

May 16, 2007 - System Issues and Status

**Table 1: Process Strategy/Geier as of 05/16/07
Active Requests in order of priority (1 of 4)**

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	
PR 69-07	FM1 or FM2	Beta3	TISA avg (SS 8)	8.1P1 8.2P1	3/00 - 2/03	Highest Priority
PR 5-07	FM1 or FM2	Beta3	Synoptic SARB (SS 7.2)	7.2.1P1	6/01, 3/03 - 10/05, 1/03	
PR 69-07	FM1 or FM2	Beta3	TISA avg (SS 8)	8.1P1 8.2P1	3/03 - 10/05	
PR 84-07 to 89-07	FM3 or FM4	ValR10	Inst. SARB (SS 5)	5.0P1 5.1P2 5.4P2	3 select months (7/02, 12/05, 4/06)	
PR 79A-07 to 79D-07	FM1 or FM2	Edition2B	Inst. SARB (SS 5)	5.0P1 5.1P1 5.4P1	Select months/ days	Validation files for Terra must be called Edition2B and be run with a cc# that distinguishes them as such.
Standing requests AM-PR 1-05 to 7-05	Terra	Edition1-CV	BDS/ ERBELike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.1P1 2.2P1 2.3P1 2.3P2 3.1P1	Standing request	These PRs replace standing requests AM- PR 1-00 to 7-00.
Standing requests PM-PRs 15-05 to 18-05	FM3	Edition1-CV	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	Standing request	These PRs replace standing requests PM-PRs 1-05 to 4-05.

Table 1: Process Strategy/Geier as of 05/16/07
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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
Standing requests PM-PRs 11-05 to 14-05	FM4	Ed1-CV-NoSW	BDS/ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	Standing request	These PRs replace standing requests PM-PRs 7-05 to 10-05.
PR 20-07 to 30-07	FM1, FM2	Edition2	Instrument/ERBELike (SS 1-3)	2.4P1 1.3P3 1.2P1 2.2P1 2.3P1 2.3P2 3.1P1 3.2P1	2006	Done 5/3/07.
PR 63-07	FM1, FM2, MODIS 004	Edition2-QC	Clouds (SS4.1-4)	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	1/1/06 - 8/1/06	
PR 62-07	FM1	Edition2B	Inversion (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	3/1/06 - 8/1/06	
PR 60-07	FM1	Edition2C	TISA grid (SS 9)	9.2P1 9.3P1 9.4P1	3/1/06 - 8/1/06	
PR 61-07	FM2	Edition2B	Inversion (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	1/1/06 - 8/1/06	
PR 59-07	FM2	Edition2C	TISA grid (SS 9)	9.2P1 9.3P1 9.4P1	1/1/06 - 8/1/06	
PR 74-07 to 76-07	FM2	Edition2B	SARB (SS5)	5.0P1 5.1P1 5.4P1	12/31/05 - 3/1/06	Wait for Terra Validation CRS to be approved.
PR 72-07	FM2	Edition2C	TISAgid (SS6)	6.1P1 6.2P1 6.3P1	12/31/05 - 3/1/06	Wait for Edition2B CRS.
PR 77-07 to 79-07	FM1	Edition2B	SARB (SS5)	5.0P1 5.1P1 5.4P1	3/06 - 6/06	Wait for Terra Validation CRS to be approved.

