October 20, 2004 - System Issues and Status

Table 1: Process Strategy/Geier as of 10/20/04
Active Requests in order of priority (1 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 92-04	Terra	ValR5	SRBAVG (SS10)	10.1P1	3/00, 1/01 - 12/01	Done 10/3/04.
PR 98-04	Terra	ValR5	SRBAVG (SS10)	10.1P1	4/00 - 12/00, 1/02 - 4/02	In production.
PR 96-04 PR 97-04	Aqua	ValR4	BDS (SS1)	1.3P3 1.2P1	9 selected days (see PR)	
PR 95-04	Aqua	ValR4	ERBElike (SS2)	2.4P1	3/04 - 7/04	
PR 94-04	Aqua	ValR4	ERBElike (SS2)	2.2P1	7 selected days (see PR)	
PR 93-04	Aqua	ValR4	ERBElike (SS2)	2.3P1 2.3P2	3/1/04 6/30/04	
PR 74-04	Terra	Edition2B	SSF (SS4) Inversion	4.5-6.3P2 4.5-6.2P2 4.5-6.4P1	3/00 - 2/03	In production.
PR 73-04	Terra	Edition2B	SFC (SS9)	9.2P1 9.3P1 9.4P1	3/00 - 2/03	In production.
PR 91-04	Terra	Edition2B	SRBAVG (SS10)	10.1P1	3/00 - 2/03	Cancelled 10/14/04.
PR 84-04	Terra	Beta2	Synoptic SARB (SS7.2)	7.2.1P1	3/00	In production.
PR 86-04	Terra	Beta2	TISA avg (SS8)	8.1P1	3/00	**HOLDING - waiting on code to promote.**
PR 83-04	TRMM	Beta3	Synoptic SARB (SS7.2)	7.2.1P1	3/00	In production.
PR 84-04	Terra	Beta2	Synoptic SARB (SS7.2)	7.2.1P1	1/01, 4/01, 7/01, 10/01	In production.

Table 1: Process Strategy/Geier as of 10/20/04
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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 86-04	Terra	Beta2	TISA avg (SS8)	8.1P1	1/01, 4/01, 7/01, 10/01	**HOLDING - waiting on code to promote.**
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	3/00 - 6/00	In production. Process crosstrack Instrument only.
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	3/02	
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	7/00 - 2/01	
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	3/00 - 6/00	In production.
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	3/02	
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	7/00 - 2/01	
PR 61-04	Aqua	Edition1A	SSF (SS4) Clouds	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	7/02 - 6/03	In production.
PR 60-04	Aqua	Edition1A	SSF (SS4) Inversion	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	7/02 - 6/03	In production.
PR 59-04	Aqua	Edition1A	SFC (SS9)	9.2P1 9.3P1 9.4P1	7/02 - 6/03	In production.

Table 1: Process Strategy/Geier as of 10/20/04
Active Requests in order of priority (3 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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 9/04 - present	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 9/04 - 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 1/04 - present	**HOLDING - waiting for associated ValRx to run.** DO NOT PROCESS 3.2P2 - it is on hold.
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 3/04 - present	**HOLDING - waiting for associated ValRx to run.** DO NOT PROCESS 3.2P2 - it is on hold.
Standing request PM-PR 12-03	Aqua/ Terra	Edition2	ES4/ES9 (SS3)	3.2P1	For 1/04 - present	**HOLDING - waiting for both Terra and Aqua to have processed Edition2 data beyond 1/04.**
PR 83-04	TRMM	Beta3	Synoptic SARB (SS7.2)	7.2.1P1	1/98	A second TRMM month, if there is time before OS upgrade.

