March 10, 2004 - System Issues and Status

Table 1: Process Strategy/Geier as of 03/10/04
Active Requests in order of priority (1 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR18-04	Terra	ValR1	SRBAVG (SS10)	10.1P1	1/01 - 12/01	Waiting on delivery.
PR 28-04	Terra	ValR2	CRS (SS5)	5.0P1 5.1P1 5.4P1	7/01 + 1/1-2/01 + 4/2-3/01 + 10/1-2/01	Done 3/6/04.
PR 20-04	Terra	ValR2	FSW (SS 6)	6.1P1 6.2P1 6.3P1	7/01	Waiting on delivery to promote and ValR2 CRS input to be available. Crosstrack only.
PR 8-04		Edition2	GGEO (SS11)	11.1P5 11.1P6 11.1P7 11.1P8 11.2P2	1/02 - 12/02	Done 3/3/04.
PR 27-04	Terra	ValR4	SSF (SS4)	4.1-4.1P2 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	12/02	Run with start-up map. Done 2/23/04.
PR 26-04	Terra	ValR4	SSF (SS4.5-6)	4.5-6.1P2 4.5-6.2P2	12/02	Done 2/23/04.
PR 25-04	Terra	ValR4	SFC (SS9)	9.2P1 9.3P1 9.4P1	12/02	Done 2/23/04.
PR 122-03, 123-03	Aqua	Edition2	BDS (SS1)	1.3P3 1.2P1	12/02	Done 2/21/04.
PR 121-03	Aqua	Edition2	ERBElike (SS2&3)	2.4P1	6/18/02 - 8/03	Done 2/21/04.
PR 15-04, 16-04	Aqua	Beta2	SSF (SS4)	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.5-6.3P2 4.5-6.2P2 4.5-6.4P1	12/02	Done 2/26/04.

Table 1: Process Strategy/Geier as of 03/10/04
Active Requests in order of priority (2 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 14-04	Aqua	Beta2	SFC (SS9)	9.2P1 9.3P1 9.4P1	12/02	Done 2/26/04.
PR17-04	Terra	Edition2A	SRBAVG (SS10)	10.1P1	3/00 - 2/02	ValR1 must be approved before this starts.
PR 21-04	Terra	Edition2A	CRS (SS5)	5.0P1 5.1P1 5.4P1	1/01, 4/01, 7/01, 10/01	ValR2 must be approved before this runs. Crosstrack only.
PR 19-04	Terra	Edition2A	FSW (SS 6)	6.1P1 6.2P1 6.3P1	1/01, 4/01, 7/01, 10/01	ValR2 must be approved before this runs. Crosstrack only.
PR 8-04		Edition2	GGEO (SS11)	11.1P5 11.1P6 11.1P7 11.1P8 11.2P2 11.4P1	3/00 - 12/00	Done Feb ’04.
PR 96-03, 97-03	Terra	Edition2-QC	SSF (SS4)	4.1-4.1P2 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	1/02 - 2/02	Done 2/15/04.
PR 10-04, 11-04	Terra	Edition2A	SSF (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	1/02 - 2/02	Done 2/15/04.
PR 9-04	Terra	Edition2A	SFC (SS9)	9.2P1 9.3P1 9.4P1	1/02 - 2/02	Done Feb ’04.
PR 8-04		Edition2	GGEO (SS11)	11.4P1	1/02 - 2/02	Done 2/27/04.
PR 122-03, 123-03	Aqua	Edition2	BDS (SS1)	1.3P3 1.2P1	6/18/02 - 11/02 1/03 - 8/03	Done 2/21/04.
PR 117-03 to 120-03	Aqua Aqua/ Terra	Edition2	ERBElike (SS2&3)	2.2P1 2.3P1 2.3P2 3.1P1 3.2P1 3.2P2	6/18/02 - 8/03	Done 2/23/04.

