

September 21, 2005 - System Issues and Status

Table 1: Process Strategy/Geier as of 09/21/05
Active Requests in order of priority (1 of 3)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
M-PR 3-02		NSIDC-NESDIS	EICE ESNOW (SS4.1)	4.1-4.0P1	Standing request	
89-05, 90-05		ValR15	GGEO (SS11)	11.1P10 11.2P2	5 months	Verify code delivery is working properly before running 3/03 - 12/04 as Beta4.
86-05 to 88-05		ValR16	GGEO (SS11)	11.1P5 11.1P6 11.1P7 11.1P8 11.2P2 11.4P1	7/02	
85-05		ValR15	GGEO (SS11)	11.6P1	10/01	
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 8/05 - present	DO NOT PROCESS 3.2P2 - it is disabled.
Standing requests PM-PRs 1-05 to 4-05	FM3	Edition1	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	8/05 forward	

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
Standing requests PM-PRs 7-05 to 10-05	FM4	Ed1-NoSW	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	8/31/05 forward	
102-05	Terra	Edition2	BDS (SS1)	1.3P3 1.2P1	12/04 - 6/05	Done 9/10/05.
99-05 to 101-05	Terra	Edition2	ERBELike (SS2)	2.4P1 2.2P1 2.3P1 2.3P2	12/04 - 6/05	Done 9/10/05.
98-05	Terra	Edition2	ERBELike (SS3)	3.1P1	11/04 - 5/05	Done 9/12/05.
97-05	Terra	Edition2	ERBELike (SS3)	3.2P1	11/04 - 2/05	Done 9/12/05.
96-05	Terra	Edition2-QC	Clouds (SS4.1-4)	4.1-4.1P2 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	12/04 - 6/05	
95-05	Terra	Edition2B	Inversion (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	12/04 - 6/05	
94-05	Terra	Edition2C	TISAgriid (SS9)	9.2P1 9.3P1 9.4P1	11/04 - 5/05	
94A-05	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	12/04	
94B-05	Terra	Edition2C	FSW (SS6)	6.1P1 6.2P1 6.3P1	11/04	
PR 52-05	Aqua	Beta1	CRS (SS5)	5.0P1 5.1P1 5.4P1	4/03 - 12/04	Done 9/9/05.

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 51-05	Aqua	Beta1	FSW (SS6)	6.1P1 6.2P1 6.3P1	4/03 - 12/04	Done 9/12/05.
M PR 2-04		GEOS4	MOA (SS12)	12.1P1	Standing request	
M PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	Standing request	
115-05	FM1	Edition1	BDS (SS1)	1.1P3 1.2P1 1.3P1 1.3P2	5/01 only	During tape migration, 5 days of latest cc# 5/01 data were lost. Rerun to replace the month.
112-05 to 114-05	Terra	ValR7	Inversion (SS4.5-6)	4.5-6.6P2 4.5-6.2P2 4.5-6.4P1	5 select days	Hold until PR 95-05 completes.
109-05 to 111-05	Aqua	ValR7	Inversion (SS4.5-6)	4.5-6.6P3 4.5-6.2P2 4.5-6.4P1	4 select 2003 days	Hold until PR 95-05 completes.

**Table 2: Process Strategy/Geier as of 09/21/05
Coming Soon (1 of 2)**

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
9/05		Beta4	GGEO (SS11)	3/03 - 12/04	Requires code promotion, ValR16 approval, and coefficient deliveries.
10/05	Terra	ValRx	SRBAVG (SS10)	3/00 - 2/03	Waiting on code delivery and GGEO runs.
	Terra	Edition2D	SRBAVG (SS10)	3/00 - 2/03	
11/05	Terra	Beta4	SRBAVG (SS10)	3/03 - 12/04	Waiting on GGEO and TISAavg deliveries.
	Aqua	Beta1	SRBAVG (SS10)	7/02 - 2/03	
	Terra	Beta3	TSI (SS7.1)	3/00 - 2/03	
12/05	Aqua	ValR8	Inversion (SS4.5-6)	Select dates 7/02 - 3/05	Waiting on Norman's ADMs and updated Surface Estimation.
	Aqua	Edition2A	Inversion (SS4.5-6)	7/02 - 3/05	Wait on ValR8 approval.
	Aqua	ValR8	SFC (SS 9)	Select dates 7/02 - 3/05	Waiting on Aqua Edition2A SSF.
	Aqua	Edition2A	SFC (SS 9)	7/02 - 2/05	Wait on ValR8 approval.
	Aqua	ValR8	CRS (SS 5)	Select dates 7/02 - 12/04	Wait on code delivery; to run on IBM cluster.
1/06	Aqua	Edition2A	CRS (SS 5)	7/02 - 12/04	Wait on ValR8 CRS approval; to run on IBM cluster.
	Aqua	ValR8	FSW (SS 6)	Select dates 7/02 - 11/04	Wait on Edition2A CRS.
	Aqua	Edition2A	FSW (SS 6)	7/02 - 11/04	Wait on ValR8 approval.
unkn	Terra	Beta3	Synoptic SARB (SS7.2)	12 months	
	Terra	Beta3	SYN/AVG/ ZAVG (SS8)	12 months	
	Aqua	Beta1	TSI (SS7.1)		Not on Bruce's schedule.

