10/31/2007 CERES Data Management Team Meeting

Upcoming Events:

Nov 6-8, 2007: HDF workshop in Landover, MD
Nov 14-16, 2007: Fall CERES Science Team Meeting in Victoria, BC, Canada

Notes from the previous meeting (10/17/2007)

ASDC:
Ops disk space is still an issue; it was down to 93% this morning.

There are no new deliveries to report.

Dave Doelling is still waiting on Fred Rose's approval regarding Cathy's TISA Averaging delivery.

Denise may be able to make simulated TRMM delivery this month.

Waiting on TERRA MODIS data reorder for 6/23/2006 – 6/25/2006 to arrive. Since Terra Cloud processing is on hold, started Aqua Clouds. Aqua Edition2C SSF for 05/2006 almost complete.

magneto has been up and down all week for maintenance – upgrading the GPFS file system. Also, the head node was replaced to help system reliability. Once *magneto* maintenance is complete (next week), operations may be able to begin processing Aqua CRS for 2006.

All of the "Princeton" order has been satisfied. The total data volume was about 6.4 TB.

The archive seems to be reliable now as far as StorNext is concerned.

Karen completed TK builds (32-bit TK built Monday and 64-bit TK built yesterday) so Scott can rebuild CERESlib. It took over four months from the time the *magneto* toolkit build was requested until a successful toolkit build was created. To avoid some of the problems encountered with this build, ASDC will create a list/table of environment and requirements for building the toolkit on *warlock* and on *magneto*. For the record this list/table will be included in ASDC's notes for the next DMT meeting.

As soon as *magneto* maintenance is complete, it will be good to go as far as TK and CERESlib. Christian to send email when it's ready.

warlock has not required a reboot when accessing the archive since patching the StorNext client on Oct 11.

Tammy corrected the last bullet (on READMEs) in the ASDC section of the Notes from the last meeting and will email Erika a written correction. (Post Meeting NOTE: This has since been done and the Notes have been reposted.)

SCF:

Still have an 'issue' with *lightning* even though most components have been gutted or replaced. Plan is to remove all dependency of other servers on *lightning* to minimize the impacts of this problem.

Scott said that there were export 'issues' with the servers *cebu* and *ogygia* that required reboots and reconfiguration of exports. Now both of these machines export to the "insanity" directory; please see his "Mon 10/15/2007 5:53 PM" email for details.

In regard to changes coming with daacls and daacget, there was great confusion. This will be revisited. No one seemed to know how many daacls/daacget users there are. In conjunction with Jimmy Rowe, John Koenig is working on "keys" for a limited group of people. After switch, won't be able to use daacls/daacget unless "keys" have been generated and provided to Jimmy. Ed prefers not to send a general announcement – just wait until users complain about it being broken. Users are expected to take action and contact SAs (RT@SDHELP.LaRC.NASA.Gov). Recall, "key" must be generated for each machine, including Macs, for which you plan to use daacget or daacls. Macs have same procedure for generating keys as SGI. ASDC's list of keys from 10/13/07 did not include all keys that had been generated prior to that date. (Post Meeting NOTE: Don't panic. Sit tight. No action needed until you hear otherwise. What's recorded here is only the confusion from the meeting. A plan will be in place shortly, and ALL daacls/daacget users will be notified.)

Removing "-san" from instrument directory names went okay for Denise. A couple things, like CVS related issues, were initially forgotten. If any other subsystem wants "-san" removed from directories, contact the SA's. Default will be to leave directory names as is.

SEC:

The SEC will meet right after this meeting to finalize their proposed directory structure. At the next meeting we will discuss the Excel worksheets and then discuss the Operator's Manual and whether to convert it from FrameMaker to Word before converting it from to Excel.

There was also some discussion, in general, about the conversion of FrameMaker files to Word. John read a list of documents that are considered 'static' and will not be converted to Word according to the current plan. These documents are the Interface Requirements Document, ATBDs (Science), Software Requirements Documents, Software Design Documents, Validation Documents (Science), External Ancillary Input Data List: PDF, Software Computer Bulletins, DMT to DAAC Production Requests, and Data Management System Status Presentations. These files will be left as PDF files. Please see John's "Mon 10/15/2007 4:38 PM" email for additional details. If anyone has problems with this list, they should send email to John by the end of the week. If there are no concerns expressed, this list will be sent to the Science Team for their consideration.

SUBSYSTEM STATUS:

CM – There were no SCCRs. Erika said that the Beta1-Ed3 related Gridding delivery should be removed from the schedule. Gridding will not be in a position to deliver until Beta2-Ed3.

Instrument – Denise will be out Oct 29 – Nov 19 in support of HDF Workshop, C++ training, and the CERES STM.

ERBE-like – Dale said they are continuing to look at the clear ocean albedo on the combined SSF-ES8 product as a possible calibration tool.

Clouds – Working hard on next delivery, Beta1-Ed3. Cloud code has changed since modified to compile/execute on the cluster. Because SGIs are not totally available when *lightning* goes down, Sunny is considering modifying her code to compile/execute on the Macs before continuing the Beta1-Ed3 related coding changes.

Convolution - Walt is mostly testing and removing bugs from reorganized code and plans to get with Chris on files that had bad geolocation fields. Case of too many subset regions in an hour probably a resource issue – first time this has happened.

Inversion – No update on SGI and Mac cluster files showing 10 – 20% differences in LW and WN TOA fluxes for select FOVs. Victor did say that it is a difficult problem but hasn't had time to look at it more carefully yet.

Synoptic SARB – Tom has run several months of SYNI data in preparation for upcoming (November) delivery. The results look pretty good.

TISA Averaging – Cathy doesn't plan to delivery TSI to *magneto* this time.

GGEO – Has memory allocation problem when running on Mac. Problem due to array not getting deallocated in CERESlib routine. Running entire month.

CERESlib – No report.

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 – Operator's Manual – FrameMaker to Word OR FrameMaker straight to Excel?

- *magneto* status?
- Users "Keys" for daacget/daacls status?