

CAPT Goals for first half of FY2005

1. Prepare several years of forecasts for CAM3 and AM2
 1. Includes extracting data from ARM sites
 2. Creating a database of data which we can share among ourselves and with outside collaborators
 3. Web first look diagnostics
2. One external collaborator
Guang Zhang or Chris Bretherton?

Results presented at ARM science team meeting –
March 14-18, 2005

Implementation Plan

- Alternate computing
- Preparing AM2
- ARM data
- Web data - ESG Portal

Alternate computing

- Linux Cluster (ASD) - Jay 10/4/04
- ORNL - Jim
- LC - Jay

Issues

- compilers,
- CDMS,
- CDAT,
- attached
- Disks
- Memory
- Access to PCMDI RAID

Preparing AM2

- Decisions:
 - Dynamical core
 - Resolution
 - Porting to IBM
 - Parameterization tests

ARM and other data

- Prepare continuous forcing data
- Provide access to data for visitors
- Data sources
 - ISCCP cloud types
 - ARM continuous forcing data (surface radiation and fluxes, TOA fluxes, precipitation, LWP, soundings)
 - Cloud fraction (ARSCl) and cloud microphysics from Mace?

Proposed Timeline

- Oct 1 – Nov 15
Implement CAM3 on desired platform
Demonstrate that MOLTS work
Double check data extracting list
Collect necessary observational data for
Jay's web page, begin displaying data

Proposed Timeline

- November 15- January 1
Complete CAM3 integrations – pass data to Jay who will begin to display data
Implement AM2 on compute platform

Proposed Timeline

- January 1 – February 15
 - Run AM2 forecasts
 - finish displaying CAM3 & AM2 data
improve statistics of web page
 - Outside collaborator visit – implement
a parameterization change and run
forecasts

Proposed Timeline

- February 15- March 15
 - Analysis of results and preparation of presentations for ARM Science Team meeting