December 1, 2004 - System Issues and Status

Table 1: Process Strategy/Geier as of 12/01/04
Active Requests in order of priority (1 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 102-04	Terra	ValR6	SFC (SS 9)	9.3P1 9.4P1	3/00 - 2/03	Done 11/26/04.
PR 101-04	Terra	ValR6	SRBAVG (SS10)	10.1P1	3/00 - 2/03	Done 11/26/04.
PR 104-04	Aqua	ValR2	SFC (SS 9)	9.3P1 9.4P1	7/02 - 2/03	Cancelled 11/24/04.
PR 103-04	Aqua	ValR2	SRBAVG (SS10)	10.1P1	7/02 - 2/03	Cancelled 11/24/04.
PR 100-04	Terra	Edition2C	SFC (SS 9)	9.3P1 9.4P1	3/00 - 10/03	**Hold: waiting on ValR6 to be verified.** Run only 9.3 & 9.4.
PR 108-04	Terra	Edition2C	SFC (SS 9)	9.2P1 9.3P1 9.4P1	11/03 - 12/03	**Hold: waiting on ValR6 to be verified.**
PR 99-04	Terra	Edition2C	SRBAVG (SS10)	10.1P1	3/00 - 2/03	**Hold: waiting on ValR6 to be verified.**
PR 106-04	Aqua	ValR2	SSF (SS4) Inversion	4.5-6.1P3 4.5-6.2P2	6/30/03	Verify scripts have been correctly modified before continuing.
PR 107-04	Aqua	ValR2	Clouds	4.1-4.1P3	6/30/03	Process single day with CloudVIS on. All other outputs should be identical to Edition1A.
PR 74-04	Terra	Edition2B	SSF (SS4) Inversion	4.5-6.3P2 4.5-6.2P2 4.5-6.4P1	2/25/00 - 2/29/00	Only Feb'00 files remain to be run.
PR 73-04	Terra	Edition2B	SFC (SS9)	9.2P1 9.3P1 9.4P1	~~3/00 - 12/03~~ 3/00 - 10/03	Done 11/23/04.
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	3/03	Done 11/16/04.

Table 1: Process Strategy/Geier as of 12/01/04
Active Requests in order of priority (2 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	3/03	Done 11/18/04.
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	11/00 - 2/01	Process crosstrack Instrument only.
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	9/00 - 2/01	Process crosstrack Instrument only. **Holding - Waiting on separate environment variable file.**
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	Done 11/25/04.
PR 60-04	Aqua	Edition1A	SSF (SS4) Inversion	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	7/02 - 6/03	Done 11/25/04.
PR 59-04	Aqua	Edition1A	SFC (SS9)	9.2P1 9.3P1 9.4P1	~~7/02 - 6/03~~ 7/02 - 5/03	Done 11/23/04.
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 11/04 - 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 11/04 - present	DO NOT PROCESS 3.2P2 - it is on hold.

Table 1: Process Strategy/Geier as of 12/01/04
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 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 8/04 - 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.**
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 - 6/04	Inversion cancelled. When ValR2 is approved, Edition1B processing wil begin.
PR 105-04	Aqua	Edition1B	SSF (SS4) Inversion	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	7/03 - 6/04	**HOLDING: wait until Inversion ValR2 verified before continuing.**
M-PR 3-02		NSIDC-NESDIS	EICE ESNOW (SS4.1)	4.1-4.0P1	Standing request	Oct'04 naming problem fixed. Nov'04 data didn't have naming problem.
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	Temporarily halted. Awaing Environment variable script delivery.

Table 1: Process Strategy/Geier as of 12/01/04
Active Requests in order of priority (4 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
M PR 2-04		GEOS4	MOA (SS12)	12.1P1	11/04 - present	
M PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	11/04 - present	
PR 63-04	Aqua	Beta1	CRS (SS5)	5.0P1 5.1P1 5.4P1	7/02-6/03	Cancelled.
PR 62-04	Aqua	Beta1	FSW (SS6)	6.1P1 6.2P1 6.3P1	7/02-6/03	Cancelled.
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	4/03 - 6/03	Process crosstrack Instrument only.
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	4/03 - 6/03	**Holding - Waiting on separate environment variable file.**

