

# 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

## WEDNESDAY, 13 February – DAMON ROOM

### 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