

CERES Data Management Team Minutes for 02/12/2003

Schedule:

02/2003	CERES Data Management Delivery Process and ERBE Digital Library Demo briefing to local Science community
02/21/2003	DMT Inputs due to Mike Little and John Robbins for CERES Proposal
03/10-11/2003	Code Y Review of CERES Data Products for Aqua and Terra
03/01/2003	All remote access to use 2-factor authentication (VPN)
03/26/2003	Deep Space Calibration for Terra
04/14/2003	Tentative date for Terra Lunar Calibration
04/15/2003	CERES Proposal to Code Y for next 3 years.
05/15/2003	samantha moves to SCF
06/30/2003	SysAdmins must complete 3 rd Party ITS Certification Testing

Ongoing Activities:

- B1250 Rehab (Planned completion ~11/2003)
- Workstation Modernization Program (Planned completion ~01/2003) (5 SGI and 3 Sun remaining)
- ERBE Digital Library development and population (ongoing)

Priority Items:

- Get STK 34-TB RAID (or equivalent) operational.
- Re-staging of MODIS data at ASDC to support faster processing/re-processing
- DMT Members obtain VPN accounts IMMEDIATELY
- DMT Members to review their need for membership in e-mail lists from ASDC production system
- DMT Members to provide requirements inputs for CERES Proposal by 02/21/2003

• Announcements:

- Dave Cordner has joined the ASDC and will be attending the DMT meetings
- The ongoing Continuing Resolution precludes significant acquisitions of new equipment or software for the foreseeable future.
 - IT Moratorium prevents significant purchases of IT hardware or software except on Mission Critical basis
- No new WinXP installations to be made due to IT Security considerations (not currently requiring removal)
- All CERES DMT members should apply for VPN service by 02/15/03.
- Consideration is being given to conversion of CERES codes to run in Linux, ECS and Solaris environments within the Process Improvement Committee.
- Storage for SCF is undergoing study.

Standing Committee Reports

(These notes supplement the reports posted by the various Committee's on the CERES DMT status page.)

Agenda	Committee	Responsibility	Updated	Status/Issues
1.00	ASDC/ECS Interfaces	Hopson/Sorlie/ Direskeneli	02/12/02	Warlock will be out of production service from 02/14/03 through 02/28/03 while attaching 34TB disk array and upgrading to IRIX.17m. See attached e-mail for details. IRIX.16m compilers will be installed on samantha and warlock. AMASS problems have caused Archive to hang. Investigation continues. Systems Engineering staff continues to examine conversion to Linux of production environment.
2.00	SCF	Flippo	02/12/03	SGI O2s should arrive on 02/21/03. LaRC CITSO Scanning operations are adversely affecting performance of SCF computers. Complaints filed. Review ongoing. SAIC Server room to be shut down for rehab on 02/15/03 through 02/17/03. B1250 power outage requires shutdown of thunder and lightning and network access on 02/15/03 morning. Inputs from DMT are requested to determine how to use samantha when it is delivered to the SCF.
3.00	Toolkit	Flippo	11/06/02	No additional information was provided.
4.00	System Issues			
4.01	Processing Strategy	Geier	02/12/03	Priorities for processing are (1) diverse suite of products to be described in EOS Review on 0310/03.
4.02	Systems Engineering Committee	Nolan/Sorlie/ Hopson/ Ayers/Cooper	02/12/03	No meetings have been held since the last DMT meeting.
4.03	Configuration Management	Ayers/Franklin/ Saunders	02/12/03	No additions to the report.