Table 2: Process Strategy/Geier as of 12/01/04
Coming Soon (1 of 2)

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
12/05	Aqua	ValR3	SSF (SS 4.5)	6/30/03	
	Aqua	Edition1B	SSF (SS 4.5)	7/02 - 6/03	Rerun Inversion to correct problem with Spectral Correction.
1/05	Aqua/ Terra	ValR5	BDS (SS 1)	?	Test out delivery that handles instrument patch.
	Aqua	ValR3	SFC (SS 9)	7/02 - 6/03	Correct region numbers; need Edition1B SSF as input.
	Aqua	ValR3	SRBAVG (SS10)	7/02 - 2/03	
	Aqua	Edition1B	SFC (SS 9)	7/02 - 6/03	Correct region numbers; need Edition1B SSF as input.
	Aqua	Edition1B	SRBAVG (SS10)	7/02 - 2/03	
2/05	Aqua	Beta1	CRS (SS 5)	7/02 - 6/03	
	Aqua	Beta1	FSW (SS 6)	7/02 - 6/03	
		ValR11	GGEO (SS11)	3/03 to 6/03	Requires redelivery to handle GOES-9 and GOES-12; requires coefficients.
	Aqua	ValR1	SRBAVG (SS10)	3/03 - 6/03	
3/05		Edition2A	GGEO (SS11)	3/03 to 6/03	ValR11 must be approved.
	Aqua	Edition1B	SRBAVG (SS10)	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.

Table 2: Process Strategy/Geier as of 12/01/04
Coming Soon (2 of 2)

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
	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: December 1, 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: TISA Gridding (SCCR 569), CERESlib (SCCR 561), and Clouds (SCCR 567). (Ayers, Saunders) • Delivered updated TISA Gridding (SCCR 565) scripts and documentation 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 - November 2004
(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)
TISA Gridding (SCCR 571)	November 29	December 3	December 10	Delta delivery of in support of FSW production.		
Inversion (SCCR 570)	November 19	December 3	December 10	To run Aqua alternate main and include spectral correction.		
Instrument	November 26	December 10	December 17	Update code to support satellite patch. (Terra & Aqua)		
Inversion	November 26	December 10	December 17	To run Aqua alternate main on a daily basis.		X
Instrument	2005			Terra gains files.		
ERBE-like	2005			Terra spectral response function files.		
Inversion (SCCR 568)	February 2005			To run Terra alternate main on a daily basis.		X
TISA Gridding	February 2005			Deliver all Subsystem 6 PGEs.		
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
Clouds	Spring 2005			Support TRMM VIRS-only processing of August 2001 forward.		

Table 5: SCCR Activity November 15 at 3:30 p.m. - November 29 at 2:45 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
565				X		9		
566				X		10		
567			X			4.1-3		
568	X		X			4.5 & 4.6	10	
569	X		X	X		9	10	
570	X					4.5 & 4.6	11	
571	X		X			6 & 9	11	

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

CERES Software Configuration Change Request Submittal
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Subsystem: Inversion SCCR Date & TIME: 2004-11-18 10:11:27 SCCR No.: 568

Description of Change (Science):
New PGE CER4.5-6.6P2 which will create 1 day (24 hours) of Terra Edition2B SSF data. The only difference between the data created by hourly PGE CER4.5-6.3P2 and the new daily PGE is that metadata values CERHrofDay and CERHrOfMonth will not be created using the new PGE.

Reason for Change (Science):
Metadata parameters CERHrofDay and CERHrOfMonth are read from a fixed location (ID) the PCF file by the metadata software in CERESlib and the new PGE would need different IDs for each of the 24 hours processed in order to create these metadata parameters.

Description of Change (non-Science):
New PGE CER4.5-6.6P2 which will create 1 day (24 hours) of Terra Edition2B SSF data. The SSF results of this PGE will be the same as running hourly PGE CER4.5-6.3P2 for 24 hours.

Reason for Change (non-Science):
To allow the creation of more SSF data each day by using fewer jobs at the ASDC.

