

**CESM Ocean Model Working Group Meeting**  
**16 – 17 January 2014**  
**Mesa Lab, Main Seminar Room**  
**National Center for Atmospheric Research – Boulder, Colorado**

*Webcast: [www.fin.ucar.edu/it/mms/ml-live.htm](http://www.fin.ucar.edu/it/mms/ml-live.htm)*

**Thursday, 16 January**

08:00	<i>Coffee</i>	
08:30	Welcome and Meeting Overview	Co-chairs
<b>UPDATES and DEVELOPMENTS</b>		
08:40	CESM update	Marika Holland
09:00	Large ensemble simulations	Jen Kay
09:15	POP2 developments	Matthew Hecht
09:30	WaveWatch III and anisotropic GM	Baylor Fox-Kemper
09:55	Southern Ocean biases	Matthew Long
10:20	<i>Break</i>	
10:50	CVMix: A modular vertical mixing framework	Mike Levy
11:10	A simple coupler scheme for diurnal cycling in the upper ocean	Bill Large
11:25	Parameterizing ocean mixing close to the equator	Kelvin Richards
11:50	Characterizations of ocean turbulence for tidal energy applications	Katherine McCaffrey
12:15	Discussion	
12:30	<i>Lunch (on your own)</i>	
13:30	Tropical and South Atlantic biases	Justin Small
13:55	Modeling activities at University of Copenhagen	Markus Jochum
14:10	MPAS-O: Progress and outlook	Todd Ringler, Mark Petersen, Doug Jacobsen
14:50	Discussion	
<b>MISCELLANEOUS</b>		
15:05	AMOC in CORE-II	Gokhan Danabasoglu
15:30	<i>Break</i>	
16:00	Arctic Ocean circulation and exchanges with the North Atlantic/ Pacific Oceans from RASM	Wieslaw Maslowski
16:25	Pacific Decadal Variability in CCSM	Wilbert Weijer
16:50	General discussion	
17:30	<i>Adjourn</i>	
18:15	<i>Dinner (on your own)</i>	

## Friday, 17 January

08:00 *Coffee*

08:30 Spinup in CESM with CAM5 and discussion

Cecile Hannay

### ***BIOGEOCHEMISTRY***

09:00 Fast spinup of tracers

Keith Lindsay

09:25 Ventilation of oxygen minimum zones

Keith Moore

09:50 Observing multi-decadal trends in Southern Ocean CO<sub>2</sub> uptake:  
What can we learn from CESM?

Nikki Lovenduski

10:15 *Break*

10:45 Ocean acidification feedback to the calcium carbonate cycle

Shanlin Wang

11:10 Simulation of <sup>137</sup>Cs activities off the Fukushima coast

Kazuhiro Misumi

11:35 Discussion

12:00 *Lunch (on your own)*

13:00 A new approach to the analysis of energy transfer across scales

Hussein Aluie, Matthew Hecht

### ***DATA ASSIMILATION***

13:25 Ocean data assimilation at LANL

Balu Nadiga

13:50 Recent developments in ocean data assimilation at NCAR

Steve Yeager

14:05 Coupled data assimilation with CESM – DART

Abhishek Chatterjee

14:30 General discussion and wrap-up

- Suggestions and concerns

- Near-term priorities

- New ideas and developments

- ...

15:00 *Adjourn*