	& SCCR/DCCR Review			
5.00	Working Group Status			(See posted Subsystem Status Reports)
5.01	External Interfaces- Instrument	Hess	02/12/03	GERB intercalibration was unsuccessful due to a mis-communications regarding the coordinates for CERES to scan the GERB footprints. The balloon validation experiment in Australia is on a weather hold. CERES will need to coordinate overlapping footprints during the flight.
5.01	External Interfaces- Data Sources	Sorlie	02/12/03	An evaluation of DOA data is being undertaken by L.Coleman and S.Sun-Mack to determine if ECMWF data will be required for FY2004.
5.01	External Interfaces- Customers	Detweiler	02/12/03	ACTION: M.Little to order 88 tapes for delivery of SSF to A.Inamadar and provided to ASDC.
5.02	Simulator	Chapman	02/12/03	Simulator continues to support instrument commands for validation experiments
5.03	Visualization/ Validation Tools	Lee	01/15/03	No additional information was provided.
5.04	Instrument (SS 1)	Escuadra/Cooper/ Hess/Spence/ Szewczyk/Filer	02/12/03	No additional information was provided.
5.05	ERBE-like (SS 2, SS3)	Kizer/ Walikainen/ Robbins	02/12/03	12/2002 data displays a low albedo during certain periods. Investigation of the problem is ongoing.
5.06	Clouds (SS 4.1, 4.2, 4.3)	Sun-Mack	02/12/03	Next delivery in March 2003 is on track.
5.06	Clouds (SS 4.4)	Miller	02/12/03	No additional information was provided.
5.07	Inversion (SS 4.5, 4.6)	Nolan	02/12/03	2 additional runs are required to meet requirements for ADM analysis.
5.08	SARB (SS 5.0, 7.2, 12.0)	Coleman	02/12/03	TRMM Beta1 Synoptic SARB delivery is now scheduled for mid-April,2003.
5.09	TISA -(SS 6.0, 9.0) Gridding	Raju	02/12/03	Redelivery was made of the Terra FSW code to partition the hdf files due to hdf file size constraints. Compression may

				be added at a later date.
5.09	TISA- (SS 11.0) GGEO	Stassi	02/12/03	No additional information was provided.
5.09	TISA- (SS10.0, 8.0) Averaging	Nguyen	02/12/03	Incorrect data in TRMM Edition2B SRBAVG is for confidence assessment only and will be addressed in Quality Summary.
5.10	CERESlib	Stassi	01/15/03	TSI module has been updated on SCF and will be included in next CERESlib delivery.

ASDC Plan for Restoring 34TB Array to Full Service

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Date: Fri, 07 Feb 2003 16:41:12 -0500

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All,

The agreed upon schedule for redeployment of the STK RAID (32 TB) into LATIS for CERES production is as follows:

02/07 - 02/13 ASDC completes migration of MODIS data restored from failed STK RAID to 9710 MODIS silo
9840 tapes being released from LATIS archive at rate of 15 per day
200+ tapes were freed up by decision not to migrate some MODIS version 3 data (prior to 10/2001) to STK silo

02/14 ASDC upgrades warlock SGI operating system from IRIX 6.5.15 to 6.5.17
IRIX 6.5.17 fixes the XFS file system deadlock bug
Consistency check required for CERES PGEs (built under IRIX 6.5.16 on samantha and samantha2).

02/17 SGI and ASDC rebind RAID and create two new 16 TB file systems for CERES production
One file system for MODIS data managed by Veritas Storage Migrator for migration to STK 9710 silo.
Other file system for remaining CERES processing directory tree
SGI and ASDC will setup SSI&T test environment and initiate restore of MODIS data to RAID

02/18 - 2/25 ASDC begin testing of current production version of CERES PGEs on warlock (now @ IRIX 6.5.17)
Instrument, Clouds, & TISA
ASDC will verify expected exit codes and output file sizes
CERES SCF will verify science output results (email notifications form ASDC as results are produced)

02/27 ASDC assesses operational readiness of STK RAID and use of new 16 TB file systems

02/28 ASDC promotes 16 TB file systems on STK RAID into LATIS production
CERES production resumes on warlock
Use existing file systems on EMC (9 TB) and STK RAID (16 TB file system for MODIS data)
Begin planning transition of EMC file systems to STK RAID (other 16 TB)