CESM Polar Climate Working Group Meeting
11 – 13 February 2013
National Center for Atmospheric Research –Mesa Lab
Boulder, Colorado

MONDAY, 11 February – Damon Room

Antarctic Science
1:00 Co-chairs welcome and logistics
1:10 Cecilia Bitz – Antarctic sea ice trends
1:35 David Schneider – Antarctic sea ice datasets
2:00 Marika Holland – Antarctic sea ice predictability

High Resolution and Coupling
3:45 Dave Bailey – High resolution runs with CESM
4:00 Julie McClean – High resolution runs with CESM using CORE forcing
4:15 Andrew Roberts – High resolution runs with RASM

TUESDAY, 12 February – Chapman Room

CICE Development
9:00 Elizabeth Hunke – CICE 5.0 overview
9:15 Ute Herzfeld – Ice deformation in Fram Strait – Comparison of CICE simulations with analysis and classification of airborne remote-sensing data
9:40 Adrian Turner – Two modes of sea-ice gravity drainage: A parameterization for large-scale modeling
10:30 Scott Elliott – Biogeochemistry in the upcoming CICE release
10:55 Nicole Jeffrey – Modeling biogeochemistry in the ice interior: The CICE release and beyond

Joint Session - Main Seminar Room
1:15 AMWG co-chair update
1:30 PCWG co-chair update
1:45 WAWG co-chair update
2:00 CCWG co-chair update
2:15 Mariana Vertenstein – Yellowstone update
2:30 Lorenzo Polvani – Stratospheric ozone and Antarctic sea ice trends

DAMON ROOM

Arctic Science
3:45 Laura Landrum – The effects of seasonally ice-free Arctic on the AMOC
4:10 Alex Jahn – Implications of Arctic sea ice changes for North Atlantic deep convection and the meridional overturning circulation in CCSM4-CMIP5 simulations
4:35 Jeremy Fyke / Miren Vizcaino – LIWG Update
Joint Session: (PCWG / AMWG)

9:00  Melissa Burt – Arctic Clouds in superparameterized CESM
9:15  Xiahong Liu – Formulation of ice nucleation parameterizations in mixed-phase clouds
9:30  Jason English – Impacts of CAM5 cloud microphysics on Arctic clouds and radiation
9:45  Neil Barton – An evaluation of Arctic surface temperature in hind-cast and AMIP runs in CAM4 and CAM5
10:00 Qiong Yang/Sarah Doherty/Cecilia Bitz – Climate response and radiative forcing for each aerosol species in CESM prescribed from NCAR and Harvard concentrations
10:15 Jessica Liptak – The winter sea ice – atmosphere feedback over the Barents Sea

Radiation and Clouds

10:50 Dave Mitchell – Improving the Ice Optics in CAM5: Treatment of the asymmetry parameter
11:05 Zhang Kai – Sub-grid vertical velocity in cirrus clouds and its impact on ice nucleation: evaluation of CAM5 against aircraft measurements and inter-comparison with ECHAM5-HAM2
11:20 Travis O’Brien – Observed Scaling in Clouds and Precipitation and Scale Incognizance in Regional to Global Atmospheric Models