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 73-07	FM1	Edition2C	TISAgird (SS6)	6.1P1 6.2P1 6.3P1	3/06 - 6/06	Wait for Edition2B CRS.
PR 68-07	FM3, FM4, MODIS 004	Edition1A	Clouds (SS4.1-4)	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	1/1/06 - 5/1/06	
PR 67-07	FM3	Edition2B	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	1/1/06 - 5/1/06	
PR 65-07	FM3	Edition2B	TISA grid (SS 9)	9.2P1 9.3P1 9.4P1	1/1/06 - 5/1/06	
PR 81-07 to 83-07	FM3	Edition2B	SARB (SS5)	5.0P1 5.1P2 5.4P2	12/31/05 - 5/1/06	Wait for Aqua ValR10 CRS approval.
PR 80-07	FM3	Edition2B	TISAgird (SS6)	6.1P1 6.2P1 6.3P1	12/31/05 - 4/06	Wait for Edition2B CRS.
PR 12-07	FM3	Edition2B	Inversion (SS4.5-6)	4.5-6.6P3 4.5-6.2P2 4.5-6.4P1	7/2/02 hr 15 to 1/1/06 hr 11	
PR 9-07	FM3	Edition2B	TISA grid (SS 9)	9.2P1 9.3P1 9.4P1	7/2/02 hr 15 to 1/1/06 hr 11	
PR 11-07	FM4	Edition2B	Inversion (SS4.5-6)	4.5-6.6P3 4.5-6.2P2 4.5-6.4P1	7/2/02 to 3/30/05 hr 17	
PR 8-07	FM4	Edition2B	TISA grid (SS 9)	9.2P1 9.3P1 9.4P1	7/2/02 to 3/30/05 hr 17	
PR 84A-07 to 84C-07	FM3 or FM4	Edition2B	SARB (SS5)	5.0P1 5.1P2 5.4P2	7/02 - 12/05	Wait for Aqua ValR10 CRS approval.
PR 84D-07	FM3 or FM4	Edition2B	TISAgird (SS6)	6.1P1 6.2P1 6.3P1	7/02 - 12/05	Wait for Edition2B CRS.

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 10-07	FM4	Ed2B-NoSW	Inversion (SS4.5-6)	4.5-6.6P3 4.5-6.2P2 4.5-6.4P1	3/30/05 hr 18 to 1/1/06	
PR 7-07	FM4	Ed2B-NoSW	TISA grid (SS 9)	9.2P1 9.3P1 9.4P1	3/31/05 hr 12 to 1/1/06 hr 11	
PR 66-07	FM4	Ed2B-NoSW	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	1/1/06 - 5/1/06	
PR 64-07	FM4	Ed2B-NoSW	TISA grid (SS 9)	9.2P1 9.3P1 9.4P1	1/1/06 - 5/1/06	
M PR 2-06		GEOS4	MOA (SS12)	12.1P1	Standing request	
M PR 1-06		GEOS4	PMOA (SS9.1)	9.1P1	Standing request	

Table 2: May 16, 2007 - System Issues and Status

Activity	Lead	Status
CM	Ayers	<ul style="list-style-type: none">• See Table 3 for the current CERES Subsystem Delivery Schedule and Table 4 for the current CERES Coefficients Delivery Schedule. (Ayers)• See Table 5 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 5. (Ayers)• Updated the CERES Subsystem and Coefficients Delivery Schedules and posted them on the Web. (Ayers, Saunders)

Table 3: CERES Subsystem Delivery Schedule - May 2007

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)	Certified Platform(s)
TISA Averaging (SCCR 650)	March 30	May 18	May 25	Support Terra Edition2E and Aqua Edition2B SRBAVG1-3 and Daily processing.		X	<i>warlock & magneto</i>
CERESlib	May 11	May 25	June 1	Clouds modifications.			<i>warlock & magneto</i>
Clouds (SCCR 603)	May 11	May 25	June 1	To process MODIS V005. Delivery needs to be made prior to processing Collection 5. To continue Terra/Aqua Ed2 processing.	X		<i>warlock</i>
GGEO (SCCR 653)	May 25	June 8	June 15	Coefficient delivery for 11/05 - 4/06. Code delivery to support MTSAT.			<i>warlock</i>
Instrument (SCCR 641)	July 6	July 20	July 27	Delivery of simulated IES PGE to support TRMM VIRS-only processing.			<i>warlock & magneto</i>
Clouds	Summer			Support TRMM VIRS-only processing of August 2001 forward.			<i>warlock</i>
TISA Averaging	Summer			To support Terra Beta4 and Aqua Beta1 TSI processing.			<i>warlock</i>
Synoptic SARB	Summer			To support Terra Beta4 and Aqua Beta1 SYNI processing.			<i>warlock & magneto</i>
SARB	Summer			MATCH (collection 5) data files for May - December 2006.			<i>warlock & magneto</i>