Table 1: Process Strategy/Geier as of 03/10/04
Active Requests in order of priority (3 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 24-04	Aqua	Beta2	SSF (SS4)	4.1-4.3P1	12/02	Done 3/3/04.
PR 21-04	Terra	Edition2A	CRS (SS5)	5.0P1 5.1P1 5.4P1	1/01 - 12/01 remaining 8 months	ValR1 must be approved before this runs. Crosstrack only.
PR 19-04	Terra	Edition2A	FSW (SS 6)	6.1P1 6.2P1 6.3P1	1/01 - 12/01 remaining 8 months	ValR1 must be approved before this runs. Crosstrack only.
PR 99-03		GEOS4	MOA (SS12)	12.1P1	2/25/00 - 12/31/03	Done 3/5/04.
PR 109-03		GEOS4	PMOA (SS9.1)	9.1P1	3/1/00 - 12/31/03	Done 3/5/04.
M PR 99-03		GEOS4	MOA (SS12)	12.1P1	1/04 - present	Standing request to process data as it arrives.
M PR 109-03		GEOS4	PMOA (SS9.1)	9.1P1	1/04 - present	
PR 116-03	TRMM	Beta3	TSI (SS7.1)	7.1.1P1	4/98, 7/98, 8/98	Waiting on delivery to promote.
PR 97-03	Terra	Edition2-QC	SSF (SS4)	4.1-4.1P2 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	3/02 - 2/03	Running.
PR 10-04, 11-04	Terra	Edition2A	SSF (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	3/02 - 2/03	Running.
PR 9-04	Terra	Edition2A	SFC (SS9)	9.2P1 9.3P1 9.4P1	3/02 - 2/03	Running.
PR 8-04		Edition2	GGEO (SS11)	11.4P1	3/02 - 12/02	Running.
PR 8-04		Edition2	GGEO (SS11)	11.1P5 11.1P6 11.1P7 11.1P8 11.2P2 11.4P1	1/03 - 2/03	

Table 1: Process Strategy/Geier as of 03/10/04
Active Requests in order of priority (4 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR17-04	Terra	Edition2A	SRBAVG (SS10)	10.1P1	3/02- 2/03	ValR1 must be approved before this starts.
PR 21-04	Terra	Edition2A	CRS (SS5)	5.0P1 5.1P1 5.4P1	3/00 - 12/00 1/02 - 2/03	ValR1 must be approved before this runs. Crosstrack only.
PR 19-04	Terra	Edition2A	FSW (SS 6)	6.1P1 6.2P1 6.3P1	3/00 - 12/00 1/02 - 2/03	ValR1 must be approved before this runs. Crosstrack only.
PR13-04	Aqua	Beta2	SRBAVG (SS10)	10.1P1	12/02	Run once GGEO and SFC inputs are available.
Standing requests AM-PR 1-00 to 7-00	Terra	Edition1	BDS/ ERBElike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.1P1 2.2P1 2.3P1 2.3P2 3.1P1 ~~3.2P2~~	For 1/00 - present	DO NOT PROCESS 3.2P2 - it is on hold.
Standing requests AM-PR 8A-02 to 11-02	Terra	Edition2	BDS/ ERBElike (SS1-3)	1.2P1 1.3P3 2.2P1 2.3P1 2.3P2 2.4P1 3.1P1 ~~3.2P2~~	For 7/03 - present	Need Gains and SCR before processing any further. (ValRX approved) DO NOT PROCESS 3.2P2 - it is on hold.
Standing requests PM-PR 7-03A to 10-03	Aqua	Edition1	BDS/ ERBElike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1 ~~3.2P2~~	For 1/04 - present	Do not start until all January ’04 data received. DO NOT PROCESS 3.2P2 - it is on hold.

Table 1: Process Strategy/Geier as of 03/10/04
Active Requests in order of priority (5 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
Standing requests PM-PR 11-03, 13-03 to 17-03	Aqua	Edition2	BDS/ ERBElike (SS1-3)	1.3P3 1.2P1 2.2P1 2.3P1 2.3P2 2.4P1 3.1P1 ~~3.2P2~~	For 11/03 - present	Need Gains and SCR before processing any further. (ValRX approved) DO NOT PROCESS 3.2P2 - it is on hold.
Standing request PM-PR 12-03	Aqua/ Terra	Edition2	ES4/ES9 (SS3)	3.2P1	For 11/03 - present	Need Gains and SCR before processing any further. (ValRX approved)
M-PR 3-02		NSIDC-NESDIS	EICE ESNOW (SS4.1)	4.1-4.0P1	Standing request	
PR 97-03	Terra	Edition2-QC	SSF (SS4)	4.1-4.1P2 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	3/03 - 6/03	Run at LOW priority after 2/03 finishes.
PR 10-04, 11-04	Terra	Edition2A	SSF (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	3/03 - 6/03	
PR 9-04	Terra	Edition2A	SFC (SS9)	9.2P1 9.3P1 9.4P1	3/03 - 6/03	