**Table 2: Process Strategy/Geier as of 09/21/05
Coming Soon (2 of 2)**

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
	Aqua	Beta1	Synoptic SARB (SS7.2)		Not on Bruce's schedule.
	Aqua	Beta1	SYN/AVG/ ZAVG (SS8)		Not on Bruce's schedule.

Table 3: September 21, 2005 - System Issues and Status

Activity	Lead	Status
CM	Ayers	<ul style="list-style-type: none">• 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)• Installed a GGEO delta delivery (SCCR 593) on <i>warlock</i> and released it to the ASDC. (Ayers)• Delivered the updated ERBE-like Operator's Manual to the ASDC. (Saunders, Ayers)• Updated the CERES Subsystem Delivery Schedule. (Ayers)

Table 4: CERES Subsystem Delivery Schedule - September 2005
(Next Science Team Meeting - November 1 - 3, 2005 in Hampton, VA)

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 594)	September 2	September 16	September 23	Delta delivery of modified scripts that will count the number of SFC hourly files available before monthly processing will run.		
TISA Averaging (SCCR 583)	September 23	October 7	October 14	Process Terra Edition2D SRBAVG.		X
CERESlib	September 30	October 14	October 21	Inversion modifications.		
Inversion (SCCR 596)	October 14	October 28	November 4	Delivering Aqua ADMs and code changes (PGE CER4.5-6.3P3) to use them.	X	
TISA Averaging	October 28	November 11	November 18	Process Terra Beta TSI.		
Instantaneous SARB	November 4	November 18	November 25	To process Aqua Edition2A CRS on the IBM cluster for 7/02 - 12/04.		
Clouds	Spring 2006			To process MODIS V005. Delivery needs to be made prior to processing Collection 5.		
Clouds	???			Support TRMM VIRS-only processing of August 2001 forward.		

Table 5: SCCR Activity September 6 at 12:00 p.m. - September 19 at 2:15 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
591				X		11		
593			X	X		11		
594		X	X			6 & 9	8	
595	X		X			11	10	

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

CERES Software Configuration Change Request Submittal

Subsystem: TISAgird SCCR Date & TIME: 2005-09-02 07:28:53 SCCR No.: 594

Parameter Change: () YES (X) NO

Description of Change (Science):
n/a

Reason for Change (Science):
n/a

Description of Change (non-Science):
PGEs' CER6.2P1, CER6.3P1, CER9.3P1, CER9.4P1 PCF generator scripts are modified to count number of input files available for monthly processing.

Reason for Change (non-Science):
The scripts are modified to check number of hourly/zonal input files for FSW and SFC monthly processing. If there is a discrepancy in the number of files compared to how many are expected, then the user is queried before proceeding.

Parameter(s) and Product(s) Being Changed (Use Name(s) from Data Products Catalog) and Description of Parameter Change:
N/A

Reason for Parameter Change:
N/A

Affected PGEs: CER6.2P1,CER6.3P1,CER9.3P1,CER9.4P1
Estimated Time to Complete Change : 1 week

Planned Delivery Date : September 16, 2005
List Affected Subsystems and PGE Names: TISA Gridding
Originator: RAJU, RAJA (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 594:

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Parameter Change: () YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
A flag was set up in environment variable scripts to indicate method of operation at ASDC. PCF generator scripts for PGEs CER6.2P1, CER9.3P1 were modified to evaluate the flag before checking the number of input files available for monthly processing.

Reason for Change (non-Science):
ASDC requested to have operator intervention only during the manual operations if there is a discrepancy in the number of files compared to how many are expected.