Table 3: CERES Subsystem Delivery Schedule - May 2007

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)	Certified Platform(s)
Instrument (SCCR 610)		July		To allow processing of both Edition2 and Edition3 data through PGE CER1.3P3			<i>warlock</i>
TISA Averaging		Fall		To support Terra Beta4 and Aqua Beta1 AVG, ZAVG, and SYN process- ing.			<i>warlock</i>
SARB		Fall		MATCH (collection 5) data files for January - June 2007.			<i>warlock & magneto</i>
Clouds		November		Terra/Aqua Beta1 Edition3 SSF pro- cessing.			<i>warlock</i>
Inversion		Two weeks after Clouds		Terra/Aqua Beta1 Edition3 SSF pro- cessing.	X		<i>warlock & magneto</i>
TISA Gridding		Two weeks after Inversion		Support Terra/Aqua Beta Edition3 SFC processing.			<i>warlock & magneto</i>
TISA Gridding		???		PMOA delta delivery dealing with overlap file checking.			<i>warlock</i>

Table 4: CERES Coefficients Delivery Schedule - May 2007

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	Certified Platform(s)
GGEO	N/A	July		Initial coefficients for 5/06 - 12/06.	<i>warlock</i>
Instrument/ ERBE-like	N/A	Early Fall 2007		Terra Edition3 gains and spectral response function files for February 2000 - June 2005.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	N/A	Early Fall 2007		Aqua Edition3 gains and spectral response function files for June 2002 - March 2005.	<i>warlock/ magneto</i>
GGEO	Fall	Fall		Final coefficients for 1/06 - 4/06.	<i>warlock</i>
Instrument/ ERBE-like	N/A	2008		Terra Edition3 gains and spectral response function files for July 2005 - December 2005.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	N/A	2008		Aqua Edition3 gains and spectral response function files for April 2005 - December 2005.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	???			TRMM Edition3 gains and spectral response function files for December 1997 - April 2000.	<i>warlock/ magneto</i>

Table 5: SCCR Activity April 30 at 2:30 p.m. - May 15 at 9:00 a.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
654	X						9	
655	X						12	

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

CERES Software Configuration Change Request Submittal

Subsystem: Clouds

SCCR Date & TIME: 2007-05-15 08:43:09 SCCR No.: 654

Parameter Change: (X) YES () NO

Description of Change (Science):
None

Reason for Change (Science):
N/A

Description of Change (non-Science):
Many of these changes were originally identified in SCCR 603, but it was decided to start Collection 005 processing before Edition3 SSF was ready.

CER4.1-4.1P2 (Terra Main)

++(1)+Current MODIS reader with this delivery handles both collection 004 and collection 005 MOD02, MOD03 and MOD04. MOD04 reader was modified.+ Mean_Reflectance_Land for 3.75um are not provided in MOD04 collection 005. (Req 4-3.1)

++(2) Terra Edition2 Hourly QC format were changed to match Aqua Edition1. (Req 4-3.2)

++(3) CloudVis subset regions were increased to 68. (Req 4-3.3)

++(4) Whole hour CloudVis was turned on for Terra Edition2. (Req 4-3.4)

++(5) Footprints influenced by a solar eclipse will be removed from the file by checking the IES quality flag. (Req 4-3.5)

++(6)+The number of input files that can be transferred between cloud metadata into convolution metadata will be increased to 120. (Req 4-3.6)

CER4.1-4.1P3 (Aqua Main)

++(1)+Current MODIS reader with this delivery handles both collection 004 and collection 005 MOD02, MOD03 and MOD04. MOD04 reader was modified.+ Mean_Reflectance_Land for 3.75um are not provided in MOD04 collection 5. (Req 4-3.1)

++(2) CloudVis subset regions were increased to 68. (Req 4-3.3)

CER4.1-4.2P1 (Daily QC)

++(1) Daily QC executables between Terra Edition2 and Aqua Edition1 were combined. (Req 4-3.2)

CER4.1-4.2P2 (Clear Sky Update)

++(1) No changes, delivered as part of the processing stream.

