

Ocean Model Working Group

30th Annual CESM Workshop
June 10th, 2025

Tuesday, June 10th 1:00PM to 3:00PM

* All times are MDT; **Speakers:** Allow 15 minutes total including talk, Q&A, and transition. Aim for 10-12 min. for the talk and 3-5 minutes for Q&A and transition..

Time	Topic	Speakers
1:00	Introduction	Grooms & Marques
1:05	Evolving Southern Ocean overturning in warming climates	Tingting Zhu
1:20	Evaluating Southern Ocean Heat Uptake in High- and Low-Resolution Climate Models	Antony Thomas
1:35	To eddy resolve or not to eddy resolve: Do we need high resolution ocean models to adequately simulate marine heatwaves in the Northwest Atlantic?	Rudradutt Thaker
1:50	CESM has more subpolar North Atlantic water mass transformation than other ocean models	Taydra Low
2:05	Process Oriented Diagnostics for North Atlantic Ocean model biases	Elizabeth Maroon
2:20	TheoryWaves in CESM3	Paul Hall
2:35	Phytoplankton response under SAI differs due to upgrading MARBL configuration from 3p1z to 4p2z	Joshua Coupe
2:50	Discussion	Marques & Grooms

Posters

	Projected Changes of Kuroshio in a Warming Climate	Yu-heng Tseng
	Implementation of Artificial Radionuclides (ARs) in CESM2: Model Evaluation Using Historical 137Cs and 239+240Pu Distributions	Kazuhiro Misumi
	Convolution Based Self Attraction and Loading in MOM6	Anthony Chen
	Advancing the Taiwan Earth System Model (TaiESM) through Coupled 1-D SIT Model for Improved MJO Simulation	Chia-Ying Tu