

February 21, 2007 - System Issues and Status

**Table 1: Process Strategy/Geier as of 02/21/07
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	
PR 17-07 to 18-07	FM3 or FM4	ValR10/ ValR10-NoSW	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2	12/31/05	Dave Kratz wants to approve these before he leaves in early-April.
PR 15-07 to 16-07	FM3 or FM4	ValR11/ ValR11-NoSW	Inversion (SS4.5-6)	4.5-6.3P3 4.5-6.2P2	12/31/05	
PR 13-07 to 14-07	FM3 or FM4	ValR12/ ValR12-NoSW	Inversion (SS4.5-6)	4.5-6.6P3 4.5-6.2P2	12/31/05	
PR 1-OS7 to 118-OS7	FM1, FM2, FM3, or FM4	ValR2OS*	All sub-systems	all active PGEs	See individual PRs	Attempt to get as many CERES PGEs validated on new OS and TK 5.2.12 as quickly as possible.
PR 19-07	FM3, FM4	Beta6	TISA avg (SS10)	10.1P5 10.1P4	6/04 - 3/05	
PR 19b-07	FM3,	Beta6	TISA avg (SS10)	10.1P5 10.1P4	4/05 - 10/05	
PR 19c-07	FM4	Beta6-NoSW	TISA avg (SS10)	10.1P5 10.1P4	4/05 - 10/05	
PR 129-06	FM3, FM4	Beta6	TISA avg (SS10)	10.1P5 10.1P4	7/02 - 5/04	Closed 2/12/07.
PR 131-06	FM1 or FM2	Beta3	Synoptic (SS7.2)	7.2.1P1	3/00 - 12/01 2/03	Waiting on 12/00 problem resolution from SARB to go into production.

Table 1: Process Strategy/Geier as of 02/21/07
Active Requests in order of priority (2 of 3)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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.
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 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	Wait for ValR11 and ValR12 approval.
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	Wait for input from PR 12-07.
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	Wait for ValR11-NoSW and ValR12-NoSW approval.
PR 8-07	FM4	Edition2B	TISA grid (SS 9)	9.2P1 9.3P1 9.4P1	7/2/02 to 3/30/05 hr 17	Wait for input from PR 11-07.
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	Wait for ValR11-NoSW and ValR12-NoSW approval.

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Active Requests in order of priority (3 of 3)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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	Wait for input from PR 10-07.
PR 6-07	FM1 or FM2	Beta3	TISA avg (SS 7.1)	7.1.1P1	6/01, 3/03 - 10/05	Extend the TSI/SYNI data set out as far as possible to determine effects of GGEO satellite changes.
PR 5-07	FM1 or FM2	Beta3	Synoptic SARB (SS 7.2)	7.2.1P1	6/01, 3/03 - 10/05	
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: February 21, 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) • Installed the Synoptic SARB delta delivery associated with SCCR 644 on both <i>warlock</i> and <i>magneto</i> and released it to the ASDC. (Saunders) • Finished testing the Inversion delivery associated with SCCR 638 and released it to the ASDC. (Saunders) • Populated the /CERES/CERES_CM-san directory. (Ayers) • Updated the CERES Subsystem and Coefficients Delivery Schedules and posted them on the Web. (Ayers, Saunders)

Table 3: CERES Subsystem Delivery Schedule - February 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 639)	February 2	February 16	February 23	Support Terra/Aqua Beta3 SYN/AVG/ZAVG processing.			<i>warlock</i>
Clouds (SCCR 603)	March 2007			To process MODIS V005. Delivery needs to be made prior to processing Collection 5. To run Terra/Aqua Beta1-Ed3 SSF.	X	X	<i>warlock</i>
TISA Averaging	Spring 2007			Support Edition2D SRBAVG Daily & ISCCP-like processing.			<i>warlock</i>
Instrument	Spring 2007			Delivery of simulated IES PGE to support TRMM VIRS-only processing.			<i>warlock</i>
Clouds	Spring 2007			Support TRMM VIRS-only processing of August 2001 forward.			<i>warlock</i>
Instrument (SCCR 627)	Spring 2007			To allow processing of both Edition2 and Edition3 data through PGE CER1.3P3			<i>warlock</i>
Inversion	Two weeks after Clouds			Terra/Aqua Beta1 Edition3 SSF processing.	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 - February 2007

