distributions	Kazuhiro Misumi
15:45	BREAK	
16:00	Simulating Past Climates with CESM3-MOM6: The Last Glacial Maximum and Beyond	Jiang Zhu
16:25	Summary of CESM-MOM6 development survey	Co-chairs
16:50	ADJOURN	
17:00	Happy Hour at Southern Sun	

Friday, February 28th * All times are MST; Speakers: please leave 3 min at the end of your slot for questions.

Time	Торіс	Speakers
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08:50	Welcome and Logistics	Co-chairs
09:00	Development and Evaluation of a High-Resolution Pan-Arctic Ocean-Sea Ice Coupled Model Using MOM6: Insights from Zstar and Hybrid Coordinate System	Mehmet Ilicak
09:25	Regional MOM6 in CESM: Progress, new capabilities, and next steps	Dan Amrhein
09:50	Regional MOM6 in CESM: New Setup Software, User Experience, & Open Development	Manish Venumuddula
10:15	BREAK	
10:30	Representation of surface mixed-layer eddies affects the large-scale ventilation of the global ocean	Abigail Bodner
10:55	Isopycnal tracer mixing via an energy backscatter parameterization	Matt Pudig
11:20	A weighted essentially non-oscillatory tracer advection scheme in MOM6	Yao Gahounzo
11:45	Designing a HYCOM1 grid for CESM-MOM6	lan Grooms
12:10	LUNCH BREAK	
13:00	CMIP7 ocean data request process & outcomes	Baylor Fox-Kemper
13:25	Progress toward GFDL's OM5 global ocean configuration	Robert Hallberg
13:50	Status of the ocean component in CESM3	Gustavo Marques
14:15	Discussion – OMWG Plans for CESM3.0 and Beyond	Co-chairs
14:45	ADJOURN	