

CESM Societal Dimensions Working Group Meeting
28 February – 1 March 2017
EOL Atrium
National Center for Atmospheric Research – Boulder, Colorado

Webcast Instructions:

AUDIO: Dial this access number: 1-866-740-1260 – Enter access code **4971358**
VIDEO: Go to www.readytalk.com; under “join a meeting” enter access code **4971358**

TUESDAY, 28 February – EOL Atrium

8:00 *Coffee*

8:30 Welcome and Introductions

Co-chairs

Modeling climate change impacts

8:40 Uncertain climate change impacts on global energy consumption

Bas Van Ruijven

9:00 Applying comprehensive Earth system forecasts for climate change to inform conservation planning of the East African Great Lakes

Salvi Asefi-Najafabady

9:20 Incorporating decadal predictions into water management decisions

Erin Towler

9:40 Project Sim-turtle: Biophysical interactions in the mesoscale

Cheryl Harrison

10:00 *Continental Breakfast*

Achieving climate targets

10:30 Results from NCAR’s simulations for the IPCC 1.5 degree report

Ben Sanderson

10:50 Is 1.5 just three quarters of 2?

Claudia Tebaldi

11:10 Large ensemble of geoengineering simulations

Yaga Richter

SDWG-related projects

11:30 Global initiative for integrative modeling of human and Earth Systems

Michael Barton

11:50 Beyond BRACE: A new activity for the NCAR Climate and Human Systems Project

Brian O’Neill

12:10 *Lunch (on your own)*

SDWG-related projects (continued)

1:30 The Climate Change Impacts and Risk Analysis (CIRA) project

Jeremy Martinich

Model Evaluation and use in the Water Resource Management

1:50 EaSM-VSA – Successful coproduction in water management and climate science

Lurna Kaatz

2:10 EaSM-VSA – Challenges in regional verification of climate variability projections and predictions

Barbara Brown

2:30 EaSM-VSA – Evaluation of multi-year drought capabilities of the CESM Large-Ensemble using MODE

Abayomi Abatan

2:50 *Break*

Computing projects: Overview and project updates from project PIS

3:30 Overview, process, rules

Co-chair

3:35 THESIS and applied projects

Peter Lawrence

3:40 Gross vs net land use

Peter Lawrence

3:45 iESM: Historical landuse

Alan DiVittorio

3:50 Global land use decisions

Deborah Lawrence

3:55 Geoengineering

Simone Tilmes

4:00 Regional climate downscaling

Guiling Wang

4:05 Update on computing time for Scenario MIP

Susan Bates

4:10 Discussion

CESM diagnostics and future plans

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| 4:20 | EaSM-VSA - Strategies for getting application-relevant diagnostics into CESM Diagnostics | Caspar Ammann |
| 4:40 | THESIS update and Breckenridge plans | Brian O'Neill |
| 5:00 | Working group business/wrap-up discussion | |
| 5:15 | Adjourn (Optional group dinner to follow meeting) | |

Wednesday, 1 March – FL2-1022

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

Joint Land Model, Biogeochemistry, and Societal Dimensions Working Groups

8:00 *Coffee*

CLM5 Updates

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| 8:30 | State of CLM | Dave Lawrence |
| 9:00 | Defining the CLM5 structure and parameters | Rosie Fisher |
| 9:20 | Lessons learned from the CLM5 parameter calibration adventure | Ben Sanderson |

Agriculture and Land Use

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| 9:40 | Historical land use and land cover change in CLM5 for CMIP6 | Peter Lawrence |
| 10:00 | Discussion | |
| 10:10 | <i>Continental Breakfast</i> | |
| 10:40 | Crops in CLM5 | Danica Lombardozzi |
| 10:55 | Irrigation and plant hydraulic stress updates | Sean Swenson |
| 11:10 | Spring wheat responses to elevated CO2 and interactions with irrigation and nitrogen fertilization in the Community Land Model: From version 4.5 to 5 | Yaqiong Lu |
| 11:25 | Improving the maize growth processes in the CLM: Implementation and evaluation | K. Guan / B. Peng |
| 11:45 | Land cover uncertainty generates substantial uncertainty in earth system model carbon and climate projections | Alan DiVittorio |
| 12:00 | Quantifying impacts of land-use and land cover change in a changing climate at the regional scale using an integrated Earth system modeling approach | Maoyi Huang |
| 12:15 | <i>Lunch (on your own)</i> | |

**MEETING MOVES TO CENTER GREEN CAMPUS FOR
AFTERNOON JOINT SESSION**