October 6, 2004 - System Issues and Status

Table 1: Process Strategy/Geier as of 10/06/04
Active Requests in order of priority (1 of 4)

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	In production.
PR 96-04 PR 97-04	Aqua	ValR4	BDS (SS1)	1.3P3 1.2P1	9 selected days (see PR)	**HOLDING - waiting for Aqua Gains and SRF to be delivered.**
PR 95-04	Aqua	ValR4	ERBElike (SS2)	2.4P1	3/04 - 7/04	**HOLDING - waiting for Aqua Gains and SRF to be delivered.**
PR 94-04	Aqua	ValR4	ERBElike (SS2)	2.2P1	7 selected days (see PR)	**HOLDING - waiting for Aqua Gains and SRF to be delivered.**
PR 9304	Aqua	ValR4	ERBElike (SS2)	2.3P1 2.3P2	3/1/04 6/30/04	**HOLDING - waiting for Aqua Gains and SRF to be delivered.**
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	**Holding - waiting for ValR5 to be verified and approved.**
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 10/06/04
Active Requests in order of priority (2 of 4)

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 - 2/01	In production. Process crosstrack Instrument only.
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	3/00 - 2/01	In production.
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.
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.

Table 1: Process Strategy/Geier as of 10/06/04
Active Requests in order of priority (3 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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 Aqua Gains and SRF to be delivered and 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 Aqua Gains and SRF to be delivered and 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.
PR 85-04	TRMM	Beta3	TISA avg (SS8)	8.1P1	1/98 - 8/98, 3/00	Cancelled 9/27/04.
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	When FLASHflux starts operational processing, need to keep snow/ice maps current.
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	3/00 - 2/03 remaining 2 yrs	Process crosstrack Instrument only.

Table 1: Process Strategy/Geier as of 10/06/04
Active Requests in order of priority (4 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	3/00 - 2/03 remaining years	
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	
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 10/06/04
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 6, 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) • Tested the following subsystem deliveries and released them to the ASDC: Inversion (SCCR 562) and Instantaneous SARB (SCCR 563). (Ayers, Saunders) • Delivered updated Synoptic SARB and TISA Averaging files to the ASDC. (Ayers, Saunders) • Delivered updates for the ES-9 and SSF sample read packages to the ASDC. (Ayers, Saunders) • Delivered the August 2004 Clouds S'COOL data file to the ASDC. (Saunders) • 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	Early October			Aqua gains files.		
ERBE-like	Early October			Aqua spectral response function files.		
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.		
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 September 20 at 2:00 p.m. - October 4 at 12:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
516				X		10		
550			X	X		7.2		
557				X		9		
558				X		6		
559				X		6 & 9		
560				X		CERESlib		
561			X			CERESlib		
562			X			4.5 & 4.6		
563	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: 09/29/2004 SCCR Number: 563

Description of Change (Science):
None.

Reason for Change (Science):
None.

Description of Change (non-Science):
1. Modifying the 5.4 PCF generator scripts to place temporary files under the support output files section instead of the temporary files section.
2. Modifying the 5.4 PCF generator to check for the existence of at least two input QC files before executing the Monthly QC Summary Post-Processor and terminating fatally if they are not found.
3. Modified 5.4 ASCII file and PCF generator to list QC plot output file.

Reason for Change (non-Science):
1. Correction
2. At least two QC files are required for the Monthly QC Summary Post-Processor to work.
3. Correction to facilitate easier output file handling at ASDC.

Affected PGEs : CER5.4P1
Est. Time to Complete Changes: 1 day
Planned Delivery Date : 9/30/04
Impact : None
Date: 09/29/2004 Status: SUBMITTED
Originator: CALDWELL, THOMAS E. (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 563:
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Description of Change (Science):
None

Reason for Change (Science):
None

Description of Change (non-Science):
1. Using new configuration code variable for 5.4 output files.
2. Delivering runscript and environment variable files.

Reason for Change (non-Science):
1. New configuration code variable is necessary to enable PGE output to have a different code than the input from PGE 5.1.
2. Changes were needed to implement new configuration code.

Affected PGEs : 5.4P1
Est. Time to Complete Changes: 1 day
Planned Delivery Date : 9/30/04
Impact : None
Date & Time: 2004-09-30 15:05:47
Originator: CALDWELL, THOMAS E. (SAIC)

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

SS No.	SS Lead	Status	Problems
1.0	Cooper	• The paper, "Lessons Learned in CERES: Integrating Multiple Instruments on Multiple Platforms with Multiple Sources of Data," was presented to the AIAA Space 2004 Conference and Exhibition, San Diego, CA. (Cooper) • CERES-FM2 was compared to GERB data with SEVIRI based improved geolocation. Preliminary results of this investigation will be presented at the ESA Workshop on Inter-Comparison of Large Scale Optical and Infrared Sensors (Noordwijk, The Netherlands, Oct. 12-14, 2004). (Szewczyk) • In support of determining gains and spectral response functions for Edition2 data products for March through July 2004, monthly averages were trended for the CERES instruments on Aqua for the following values: The shortwave sensor, the daytime longwave derived from the Window and Total sensors, and the daytime longwave derived by subtracting the nighttime longwave from the daytime Total sensor. These values were adjusted to a 30 degree solar zenith angle for each DCC group prior to averaging. Trending results were compared between the Edition1 and Edition2 data products. (Spence)	
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) • Testing for Aqua Edition 2 Spectral Response Functions started.[Mar04-Jul04]. (Walikainen)	
3.0	Walikainen	Combined with above.	

