January 21, 2009 - System Issues and Status

Table 1: Process Strategy/Coleman as of 1/20/2009
Active Requests in order of priority

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	
PRs 14-09 through 21-09	FM1, FM2, FM3, FM4	ValR12	BDS, ES-8, ES-4, ES-9	1.3P3, 1.2P1, 2.4P1, 2.2P1, 2.3P1, 2,3P2, 3.1P1	9/07, 5/08, 2/08	Process immediately upon delivery and promotion of gains and SRF
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 6-09	FM1 or FM2	Edition2C	TSI	7.1.1P1	3/1/2000 – 10/31/05	Ready. Process 1st year, then do 1st year of PR 5-09

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 5-09	FM1 or FM2	Edition2C	SYNI	7.2.1P1	3/1/2000 – 10/31/05	Ready. Process 1st year, and then do 1st year of 3-09.
PR 4-09	FM1 or FM2	Edition2C	SYN/AVG /ZAVG	8.1P1	3/1/2000 – 10/31/05	Process 1st year, then do 1st year of PR 1-09.
PR 3-09	FM3 or FM4	Edition2	TSI	7.1.1P1	7/1/2002 – 10/31/05	Ready. Process 1st year, then do 1st year of PR 2-09.
PR 2-09	FM3 or FM4	Edition2B	SYNI	7.2.1P1	7/1/2002 – 10/31/05	Ready. Process 1st year, then go back to PR 6-09.
PR 1-09	FM3 or FM4	Edition2B	SYN/AVG /ZAVG	8.1P1	7/1/2002 – 10/31/05	Process 1st year, then go back to PR 4-09.
PR 6-09	FM1 or FM2	Edition2C	TSI	7.1.1P1	3/1/2000 – 10/31/05	Ready. 1st year processed. Now need to do 1st year of PR 5-09.
PR 91-08	CERES	DAO-G5-CERES	PMOA	9.1P1	10/2007 – 11/2007	Done. 1/9/09
PRs 22-09 through ??	FM1, FM2, FM3, FM4	Edition2	BDS, ES-8, ES-4, ES-9	2.4P1, 1.3P3, 1.2P1, 2.2P1, 2.3P1, 2.3P2, 3.1P1, 3.2P1	9/2/07 – 1/1/09	Pending promotion. Need to process 8/2/07 – 1/1/08 at high priority, then lower priority on 2008 dates.
PR 57-08	FM1, FM2	Edition2A-QC	SSFI Clouds	4.1-4.1P4 4.1-4.2P3 4.1-4.2P2 4.1-4.3P2	1/1/07 – 9/1/07	ON HOLD – Processing may resume as soon as inputs are available and OK'd.
PR 56-08	FM1, FM2	Edition2F	SSF Inversion	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	1/1/07 – 9/1/07	ON HOLD – Processing may resume as soon as inputs are available and OK'd.

Table 1: Process Strategy/Coleman as of 1/20/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 55-08	FM1, FM2	Edition2F	SFC TISA-Grid	9.2P1 9.3P1 9.4P1	12/31/06 hr 12 – 9/1/07 hr 11	ON HOLD – Processing may resume as soon as inputs are available and OK'd.
PR 54-08	FM1 V005 MOD08	Edition2F	CRS Inst SARB	5.0P1 5.1P1 5.4P1	1/1/07 – 8/31/07	ON HOLD – Processing may resume as soon as inputs are available and OK'd.
PR 53-08	FM1	Edition2F	FSW TISA-Grid	6.1P1 6.2P1 6.3P1	1/1/07 – 8/31/07	ON HOLD – Processing may resume as soon as inputs are available and OK'd.
PR 84-08	FM1 or FM2	Beta1	ISCCP-D2like-Day/Nit	9.0P1	03/2000 – 08/2007	ON HOLD – Processing may resume as soon as inputs are available and OK'd.
PR 64-08	FM3, FM4	Edition1B-IGBP	SSFI Clouds	4.1-4.1P5 4.1-4.2P3 4.1-4.2P2 4.1-4.3P2	01/01/2004 – 12/31/2005	In Progress - IN THE BACKGROUND PRIORITY.
PR 63-08	FM3, FM4	Ed2C-MOD-C4-Land-IGBP	SSF Inversion	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	01/01/2004 – 12/31/2005	In Progress
PR13-09	CERES	DAO-G5-CERES	MOA	12.1P1	1/1/08 – 1/1/09	Pending input
PR 12-09	CERES	DAO-G5-CERES	PMOA	9.1P1	1/08 – 12/08	Pending promotion and input
PR 7-09	FM1	ValR12	CRS Inst SARB	5.0P1 5.1P1 5.4P1	5/1/07 – 5/31/07	Pending promotion
PR 11-09	FM3	ValR10	FSW TISA-Grid	6.1P1 6.2P1 6.3P1	6/30/07 – 8/1/07	Pending promotion

