

September 7, 2005 - System Issues and Status

Table 1: Process Strategy/Geier as of 09/07/05
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	
108-05	Terra	ValR6	BDS (SS1)	1.3P3 1.2P1	Select days/ months	Done 9/2/05.
105-05 to 108-05	Terra	ValR6	ERBELike (SS2)	2.4P1 2.2P1 2.3P1 2.3P2	Select days/ months	Done 9/2/05.
104-05	Terra	ValR6	ERBELike (SS3)	3.1P1	2/05, 4/05	Done 9/2/05.
103-05	Terra	ValR6	ERBELike (SS3)	3.2P1	2/05	Done 9/2/05.
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.

Table 1: Process Strategy/Geier as of 09/07/05
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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	
PR 91-05 to 93-05	FM4	Ed1-NoSW	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 2.2P1 2.3P1 2.3P2 3.1P1	3/30/05 - 7/18/05	Done 9/1/05.
58-05	Aqua	Edition1A	Clouds (SS4.1-4)	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	8/04 - 3/05	Done 8/29/05.
57-05	Aqua	Edition1B	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	8/04 - 3/05	Done 8/29/05.
56-05	Aqua	Edition1B	TISAgriid (SS9)	9.2P1 9.3P1 9.4P1	7/04 - 2/05	Done 8/29/05.
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	
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	
102-05	Terra	Edition2	BDS (SS1)	1.3P3 1.2P1	12/04 - 6/05	Hold until ValR6 approved.
99-05 to 101-05	Terra	Edition2	ERBELike (SS2)	2.4P1 2.2P1 2.3P1 2.3P2	12/04 - 6/05	Hold until ValR6 approved.
98-05	Terra	Edition2	ERBELike (SS3)	3.1P1	11/04 - 5/05	Hold until ValR6 approved.
97-05	Terra	Edition2	ERBELike (SS3)	3.2P1	11/04 - 2/05	Hold until ValR6 approved.

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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	Hold until Terra Edition2 IES available.
95-05	Terra	Edition2B	Inversion (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	12/04 - 6/05	Hold until ValR7 SSF approved and inputs available.
94-05	Terra	Edition2C	TISAgriid (SS9)	9.2P1 9.3P1 9.4P1	11/04 - 5/05	Hold until Terra Edition2B SSF available.
94A-05	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	12/04	Hold until Terra Edition2B SSF available.
94B-05	Terra	Edition2C	FSW (SS6)	6.1P1 6.2P1 6.3P1	11/04	Hold until Terra Edition2B CRS available.
PR 52-05	Aqua	Beta1	CRS (SS5)	5.0P1 5.1P1 5.4P1	4/03 - 12/04	
PR 51-05	Aqua	Beta1	FSW (SS6)	6.1P1 6.2P1 6.3P1	4/03 - 12/04	
M PR 2-04		GEOS4	MOA (SS12)	12.1P1	Standing request	
M PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	Standing request	
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	No starting date yet, temperatures need to be returned to nominal and settle out.	Hold until receive direction from Instrument group.

Table 2: Process Strategy/Geier as of 09/07/05
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 09/07/05
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 7, 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)• Delivered the preliminary Delivery Memos for GGEO (SCCR 592) and TISA Gridding (SCCR 594) to the ASDC. (Saunders, Ayers)• Updated the CERES Subsystem Delivery Schedule. (Ayers)• Began work to update CM scripts to extract metrics for subsystem software. (Sothcott)

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)
GGEO	August 12	September 9	September 9	Deliver coefficients so GGEO can be run for March 2003 - December 2004.		
TISA Gridding	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 2	September 16	September 23	Process Terra Edition2D SRBAVG.		X
TISA Averaging	October 7	October 21	October 28	Process Terra Beta TSI.		
CERESlib	October			Inversion modifications		
Inversion	Late October			Delivering Aqua ADMs and code changes (PGE CER4.5-6.3P3) to use them.		
Instantaneous SARB		November 18		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 August 22 at 11:15 a.m. - September 6 at 12:00 p.m.

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

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

CERES Software Configuration Change Request Submittal

Subsystem: GGEO

SCCR Date & TIME: 2005-08-24 13:41:16

SCCR No.: 593

Parameter Change: () YES (X) NO

Description of Change (Science):

Regression coefficients for IR and VIS data processing.

Reason for Change (Science):

These coefficients are needed for Mar03 - Dec04 GGEO process.

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: PGEs CER11.1P5-8, CER11.1P10

Estimated Time to Complete Change : 1 week

Planned Delivery Date : August 26, 2005

List Affected Subsystems and PGE Names: GGEO

Originator: RAJU, RAJA (SAIC)

CERES Software Configuration Change Request Submittal

Subsystem: TISAGrid

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)