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	Certified Platform(s)
Instrument/ ERBE-like	N/A	February 23	February 23	Terra and Aqua Edition2 gains and spectral response function files for January 1, 2006 - January 1, 2007.	<i>warlock/ magneto</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>
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 February 5 at 12:00 p.m. - February 16 at 12:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
639		X				8	7	
644	X		X			7.2	10	
645	X					10	11	

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

CERES Software Configuration Change Request Submittal

Subsystem: TISAavg8.0

SCCR Date: 10/13/2006

SCCR Number: 639

Parameter Change: (X) YES () NO

Description of Change (Science):

1. Req# 8-1 Update and modify the 3-hourly average code and the monthly 3-hourly average code
2. Req# 8-6 Add MODIS aerosol optical depths to SYN/AVG/ZAVG
3. Req# 8-7 Compute TOA flux errors
4. Req# 8-8 Add a check for defaults in SYNI parameters and linearly interpolate the data if necessary
5. Req# 8-9 Compute untuned fluxes from tuned and adjusted fluxes
6. Req# 8-10 Compute direct and diffuse fluxes from the total fluxes and the direct diffuse ratios. Average the direct and the diffuse fluxes to compute the averaged direct diffuse ratios.
7. Req# 8-11 Add number of hourboxes for observed, untuned and tuned SW and LW fluxes

Reason for Change (Science):

Requested by scientists

Description of Change (non-Science):

1. Req# 8-3, 8-4 Delete parameters, add new parameters
3. Req# 8-2 Change the SYN/AVG/ZAVG structures
4. Req# 8-5 Remove number of observations in AVG/ZAVG

Reason for Change (non-Science):

Requested by scientists

Parameter(s) and Product(s) Being Changed (Use Name(s) from Data Products Catalog) and

Description of Parameter Change:

Refer to the Requirement Log numbers: 8-2, 8-3 and 8-4

Reason for Parameter Change:
Requested by scientists

Affected PGEs: CER8.1P1
Estimated Time to Complete Change : 1 week
Planned Delivery Date : October 20, 2006
List Affected Subsystems and PGE Names: None
Date: 11/15/2006 Status: UNKNOWN
Originator: NGUYEN, CATHY (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 639:

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Parameter Change: () YES (X) NO

Description of Change (Science):
8. Req# 8-5 Remove number of observations in AVG/ZAVG

Reason for Change (Science):
Requested by scientists

Description of Change (non-Science):
Remove items 1 and 2 since they are included in Parameter Change
1. Req# 8-3, 8-4 Delete parameters, add new parameters
2. Req# 8-2 Change the SYN/AVG/ZAVG structures
Move item 3 to Science Change
3. Req# 8-5 Remove number of observations in AVG/ZAVG

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: CER8.1P1
Estimated Time to Complete Change : 1 week
Planned Delivery Date : December 8, 2006
List Affected Subsystems and PGE Names: None
Date & Time: 2006-11-15 15:26:05
Originator: NGUYEN, CATHY (SAIC)

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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):

Req#8-14+New PGE CER8.2P1 delivery to create web plots for SYN product

Reason for Change (non-Science):

Requested by scientist

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: CER8.2P1

Estimated Time to Complete Change : Complete

Planned Delivery Date : February 16, 2007

List Affected Subsystems and PGE Names: None

Date & Time: 2007-02-15 15:01:51

Originator: NGUYEN, CATHY (SSAI)

CERES Software Configuration Change Request Submittal

Subsystem: SynSARB

SCCR Date & TIME: 2007-02-08 11:11:28

SCCR No.: 644

Parameter Change: () YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
(Req #7.2-1.11)
Delivery of MATCH data file for Dec 31, 2000
(MATCH_TERRA_VERTICAL_MODIS.20001231)

Reason for Change (non-Science):
(Req #7.2-1.11)
File was not available during previous delivery.