Table 1: Process Strategy/Coleman as of 1/20/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 10-09	FM3	ValR10	SFC TISA-Grid	9.2P1 9.3P1 9.4P1	6/30/07 – 8/1/07	Pending promotion
PR 09-09	FM1	ValR10	FSW TISA-Grid	6.1P1 6.2P1 6.3P1	4/30/07 – 6/1/07	Pending promotion
PR 08-09	FM1	ValR10	SFC TISA-Grid	9.2P1 9.3P1 9.4P1	4/30/07 – 6/1/07	Pending promotion

Table 2. January 21, 2009 - System Issues and Status

Activity	Lead	Status
CM/Documentation	Ayers (Saunders)	• See Table 2 for the current CERES Subsystem Delivery Schedule and Table 3 for the current CERES Coefficients Delivery Schedule. (Ayers) • See Table 4 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 4. (Ayers) • TISA Gridding (SCCR 685) was successfully installed, compiled, and tested on *magneto-P4* and released to the ASDC (1/19/09). (Ayers) • The TISA Gridding Test Plan (SCCR 685) was updated, posted on the Web, and delivered to the ASDC. (Saunders) • An updated TISA Gridding script (SCCR 684) was provided to the ASDC. (Ayers) • The effort to convert the SSF Collection Guide to Word continued. (Saunders) • Preparing the CERES CM training presentation. (Ayers) • The CERES Subsystem and Coefficients Delivery Schedules were updated and posted on the Web. (Ayers, Saunders)

Table 3. CERES Subsystem Delivery Schedule - January 2009

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)
Inversion (SCCR 690)	January 9	January 23	January 30	All Terra and Aqua Edition2 PGEs on *magneto*.			*magneto-P4*
Instantaneous SARB (SCCR 694)	January 16	January 30	February 6	Delivery of new directory structure and scripts for CER5.0P1; old executable will be copied to new directory structure.			*magneto-P4*
CERESlib	January 16	January 30	February 6	Update to surfmap_io routine.			*magneto-P4*
Clouds (SCCR 693)	January 16	January 30	February 6	Terra and Aqua Edition2 on *magneto*.	X	X	*magneto-P4*
Instrument	February 6	February 20	February 27	Initial delivery of RDR pre-processor code.		X	*magneto-P4*
ERBE-like	February 13	February 27	March 6	To process everything including all of Edition3 on *magneto*.			*magneto-P4*
Regrid MOA	February 13	February 27	March 6	To process the G5 CERES data that will be coming to support Edition3.			*magneto-P4*
Instrument	February 27	March 13	March 20	NPP-enabled PGE CER1.1P7, possibly CER1.2P1 (preES-8).		X	*warlock*
Instrument	March 20	April 3	April 10	NPP C++ Build 1 (CER1.1P8).		X	*magneto-P4*

Table 3. CERES Subsystem Delivery Schedule - January 2009

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 Gridding	Winter			New PGE 9.0P2 (?) for new ISCCP-D2-like-Flux (?) product.		X	*magneto-P4*
GGEO (SCCR 653)	Late Spring			Initial coefficient delivery for 11/05 - 8/07. Code delivery to support Beta10 GGEO processing. New PGE (CER11.1P11) to read B1U data.		X	*magneto-P4*
TISA Averaging (SCCR 650)	Within four weeks of GGEO Beta10 delivery			Support Terra Edition2E and Aqua Edition2B SRBAVG1-3 and Daily processing. New PGEs: CER10.0P1, CER10.0P2, & CER10.0P3.	X	X	*magneto-P4*
Clouds	April 17	May 1	May 8	Terra and Aqua Beta2-Edition3.			*magneto-P4*
Inversion	April 24	May 8	May 15	Terra and Aqua Beta2-Edition3.			*magneto-P4*
GGEO	Spring			New PGE 11.7P2 (?) for new ISCCP-D2-like-Merge (?) product.		X	*magneto-P4*
TISA Gridding	May 22	June 5	June 12	SFC Beta2-Edition3.			*magneto-P4*
TISA Averaging	June 26	July 10	July 17	SRBAVG Beta2-Edition3. Adding Model C surface fluxes and solar insulation.			*magneto-P4*

