

## CESM PALEOCLIMATE WINTER WORKING GROUP MEETING

### — Discussion Sessions on CESM Capabilities, Advancements, and Opportunities for Paleoclimate Research

Friday, February 24, 2023

\* All times are MST; **Speakers:** please leave 3 min at the end of your slot for questions.

Time	Topic	Invited Speakers
8:00–8:05	<i>Welcome and Opening Remarks</i>	Co-chairs
<b>Session 1: High and Variable-Resolution Modeling (Lead: Bette Otto-Bliesner)</b>		
8:05–8:20	Some Intriguing Results from High-Resolution CESM Simulations and New Opportunities	Ping Chang
8:20–8:35	Opportunities for Using VR-CESM in Paleoclimate Research	Sophia Macarewicz
8:35–8:55	Discussion	
8:55–9:00	<i>Break</i>	
<b>Session 2: Water Isotope Modeling (Lead: Ran Feng)</b>		
9:00–9:15	Beyond iCESM1: The Latest Model Developments and Roadblocks for Improving Water Isotope Simulations at NCAR	Jesse Nusbaumer
9:15–9:30	The Response of East Asian Monsoon to the Precessional Cycle: A New Study Using the Geophysical Fluid Dynamics Laboratory Model	Jung-Eun Lee
9:30–9:50	Discussion	
9:50–10:00	<i>Break</i>	
<b>Session 3: Vegetation Modeling (Lead: Sophia Macarewicz)</b>		
10:00–10:15	Climate-Vegetation Feedbacks in a High-CO <sub>2</sub> World: Past & Future	Jennifer Kowalczyk
10:15–10:30	Forest Ecosystem Modeling: From Theory and Development to Calibration and Testing	Adrianna Foster
10:30–10:50	Discussion	
10:50–11:00	<i>Break</i>	
<b>Session 4: Ocean Biogeochemical Modeling (Lead: Jiang Zhu)</b>		
11:00–11:15	Modeling of the Ocean BGC at the K–Pg Boundary	Josh Coupe
11:15–11:30	Update of BGC and the Fast Spin-up Method in CESM	Keith Lindsay
11:30–11:50	Discussion	
11:50–12:00	<i>Break</i>	
<b>12:00–12:15</b>	<b><i>Special Session: Organizing and Sharing WG and Community Resources</i></b>	Esther Brady
12:15–12:30	Wrap-up Discussion	