Table 2: Process Strategy/Geier as of 03/10/04
Coming Soon

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
5/04	TRMM	Beta2	Synoptic SARB (SS7.2)	4/98, 7/98, 8/98	Rerun 3 months of SYNI to use as input for SYN/AVG/ZAVG.
	TRMM	Beta1	SYN/AVG/ ZAVG (SS8)	4/98, 7/98, 8/98	Need Synoptic SARB input.
	Terra	Beta2	TSI (SS7.1)	??	
	Terra	Beta1	Synoptic SARB (SS7.2)		
	Terra	Beta1	SYN/AVG/ ZAVG (SS8)	??	Need Synoptic SARB input.
6/04	Aqua	Beta1	CRS (SS5)	12/02	Requires redelivery.
	Aqua	Beta1	FSW (SS6)	12/02	Test at SCF to verify no redelivery needed.
	Aqua	Beta1	TSI (SS7.1)		Not on Bruce's schedule.
	Aqua	Beta1	Synoptic SARB (SS7.2)		Not on Bruce's schedule.
	Aqua	Beta1	SYN/AVG/ ZAVG (SS8)		Not on Bruce's schedule.

Table 3: March 10, 2004 - System Issues and Status

Activity	Lead	Status
CM	Ayers	• See Table 4 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 4. (Ayers) • Successfully recompiled and retested TISA Gridding PGE CER9.4P1. (Ayers) • Delivered sample read packages to the ASDC for the following products: BDS, ES-4, ES-8, ES-9, CRS, and SFC. (Ayers) • Installed, compiled, and tested the Instantaneous SARB delivery and released it to the ASDC. (Ayers) • Delivered the Clouds S'COOL data file for January 2004 to the ASDC. (Ayers) • Delivered an updated TISA Averaging script to the ASDC. (Ayers) • Installed the Clouds delta delivery and released it to the ASDC. (Ayers) • Delivered various documents to the ASDC. (Ayers, Saunders)

Table 4: SCCR Activity February 23 at 12:00 p.m. - March 8 at 2:30 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
509	X	X	X	X		5		
505			X			5	8	
506			X			2&3		
507			X			2&3		
508			X			1		
510	X		X			9	8	
511	X		X			4.1-4.3	9	

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

CERES Software Configuration Change Request Submittal
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Subsystem: InstSARB SCCR Date & TIME: 2004-02-23 11:21:37 SCCR No.: 505

Description of Change (Science):
Corrected logic in the Instantaneous SARB Subsystem Surface Albedo Pre-Processor (PGE CER5.0P1)that determines whether or not an SSF FOV is clear or cloudy to account for use of the CERES 4-byte REAL default value. No changes are required for the Main-Processor, PGE CER5.1P1.

Reason for Change (Science):
The default values were erroneously being included in the algorithms, resulting in absurd surface albedo values stored in the monthly Surface Albedo History (SAH) map that is input to the Instantaneous SARB Subsystem Main-Processor. These absurd values caused more absurd values to be included in the CRS data.

Description of Change (non-Science):
N/A

Reason for Change (non-Science):
N/A

Affected PGEs : CER5.0P1, CER5.1P1

Est. Time to Complete Changes : 1 week
Planned Delivery Date : 2/27/2004
Impact : Better results on the CRS

Originator: COLEMAN, LISA H. (SAIC)

CERES Software Configuration Change Request Submittal
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Subsystem: TISAgrid9.0 SCCR Date & TIME: 2004-03-03 10:13:11 SCCR No.: 510

Description of Change (Science): N/A

Reason for Change (Science): N/A

Description of Change (non-Science):
Updates to the SFC read package to support Terra Edition2A and Aqua Beta2 SFC product.

Reason for Change (non-Science):
New SDS (Snow/Ice Percentage from Imager History) was added to Terra Edition2A and Aqua Beta2 SFC product. Please see SCCR 476 for details.

Affected PGEs : N/A

Est. Time to Complete Changes : 1 week
Planned Delivery Date : 03/07/2004
Impact : None

Originator: RAJU, RAJA (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: Clouds4.1-3 SCCR Date & TIME: 2004-03-03 12:47:48 SCCR No.: 511

Description of Change (Science):
None

Reason for Change (Science):
None

Description of Change (non-Science):
CER4.1-4.0P1
The PCF generations script was modified to include the NESIDS snow and ice map directory path when nonstandard file names are used.

Reason for Change (non-Science):
CER4.1-4.0P1
The fix to include nonstandard file names in the PCF did not include to directory name.

Affected PGEs : CER4.1-4.0P1

Est. Time to Complete Changes : 4 hours
Planned Delivery Date : March 5, 2004
Impact : Certain dates will not process.