Table 3. CERES Subsystem Delivery Schedule - January 2009

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)
Clouds	Late 2009			Terra and Aqua Edition3			*magneto-P4*
Inversion	Late 2009			Terra and Aqua Edition3			*magneto-P4*
Clouds	???			Support TRMM VIRS-only processing of August 2001 forward.			*magneto-P4*
Inversion	Two to four weeks after Clouds			Support TRMM VIRS-only processing.			*magneto-P4*
Instrument (SCCR 641)	???			Delivery of simulated IES PGE to support TRMM VIRS-only processing. New PGE: CER1.0P1.		X	*magneto-P4*

Table 4. CERES Coefficients Delivery Schedule – January 2009

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	January 30		Edition2 gains and spectral response function files for September 2007 – December 2008.	*warlock/ magneto*
Instrument/ ERBE-like	N/A	May		Terra and Aqua Edition3 gains and spectral response function files for Launch – December 2006. Might include TRMM, also.	*warlock/ magneto*
GGEO	???			Final coefficients for 11/05 - 08/07.	*warlock/ magneto*
Instrument/ ERBE-like	N/A	???		TRMM Edition3 gains and spectral response function files.	*warlock/ magneto*

Table 5. SCCR Activity January 5 at 3:00 p.m. – January 20 at 3:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
684				X		9.0		
689				X		8.0		
693	S					4.1 – 4.4	9	
694	S					5.0	11	

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

CERES Software Configuration Change Request Submittal
==========

Subsystem: Clouds SCCR Date & TIME: 2009-01-15 16:38:55 SCCR No.: 693

Parameter Change: ( ) YES (X) NO

Description of Change (Science): None

Reason for Change (Science): N/A

Description of Change (non-Science):
All PGEs (First delivery to magneto and in the new directory structure)
1. Implemented new directory structure. (Req 4-8.1)
2. Port code from warlock to magneto. (Req 4-8.2)
3. Resolve some out-of-bound array indexing and initialization problems. (Req 4.8-2)

CER4.1-4.0P2
1. New PGE to allow CER4.1-4.0P1 to use new 16th mesh NESDIS snow and ice input. (Req 4-8.3)

CER4.1-4.1P4 and CER4.1-4.1P5
1. Mismatched MODIS radiance and geolocation granules are handled correctly. (Req 4-8.4)

Reason for Change (non-Science):
All PGEs (First delivery to magneto and in the new directory structure)
1. It will prevent accidental file deletion when new PGEs are delivered.
2. It will allow the use of additional ASDC hardware.
3. These problems prevented the code from running on magneto.

CER4.1-4.0P2
1. NESDIS changed the format of their snow and ice map.

CER4.1-4.1P4 and CER4.1-4.1P5
1. When reprocessed radiance files had a different number of scan lines from the initial geolocation data, the early granule was not flushed from memory.

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 in this Subsystem:
CER4.1-4.0P2, CER4.1-4.1P4, CER4.1-4.1P5, CER4.1-4.2P2, CER4.1-4.2P3, and CER4.1-4.3P2

Estimated Time to Complete Change: 300 hours
Planned Delivery Date: January 30, 2009
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
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Subsystem: InstSARB SCCR Date & TIME: 2009-01-20 14:22:30 SCCR No.: 694

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
(Req# 5-14.0)
Delivery of PGE 5.0P1 in new directory structure.

Reason for Change (non-Science):
(Req# 5-14.0)
Previous delivery of PGE 5.1P1 expects outputs from 5.0P1 to exist in new directory structure.

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 in this Subsystem:
5.0P1

Estimated Time to Complete Change: 1 week
Planned Delivery Date: January 30, 2009
List Affected Subsystems and PGE Names: None

Originator: CALDWELL, THOMAS E. (SSAI)

Table 6. January 21, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
Toolkit Issues	Coleman Zentz	• No updates.	
1.0	Cooper (Walikainen)	• Tracking of Terra/Aqua ingest continues. A problem with ephemeris/attitude data beginning at 01:42:14 UT was discovered for Terra, all data files have been re-ordered, but this did not fix the issue. The data can be processed if the start time is set to 02:01:00 UT, missing the first 2 hrs of the day. (Cooper, Snyder) • Edition2 validation runs through the end of 2008 have been processed. Waiting on final approval by Kory Priestley before they are delivered. (Cooper) • Testing of the Ada code on the x86 platform continues. PGEs CER1.2P1, CER1.3P1 and CER1.3P2 have been successfully tested for TRMM. PGE CER1.1P1 has been processed and work continues to validate the results. (Chu, Cooper)	
2.0	Walikainen (Cooper)	• No report received.	
3.0	Walikainen (Cooper)	Combined with above.	

