

CESM OCEAN MODEL WORKING GROUP MEETING

25-27 January 2022

Tuesday, January 25

** All times are MST*

Time	Topic	Speakers
9:15	Virtual coffee	
9:25	Welcome and logistics	Co-chairs
9:30	Changes to exchange across the Southwest Greenland shelf break in response to surface and vertically distributed meltwater forcings in a mesoscale-eddy resolving ocean model	Theresa Morrison
9:55	Importance of the Antarctic Slope Current in the Southern Ocean Response to Ice Sheet Melt and Wind Stress Change	Rebecca Beadling
10:20	Effects of deterministic and stochastic corrections to the hydrostatic pressure gradient force in 2/3-degree MOM6	Ian Grooms
10:45	Evaluating simulated along-isopycnal stirring using microstructure	Deepak Cherian
11:10	BREAK	
13:00	Groundwork for incorporating enthalpy fluxes in CESM/MOM6	Gustavo Marques
13:25	A dynamic vertical grid for the optimal resolution of baroclinic modes in ALE ocean models	Scott Bachman
13:50	MOM6 diagnostic consistency on non-native grids	Keith Lindsay
14:15	Follow-up questions and open discussion	
15:00	ADJOURN	

Wednesday, January 26

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Time	Topic	Speakers
9:15	Virtual Coffee and welcome	Co-chairs
9:20	Decadal Prediction Using High Resolution CESM	Steve Yeager
9:45	Role of ocean and atmosphere variability in scale-dependent thermodynamic air-sea interactions	Lucas Laurindo
10:10	How well do forced ocean-sea-ice experiments represent variability in eastern boundary upwelling?	R. Justin Small
10:35	Impact of parameterized submesoscales in a 54-year high-resolution forced ocean sea-ice experiment	Sanjiv Ramachandran
11:00	Diabatic Upwelling in the Tropical Pacific: Seasonal and sub-seasonal variability	Anna-Lena Deppenmeier
11:25	BREAK	
13:00	Climatic reach of small-scale ocean turbulence	Ali Mashayek
13:25	Developments in Wave Modeling within CESM	Paul Hall
13:50	Abandoning implicit down-gradient viscosity in the MOM6 boundary layer.	William Large
14:15	Improving tides in MOM6	He Wang
14:40	Recent developments with the Regional MOM6 model	Enrique Curchitser
15:05	Follow-up questions and open discussion	
15:30	ADJOURN	

Thursday, January 27

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Time	Topic	Speakers
9:15	Virtual Coffee and welcome	Co-chairs
9:20	The future of ocean modelling: fast, cheap & turbulent!	Dion Häfner
9:45	Ocean hindcast sensitivity to improved hydrologic representation	Matthew Harrison
10:10	Anthropogenic climate change drives non-stationary phytoplankton variance	Genevieve Elsworth
10:35	Ocean biogeochemical signatures of the North Pacific Blob	Samuel Mogen
11:00	Ensemble Variations in Ocean Heat Uptake and Thermosteric Sea Level Rise: An Emergent Constraint Approach with Regional Mixed Layer Depths	Baylor Fox-Kemper
11:25	Follow-up questions and open discussion	
11:45	ADJOURN	