

**January 12, 2005 - System Issues and Status**

**(Tables 1 and 2 will be posted within the next day or so.)**

**Table 1: Process Strategy/Geier as of 01/12/05  
Active Requests in order of priority**

<b>Production Request (PR)</b>	<b>Satellite</b>	<b>Production Strategy</b>	<b>Data Product (SS#)</b>	<b>PGEs</b>	<b>Data Dates</b>	<b>Special Status</b>

**Table 2: Process Strategy/Geier as of 01/12/05**  
**Coming Soon**

[illegible]

**Table 3: January 12, 2005 - System Issues and Status**

<b>Activity</b>	<b>Lead</b>	<b>Status</b>
CM	Ayers	<ul style="list-style-type: none"><li>• See Table 4 for the current CERES Subsystem Delivery Schedule. (Ayers)</li><li>• See Table 6 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 6. (Ayers)</li><li>• Delivered the November 2004 Clouds S'COOL data file to the ASDC. (Saunders)</li></ul>

**Table 4: CERES Subsystem Delivery Schedule - January 2005**  
**(Next CERES Science Team Meeting - May 3 - 5, 2005 in Princeton, NJ)**

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Delivery to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)
Instrument	February			Terra gains for January - May 2004.		
ERBE-like	February			Terra spectral response function files for January - May 2004.		
Inversion (SCCR 568)	February			To run Terra alternate main on a daily basis.		X
TISA Gridding	February			To add parameters to FSW and change SFC (PGE 9.4) HDF files.		
Instrument	February			Update code to support satellite patch. (Terra & Aqua)		
GGEO (SCCR 553)	January 28	February 11	February 18	Delivery to handle GOES-9 and GOES-12, new McIDAS format and processing data beyond March 2003.		X
Instrument	Late February			Aqua gains.		
ERBE-like	Late February			Aqua spectral response function files.		
TISA Averaging	February 18 - March 18			Terra Edition2D SRBAVG needed for Science Team Meeting.		
Clouds	Spring			Support TRMM VIRS-only processing of August 2001 forward.		
Clouds	???			To process MODIS V005. Delivery needs to be made just before delivery of July 2005 Terra gains and spectral response function files.		

**Table 5: SCCR Activity December 13 at 2:30 p.m. - January 10 at 3:00 p.m.**

<b>SCCR</b>	<b>S</b>	<b>U</b>	<b>A</b>	<b>C</b>	<b>D</b>	<b>SS</b>	<b>Page No.</b>	<b>Comments</b>
561				X		CERESlib		
567				X		4.1-4.4		
572				X		4.5 & 4.6		

**S**=Submitted; **U**=Updated; **A**=Approved; **C**=Closed; **D**=Disapproved; **SS**=Subsystem

**Table 6: January 12, 2005 - Subsystem Issues and Status (1 of 4)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
1.0	Cooper	<ul style="list-style-type: none"> <li>Continued monitoring receipt of Aqua and Terra Level-0, Ephemeris and Attitude data at ASDC. (Cooper &amp; Snyder)</li> <li>The Instrument Subsystem will undergo a code review the week of 18 to 25 January. (Team)</li> <li>Preparing for OS upgrade. Archiving files, etc. (Cooper)</li> </ul>	
2.0	Walikainen	<ul style="list-style-type: none"> <li>Produced Edition2 Terra Jan-Nov 2004 Nadir files using proposed spectral response functions. Nadir comparison test results posted on the Web. Awaiting science team response. (Walikainen)</li> <li>Discovered footprints misflagged as Eclipse [5/19/04 Aqua and Terra; 11/12/04 Terra]. Plan to remedy with Instrument Subsystem help. (Walikainen)</li> <li>Continuing to examine the production email generated by the QC checker software. (Walikainen)</li> <li>Continuing to inspect ERBE-like Aqua and Terra output plots and QC reports on the Web. (Walikainen)</li> </ul>	
3.0	Walikainen	Combined with above.	
4.1	Sun-Mack	<ul style="list-style-type: none"> <li>QC global images and statistics for Aqua MODIS Edition1A for 200406 were processed and posted on the web. (R. Brown)</li> <li>CloudVis images for TRMM VIRS Edition2 data were for Pacific ITCZ and Lanai regions from January 2000 through December 2000. Terra MODIS Edition2-QC CloudVis images were generated for the Nauru ARM Site from February 2000 through December 2003. CloudVis images were also generated for Aqua MODIS Edition1A data for the Pacific ITCZ and Paliseau, France regions from July 2002 through December 2003 and images for the Oklahoma, Tropical Western Pacific and Nauru ARM Sites were also generated for the January through June 2004 timeframe. (R. Brown)</li> </ul>	