Affected PGEs : None
Est. Time to Complete Changes : 2 weeks
Planned Delivery Date : December 3, 2004
Impact : None
Originator : NOLAN, SANDY K. (SAIC)

CERES Software Configuration Change Request Submittal
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Subsystem: TISAgrid9.0 SCCR Date & TIME: 2004-11-18 16:39:38 SCCR No.: 569

Description of Change (Science):
n/a

Reason for Change (Science):
n/a

Description of Change (non-Science):
PGE 9.4P1 PCF input generator script was updated to set up the input file names correctly using new environment variables that are used for PGE CER9.3P1 outputs. This is a delta delivery for Edition2C SFC product.

Reason for Change (non-Science):
Production Strategy & Configuration Code environment variables were changed for PGE CER9.3P1 output files. These files are used as inputs in PGE CER9.4P1 process.

Affected PGEs : PGE CER9.4P1
Est. Time to Complete Changes : 1 day
Planned Delivery Date : Friday, November 19, 2004
Impact : n/a
Originator : RAJU, RAJA (SAIC)

CERES Software Configuration Change Request Submittal
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Subsystem: Inversion SCCR Date & TIME: 2004-11-24 16:26:49 SCCR No.: 570

Description of Change (Science):
Aqua Inversion-only PGE, CER4.5-6.3P3 will be modified to also spectrally correct filtered radiances.

Reason for Change (Science):
Aqua Edition1A FM4 files were produced at the ASDC using FM3 spectral correction coefficients. PGE CER4.5-6.3P3 will be run using Aqua Edition1A FM4 files as input.

Description of Change (non-Science):
n/a

Reason for Change (non-Science):
n/a

Affected PGEs : CER4.5-6.3P3
Est. Time to Complete Changes : 1 week
Planned Delivery Date : December 1, 2004
Impact : n/a
Originator : NOLAN, SANDY K. (SAIC)

CERES Software Configuration Change Request Submittal
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Subsystem: TISAgrid SCCR Date & TIME: 2004-11-29 13:17:30 SCCR No.: 571

Description of Change (Science):
n/a

Reason for Change (Science):
n/a

Description of Change (non-Science):
Separate environment variable scripts were created for each TISA Gridding PGE, as requested by ASDC. This is a delta delivery.

Reason for Change (non-Science):
One environment script, used for both TISA Gridding Subsystems is causing problems for Subsystem 6 process at ASDC.

Affected PGEs : All TISA Gridding PGEs
Est. Time to Complete Changes : 2 days
Planned Delivery Date : Tuesday, November 30, 2004
Impact : n/a
Originator : RAJU, RAJA (SAIC)

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

SS No.	SS Lead	Status	Problems
1.0	Cooper	• Updated SS1 code to handle the new Bridge Balance patch to the CERES instruments. The previous code did not work correctly when the Bridge Balance patch was uploaded. A delivery of this code update may be required before the Ops System upgrade; need guidance from Kory to determine an exact delivery schedule for this update. (Hess) • Baseline data for the Ops System upgrade has been processed through the SS1 subsystem PGEs and moved to the CERES archive. (Cooper) • Continued tracking receipt of Terra/Aqua Level-0, Ephemeris and Attitude data at ASDC. The ASDC ingest system was fixed to be able to ingest Quicklook data from the CERES instruments. Data continues to arrive in a timely manner for all CERES instruments. (Cooper & Snyder)	
2.0	Walikainen	• Discovered Aqua Edition2 measurements rejected with low albedos. Until Jan04 no measurements were rejected for low albedo. This year eleven days show a reject total over 100 per day. A majority of the rejects have negative unfiltered SW radiances. Two instrument code changes were implemented around Jan04: double drift correction and the Window channel fix. Examined two days from the eleven days in question. Turning the correction off produced the same number of rejects. Turning the Window fix off produced the same number of rejects. Also Edition1 data have the same number of rejects. Continuing to investigate. (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)	
3.0	Walikainen	Combined with above.	