Originator: MILLER, WALTER F. (SAIC)

Table 5: March 10, 2004 - Subsystem Issues and Status (1 of 6)

SS No.	SS Lead	Status	Problems
1.0	Cooper	• Continued tracking receipt of Aqua and Terra data at ASDC. (Cooper, Snyder) • Submitted a paper on the Terra/Aqua intercomparison results to the Geophysical Research Journal. (Szewczyk) • Completed running data to support CERES need for an Aqua Deep Space Calibration maneuver. The data will be used to show the affect of scan-positional offsets on monthly averaged TOA fluxes. (Cooper, Kizer, Walikainen) • Working to determine updates to the Terra gain coefficients and SRFs covering July 2003 through December 2003. (Cooper, Kizer, Walikainen) • Completed read package for Edition1/Edition2 BDS products for Aqua and Terra. (Cooper) • Updating BDS Collection Guide to reflect new SDSs added to the Terra/Aqua Edition1/Edition2 BDS files. (Hess)	
2.0	Kizer	• Began generating Terra ES8N files to support July thru Dec 2003 Edition2 processing. (Walikainen, Kizer) • Continuing to provide instrument support in studying flight, ground and zero scan offsets comparison studies. Monthly averaged data files and graphics were generated. (Walikainen, Kizer) • Completed the limited ascii dump program software to generate a subset sample HDF file. (Kizer) • Continuing to examine the production email generated by the QC checker software. (Walikainen) • Continuing to inspect ERBE-like Aqua and Terra output plots and QC reports on the Web. (Walikainen, Kizer)	
3.0	Kizer	Combined with above.	

Table 5: March 10, 2004 - Subsystem Issues and Status (2 of 6)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	• Worked on developing CloudVis Web Viewer for displaying CloudVis images on the web. (R. Brown) • Processed CloudVis images for Terra-MODIS Edition2-QC through April 2001 for the Alaska ARM NSA Site. Processed CloudVis images for TRMM VIRS Edition2 for the Mexico and Lanai from January 1998 through December 1998. (R. Brown) • Processed QC global images and statistics for December 2002 for Terra MODIS ValR4 and Aqua MODIS Beta2 and posted results on web. Processed QC global images and statistics for Terra MODIS Edition2 from January 2002 through July 2002. (R. Brown) • Studied the impact of problem regarding polar transition (first found in Sea of Okhotsk). To examine the effects of this error, the algorithm was corrected and run offline 4 summer days for each hemisphere. After the studies were finished, worked Terra Edition2A SSF DQS. Lots communications with Pat Minnis. (Chen, Sun-Mack) • Validated Terra-MODIS_Edition2-QC cloud properties with surface measurements over ARM NSA from March 2000 to June 2002 for ARM meeting. (Chen, Spangenberg, Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	• Monitored Terra Edition2-QC clouds production for May through July 2002. Sixteen hours failed to process during this time. Two hours ended with a segmentation fault. They have the same problem that the hour being investigated in January (2002010406) had. Unavailable or Failed IES input data was the cause of failure for the remaining hours. (Miller)	

Table 5: March 10, 2004 - Subsystem Issues and Status (3 of 6)

SS No.	SS Lead	Status	Problems
4.4	Miller (Cont'd)	• Investigated segmentation fault that occurred for 2002062002 and 03 during Terra Edition2-QC processing. The cause of the segmentation fault was isolated to an uninitialized index in the cloud retrieval algorithm for determining optical depth. However, the source of the bad surface radiance that caused the code to bypass the branch that set the index has not been resolved. (Miller) • Updated Snow and Ice Map PGE generation script and delivered. (Miller) • Provided a description and references to the CERES Point Spread Function for MISR team through Norm Loeb. (Miller) • Rewrote the Aqua Beta1 and Terra Edition2-QC SSF Data Abstract to specify SSF parameters. (Miller) • Reviewed MODIS granules for 20020803 to determine the extent of bad granules. These granules (147) would not even open as an HDF in view_hdf. (Miller)	
4.5	Nolan	• Continued to develop new PGE CER4.5-6.6P2. A preliminary untested version now processes a full 24 hours worth of SSF binary data. (Hoppe) • Added Edition2A and Aqua Beta2 products to the SSF description/abstract Web page. (Hoppe) • Completed task to organize and move Terra Edition1A SSF Subsets from Inversion-a disk to the disks connected to bobill. (Nolan) • Provided Erika with a list of Inversion files that can be deleted from the ASDC archive. (Nolan) • Created scripts to extract from the ASDC Archive all of the nighttime Terra SSF subset files where one instrument was in crosstrack and the other instrument was in alongtrack mode. The crosstrack subset files were stored on the /CERES/inversion-mac-b disk for Costy Loukachine. (Nolan)	