Table 1: Process Strategy/Geier as of 10/20/04
Active Requests in order of priority (4 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PRs 60-04, 61-04	Aqua	Edition1A	SSF (SS4)	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1 4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	7/03 - 12/03	
M-PR 3-02		NSIDC-NESDIS	EICE ESNOW (SS4.1)	4.1-4.0P1	Standing request	Currently not running - files getting sent have naming problem (3 digit month starting Oct'04).
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	3/01 - 2/02 4/02 - 2/03	Process crosstrack Instrument only.
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	3/01 - 2/02 4/02 - 2/03	
PR 74-04	Terra	Edition2B	SSF (SS4) Inversion	4.5-6.3P2 4.5-6.2P2 4.5-6.4P1	3/03 - 12/03	
PR 73-04	Terra	Edition2B	SFC (SS9)	9.2P1 9.3P1 9.4P1	3/03 - 12/03	
M PR 2-04		GEOS4	MOA (SS12)	12.1P1	7/04 - present	
M PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	7/04 - present	
PR 63-04	Aqua	Beta1	CRS (SS5)	5.0P1 5.1P1 5.4P1	7/02 - 6/03	
PR 62-04	Aqua	Beta1	FSW (SS6)	6.1P1 6.2P1 6.3P1	7/02 - 6/03	

Table 1: Process Strategy/Geier as of 10/20/04
Active Requests in order of priority (5 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PRs 60-04, 61-04	Aqua	Edition1A	SSF (SS4)	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1 4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	1/04 - 6/04	**HOLDING - waiting on IES availability.**
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	3/03 - 6/03	Process crosstrack Instrument only.
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	3/03 - 12/03	

Table 2: Process Strategy/Geier as of 10/20/04
Coming Soon

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
12/04		ValR11	GGEO (SS11)	3/03 to 6/03	Requires redelivery to handle GOES-9 and GOES-12; requires coefficients.
		Edition2A	GGEO (SS11)	3/03 to 6/03	ValR11 must be approved.
	Aqua	ValR1	SRBAVG (SS10)	?? months	9/10/04 delivery date; may require GGEO for 3/03 - 6/03.
	Aqua	Edition1A	SRBAVG (SS10)	7/02 - 6/03	9/10/04 delivery date; requires GGEO for 3/03 - 6/03.
unkn		ValR11	GGEO (SS11)	? months	7/03 - 6/04; requires coefficients.
		Edition2A	GGEO (SS11)	7/03 - 6/04	
	Aqua	Edition1A	SRBAVG (SS10)	7/03 - 6/04	
	TRMM	Beta4	TSI (SS7.1)	9 months	Not on Bruce's schedule.
	Terra	Beta3	TSI (SS7.1)	12 months	Not on Bruce's schedule.
	TRMM	Beta4	Synoptic SARB (SS7.2)	9 months	Not on Bruce's schedule.
	Terra	Beta3	Synoptic SARB (SS7.2)	12 months	Not on Bruce's schedule.
	TRMM	Beta4	SYN/AVG/ ZAVG (SS8)	9 months	Not on Bruce's schedule.
	Terra	Beta3	SYN/AVG/ ZAVG (SS8)	12 months	Not on Bruce's schedule.
	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: October 20, 2004 - System Issues and Status

Activity	Lead	Status
CM	Ayers	• See Table 4 for the current CERES Subsystem Delivery Schedule. (Ayers) • See Table 5 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 5. (Ayers) • Delivered the updated gains for Aqua FM3 and FM4 for March 1, 2004 through July 31, 2004 to the ASDC. (Ayers) • Delivered the updated spectral response function files for Aqua FM3 and FM4 Edition2 for March 1, 2004 through July 31, 2004 to the ASDC. (Ayers) • Delivered updated Instantaneous SARB files (SCCR 563) to the ASDC. (Saunders) • Delivered the Terra Edition2B CRS sample read package to the ASDC. (Ayers) • Updated the CERES Subsystem Delivery Schedule and posted it on the CERES CM Web site. (Ayers, Saunders)

Table 4: CERES Subsystem Delivery Schedule - October 2004
(Next CERES Science Team Meeting - November 2 - 4, 2004 in Williamsburg)

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Delivery to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)
Instrument	N/A	October 29	October 29	Terra gains files.		
ERBE-like	N/A	October 29	October 29	Terra spectral response function files.		
Inversion	December			To run alternate main on a daily basis.		
Clouds	November 19	December 3	December 10	Turn on CloudVis parameters and file for Bing Lin. Support Aqua Edition1A processing.		
TISA Averaging	November 19	December 3	December 10	Support Terra Edition2C SRBAVG.		
TISA Gridding	November 26	December 10	December 17	Support Terra Edition2C SFC.		
GGEO (SCCR 553)	December 3	December 17	December 24	Delivery to handle GOES-9 and GOES-12, new McIdas format and processing data beyond March 2003.		X
Clouds	Spring 2005			Support TRMM VIRS-only processing of August 2001 forward.		

