

CESM Joint Societal Dimensions and
Land Model Working Group Meeting
8 – 9 February 2016
National Center for Atmospheric Research – Boulder, Colorado
Center Green Auditorium

>>>> Webcast: www.fin.ucar.edu/it/mms/cg-live.htm <<<<<

MONDAY, 8 February

8:00 *Coffee*
8:30 Welcome and Introductions

Mitigation-related talks

8:40	Investigating climate stabilization scenarios using ESM, EMIC, and IAMs: An introduction of our activity in Program for Risk Information on Climate Change	Kaoru Tachiiri
9:00	Can we bet on negative emissions to achieve the 2°C target even under strong carbon cycle feedbacks?	Katsumasa Tanaka
9:20	Beyond RCPs: Mitigation options to avoid severe climate change	Ben Sanderson
9:40	Climate outcome of combined mitigation and geoengineering scenarios between 2040 and 2200	Simone Tilmes
10:00	<i>Continental breakfast</i>	
10:30	A probabilistic analysis of cumulative carbon emissions and long-term planetary warming	Jeremy Fyke
10:50	Evaluation of long-term bioenergy penetration considering uncertainties in allowable carbon emissions and technology	Diego Silva Herran

Methods-related talks

11:10	The use of Community Earth System Model output in human dimensions climate work	Emily Laidlaw
11:30	Pattern scaling: A recent development in larger plans	Claudia Tebaldi
11:50	Bidirectional coupling of earth system models with social science models: New motivations and a proposed path	John T. Murphy
12:10	<i>Lunch (on your own)</i>	

Impacts-related talks

1:30	Update on and next steps for the Benefits of Reduced Anthropogenic Climate Change (BRACE) project	Brian O'Neill
1:40	Increasing risk of record-breaking summer temperatures under global warming and the potential for mitigation	Flavio Lehner
2:00	The potential impacts of 21 st century climatic and population changes on human exposure to the virus vector mosquito <i>Aedes aegypti</i>	Andy Monaghan
2:20	Consequence of climate mitigation on the risk of hunger	Tomoko Hasegawa
2:40	<i>Break</i>	
3:10	Collaborative research to support civil engineering	Chris Anderson
3:30	Climate change information dashboards for water managers	Caspar Ammann

Computing projects

3:30	Current projects and SDWG proposal process	Co-chairs
4:00	Update and outlook for new computing proposals	Jean-François Lamarque
4:10	Discussion about computing projects	
4:30	Working group business / wrap-up discussions	
5:00	<i>Adjourn</i>	

TUESDAY, 9 February

Joint Land Model, Biogeochemistry, and Societal Dimensions Working Groups

8:00 *Coffee*

8:30 Welcome and Introduction

Co-chairs

Crops, wood harvest, and land use

8:35 Using the CLM Crop Model to assess the impacts of changes in climate, atmospheric CO₂, irrigation, fertilizer, and geographic distribution on historical and future crop yields Peter Lawrence

8:50 Simulating the United States county level crop yields in Community Land Model with an optimized fertilizer scheme Guoyong Leng

9:05 Winter wheat in CLM4.5 Yaqiong Lu

9:20 Modeling the interaction between climate and timber harvest: A fully coupled approach Matt Sloggy

9:35 Deforestation and peatland fires in Rupert Island Hut Prayato

9:50 Discussion

10:00 *Continental Breakfast*

10:30 Evaluating the need for integrated land use and land cover analysis for robust assessment of climate adaptation and mitigation strategies Alan DiVittorio

10:45 Threshold behavior in surface response to afforestation Marysa Lague

11:00 Discussion

CESM1.2

11:10 Results from CESM1.2 BGC simulations

Keith Lindsay

11:30 Discussion

11:45 *Lunch (on your own)*

CLM5 Description and Assessment

1:00 State of CLM

David Lawrence

1:20 Hydrology

Sean Swenson

1:35 Validating MOSART in CLM5 Beta in comparison with ACME-MOSART

Hongyi Li

1:50 Snow metric and snow analysis

Andrew Slater

2:05 Climate simulations with respect to land cover change in CLM45 and CLM50

Liang Chen

2:20 Revisions to land cover dataset

Peter Lawrence

2:30 Discussion

2:50 *Break*

3:20 FACE, ED update

Rosie Fisher

3:40 Nitrogen

Will Wieder

4:00 Soil Carbon

Charles Koven

4:15 PFT-level analysis and crop model assessment

Danica Lombardozzi

4:30 Dynamic root impacts on productivity and evapotranspiration

Beth Drewniak

4:45 Plant hydraulics

Daniel Kennedy

5:00 Discussion

5:30 *Adjourn*