

## **4/19/06 CERES Data Management Team Meeting**

### **Agenda and Notes from last (4/5/06) Meeting**

#### **Upcoming Events:**

Spring CERES Science Team Meeting at Crowne Plaza Fort Magruder in Williamsburg, May 2-4, 2006

Fall'06 CERES Science Team Meeting at GISS (NYC), mid-Oct'06

#### **Priorities:**

Near-term Processing:

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

Before Fall'06 Science Team Meeting, Bruce is looking for:

- Terra Beta SYN/AVG/ZAVG to start running
- Terra Edition2D SRBAVG4-7 ready for ST to approve it for public release

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:**

No one could address whether the files expected to go to /QA were actually going out there and whether the /QA cleanup script was working to folks' satisfaction. Side note: After the DMT meeting, Sue checked on /QA and found that it was still 91% full with files from last August. SA's have since resolved their communication problems and the script really is running.

SAs to evaluate Storage Area Network. There may be a need to reconfigure. Nearline may be down the week of the Science Team Meeting. SAs to migrate SGI's Direct Access to SAN.

IBM cluster's wrapper issues have not yet been resolved. SARB was promoted because ValR7 does not require archive.

IBM cluster comes with challenges/growing pains.

- Nodes are occasionally freezing. Automount problem that may have been fixed this morning.

- Sun Grid Engine (SGE) v6 installed on cluster is newer than version on warlock and slightly different

SSI&T working on scripts to run Aqua ValR9 Clouds and Inversion. Scripts should be ready next week.

Chris Harris is going to add disk space to the SSI&T area. Currently, SSI&T has 170 GB. By the next DMT mtg, they'll have close to 0.5 TB!

Note that for MOA validation runs, the production strategy can't change, so the sampling strategy must.

To access ValR data from the cluster requires an account on magneto. One will not be able to get to the disk(s) directly from thunder/lightning.

Test files for Snow/Ice from new system are available. Walt is looking at them for Clouds. Old and new files differ by one orbit; no major issues. Walt will talk with Sunny. Vegetation Index files, as far as ASDC can tell, aren't used by anyone on CERES. Nothing to test them with for verification. Files will revert to normal names when they are generated as part of production.

Problems with Instrument run. Denise needs to look at them.

Rough schedule and roadmap for code conversion will eventually be presented to the group, as will the plans for automation.

As part of evolution plan, ASDC plans to implement S4P. Jeff Walters will formulate requirements and share them with SCF personnel to determine if there is common ground. ASDC environment differs from that at SCF. As of now, ASDC and SCF are planning to automate SARB first, but for different reasons. Scott Zentz already has completed a SARB prototype at the SCF. SCF automation activities are tied to code conversion.

Anne Wilber asked about getting CERESlib on her Mac in early March. At that time, Scott stated that a webpage was getting developed to distribute CERESlib to users and it was expected it to be up in early April. Development is taking longer than initially expected, and there is no current estimated availability date.

The following question was tossed out for folks to mull over: Should CERES upgrade toolkit for Edition3 processing?

Emergency high priority requests for 7/02 and 1/03 Terra ValR8 FSW are coming.

Note that if Terra Beta 3 synoptic SARB delivery isn't in by 7/21/06, having data before Fall Science Team Meeting starts looking bleak.

Due to Denise's vacation, no update was available on the Jim Donaldson/Instrument project to convert the instrument code to run on the cluster.

Janet Daniels will be working on Instrument calibrations with Susan Thomas.

Phone conversation with Sunny prior to DMT provided the following information: GSFC resent A-train MODIS test file. File was fine, but Sunny sent question to GSFC. She asked if 1.6 micron channel could be replaced with another channel that's not having problems. Sunny has not had a chance to look at 1/19/06 cloud fraction problem that FLASHflux ran across.

Clouds is using LIDAR data from COVE site to do validation for the Science Team Mtg. This will become an on-going activity.

GES DAAC to MODAPS collection4 handover took place the last weekend in February. DOY 55 – 58 have been replaced in the archive. Aqua collection 5 aerosols are to start today, 4/5/06. One week of collection 4 and collection 5 overlap is expected. Terra collection 5 aerosols are scheduled for no sooner than 7/1/06.

The previous week, Tom Charlock was asking whether obtaining Edition3 MATCH should take priority over Editon2. No one knew what priorities were decided on.

SSI&T estimated that MOA delivery might promote in 1-2 weeks.

Cathy is still moving TSI parameters around.

The first time SYM/AVG/ZAVG ran for 1 month of data, it took 30 hours on the SCF.

Talk of separating SRBAVG1-3, 4-5, 6-7, each with own sample read. Ordering questions.

Final comments on the Terra Edition2D SRBAVG Data Quality Summary are due to Meka (User Services) on Friday, 4/7.

Difficulties with MET-8 coefficients have limited the Beta6 GGEO coefficient delivery to 3/03 – 5/04. 6/04 – 10/05 will come later. 11/05 and 12/05 will come much later.

### **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

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- 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:**

4/19/06 meeting at 10:00 AM in room 2316, ASDC

5/17/06 meeting at 10:00 AM in room 2316

(All DMT meetings through June 28<sup>th</sup> are currently scheduled for room 2316. Meeting on 5/3/06 will be cancelled due to CERES Science Team Meeting in Williamsburg. Do you like meeting at ASDC? It's time to schedule the room for the 2<sup>nd</sup> half of the year!)