

01/23/2008 CERES Data Management Team Meeting

Upcoming Events:

May 6-8, 2008 CERES Science Team Meeting in Newport News City Center

Notes from the previous meeting (01/09/2008)

ANNOUNCEMENTS:

All deliveries from now on need to go to *magneto*. The only possible exceptions, at this time, are the Beta1-Ed3 Cloud and Inversion deliveries. Clouds and Inversion have a Beta2-Ed3 delivery scheduled for later in the year and those deliveries will need to go to *magneto*.

ASDC:

The operational disk space is ~96% full.

The StorNext archive backups that run at night successfully created a backup, but failed again on a later attempt. ASDC is still working with the vendor.

mag 501 and *503* are definitely okay for testing deliveries. ASDC was working with the vendor to resolve problems with *mag 502*, state of *mag 502* wasn't known.

Power outage today due to UPS maintenance. Should be done by 10:30 AM. Networking closet is also down.

The latest on daacget: Current version uses NFS mount which is unstable. Some users have successfully been able to retrieve data, others have not. Daacget from *thunder* and *lightning* are typically more successful than from other machines. ASDC is switching to a dedicated system that is not dependent on NFS mount, and a new version of daacget code is currently in testing; Ricky and Chris Harris have been testing it. During testing a problem using wild card characters was discovered. Testers need to make sure that the wild card is stable before daacget is replaced on all machines. Replacement will, hopefully, occur within days.

The CERES automation meetings with the subsystem teams are not complete. 4 of the 7 working groups have already met with Jeff, and 2 meetings are scheduled for this week.

Chris Nosil is the new test manager at the ASDC.

SSI&T had a good SARB test run and is now waiting on the test plan for 5.4P1. TISA averaging and the associated CERESlib are being tested.

July 15- 24, 2002 Terra Edition2B SSF files were missing from the order tool. Going back and checking logs for this time period, it was found that the data were run, archived, and parsed, and the ParMet (ParMet is a temporary database used to pass meta information to the order tools database) was updated. The files were no longer in the ParMet database. The files have been reparsed and are now in the ordering tool. No records of the second step in which the

data from the ParMet is moved to the ordering tool database are generated/kept. This gap is not an isolated incidence: Raja found a similar 2003 data gap and will send a detailed e-mail. ASDC needs to reconcile what's in the ordering tools. Still need discussion of what measures will be taken to avoid this problem in the future, any related future quality control measures, and what steps will be taken to identify other gaps of this nature. A 'data set audit' was offered as a possible step in identifying future instances of this problem. Bob Valli said that they would investigate and get back. If needed, the DMT can provide input on what to look for.

Sue passed out a spreadsheet, for automation planning purposes, showing current CERES PGEs and those expected shortly. She would like to get feedback by Friday. Lisa Coleman will be coordinating inputs from each subsystem. In addition, Sue said the DAAC cannot begin to work on automating expected PGEs until they have the associated documentation. Erika then responded that she would not expect those CERES PGEs which are delivered within the 2-month window before Automation goes live to be included

SCF:

Scott is in class all this week.

The need to get UTC pole update scripts working on Macs was briefly discussed. Once the SGIs are gone, scripts to update these files will be needed for the Macs. Until then, the files can be copied from the SGI after the updates are made there.

TK5.2.15 will be released after problems with two HDF related enhancements are corrected. There is no release date for TK5.2.15 at this time.

Emacs on *thunder* has been acting oddly for some users. After one edits, saves the file, and attempts to continue editing, one gets the message that the copy on disk has changed. Scott has been working on this.

Toolkit 5.2.14 was discussed. ERBElite can't compile with 5.2.12. *magneto* never has had 5.2.7 installed, and it's unknown whether 5.2.7 is still on *warlock* – Chris is going to check. When subsystems tested with 5.2.14 last year, not everyone tried to compile. Since there is no known date for 5.2.15, CERES would like to have 5.2.14 installed on an SGI and a Mac for testing purposes. Erika will submit a ticket. Ed estimates they can start on it next week.

Six or seven months ago there was an SNA audit. Science Directorate rating has now been upgraded to moderate. (It was severe.)

Preventative maintenance on Mac servers, as it currently stands, creates a redundancy problem because machines are on separate schedules. There have been times when code could be compiled on one machine and not the other because one machine had been updated and the other had not. The SAs may need to take all servers down at the same time to perform upgrades and maintenance.

SEC:

Denise is compiling a list of issues related to Edition2/Edition3 shared library routines.

Tammy is creating Operator's Manual templates for each subsystem. Instrument is done. All the others are on hold while she works on deliveries.

PROCESSING STRATEGY

Science has indicated that they want to keep Edition2 processing of subsystems viable for 2008 data. Edition2 versions of Clouds, Inversion, TISA gridding, and Terra instantaneous SARB currently run only on *warlock*. E-mail asking whether or not *warlock* might be available for this processing was sent to Chris Harris and Dave Cordner, but should have been sent to John Kusterer.

SUBSYSTEM STATUS:**CM**

CERESlib delivery associated with synoptic SARB delivery is having problems. Waiting for Scott to return.

Schedule will be updated before next meeting to include actual dates for all deliveries within the next couple months and month of delivery for all 2008 deliveries. No CERESlib delivery needs to be associated with the Beta1-Ed3 inversion delivery. SARB MATCH file and delta delivery to support collection 005 based MATCH files will be combined. TISA gridding PMOA reason for delivery will be updated to include both overlap checking and Edition3 processing.

Instrument

Delivery date of 1/18 for Instrument code may end up slipping a little due to documentation. Denise is still working on 1.3P3 and 1.3P2.

ERBE-like

Subsystems 2 and 3 compile in the new directory structure. 2.4P1 runs and the others still need to be tested.

Clouds

The new PGE delivery has been delayed to Feb 1.

CO2 slicing has increased Cloud runtime by 50%.

All Beta1-Ed3 code is now in Sunny's hands. Some codes were reasonably well tested prior to turning them over to Sunny, most were not. When running a single day, 7 hours core dumped. For those that ran, results over tropics show overestimated clouds. Enhanced VIST is not complete. There are problems with overestimated clouds over deserts.

Convolution

Draft Ops Manual is complete except for memory and timing sections. Also, work is being done on the QC portion of Beta1-Ed3.

Inversion

A complete month of Beta1-Ed3 testing for SOFA is almost complete. There are bugs that need to be flushed out.

A memory issue when moving from SGI to Macs exists in Beta1-Ed3 and needs to be resolved.

SARB

5.4P1 corrections have been delivered.

No decision on MOA grid has been made by Science.

TISA Averaging

Delivered TSI code originally core dumped on Macs, but it's working now.

Agenda:

ASDC Status

- SI&T
- Interfaces
- Operations
- User Services

SCF Status

SEC Activities

DM System Issues and Status

- Processing Priorities
- Schedule
- SCCRs
- Instrument Special operations
- Subsystem Reports

Other - daacget/daacIs status

- Cases where CERES data are available in the archive but not via the ordering tool have been identified. Until ASDC reports measures taken to ensure this doesn't happen in the future and checks for additional, substantial data gaps have been made, this will remain a meeting topic.