CER4.1-4.3P1 (Monthly QC)

++(1) Monthly QC between Terra Edition2 and Aqua Edition1 were combined. (Req 4-3.2)

All PGEs

++ (1) Replaced LaRC email addresses with NOMAD email addresses.+This is a script change only. (Req 4-3.8)

Reason for Change (non-Science):

CER4.1-4.1P2

+ (1) MODIS is no longer providing collection 004 data after July 2006.+the formats for the MOD04 file is not the same as collection 004.

+ (2) This provides consistency between platforms.

+ (3) Frequent requests for data over additional areas have been received.

+ (4) Frequent requests have been received for pixel level data.

+ (5) Previously, whole 5 minute MODIS granules were removed from the archive when a solar eclipse occurred within it.+Now, only CERES FOV under the eclipse are removed.

+ (6) The addition of MOD04 files exceeded the original limit, but was not identified in previous delivery

CER4.1-4.1P3

+ (1) MODIS is no longer providing collection 004 data after April 2006.+The formats for the MOD04 file is not the same as collection 004.

+ (2) Frequent requests for data over additional areas have been received.

CER4.1-4.2P1

+ (1) Simplifies running Daily clouds QC.

CER4.1-4.2P2

+ (1) Eases delivery, SSIT, and Configuration Code assignment, CER4.1-4.3P1

+ (1) Simplifies running Monthly clouds QC

All PGEs

+ (1) With the change to NOMAD, the current Email addresses will not be delivered.

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

The Single Scanner Footprint (SSF) is being changed.

PSF-wtd MOD04 mean reflectance land (3.750) (SSF-144) will be default due to the loss of that variable in the collection 005 MOD04 product.

MODIS radiance calibration and small geolocation changes will result in differences in parameters that are based on MODIS data.+Clear Footprint Area (SSF-66 through SSF-79), Cloudy Footprint Area (SSF-81 through SSF-114), Footprint Imager Radiance Statistics (SSF-115 through SSF-131).

New MODIS aerosol and cloud clearing algorithm will change MODIS Land Aerosols (SSF-132 through SSF-145) and MODIS Ocean Aerosols (SSF-146 through SSF-160).+

Reason for Parameter Change:

Changes in MODIS radiance, geolocation, and aerosol with collection 005 will cause some inconsistencies when compared to collection 004 parameters.

Affected PGEs:

CER4.1-4.1P2, CER4.1-4.1P3, CER4.1-4.2P1, CER4.1-4.2P2, CER4.1-4.3P1

Estimated Time to Complete Change : Five months (work performed under SCCR603)

Planned Delivery Date : May 25, 2007

List Affected Subsystems and PGE Names: Inversion 4.5-6.1P2 and 4.5-6.1P3; SARB 5.0P1 and 5.1P1; and TISA 9.2P1,

Originator: MILLER, WALTER F. (SSAI)

CERES Software Configuration Change Request Submittal

*** All changes described in this SCCR were made in CERESlib. ***

Subsystem: Clouds4.4

SCCR Date & TIME: 2007-05-15 08:50:52 SCCR No.: 655

Parameter Change: () YES (X) NO

Description of Change (Science):

None

Reason for Change (Science):

N/A

Description of Change (non-Science):

GRing.f90 was updated to better handle missing data within an hour. (Req 4-4.1)

Reason for Change (non-Science):

Transition to new ASDC database identified problems with GRing in some granules.

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: CER4.1-4.1P2 and CER4.1-4.1P3

Estimated Time to Complete Change : One Month

Planned Delivery Date : May 25, 2007

List Affected Subsystems and PGE Names: Inversion 4.5-6.1P2 and 4.5-6.1P3; SARB 5.0P1 and 5.1P1

Originator: MILLER, WALTER F. (SSAI)

Table 6: May 16, 2007 - Subsystem Issues and Status (1 of 3)

