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	Topic	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		

Friday, February 28th
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Time	Topic	Speakers
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	
16:00	Unofficial gathering at Southern Sun Brew Pub	