Polar Climate Working Group
Feb 28-March 1
CCSM4 J. Climate Special Issue

- 5 PCWG Contributions
- Initial drafts due in March, submission by May 1
- CCSM4 IPCC Run output released in May

- The Arctic atmospheric simulation of CCSM4. de Boer, Chapman, Kay, Vavrus, Walsh
- Late 20\textsuperscript{th} Century simulation of Arctic sea ice and ocean. Jahn, Sterling, Holland, Kay, Maslanik, Bitz, Bailey, Hunke, Lipscomb, Pollak, Stroeve
- 20th/21st century Arctic climate change in CCSM4. Vavrus, Bailey, Holland, Jahn, Kay, Maslanik
- Antarctic sea ice variability and change in CCSM4. Landrum, Holland, Schneider Hunke
CESM J. Climate Special Issue

- Drafts by June 1
- Papers submitted by August 1
- CAM5 papers
- Ocean/Land BGC papers - Carbon cycle
- Chemistry
- WACCM
- Land Ice
CCSM4 IPCC Run output

• PI (Year=1850) Control Run
• 6 - 20\textsuperscript{th} Century (1850-2005) Ensemble Members
• 5 - RCP8.5 Ensemble Members
• 5 - RCP4.5 Ensemble Members
• 5 - RCP2.6 Ensemble Members
• A single ensemble member (MOAR) from each run has daily output from each component model
PCWG CSL Request

• For April 1, 2011 – June 30, 2012
• Development:
  – General ice model improvements (ponds, snow, salinity)
  – Ocean freshwater tracers
  – Arctic BGC
  – Sea ice heterogeneity CPT
• Production
  – Freshwater studies (tracers, changing ice melt, snow)
  – Arctic Ocean BGC
  – Ice-atmosphere coupling
  – Atmospheric response to ice loss
  – Predictability
  – Contribution (6) to 30-member ensemble for 2005-2034