CESM Societal Dimensions Working Group Meeting
19 – 20 February 2013
National Center for Atmospheric Research – Boulder, Colorado
Mesa Lab – Main Seminar Room

TUESDAY, 19 February

Plenary - Water
8:30 Co-chairs – Welcome and introduction
8:40 Marika Holland – CESM Chief Scientist: CESM status and development trajectory
9:00 Levi Brekke – Climate projections for water resources and environmental planning
9:20 Alison Adams – Water utilities and climate change
9:40 Ruby Leung – Modeling the integrated water cycle in CESM

Plenary - IAM
10:30 Allison Thomson – The role of future agricultural productivity assumptions in integrated assessment model projections of land use change
10:50 Xiaolin Ren – Climate impact on land use distribution
11:10 Avery Cohn – Modeling the land and GHG effects of land sparing interventions: The case of cattle ranching intensification in Brazil
11:30 Kate Calvin – The Latin American Modeling Project

Parallel Session I: Integrated Earth System Model (iesm) – Main Seminar Room
1:30 Bill Collins – iESM code plans
1:50 John Truesdale – iESM code demo
2:05 Peter Lawrence / Allison Thomson – Report back from presentation of iESM to the Integrated Assessment Modeling Consortium (IAMC)

Parallel Session II: Water Focus – Damon Room
1:30 Discussion: SDWG – Water research plan (including SDWG assessment of CESM code / data developments)
2:15 Discussion: SDWG – Water directions and projects

Plenary – Main Seminar Room
3:30 CGD Seminar – Tom Hertel: Climate adaptation as mitigation: Agricultural productivity, global land use, and GHG emissions

4:45 Co-chairs – Options for WG activity on land use and water. IAM and SDWG morning discussion summaries

5:00 Discussion and next steps
WEDNESDAY, 20 February

Parallel Session 1: Land Use – Joint with Land Model Working Group – Main Seminar Room

8:30 Brian O’Neill – Intro to joint session
8:40 Andrew Jones – Toward a more consistent treatment of land-use change within climate assessment
9:00 Prasanth Meiyappan – A spatial downscaling procedure for allocating agricultural land-use change
9:20 Alan Di Vittorio – Understanding the influence of averaging CLM output within agro-ecological zones on GCAM land use distribution estimates in the iESM
9:40 Beth Drewniak – Assessing the impacts of a new planting date scheme on crop productivity and yield in CLM-Crop
10:30 Erwan Monier – An agriculture module for CLM
10:50 Lara Kueppers – Effects of dynamic crop growth and irrigation on surface energy partitioning and climate over the continental U.S. using WRF-CLM
11:10 Response to SSC request: Plans for and process of component model development and assessment

Parallel Session 2: SDWG – Water / CORDEX Joint Session – Chapman Room

8:30 Bill Gutowski – Introduction, NA-CORDEX structure, relation to CESM / SDWG and goals of this meeting
     David Behar – WCRP working group on regional climate – wcrp.ipsl.jussieu.fr/regionalclimate/background.html
9:00 Gerry Hatfield – Ag sector needs from global and regional climate science
9:20 Ammann / Kaatz – Usable Climate Science for Society
9:40 Linda Mearns – Science priorities – Strawdog science questions
10:40 David Behar – Applications priorities
11:00 Applications discussion
11:10 Joseph Barsugli – Services priorities
11:20 Services discussion
11:30 Open discussion

1:30 Guided Discussion I – Bill Gutowski, Linda Mearns, David Behar, Joe Barsugli
     ▪ Developing the simulation plan and Coordination with ongoing NA CORDEX-like activities
     Break

3:20 Guided Discussion II
     ▪ Developing the analysis plan
     ▪ Developing the archival and data access plan – ESGF & CMIP lessons
4:30 Moving forward
     ▪ Implementation and agency support, Integration with CESM – SDWG efforts

5:30 Adjourn