

3/8/06 CERES Data Management Team Meeting

Agenda and Notes from last (2/22/06) Meeting

Upcoming Events:

Spring CERES Science Team Meeting in Williamsburg, May 2-4, 2006
Fall'06 CERES Science Team Meeting at GISS (NYC), early Nov'06 ?

Priorities:

Near-term Processing:

- Terra Beta6 SRBAVG for 3/03 – 12/04
- Edition1-CV/Ed1-NoSW-CV BDS/ERBELike
- Aqua Edition2A SSF/SFC/SRBAVG
- Aqua Edition2A CRS/FSW

Long-term Processing: Terra and Aqua Edition2 AVG

Data Management

- Code Conversion
 - Delivery process to IBM cluster
 - Mainstream SARB conversion
 - Synoptic SARB
- SCF
 - Zamboanga cluster configuration and testing
 - ceresarchive movement to new platform

Notes from last meeting:

ASDC available disk space is in a more reasonable state after deleting some FSWB files and GGEO inputs for 3/00 – 2/03. ASDC will not be removing Aqua Edition2A SSF from disk after Edition2A SFC runs because they reserve the option of running Aqua SARB on warlock.

Discussion of potential problem of ASDC running TISA Avg without GGEO on disk was bumped to SEC meeting that follows DMT. See SEC notes for resolution.

SARB is getting ready to update MOA code and associated CERESlib modules to replace TOMS with OMI and, when there is a gap in OMI, use climatology. Subsystems should note that a CERESlib delivery is scheduled – just in case there are other changes waiting on an opportune time go in.

Henry has a /QA cleanup script. It's a new script, not a modified version of Puckett's original. If it were to run now, 35,000 files would be removed. No one at the meeting voiced concern about removing that number of files. Sunny stated that Clouds may have an account residing in the /QA directory. She and Danny will talk off line. Sandy requested that, as a final double check, the list of excluded directories be sent out to everyone. Danny agreed to do so.

Robert Knapp met with Jeff Walter as part of Rob's initiative to roadmap the needed S4P support activities. Roadmap is to go to Mike after key players agree on the roadmap – expected this week. After Mike approves it, the roadmap will be presented at a DMT meeting.

Next step in plan to drop support of older versions of IDL and support only 6.1 is for Mike to authorize a contact person. Danny will be meeting with Mike and John to discuss moving licenses.

Need update before Instrument's ground calibration files can go to ASDC for archive. Update might come in a month or so.

Mike's 2/8/06 e-mail (subject: CERES DMT request) regarding the code conversion plan did not make it out to many. Only Erika and Lisa Coleman reported receiving it. Erika will forward it to every who attended this DMT.

Sandy elaborated on how ASDC is assisting her in getting Norman's 9TB of subsets onto SCF's nearline storage. ASDC has provided a temporary, loaner disk onto which the ingest manager is copying the Terra subsets. Once all the files are on the disk, it will be mounted so that the inversion group can access it from thunder/lightning and move the files into nearline storage. Once all the files are moved, all the Terra data will be deleted from the disk and the same procedure will be used for transferring Aqua files to disk. Chris Harris mentioned that ASDC is willing to work with folks who require huge data transfers from archive to some SCF location. If ASDC had not come up with this alternative solution, it would have taken many months to daacget the data onto the SCF.

Chris Harris stated that on an average day, 28,000 files are moved into the archive. If volume exceeds that, daacget slows down accordingly.

Sue Sorlie provided a brief discussion of the Archive Next Generation (ANGe). It will consist of new software, evolved interfaces, new tools, new feature, but the same hardware. Everything will be placed in it, and LaTIS will go first. ANGe-L is Archive Next Generation for LaTIS. ANGe-E L is Archive Next Generation for Everything. Included in ANGe will be a key such that Edition files cannot be so easily removed from the archive.

Sue mentioned that once processing on IBM cluster occurs, there might be a processing slowdown on warlock. The operations staff has been reduced.

SEC Meeting to discuss location in which to place test data set is to follow DMT. Please refer to SEC notes for that discussion.

Blade center is hitting some bumps with regards to Sun Grid Engine on IRIX vs. LINUX. SSI&T is shooting for March 1 as date on which to promote SARB into production.

Ed Kizer is submitting abstract to AMS for July meeting in Wisconsin.

Cluster and nearline storage shutdown discussed in SCF report will occur this week. Announcement should be coming this afternoon.

The “storage czar” activity is not as simple as originally assumed. Years ago, everyone had own disk, but now that subsystems share disks, it’s more complicated. The SA group will be providing John Robbins the tools he needs to juggle it around.

On March 6, 7, or 8th there will be a meeting to finalize Edition3 SSF parameters. SARB and Clouds need to talk.

GGEO coefficient and weeder region deliveries for 2003-2004 are delayed a week. GGEO deliveries for 2005 may also delay as coefficient development requires Terra Edition2B SFC to be available.

Jim Donaldson has the Ada compiler working on a Mac. He had to comment out 2 lines to get instrument code to compile. By the end of the week, he’ll try running instrument code for all satellites. Haven’t tried Ada on LINUX yet. Scripts need to be updated – they don’t work in open source. gcc4 didn’t work – went back to gcc3.4.3.

Request to rerun Terra 3/00 BDS/ERBELike to be added to PRs shortly and sent out for review today or tomorrow.

Dale is looking at ES8 nadir product. Are the requested changes to the product useful? If so, may be modified (code delivery) prior to running Edition3.

Clouds has produced CloudVis images from FLASHflux data, but no one has ever looked at them. Clouds is looking at global images and statistics from monthly Terra and Aqua FLASHflux processing. Erika to send Sunny an image that shows the “boxy” data FLASHflux found when making the requested Earth Observatory images for 1/19/06.

The A-train MODIS test file (channel and pixel subset) from GSFC contained good data, but the attributes were all wrong. Sunny sent problem report to GSFC and hasn’t heard anything from them.

Scott has converted the main Terra Inversion processor to run on manila. Standard code can be converted very quickly. Scripts require some changes to universal UNIX commands. All output differences found so far look to be scientifically insignificant.

TISA averaging is battling with not all code using constants from CERESlib. Mixing constants of varying accuracy results in infinity and NaN values on Edition2D data set. Relearning an old ERBE lesson!

TISA averaging will be generating TSI data files at the SCF within the next few weeks.

Seiji Kato would like snow/ice maps on the SRBAVG. Cathy wrote PGEs to do this, but they were never delivered and remain research code at the SCF. This affects delivery for SRBAVG4/5/6.

Items to be discussed this meeting:

- ASDC system (including cluster) and operation status
- User Services status
- Interfaces
- SCF status to include S4P
- Processing plans
- Subsystem Updates
- Beta/Edition3 updates
- Updates on any CERES related proposals or projects (A-train NEWS, FLASHflux, etc.)
- Revisit /QA discussion in March/April 2006

Date and location of DMT mtg:

3/8/06 meeting at 10:00 AM in room 2316, ASDC

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(All DMT meetings through June 28th are currently scheduled for room 2316. Meeting on 5/3/06 will be cancelled due to CERES Science Team Meeting in Williamsburg.)