

CCSM Summer 07 Workshop Notes

CAM4 Outline

- Very Likely...
 - Neale (entraining CAPE) + Richter CMT = CAM3.5 (note CAM3.5 has a new land model CLM3.5)
 - Morrison/Gettleman cloud microphysics (mass+number for stratiform cloud liquid, ice, rain, snow) (with some modifications from X. Liu for ice microphysics)
 - UW PBL+shallow cu
- Likely...
 - RRTM (assuming it defeats BUGSRAD) (+ McICA comes with this)
 - small modifications to the cloud macrophysics...
- Comments...
 - Aerosols: Trying hard for PNNL (Ghan/Liu) modal aerosol treatment (you get mass and number), but backup aerosol models are still there)

GFS Analysis

- Phil Rasch's library of NCEP GFS analysis & forecast data – contact person is Danielle (“Danny”) Coleman. Going on maternity around August 1. Data from about 2001 continuous. However, analysis at 12Z & 18Z may not always be present

MMF

- Marat Khairoutdinov – going forward with MMF – wants to stay in the CAM. Ask ECMWF if we can provide an ECMWF analysis for Jan/Feb 2006 to him if we collaborate on CAPT.

DART Collaboration

- Ask Jim to get/evaluate latest CAM-DART analysis for January – February 2006 against NCEP & ECMWF analysis.

Cloud Macrophysics Tweaks

- Inform CAPT team that CAPT-LLNL will test new cloud fraction options between November 2007 and January 2008 (probably with M-PACE & TWP-ICE)

Potpourri...

- Chris Bretherton discussed the Holtslag visit to NCAR – need to pass data to them on NCAR integrations with control and control+UW physics for ARM sites... does +UW exist for SGP June 1997 and April 1997?
- Chris Bretherton discussed Pre-VOCALS forecasting exercise – wants to exercise CAPT for October 2006 forecasts. Will write to ECMWF to get analysis data. Probably Cecile H. will do NCAR integrations...