**Table 6: January 12, 2005 - Subsystem Issues and Status (2 of 4)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
4.1	Sun-Mack (Cont'd)	<ul style="list-style-type: none"> <li>Digesting radar data from ER2 over CRYSTAL-FACE sites. Matching with satellite MODIS data. Doing channels studies under all types of clouds. (Chen, Gibson, &amp; Sun-Mack)</li> </ul>	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	<ul style="list-style-type: none"> <li>Monitored Aqua Edition1A processing for January through June 2004. Six, five, three, five, two, and five hours respectively did not process. Three hours in February had no MODIS data and another hour core dumped. The remaining hours did not have IESs. (Miller)</li> <li>Investigated MISR files to better understand the data. Provided Mr. Sun further instructions on how to format the input files. (Miller)</li> <li>Started moving daily SSF QC files to nearline storage. (Miller)</li> </ul>	
4.5	Nolan	<ul style="list-style-type: none"> <li>Compared Aqua FM3 and FM4 ValR4 and ValR3 SSF data for 06/30/2003 and found that the CER4.5-6.6P3 code did not update the unfiltered radiances on the SSF. Corrections to the PGE will not be made until after the OS upgrade. (Sothcott &amp; Nolan)</li> <li>Initiated timing study comparing file access time for data stored on the inversion disks, inversion Mac disks, and CERES archive disks for Norman Lobe. (Nolan)</li> <li>Continued work to modify and test PGE CER4.5-6.2P2 version which includes a flag to turn off the creation of the SSF subset files and allow only the SSF validation subsets to be created for FLASH Flux. (Sothcott)</li> <li>Work continued to extract Aqua FM3 daytime and nighttime SSF subsets from the ASDC archive and place the files in the CERES archive using NLstore. (Snyder &amp; Nolan)</li> </ul>	

**Table 6: January 12, 2005 - Subsystem Issues and Status (3 of 4)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
4.5	Nolan (Cont'd)	<ul style="list-style-type: none"> <li>Initiated work to create lists of SSF subset stored on the CERES archive for both daytime and nighttime subsets in FAPS, RAPS, and Alongtrack modes. (Snyder)</li> </ul>	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> <li>Posted QC plot summaries to the Web for Terra Edition2B CRS months that completed. (Caldwell)</li> <li>Generated plots of FSW data relevant to SARB's QC effort and made them available to the SARB Working Group. (Zentz)</li> <li>Investigating cause of Monthly QC Summary failure in production. Failure is due to precision issues with the large number of samples. (Caldwell &amp; Zentz)</li> <li>Moving files from SARB-a disk to near-line storage as part of an overall cleanup effort. (Caldwell)</li> <li>Identified an array bounds error in the Monthly Pre-Processor as a result of some maintenance effort. No problems have been encountered to date with it, but it will be corrected. (Zentz)</li> </ul>	
7.2	Coleman	<ul style="list-style-type: none"> <li>No new updates.</li> </ul>	
12.0	Coleman	<ul style="list-style-type: none"> <li>Responding to a request from Dave Kratz about MOA data for an associate of Bob Cess. (Caldwell &amp; Coleman)</li> </ul>	
7.1	Nguyen	<ul style="list-style-type: none"> <li>No new updates.</li> </ul>	
8.0	Nguyen	<ul style="list-style-type: none"> <li>No new updates.</li> </ul>	
10.0	Nguyen	<ul style="list-style-type: none"> <li>Ran January, May, and July 1998 TRMM and wrote the matched total-sky CERES and GGEO data to an output file for Dave Doelling for his study. (Nguyen)</li> <li>Ran March 2000, January, July, and October 2001 Terra for Dave Doelling. (Nguyen)</li> <li>For Terra and Aqua, the sampling restriction is included but not for TRMM. Modified the get input code to work for TRMM and Terra. (Nguyen)</li> </ul>	



**Table 6: January 12, 2005 - Subsystem Issues and Status (4 of 4)**

SS No.	SS Lead	Status	Problems
10.0	Nguyen (Cont'd)	<ul style="list-style-type: none"> <li>Modified the read GGEO code to work for the latest GGEO with the new linear log optical depths and the old GGEO with the log optical depths. (Nguyen)</li> <li>Preparing to run July and December 2002 Aqua and Terra with the one hourly GGEO. (Nguyen)</li> </ul>	
6.0	Raju	<ul style="list-style-type: none"> <li>FSW I/O routines in the CERESlib TISA Gridding modules were modified so that it can recognize and read three different versions of the FSW data record. (Raju)</li> <li>Full month of February 2001 FM2 data was processed through PGEs CER6.1 &amp; CER6.2P1 at SCF, and generated FSW binary files, the updated I/O routines were made available to TISA &amp; SARB working groups. (Raju)</li> </ul>	
9.0	Raju	<ul style="list-style-type: none"> <li>SFC I/O routines in the CERESlib TISA Gridding modules were modified to handle two different versions of SFC data record. Binary read program was updated to use CERESlib routines, and the program was sent to TISA science member. (Raju)</li> <li>March 2002 SFC binary data was processed to create daily data files. These files were used to test web plot procedures, set up by Ms. Beth Flug on warlock. Generated plots at TISA test data site were verified. (Raju)</li> </ul>	
11.0	Stassi	<ul style="list-style-type: none"> <li>The following scripts were written for the new GGEO PGE CER11.4P1 (the weeder code): clean_ggeoweeder.csh, gen_badrec_info.csh, gen_input_ggeoweeder.csh, gen_pcf_ggeoweeder.csh, run_ggeoweeder.csh. The Fortran source code was written to initialize the output file, read the ancillary data information, and overwrite bad hourboxes with default values. The code was successfully tested. (Stassi)</li> <li>The Perl script which selects which McIDAS flat files to use for inputs for GGEO main processing was integrated into the PCF generator scripts. (Stassi)</li> </ul>	
CERESlib Stassi/Ayers		<ul style="list-style-type: none"> <li>Modified TISA Gridding modules were added to a test version of CERESlib on thunder. (Raju &amp; Stassi)</li> </ul>	