

Wednesday, Nov 28 2007, 1:30 PM MST; Call in # 970-491-2606

Called in: Leo Donner; Bill Collins; Steve Krueger
In room 431; Rodger, Wayne, Dave, Cindy, Kelley, Mark Branson

Minutes:

1. SP CAM integrations subject to CCSM CAM diagnostics

Marat's AMIP run using the MMF enabled 'SP-CAM' was processed by Mark Branson using the CCSM standard and variability diagnostics; results are available on the CMMAP website: <http://kiwi.atmos.colostate.edu/cmmmap/research/themes/ktcenters.html>

Group noted that future work on this project should be structured within CMMAP Team

- e.g. Low cloud feedbacks
- Work with CCSM – Atmospheric Model Working Group; get on agenda for February meeting

Bill: Would like to see a response in publishable form; possibly analysis of ocean coupling (Dave noted that C. DeMott is currently working on a similar paper, e.g. implied ocean transports and heat budgets)

Dave: Make some version of MMF enabled CAM available by ftp via CCSM

Action Item: Leo will raise this question with Phil Rasch at Feb 12 AMWG meeting)

Steve: Would like to see additional plots (Group noted that Mark Stevens is no longer at NCAR and the diagnostic packages are no longer supported thus modifications will be difficult)

Dave: Big purpose/goal of MMF:

- extend to analysis like IPCC
- take advantage of special features of MMF in diagnostics, e.g. experimental mode, capabilities.
- not designed to be the new CAM
- design analyses that focus on these capabilities, e.g. MJO/diurnal cycle/PDF of precipitation intensity. Noted that SP-CAM makes more intense precipitation than CAM. Also noted the EAP recommended against looking into ocean coupling with MMF

Bill: Can we look for change in cloud population and other sub grid scale processes relative to the standard CAM?

Dave: Comparisons of Marat's integrations to standard CAM diagnostics published on CCSM website could be problematic because Marat's CAM uses different dynamical core (semi-Lagrangian) than the CAM results posted on CCSM website, which use either

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Eulerian or Finite Volume dynamical core. <http://www.cesm.ucar.edu/models/atm-cam/sims/cam3.0/>

Other ideas from Dave:

- Work with the Cloud Feedback Model Intercomparison Project (CFMIP)? (Note Chris Bretherton is a CFMIP Coordinator; PAN-GCSS meeting in June, 2008...)
- Midlatitude cloud systems/baroclinic wave clouds – how do these change in winter?
- Look inside CRM as MMF runs, save high frequency output

Action Item: Announce these and other ideas to CMMAP Team and ask for feedback

Put on agenda of Jan STM – Moving forward AMIP runs, e.g. in plenary session (Bill will get back to Dave with his topic ~20min talk)

Bill: SFC shortwave questions

Rodger: updates to CMMAP web page where diagnostic results are posted:

- Include pwd protection
- Link to Marat's paper, link to CCSM page - emphasize that the purpose of this run is to evaluate climatology
- link back to PCMDI
- Inform Marat that link exists/ post *J. Climate* paper as a preprint

Dave: Next CAM will have finite volume dynamical core; can this run with MMF?

Action Item: We should organize an activity to develop a tuned MMF on a GCM with semi-Lagrangian dynamical core; in the context of working toward using this in coupled model

1. Find a way to get this done
2. Do it

2. KT Agenda for next STM

Richard Somerville – Ethics of Climate Change 6PM Tues Jan 15

Martin Miller – Seminar 4PM Wed Jan 16

KT to NWP & Climate WG in parallel with MJO breakout Tues AM

Book and Journal Luncheon Tues

3. Book Update

Dave: is index included in bid?

Check Springer for prices on Phys. Oceanography book (\$120, in B&W with color cover)

What would the cost be for CUP to print in color?

Add future directions chapter? Leo recommends against this

Add an afterward authored by RS, LD, WS to tie together ideas of the coupling chapters

Set up next KT meeting for Dec.