



## 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
<b>09:00</b>	<b>Welcome and Logistics</b>	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
<b>10:30</b>	<b>BREAK</b>	
11:00	Impact of Freshwater in the East Greenland Current on Overturning in the Subpolar North Atlantic	Margarita Markina
<b>12:00</b>	<b>LUNCH BREAK</b>	
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
<b>14:15</b>	<b>BREAK</b>	
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
<b>15:45</b>	<b>BREAK</b>	
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
<b>16:50</b>	<b>ADJOURN</b>	
<b>17:00</b>	<b>Happy Hour at Southern Sun</b>	