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: 7.2.1P1
Estimated Time to Complete Change : 1 day
Planned Delivery Date : February 9, 2007
List Affected Subsystems and PGE Names: 7.2.1P1
Originator: CALDWELL, THOMAS E. (SSAI)

CERES Software Configuration Change Request Submittal

Subsystem: TISAavg10.0 SCCR Date & TIME: 2007-02-16 11:57:29 SCCR No.: 645

Parameter Change: () YES (X) NO

Description of Change (Science):

n/a

Reason for Change (Science):

n/a

Description of Change (non-Science):

Req#10-30 Updated GGEO file check script to correct the location of GGEO product at DAAC

Reason for Change (non-Science):

For DAAC process to get the correct GGEO data

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: CER10.1P4

Estimated Time to Complete Change : Complete

Planned Delivery Date : February 23, 2007

List Affected Subsystems and PGE Names: None

Originator: NGUYEN, CATHY (SSAI)

Table 6: February 21, 2007 - Subsystem Issues and Status (1 of 5)

SS No.	SS Lead	Status	Problems
1.0	Cooper	<ul style="list-style-type: none"> Continued to monitor receipt of Aqua and Terra data at the ASDC. (Cooper, Snyder) At least 3 of the instrument group have moved all of their data onto the SAN disk. A couple of questions related to home directories and .cshrc files have come up during this transition that need to be discussed with the DMT, because they will affect everyone. (Cooper) All ValR2OS and ValR2OS-2 data has been validated and all of the instrument PGEs necessary for Baseline-QC production have been promoted into production. A problem with the PCF generators for CER1.1P2, 4 & 6 was discovered during this evaluation and these PGEs have been disabled. These are the quicklook PGEs and since we haven't received quicklook data in a few years now, they are not considered vital. The PCF generator updates will be delivered with the next instrument delivery scheduled for July 2007. (Cooper) Edition2 and Edition3 processing on the cluster is going well, however, Dale is still seeing bad Pre-ES8 files. When the files are reprocessed the problems clear up. Looking at the nodes that each data date was processed, did not help, as the failed jobs were processed on several different nodes and no pattern to the nodes could be determined. (Cooper, Donaldson, Snyder) A problem in PGE CER1.1P3 for FM2 02/08/2007 has been discovered. The data date cannot be processed at ASDC for the entire day. A software fix needs to be implemented to be able to process the entire data date. The question on the table, is do we make a delivery to allow this data date to be processed, or do we give special instructions to process the data up to 12:00 UT, and wait for the July delivery. This fix should also affect CER1.3P3, but this data date will not be processed until after the July timeframe for this PGE. (Cooper, Hess) 	

Table 6: February 21, 2007 - Subsystem Issues and Status (2 of 5)

SS No.	SS Lead	Status	Problems
2.0	Walikainen	<ul style="list-style-type: none"> Transferring data and code to erbelike-san directory. Testing continues to make ancillary and subsystem code work. (Walikainen) Created seasonal spectral correction coefficients and nadir files for Aqua Edition3. This is Test5. Direct comparisons were generated and submitted to the science team. (Walikainen) Created FM2 Edition1-CV QC reports for a second time constant study. The QC reports are for a month of data and are generated with an instrument thermal response that differs for our hard coded production parameters. Several new parameters were tried and some showed promise. (Szewczyk and Walikainen) Evaluated ValR2OS files and approved all ERBE-like PGEs for OS upgrade processing. (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.	
4.1	Sun-Mack	<ul style="list-style-type: none"> CloudVis images for Terra Edition2-QC data from January 2002 through December 2002, January 2004 through December 2004, and July 2005 through December 2005 were produced for the Ny Alesund, Spitsbergen region. Results were posted on the Web. (R. Brown) Working on modifying QC global images and stats code for Collection 5 and 4 study. (R. Brown) Many communications and emails with Mike King (GSFC) regarding collection 5 MODIS cloud retrieval product and new parameters they have added to collection 5. He is a good communicator (:)). Processed a day of Terra for comparison between CERES and MODIS. (Chen, Sun-Mack) 	