Table 5: March 10, 2004 - Subsystem Issues and Status (4 of 6)

SS No.	SS Lead	Status	Problems
4.5	Nolan (Cont'd)	• Completed work at the request of Norman Loeb to create new software to rewrite all TRMM Edition2B SSF subset files to include a default admgeo parameter. The new subset files were assigned SSF ID 120 and have a format compatible with the Edition2A Terra SSFs Subsets. (Nolan) • Updated the HTML code for the Inversion Web page, http://lposun/inv/ProductionCode/. Information on the TRMM Edition2B SSF subset file locations and file format was modified. Links were changed and the TRMM PFM SSF Edition2B readme file was rewritten. (Nolan)	
4.6	Nolan	Combined with above.	
5.0	Coleman	• Re-delivered the Monthly Surface Albedo History Pre-Processor to correct the problem found in ValR1 testing where the default value being used in determining cloud coverage. (Caldwell) • Prepared ValR2-based Monthly QC plots for Working Group analysis. (Caldwell) • Finishing up modifications to the Monthly QC Summary Post-Processor. (Zentz, Caldwell) • Working with J. Donaldson as he prepares to convert SARB to execute on a Linux platform. (Coleman) • Corrected Operator's Manual in response to a question posed by the SSI&T Team. (Coleman) • Delivered updated sample read package to correspond to the Terra Edition2A CRS product. (Caldwell)	
7.2	Coleman	• Modified software to check for a TSIB region number of default (possible due to overlapping) before trying to determine the corresponding latitude and longitude. Successfully processed TSIB files produced during SSI&T through current Synoptic SARB Subsystem at the SCF. (Zentz) • Incorporating more of Fred Rose's surface albedo determination algorithm. (Zentz)	

Table 5: March 10, 2004 - Subsystem Issues and Status (5 of 6)

SS No.	SS Lead	Status	Problems
12.0	Coleman	• Modifying PCF generation scripts for a delta delivery to not include ECMWF file names when GMOA files are the primary inputs. (Caldwell)	
7.1	Nguyen	• No new updates.	
8.0	Nguyen	• No new updates.	
10.0	Nguyen	• Updated the read SRBAVG software for delivery. (Nguyen) • Ran March 2000 TRMM and Terra and provided the time series albedo, SW and LW data to Dave Young for comparison. (Nguyen) • The Edition2A SFCs have incorrect SW scene IDs 591, 592 and 593. A temporary fix was put in SRBAVG code to correct the input when Edition2A SFCs were used. The recent updated SFCs with the correct SW scene IDs were tested and compared with the change scene IDs in SRBAVG. (Nguyen) • Attended the SRBAVG meetings. (Nguyen)	
6.0	Raju	• No new updates.	
9.0	Raju	• Delivered SFC read software to CM. (Raju) • Corrected gridding code to set cloud properties including cloud area fraction to default values where there is no imager data at all for the hour. Previously the cloud area fraction was set to 0.0, and this was falsely identified as Clear Sky in the TISA Averaging process. (Raju) • Corrected TRMM ADM code to set SW ADM type 592 as unknown type. (Raju) • Processed few hours of July 2001Terra data at SCF and created SFC binary files for validations. (Raju)	

Table 5: March 10, 2004 - Subsystem Issues and Status (6 of 6)

SS No.	SS Lead	Status	Problems
11.0	Stassi	• Modified the check_moafiles.csh script to expect six-hourly DAO MOA files rather than the one-hourly files. (Stassi) • Modified the scripts which create the GGEO delivery tarfiles. The files which are exclusively associated with PGE CER11.5P1 were removed. (Stassi) • Investigated a problem on production running the January 2002 GMS data. Two B1 input files were corrupted. They were removed from the input directory and from the archives. They do not need to be replaced since because other good files for the same hours exist. (Stassi) • Ran several test runs on the July 2001 data in an attempt to gauge the impact of a correction to the clearSky icemap algorithm in the Clouds code. Plots were created with view_hdf to show the before/after differences in the GGEO clearSky visible radiances. The differences were primarily in coastal regions as expected. (Stassi) • The GGEO version of the Clouds HourQC.f90 module was modified to calculate mean tau (optical depth) as EXP(SUM(LOG(tau))/number). The full month of July 2001 was run at the SCF both before and after this change, and the outputs were given to other TISA members who will evaluate the impact of the change. (Stassi)	
CERESlib	Stassi/Ayers	• No updates.	