Table 6: September 7, 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) Terra ValR6 runs for updated gains have been validated. ERBE-Like approval needed before Edition2 processing can begin. (Cooper) Continue to monitor FM4 anomaly. (Team) Special operations to cover the Valencia Anchor Station to take place Sept. 12 - 17 using FM2. (Szewczyk) Temperatures for Aqua-FM4 are now back to the nominal value of 38 degrees. Ed1-NoSW processing can continue beginning with Sept. 1, 2005 when all of the September data becomes available. (Team) Terra-FM2 has been placed back into Crosstrack after being in stow for 2 months. Expected operations include the Valencia Anchor Station coverage, but are otherwise expected to be in normal crosstrack mode through October. (Team) The characterization of the MAM for all 4 CERES instruments will be tested out using Aqua-FM4. If all goes as planned, scheduling of the characterization will be planned for the other 3 instruments. (Team) 	
2.0	Walikainen	<ul style="list-style-type: none"> Evaluating ValR6s for recent Terra delivery. (Walikainen) Determining which files need to be ignored for CER3.1P1 to run correctly. This is to accommodate FM4's anomalous SW channel. (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: September 7, 2005 - Subsystem Issues and Status (2 of 5)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	<ul style="list-style-type: none"> • QC global images and statistics were processed and posted on the web for Aqua MODIS Edition1A from December 2004 through March 2005. (R. Brown) • CloudVis images for Terra MODIS Edition2-QC data were generated for the Alaska ARM site region from January 2004 through November 2004. CloudVis images for Aqua MODIS Edition1A data were also generated for Alaska ARM site from August 2004 through November 2004. (R. Brown) • Worked on Pat Minnis's SPIE extended abstract. (Sun-Mack) • Worked on Flight/MODIS matches validation. (Chen, Sun-Mack) • Worked on looking into MOD04 Vdata reader. (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 Aqua Edition1A processing. The last two months were completed. One and four hours were not processed because of missing IES data. (Miller) • Discovered changes in the MOD04 collection 5 format. They include using VGroups and one SDS name change. (Miller) • Modification for using MODIS produced cloud properties for a sensitivity study requested by Norm Loeb continued. Received the latest update from earlier work from clouds. (Miller) 	
4.5	Nolan	<ul style="list-style-type: none"> • Modified 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. Started testing the modifications for verification and validation of the changes. (Sothcott) 	

Table 6: September 7, 2005 - Subsystem Issues and Status (3 of 5)

SS No.	SS Lead	Status	Problems
4.5	Nolan (Cont'd)	<ul style="list-style-type: none"> Completed binary SSF and SSF validation files using the updated SW surface flux models for all FM2 Edition2B SSF January 2002 data. These data were run a second time using the 3P2 code with the ADMGEO correction removed and a fresh copy of the input files. (Sothcott) Started 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) Initiated work to modify Aqua CER4.5-6.1P3 scripts code for the Aqua Edition2 updates. (Nolan) Initiated work to modify the Inversion Test Plan and Operator's Manual to include changes for the Aqua Edition2 updates. (Nolan) 	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Continuing S4P effort by improving on what was already done for the poll_data and register_local_data stations. (Zentz) Continuing to work with the SARB Working Group to change the definition SARB uses of coastal to ocean %s between 20 and 90 as opposed to 1 to 99. While the results appeared good at first glance, it was noticed that percentages of 21 and 89 were showing changes which should not be the case. A "tweak" was supplied by the Working Group, implemented, and 24 hours processed. (Zentz) 	
7.2	Coleman	<ul style="list-style-type: none"> No new updates. 	
12.0	Coleman	<ul style="list-style-type: none"> No new updates. 	
7.1	Nguyen	<ul style="list-style-type: none"> No new updates. 	
8.0	Nguyen	<ul style="list-style-type: none"> No new updates. 	
10.0	Nguyen	<ul style="list-style-type: none"> Continue preparing for the upcoming delivery. (Nguyen) 	

Table 6: September 7, 2005 - Subsystem Issues and Status (4 of 5)

SS No.	SS Lead	Status	Problems
10.0	Nguyen (Cont'd)	<ul style="list-style-type: none"> Used the SFC surface data informations to create the snow/ice data to avoid using new code and new PGE. The snow/ice data was sent to Dave Doelling for comparing and validating prior to approval. (Nguyen) Doelling wanted to know the differences between including and not including CERES albedo in the GGEO method. Several runs of July 2001 SRBAVGs were completed to provide the output SRBAVGs to Doelling for his study. (Nguyen) Working on the CMMI Requirement Log for TISA. (Nguyen) Modified code to run SRBAVG to output the GGEO monthly hourly number of observations for Doelling for his validation. (Nguyen) 	
6.0	Raju	<ul style="list-style-type: none"> There was a concern on how CER6.2P1, CER6.3P1 PCF generator script modifications will effect at APGS testing. Started looking into other alternative methods. (Raju) 	
9.0	Raju	<ul style="list-style-type: none"> Same as above. (Raju) 	
11.0	Raju	<ul style="list-style-type: none"> Multiple jobs/month generated multiple Cold cloud and Noon data files. TISA science requested to have one file/month. Wrote a FORTRAN 90 program to write multiple files' data onto one file. Processed several months and the files were made available to TISA science members. (Raju) The previous regression coefficients that were used in GGEO process was checked and the requested information was provided to science members. (Raju) Processed July02, Oct02, Oct04 data through 1-hourly process and the generated GGEO product was made available to TISA Averaging. (Raju) Recompiled GGEO code in ValTC directory and July 2002 data was processed through PGE 11.2P1 successfully. Started learning how to use GGEO validation tools. (Caldwell) 	

Table 6: September 7, 2005 - Subsystem Issues and Status (5 of 5)

SS No.	SS Lead	Status	Problems
CERESlib Coleman/Zentz		<ul style="list-style-type: none">• No new updates. Planning to pursue related activities on the cluster as soon as all appropriate personnel are in town.	