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

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	• Processed CloudVis images for Aqua-MODIS Edition1a for August 2002 for all 56 subset regions. Completed processing Terra MODIS CloudVis images for the Dry Tortugas region from February 2000 through December 2003. Terra MODIS CloudVis images were also processed for Alaska ARM NSA site for January 2003 through September 2003. Completed processing TRMM VIRS CloudVis images for the Pacific ITCZ region from January through July 2001. (R. Brown) • QC global images and statistics were generated and posted on the web for Aqua Edition1A from 200212 through 200303. Began processing hourly QC global images for Aqua MODIS Edition1A for July. (R. Brown) • Wrote and implemented initial Multilayer algorithm. Collecting "good" overlapping cases by using ARM SGP microwave data. (Sun-Mack) • Worked on processing MODIS at the real time for MPACE. (Chen & Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	• Monitored Aqua Edition1A data. Three, six, two, and two One hundred and fifteen, 137, 13, 4, and 14 hours were not processed for December 2002, and January and February 2003, respectively. None of the hours had IESs. (Miller) • Prepared a briefing describing clouds and convolution for FLASH FLUX. Presented the briefing to FLASH FLUX team. (Miller & Sun-Mack) • Provided definition of Snow/Ice percentage from clear-sky vis albedo for Ms. Geier. (Miller)	

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

SS No.	SS Lead	Status	Problems
4.5	Nolan	• Victor Sothcott has joined the Inversion team. He has many years of experience working with SAGE software and data. He has been working to become familiar with the documentation, products, CM and structure of the CERES software. (Sothcott) • Updated SSF DPC pages to correct ranges for SSF parameter SSF-29. (Sothcott) • Initiated 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 9 additional CERES validation sites. In order for the Surface-only Working Group to have enough data before the CERES Science Team Meeting, Terra Edition2B and Aqua Edition2A months that have already been run at the ASDC will be reprocessed at the SCF using the updated PGE. (Nolan & Sothcott) • Continued to work on metadata problems in PGE CER4.5-6.6P2. (Nolan) • Completed testing of PGE CER4.5-6.2P2 and CER4.5-6.4P1. Created and tested delivery tar files and delivered PGEs to CERES CM on September 23, 2004. (Nolan)	
4.6	Nolan	Combined with above.	
5.0	Coleman	• Modifying Monthly QC Summary Post-Processor (PGE CER5.4P1) PCF generator and run scripts to name output filenames with a CC number that is different from the input files. Also, modifying scripts to place temporary files in the support output files section of the PCF. Soliciting input from ASDC on documentation clarity. (Caldwell & Coleman) • Modifying QC report logic according to requests from Science Team. (Zentz) • Answering questions for Jim Donaldson in his quest to convert SARB code to Macs and Linux. (Coleman)	

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

SS No.	SS Lead	Status	Problems
7.2	Coleman	• Made last requested modifications to scripts and documentation so that the Synoptic SARB Subsystem could be promoted to production. (Caldwell & Zentz)	
12.0	Coleman	• Pointing FLASHFlux in the right directions. (Caldwell & Zentz)	
7.1	Nguyen	• No new updates.	
8.0	Nguyen	• No new updates.	
10.0	Nguyen	• Received 30 minutes averaged cloud data from Dave Rutan to use in the comparison of the BSRN data and the tisa surface fluxes for the clear-sky case. (Nguyen) • Created the time-series plots of the BSRN fluxes and the TISA time interpolated data for Dave Young and Dr. Paul Stackhouse. (Nguyen) • Created the scatter plots of the monthly means of the SRBAVG and BSRN surface fluxes for Dave Young. (Nguyen) • Plotted TISA versus SRB SW fluxes and TISA LW versus the 3-hourly data for GEWEX LW and LW QC fluxes of the BSRN sites for Dr. Paul Stackhouse. (Nguyen) • Provided the time-series SW and LW surface fluxes of the S. Great Plains ARM to Laura Hinkelman for further comparison and analysis. (Nguyen) • Ran April, July, October 2000 and January 2001 of SRBAVGs at SCF for the surface flux validations. (Nguyen)	
6.0	Raju	• No updates.	
9.0	Raju	• No updates.	

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

SS No.	SS Lead	Status	Problems
11.0	Stassi	• Working with read routines supplied by Doug Spangenberg for the new McIdas data format. Reformatted the routines and put them into a Fortran 90 module with an interface similar to what is used for the other data formats. The open and close statements have been replaced with calls to the Toolkit wrapper open and close routines. (Stassi) • The new TISA Web site was promoted to the production Web server. (Flug)	
CERESlib	Stassi/Ayers	• Added a header file, io_c.h, to the CERESlib include directory for the io_c.c file in the $CERESLIB/src/cereslib/ directory. (Stassi)	