Table 5: SCCR Activity October 4 at 12:00 p.m. - October 18 at 12:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
564	X	X	X	X		5	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: 10/08/2004 SCCR Number: 564

Description of Change (Science): N/A

Reason for Change (Science): N/A

Description of Change (non-Science):
Delivering an updated Sample Read Package for the Terra Edition2B CRS data set.

Reason for Change (non-Science):
An SDS name change in the SSF portion of the CRS product prompted the need for a new CRS read package that contains the updated SSF DPC pages.

Affected PGEs : None
Est. Time to Complete Changes: 1 day
Planned Delivery Date : October 12, 2004
Impact : None
Date: 10/08/2004 Status: SUBMITTED
Originator: COLEMAN, LISA H. (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 564:
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Description of Change (Science): None

Reason for Change (Science): None

Description of Change (non-Science): None

Reason for Change (non-Science):
This sample Read package was delivered to account for changes in SSF product documented in SCCR 533.

Affected PGEs : N/A
Est. Time to Complete Changes: N/A
Planned Delivery Date : N/A
Impact : N/A
Date & Time: 2004-10-13 16:50:45
Originator: CALDWELL, THOMAS E. (SAIC)

Table 6: October 20, 2004 - Subsystem Issues and Status (1 of 5)

SS No.	SS Lead	Status	Problems
1.0	Cooper	• Worked with Henry Flippo to help debug problems being encountered when transferring a great number of large files to the CERES archive system. At present, all appears to be working. Testing with multiple users transferring large files at a given time is required before releasing the archive to the entire CERES team. This would identify limitations and allow us to know whether it would be best to set aside times for each group to transfer their files to avoid major problems. (Cooper) • Investigating the addition of a test in the input file generators to detect when Level-0 files contain less than 5 packets of data. Having less than 5 packets of data causes the Instrument Subsystem to shut down with an error code of 200, which then requires that the short file be removed from active disk and the data day to be reprocessed. This usually occurs only with diagnostic data files. (Cooper) • Results of the CERES-FM2 comparison with GERB were presented to the Workshop on Inter-Comparison of Large Scale Optical and Infrared Sensors at the European Space Agency-European Space Research and Technology Centre in Noordwijk, The Netherlands. (Szewczyk)	
2.0	Walikainen	• 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) • Delivered Aqua Edition 2 Spectral Response Functions.[Mar04-Jul04]. (Walikainen)	
3.0	Walikainen	Combined with above.	

Table 6: October 20, 2004 - Subsystem Issues and Status (2 of 5)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	• Completed processing CloudVis images for Terra-MODIS Edition2-QC data for the Central Australia region from February 2000 through December 2003. Began processing Terra-MODIS Edition2-QC data for the Oklahoma ARM Site region. (R. Brown) • Completed processing TRMM VIRS Edition2 data from January 2001 through July 2001 for the Central Australia, Ascension Island, and Eastern Australian Coast regions. (R. Brown) • Processed Aqua MODIS Edition1a data for the Oklahoma ARM Site and Central Australian region from December 2002 through February 2002. (R. Brown) • Worked with S'COOL team and Cloud team in determining problem with missing school observation. Test cases were run for two overpasses. Processed daily S'COOL files for FLASHflux testing. (R. Brown) • Developing Multilayer Mask Algorithm. Working on channel studies. (Chen & Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	• Updated Terra CERES vs. MODIS validation page. (Miller) • Reviewed Data Quality Summary for Terra Edition2B. A few minor changes were provided Ms. Geier. (Miller) • Updated daily scripts for FLASH FLUX processing. Provided conversion steps from CERES processing of clouds/convolution to FLASH FLUX. (Miller)	

Table 6: October 20, 2004 - Subsystem Issues and Status (3 of 5)