Parameter(s) and Product(s) Being Changed (Use Name(s) from Data Products Catalog) and
Description of Parameter Change:
N/A

Reason for Parameter Change:
N/A

Affected PGEs: CER6.2P1, CER9.3P1
Estimated Time to Complete Change : Completed
Planned Delivery Date : September 16, 2005
List Affected Subsystems and PGE Names: TISA Gridding
Date & Time: 2005-09-14 11:24:43
Originator: RAJU, RAJA (SAIC)

CERES Software Configuration Change Request Submittal

Subsystem: GGEO

SCCR Date & TIME: 2005-09-19 11:48:14

SCCR No.: 595

Parameter Change: () YES (X) NO

Description of Change (Science):

Updated ir_cal_adjustment.nml file.

Reason for Change (Science):

Ampersand was missed in front of GMS-5 coefficient namelist-group.

Description of Change (non-Science):

n/a

Reason for Change (non-Science):

n/a

Parameter(s) and Product(s) Being Changed (Use Name(s) from Data Products Catalog) and
Description of Parameter Change:

N/A

Reason for Parameter Change:

N/A

Affected PGEs: ggeo main processor

Estimated Time to Complete Change : completed

Planned Delivery Date : September 19, 2005

List Affected Subsystems and PGE Names: GGEO

Originator: RAJU, RAJA (SAIC)

Table 6: September 21, 2005 - Subsystem Issues and Status (1 of 5)

SS No.	SS Lead	Status	Problems
1.0	Cooper	<ul style="list-style-type: none"> Continued monitoring receipt of Aqua and Terra Level-0, Ephemeris and Attitude data. (Cooper, Snyder) Continue to monitor FM4 anomaly. (Team) Special operations to cover the Valencia Anchor Station took place Sept. 12 - 17 using FM2. ODSs were created and modified by the operations team to avoid any scanning in the ram direction. (Szewczyk) Modifications to account for the use of the short scan profile in the CERES/GERB intercalibrations. Short scan is being used to help avoid any scanning in the ram direction. (Szewczyk) The characterization of the MAM for all 4 CERES instruments has been started. Data was collected in the science and diagnostic APIDs; however, studies require angles that are only calculated in the calibration APID processing mode, so the software was tricked to allow processing of the data as if it were in the calibration APID. This is a special test and the updates to allow this processing will not be made to the production code. (Team) As requested by Kory, investigating blackbody heater to temperature ratio trends using modified CER1.3P2. Ascertaining possible PRT degradation. (Hess) 	
2.0	Walikainen	<ul style="list-style-type: none"> Producing FLASHflux (000003) spectral files. (Walikainen) Continuing to monitor Terra Direct Compare with FM2 in cross track mode after two months of stow. Providing an upper bound estimate of possible cross track degradation by assuming Sep 05 upturn is degradation not noise. (Walikainen) Reducing noise in Direct Compare Nadir analysis by extending matched sceneIDs from one footprint to three consecutive footprints. (Walikainen) Continuing to examine the production email generated by the QC checker software. (Walikainen) 	

Table 6: September 21, 2005 - Subsystem Issues and Status (2 of 5)

SS No.	SS Lead	Status	Problems
2.0	Walikainen (Cont'd)	<ul style="list-style-type: none"> Continuing to inspect ERBE-like Aqua and Terra output plots and QC reports on the Web. (Walikainen) 	
3.0	Walikainen	Combined with above.	
4.1	Sun-Mack	<ul style="list-style-type: none"> CloudVis images for Terra MODIS Edition2-QC data from January 2004 through March 2004 were generated for the following subset regions: Belgium, Spain, The Netherlands, Nigeria, South Africa, Germany, Switzerland, Israel, Algeria, Tropical Forests of Africa, Sunlint, and Aerosol Bursts. CloudVis images for Aqua MODIS Edition1A data were generated from August 2004 through December 2004 for the following regions: Cape Verde, Oklahoma ARM site, Dry Tortugas, Northern Brazil, Greece, Central Australia, Pacific ITCZ, Tropical Western Pacific, Nauru, Salt Lake City, and Paliseau France. (R. Brown) Worked on new Flight Track matches. Staged all data for April and May 2005 for those granules that have corresponding flight tracks. Processed these granules. Wrote the new code to extract MCRS cloud properties. Automate DX displays. (Chen, Gibson, Sun-Mack) Prepared for Clouds section of NPEOSS meeting. (Sun-Mack) 	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	<ul style="list-style-type: none"> Monitored Terra Edition2-QC processing. December 2004 was completed with fifteen hours not having a valid IES. (Miller) Modification for using MODIS produced cloud properties for a sensitivity study requested by Norm Loeb continued. Integrated the latest update from earlier work from clouds into my version. Developed code to add final parameter (cloud emissivity), but still debugging it. (Miller) 	

