

CESM Biogeochemistry Model WINTER WORKING GROUP MEETING February 8, 2023

CESM Land Model / Biogeochemistry Model Wednesday, February 8

** All times are MST; **Speakers:** please leave 5 min at the end of your slot for questions.*

Time	Topic	Speakers
Mesa Lab Main Seminar Room & Hybrid		
	Land Biogeochemistry	
8:30	Welcome	Co-Chairs
8:35	Quantifying the Influence of Plant Stomatal Behavior on Photosynthesis in the Amazon	Amy Liu
8:50	A long-term contiguous vegetation index product	Jianing Fang
9:05	Flexible foliar stoichiometry reduces the magnitude of the land C sink	Emma Hauser
9:20	Land Surface Impacts from a Plausible Global Forestation Scenario	James A. King
9:35	Exploration of a novel carbon dioxide removal option: lighting up tropical forests at night	Xueyuan Gao
9:50	Break	
10:20	Much of the zero emissions commitment occurs before reaching net zero emissions	Charlie Koven
10:35	Temperature response of nitrogen fixation: A model intercomparison project incorporating physiological measurements into land models	Thomas Bytnerowicz
10:50	Advancing Understanding of Plant-Drought Responses in North American Ecosystems using Carbon Isotopic Discrimination in the Simple Biosphere Model	Aleya Kaushik
11:05	Responses of ecosystem productivity to aerosols across India: a double-edged sword in climate change	Manoj Hari
11:20	Fast Spin Up of Components of an Earth System Model	Keith Lindsay
11:35	Simulating terrestrial DOC production and export with CTSM	Marius Lambert
11:50	Discussion	
12:00	Lunch (on your own)	

Wednesday, February 8 (Joint with Ocean Model Working Group)

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Time	Topic	Speakers
Mesa Lab Main Seminar Room and Hybrid		
13:30	Reduced CO ₂ uptake and nutrient sequestration from slowing overturning circulation	Yi Liu
13:45	Ecosystem composition and biogeochemical cycles: Community Earth System Model Simulations with multiple plankton functional types	Jun Yu
14:00	Title ? (phytoplankton group specific, fully variable C:N:P:Fe:Si)	Nicola Wiseman
14:15	Break	
14:30	Implementing a satellite emulator in CESM2 to evaluate the impact of clouds on ocean chlorophyll observations	Genevieve Clow
14:45	Skillful predictions of ecosystem stressors in the surface and subsurface ocean	Samuel Mogen
15:00	Wrap-up Discussion	
15:20	ADJOURN	