SS No.	SS Lead	Status	Problems
4.5	Nolan	• Continued to become familiar with the documentation, products, CM and structure of the CERES software. (Sothcott) • Continued work to run the latest versions of the daily subset PGE CER4.5-6.2P2 and the monthly validation PGE CER4.5-6.4P1 with the nine additional CERES validation sites using Terra Edition2B SSFs. (Nolan & Sothcott) • Prepared and presented an overview of CERES Inversion Subsystem and instructions for running PGE CER4.5-6.1P3 to the FLASH Flux group. (Nolan) • Modified PGE CER4.5-6.1P3 scripts for FLASH Flux, prepared and tested tar files and delivered them to Greg McGarragh on 10/14/04. (Nolan) • Initiated work to modify PGE CER4.5-6.2P2 to include 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)	
4.6	Nolan	Combined with above.	
5.0	Coleman	• Redelivered the Monthly QC Summary Post-Processor ASCII and PCF generator scripts with capability to generate output files with a CC number different than the input files. (Caldwell) • Posted March 2000 Terra QC plots for Tom Charlock. (Caldwell) • Approved CRS Data Descriptions drafts for Terra Edition2A and Edition2B CRS data sets. Verified that a sample read package for the Edition2A CRS was delivered earlier this year. (Coleman)	
7.2	Coleman	• Implementing and testing corrections and additions to the QC report requested by Fred Rose. Verifying that the same code will also work with the Instantaneous SARB Subsystem, and thus maintaining the SARB library capability for QC logic. (Zentz)	

Table 6: October 20, 2004 - Subsystem Issues and Status (4 of 5)

SS No.	SS Lead	Status	Problems
12.0	Coleman	• Prepared software for Norm Loeb to read the wind vertical velocity parameter from the GEOS3 GMAO data. (Caldwell)	
7.1	Nguyen	• No new updates.	
8.0	Nguyen	• No new updates.	
10.0	Nguyen	• Studied ValR5 SRBAVGs. The following abnormalities are found: The SW surface fluxes were not defaults. The zonal monthly and monthly hourly means of albedo are greater than 25 in April 2001 SRBAVG. There are missing data in February, April, September and November 2001. The GGEO log optical depths in linear form were merged with the CERES cloud log aerosol optical depths in log form. (Nguyen) • Ran April, July, and October 2000 and January 2001 SRBAVGs for Paul Stackhouse to get the global averages of the surface fluxes. (Nguyen) • Found the cause of the missing data in April 2001 SRBAVG. (Nguyen) • Plotted to compare the results of the surface fluxes from the use of GGEO TOA fluxes and from the use of non-GGEO TOA fluxes for inputs for Dave Young. (Nguyen) • There were some NaN in the SW surface fluxes in the ValR5 SRBAVGs. Searched for the cause of this problem and reported to Dave Young. Will show the problems to Shashi Gupta for correcting the errors. (Nguyen)	
6.0	Raju	• Checked PGE CER6.2P1 code and processed April 2000 data at SCF to see if the code works correctly. Checked generated FSW zonal files and did not find any problems. (Raju)	

Table 6: October 20, 2004 - Subsystem Issues and Status (5 of 5)

SS No.	SS Lead	Status	Problems
9.0	Raju	• Found an indexing error in PGE 9.3P1 code that sort hourly SFC data files. Due to this error, the last few hourly records were not written sequentially for some regions for the months that have less than 31 days. Corrected and tested the code at SCF. Updated code will be delivered to CM in December. (Raju) • Checked February 2002 FM1 SFC hourly input files to find the cause for the PGE CER9.3P1 process fail at the production. Found that day 17, hour 23 data file did not have any valid data and that caused PGE9.3P1 to fail. Requested ASDC to run PGE CER9.3P1 without including this input file. Process ran successfully at ASDC. (Raju)	
11.0	Stassi	• The McIdas input data files did not have enough information in the header to deduce the north image scan rate when the image is split into two parts, north and south. Doug Spangenberg modified the header to include the needed information and then re-created the affected input files. (Spangenberg & Stassi) • New scripts were written to identify the McIdas input file naming convention and to create the PCF for the PGE. (Stassi) • The McIdas read routines were integrated into the GGEO source code. (Stassi) • An initial test was made with one hour of GOES-9 McIdas data. The system successfully processed the data but the Web plots indicate that the GOES-9 visible calibration table needs adjusting. Preparing to do a full day test--8 images-- for all the satellites. (Stassi)	
CERESlib Stassi/Ayers		• No updates. (Stassi)	