Table 6: December 1, 2004 - Subsystem Issues and Status (2 of 5)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	• Made Aqua-MODIS Edition1A delivery: 567. (R. Brown & Sun-Mack) • Working on digesting GLAS data. (Chen & Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	• Monitored Aqua Edition1A processing for April through July 2003. Three, two, four, and one hour respectively did not have IESs to process. (Miller) • Computed daily mean SW filtered and unfiltered radiance for Aqua 20040903 using ES8 Edition2 and SSF Edition1A data. This identified the FM4 SW unfiltered radiance to be wrong. Requested inversion to investigate the problem. (Miller) • Generated comparison between Aqua FM3 and FM4 for all-sky conditions; equatorial, mid-latitude, and polar bands; and nadir footprints. All results showed consistent percent difference between filtered and unfiltered SW radiances. (Miller) • Reviewed Data Management Plan in preparation to update. (Miller)	
4.5	Nolan	• Completed work to modify and test PGE CER4.5-6.6P2, the daily Inversion-only processor. New tar files were created and tested on warlock. (Nolan) • Completed modifications to the Inversion Operator's Manual and Test Plan. New sections for PGE CER4.5-6.6P2 were added. A new test case was added for CER4.5-6.3P3 to make sure that both FM3 and FM4 data will be tested. (Nolan) • Completed work to modify Aqua Inversion-only PGE CER4.5-6.3P3 to also produce unfiltered radiances. (Nolan)	

Table 6: December 1, 2004 - Subsystem Issues and Status (3 of 5)

SS No.	SS Lead	Status	Problems
4.5	Nolan (Cont'd)	• 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) • 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 9 additional CERES validation sites using Terra Edition2B SSFs. (Sothcott) • Initiated work to update the SSF Description/Abstract to include information on changes in the latest Clouds and Inversion deliveries. (Sothcott)	
4.6	Nolan	Combined with above.	
5.0	Coleman	• Continuing development of SARB Web pages that are OneNASA compliant. (Zentz) • Posted latest SARB QC plots to Web. (Caldwell) • Updating applicable sections of the 1990 version of the CERES Data Management Plan. (Coleman)	
7.2	Coleman	• No new updates.	
12.0	Coleman	• Continuing to investigate problems with using the ECMWF 64-bit library. Can now compile and run, but not all results are good. (Caldwell & Zentz)	
7.1	Nguyen	• No new updates.	
8.0	Nguyen	• No new updates.	
10.0	Nguyen	• Adding the daily means. Creating the new SRBAVG4. (Nguyen)	
6.0	Raju	• Separate environment variable scripts were created for each Subsystem 6.0 PGE, as requested by ASDC. The scripts were tested at the SCF and delivered to CM as part of a delta delivery. (Raju) • Operator's Manual and Test Plan documents were updated to include new environment variable script names. (Raju)	

Table 6: December 1, 2004 - Subsystem Issues and Status (4 of 5)

SS No.	SS Lead	Status	Problems
6.0	Raju (Cont'd)	• Three parameters were added to the FSW record structure. The TISA Gridding CERESlib routines were copied into a test area and modified to include the new parameters and new data access routines. PGEs CER6.1P1, CER6.2P1, and CER6.3P1 were updated to reflect the changes in the record structure. All three PGEs were tested at the SCF using six hours of CRS inputs. The generated FSW binary files were sent to the SARB and TISA science members for validation. (Raju)	
9.0	Raju	• Separate environment variable scripts were created for each Subsystem 9.0 PGE, as requested by ASDC. The scripts were tested at the SCF and delivered to CM as part of a delta delivery. (Raju) • Operator's Manual and Test Plan documents were updated to include new environment variable script names. (Raju) • Information about the MOA parameters included on the PMOA product, requested by the TISA science team, was sent to them. (Raju)	
11.0	Stassi	• An error was found in the GGEO cloudplot PGE. It was corrected and the April 2000 data were rerun using inputs reloaded from the archives. The cloudplot scratch data file was given a new format and extra parameters as requested by Dennis Keyes who is investigating some discrepancies between the GGEO and CERES cloud amounts. (Stassi) • A new subroutine, print_caltables(), was added to the calibrations module so that input satellite calibration information could be easily dumped. The satellite_info module was modified to remove the association of geostationary satellites to certain regions of the globe. This was done so that code modifications would not be necessary every time a satellite is relocated, e.g., METEO-5 and GOES-9. (Stassi)	

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

SS No.	SS Lead	Status	Problems
CERESlib	Stassi/Ayers	• CERESlib was delivered to CERES CM to update the meta_write module in support of the Clouds subsystem delivery. The code change had been implemented at the SCF in September but was not needed in production until now. (Stassi)	