Table 6: February 21, 2007 - Subsystem Issues and Status (3 of 5)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Cont'd)	<ul style="list-style-type: none"> Assisted Rabi on GEO processing with new models and algorithms, also checked and validated his results after the implementation in GEO processing. (Sun-Mack) Assisted Fred Rose on reading GLAS data and understanding GLAS data. (Sun-Mack) Worked with Yong Hu on building a combined model between CERES and Calipso. (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"> Started comparison of ValR2OS(2/3) data with Edition2-QC or Edition1A respectively. (Miller) Regressed cloud fraction with respect to Estimated Inversion Strength (EIS) for four climatological months in 2005 for ocean, land, snow, and all. The regressions were forwarded to Dr. Robert Wood, University of Washington as requested by Dr. Norm Loeb, CSB. These runs were done on the cluster. (Miller) Tested convolution part of PGE 1P3 on all three systems (<i>corregidor</i>, <i>thunder</i>, and cluster). Efforts were made to eliminate some differences. The area_clr difference was dropped from E-4 to <E-5 that occurred on 15% of the footprints in the test run. The other difference in the QC report could not be improved, but the values are on the order of E-6 obtained from subtracting two numbers on the order of E2 or 3. These are all acceptable from a scientific view. (Miller) Migration of data and code to the SAN continued. (Miller) 	

Table 6: February 21, 2007 - Subsystem Issues and Status (4 of 5)

SS No.	SS Lead	Status	Problems
4.5	Sothcott	<ul style="list-style-type: none"> Attended weekly SOFA working group meetings. (Sothcott) Continued transfer of data from <i>thunder/lightning</i> disks to inversion-san. (Sothcott) Started testing algorithm upgrades to the LW Model B software. (Sothcott) This item was done to support CM: Finished updating the source code line-counting script to include new PGEs CER10.1P3, CER10.1P4 and CER10.1P5. (Sothcott) 	
4.6	Sothcott	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Received request to deliver software to produce the Aqua2B CRS dataset. (Caldwell, Coleman) 	
7.2	Coleman	<ul style="list-style-type: none"> No new updates. 	
12.0	Coleman	<ul style="list-style-type: none"> Working with FLASHflux team to answer a variety of questions. (Caldwell) Working with Fred Rose on implementing Edition3 ideas. (Caldwell) 	
7.1	Nguyen	<ul style="list-style-type: none"> No new updates. 	
8.0	Nguyen	<ul style="list-style-type: none"> As per Dave Doelling, Fred Rose suggestions, several updates were made to SYN Web plot software. Processed 07/02 data and created Web plots for validations. (Raju, Beth Flug) Updated TISA Averaging Operator's manual and test_ plan documents to include new PGE CER8.2P1 information. (Raju) Updated code to correct the monthly mean albedo. (Nguyen) Continue correcting and testing July 2002 Terra SYN/AVG/ZAVG for validation. (Nguyen) Ran 4 seasonal months for validation. (Nguyen) Preparing for delivery. (Nguyen) Updated code to remove the initial broadband and the surface albedos since the average of the 2 parameters can not be done. (Nguyen) 	

Table 6: February 21, 2007 - Subsystem Issues and Status (5 of 5)

SS No.	SS Lead	Status	Problems
10.0	Nguyen	<ul style="list-style-type: none"> • Converting code for CER10.1P4 and CER10.1P5 to work on the <i>corregidor</i>. (Nguyen) • Ran CER10.1P5 and CER10.1P4 on <i>corregidor</i> and compared with outputs produced from SGI. Found differences. Investigating the causes of the differences. (Nguyen) • Preparing for the delta delivery of the GGEO file check script for DAAC processing. (Nguyen) 	
6.0	Raju	<ul style="list-style-type: none"> • No new updates. 	
9.0	Raju	<ul style="list-style-type: none"> • No new updates. 	
11.0	Raju	<ul style="list-style-type: none"> • Generated 3-hourly GGEO product from 1-hourly files for March 2000 and files made available to SRBAVG processing. (Raju) • Work continued to validate Edition2A product. (Raju) 	
CERESlib Coleman/Zentz		<ul style="list-style-type: none"> • No new updates. 	