SS No.	SS Lead	Status	Problems
1.0	Cooper	<ul style="list-style-type: none"> Perl 5.8 is now available on all machines at the SCF. No work was done on the scripts yet, as there were problems at the SCF with CERESlib and the SAN disk. These problems have been resolved and work should begin this week on verifying the scripts and creating the new scripts for the IES simulator. (Cooper) Testing continues on the cluster to track down the cause of the "BAD" Pre-ES8 files. So far every test we have tried has not solved the problem; however, we have been able to eliminate some things as possible causes. (Cooper, Zentz) Edition3 gains and SRFs are still being worked. The next set of testing for beta 7 was delayed due to the issues with CERESlib and the SAN over the past week. (Cooper) 	
2.0	Walikainen	<ul style="list-style-type: none"> Edition3 testing continues. Processing nadir files through ERBE-like validation to compare with SSF results. (Walikainen) Created Edition1-CV QC reports for a second time constant study. These tests are for months where the instruments are in the RAPS mode. Previously we only did cross track months. (Szewczyk and Walikainen) Continuing to examine QC checker email generated during production. Including the Edition1-CV data products. (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: May 16, 2007 - Subsystem Issues and Status (2 of 3)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	<ul style="list-style-type: none"> • QC global Cloud Fraction images were produced for FLASHflux data for November 14 & 15, 2006 and December 25 & 26, 2006. (R. Brown) • Transitioning from Sun to Mac. (R. Brown) • Preparations for MODIS collection 5 delivery. (Sun-Mack). • Move. (All) 	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	<ul style="list-style-type: none"> • Continued to modify and test GRing code. Updated code was tested on 2 months of SSF data. Six hours were identified to improve point spacing. (Miller) • Continued preparation for Collection 005 delivery. (Miller) • Prepared for a meeting with Dr. Loeb's on the parallax study. This study will address pixel or FOV location to intersect at cloud height and not surface. (Miller) • Started migration to new iMac. (Miller) 	
4.5	Sothcott	<ul style="list-style-type: none"> • Continued work to incorporate all common subroutines and modules across the Inversion PGEs into one common library for Inversion. (Sothcott) • Started conversion of scripts to perl. (Sothcott) 	
4.6	Sothcott	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> • Prepared FSW and CRS QC summary plots and posted them on the SARB Web site. (Caldwell) 	
7.2	Coleman	<ul style="list-style-type: none"> • Discussing subset runs for Dave Doelling with TISA Working Group. (Caldwell) • Studying new code provided by Fred for surface albedo history maps for processing Beta4 SYNI. (Caldwell) 	
12.0	Coleman	<ul style="list-style-type: none"> • No new updates. 	
7.1	Nguyen	<ul style="list-style-type: none"> • No new updates. 	

Table 6: May 16, 2007 - Subsystem Issues and Status (3 of 3)

SS No.	SS Lead	Status	Problems
8.0	Nguyen	<ul style="list-style-type: none"> Modified syn validation program to include clear-sky fluxes, and to create monthly file in HDF format for Regions:[-120E,0;0,60N]. Processed August 2000 - October 2000 SYN data and provided outputs to Moguo Sun. (Raju) 	
10.0	Nguyen	<ul style="list-style-type: none"> Ran March 2000 TRMM and Terra interpolated data using Terra code and 1-hourly and 3-hourly GGEO data for Moguo Sun to analyze. (Nguyen) Updated code to correct the zonal surface fluxes for January 2003 SRBAVGs. (Nguyen) Ran December 2005 Terra FM1 with 1-hourly MET8 GGEO to produce the interpolated fluxes and cloud data for Michele Nordeen to analyze. (Nguyen) Preparing for the delivery. (Nguyen) 	
6.0	Raju	<ul style="list-style-type: none"> No new updates. (Raju) 	
9.0	Raju	<ul style="list-style-type: none"> Started making temporary changes to cereslib grid routines to provide the grid characteristics for a 0.5 degree equal-angle grid to generate gridding products with 0.5 grid structure. This test is requested by TISA science members to see the impacts on TISA products. (Raju) 	
11.0	Raju	<ul style="list-style-type: none"> Processed December 2005 MET8 data at SCF and provided 1-hourly GGEO product to TISA averaging working group. (Raju) 	
CERESlib Coleman/Zentz		<ul style="list-style-type: none"> Meeting with Subsystem Leads to tackle Big/Little Endian flag issue for non-HDF products. (Coleman) 	