Table 6: September 21, 2005 - Subsystem Issues and Status (3 of 5)

SS No.	SS Lead	Status	Problems
4.4	Miller (Cont'd)	<ul style="list-style-type: none"> Investigated best method to process Terra data using updated daytime polar mask. Current plan is to process Terra data through current 1P3 (Aqua) processor. (Miller) Reviewed storyline for CMMI Class C assessment. (Miller) 	
4.5	Nolan	<ul style="list-style-type: none"> Continued modification of SCF version of the Aqua CER4.5-6.3P3 code to add support for the updated LW/WN and SW ADM's from Norman Loeb. Continued testing the modifications for verification and validation of the changes. (Sothcott) Continued work to create binary SSF and SSF validation files using the updated SW surface flux models for all FM1 Edition2 July 2002 data for Shashi Gupta. (Sothcott) Continued work to modify Aqua CER4.5-6.1P3 scripts code for the Aqua Edition2 updates. (Nolan) Continued work to modify the Inversion Test Plan and Operator's Manual to include changes for the Aqua Edition2 updates. (Nolan) Prepared and presented a description of the Inversion Subsystem for NPOESS on September 14, 2005. (Nolan) 	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Completed a test run of Main-Processor on manila and evaluating results. The initial evaluation indicates only a few expected precision differences. (Zentz) Prepared presentations for Curtis Davis with the NPOESS project. (Coleman, Zentz) 	
7.2	Coleman	<ul style="list-style-type: none"> Completed a test run on manila, but other than verifying it ran the results have not yet been evaluated. (Zentz) Processed a zone using a new TSIB file as input on the SGI SCF and made results available to Fred Rose. (Zentz) 	

Table 6: September 21, 2005 - Subsystem Issues and Status (4 of 5)

SS No.	SS Lead	Status	Problems
12.0	Coleman	<ul style="list-style-type: none">Completed a test run on manila. Initial review indicate success with the only differences between platforms being due to precision. (Caldwell)Prepared presentations for Curtis Davis with the NPOESS project. (Coleman, Caldwell)	
7.1	Nguyen	<ul style="list-style-type: none">Ran zone 90 of July 2002 with the new GGEO code for Fred Rose to validate. (Nguyen)	
8.0	Nguyen	<ul style="list-style-type: none">No new updates.	
10.0	Nguyen	<ul style="list-style-type: none">Writing scripts and testing code for the upcoming delivery. (Nguyen)Updated the Operator's Manual and the Test Plan. (Nguyen)Ran 4 seasonal months of TRMM and Terra SRBAVGs. Provided the SRBAVGs for Dave Doelling to validate and the interpolated surface fluxes for Dave Rutan to compare with the measured data. (Nguyen)Ran 4 months of Aqua and Terra (July, October, December 2002) and March 2000 TRMM and Terra. Wrote output interpolated TOA fluxes into ascii files for Dave Doelling to validate. (Nguyen)Doelling found the differences in the non-GGEO and GGEO zonal monthly mean TOA SW fluxes in the polar regions. Modified code and tested. (Nguyen)Ran 36 months of SRBAVGs for Doelling to validate and provided the interpolated Surface fluxes for Dave Rutan to compare with the measured data. (Nguyen)	
6.0	Raju	<ul style="list-style-type: none">Met with the ASDC personnel to discuss the input file checks in the pcf scripts. Updated scripts and getting ready to make delta deliver to CERES CM. (Raju)	
9.0	Raju	<ul style="list-style-type: none">Same as above. (Raju)	

Table 6: September 21, 2005 - Subsystem Issues and Status (5 of 5)

SS No.	SS Lead	Status	Problems
11.0	Raju	<ul style="list-style-type: none">• Ran test cases using new vis & ir coefficient files. Delivered the files to CERES CM. (Raju)• Processed Jan04 native format, Oct04 mcidas format data for all satellites at SCF using new coefficients and the outputs were made available to Dave Doelling. (Raju)• Found that there are few hours of Dec03, Jan04 GOES-12 input files have bad data on them. Requested the ASDC not to include these files in the production process. (Caldwell, Raju)	
CERESlib Coleman/Zentz		<ul style="list-style-type: none">• No new updates.	