Table 6. January 21, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Brown)	• Reorganized Google Map interface to allow for different Editions (i.e., Terra Edition 2A vs. Terra Ed 3) and the associated hierarchy on the storage disk. (Heckert). • Generated and loaded Terra Edition 2A images from 1/20, 1/27, 1/4, 4/7, 4/14, 4/21, 4/28, 7/7, 7/14 and 7/21 of 2007 into the Google Map tool. (Heckert) • Continued learning IDL programming. (Smith) • Continued debugging and adding features to plots of ISCCP parameters for different latitude zones. (Smith) • Worked on Edition 2 code/scripts. (Alford, Sun-Mack). • Worked on Edition 2 delivery preparation. (Brown, Miller) • Worked on processing global images for SSF data for Terra(200606, 200607, 200703, 200704) and Aqua(200605, 200606, 200607) and posted results on the Web. (Brown)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller (Sun-Mack)	• Updated Clouds Operator's Manual with new PGE and data structure. Waiting for production times. (Miller) • Monitored Aqua MIGBP run. Six, zero, and six hours failed respectively for June through August 2004. Clouds failed in three of those hours, one job failed to produce an SSF due to the missing data jump in convolution, and the remainder did not have an IES. (Miller)	

Table 6. January 21, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.5	Sothcott	• Attended weekly SOFA working group meetings. (Sothcott) • Provided new directory structure training and Inversion subsystem overview to Mark Bowser. (Sothcott) • Continued testing on *magneto* system. Initial set of testing was done using Toolkit version 5.2.12 by accident. Updated testing is using 5.2.15 and results are still looking good. (Sothcott) • Finishing updates to the Test Plan. (Sothcott)	
4.6	Sothcott	Combined with above.	
5.0	Caldwell (Coleman)	• Working on delivery of 5.0 PGE. (Caldwell)	
7.2	Caldwell (Coleman)	• No new updates.	
12.0	Caldwell (Coleman)	• Working on Edition3 MOA delivery. (Caldwell)	
7.1	Nguyen (Raju, Filer)	• No new updates.	
8.0	Nguyen (Raju, Filer)	• Completed the comparison of Beta5 and Beta6 SYN/AVG/ZAVG. Reported differences to the scientists. (Nguyen) • Modified August 2001 /DAAC PCF file to run SYN/AVG/ZAVG again to compare with Beta6 data at production. (Nguyen) • Updating SYN/AVG/ZAVG DPC as per Dave Doelling's request. (Filer)	
10.0	Nguyen (Raju, Filer)	• Ran 12 months of 2004 to write out TOA fluxes for Clarreo sampling. Put 12 months of data on *typhoon* for scientists to use. (Nguyen) • Wrote code to write TRMM ADMs and TOA fluxes for all of the hours of the month for July 2004 for Clarreo sampling study. (Nguyen)	
6.0	Raju (Nguyen)	• No new updates. (Raju)	
9.0	Raju (Nguyen)	• As per Dave Doelling's request, all ISCCP production products were FTP from *magneto* on to Xsan and assisting Moguo Sun. (Raju)	

Table 6. January 21, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
11.0	Raju (Nguyen)	• Found that the clear-sky ratios' for MET-9 satellite were not included in the clear-sky albedo ancillary file and that caused to have 100% cloudy-sky for day time hours. Updated ancillary file to correct the problem. (Raju, Sun-Mack) • Received coefficients for all satellites from Dave Doelling. Code was updated to calculate vis rad. and ir temperature using new methods. Made test runs for all satellites and sent outputs to him for verification. (Raju) • Processed 12 months of data at SCF (alternative months starting from 11/05 – 12/07) through PGEs 11.1P10, 11.2P2, 11.4P1 and created MODIS vs. geo match files for calibration validations. (Raju) • Working with FORTRAN programs to read B1U data and write output in the format similar to MCIDAS flat file. This approach is to make B1U data processing compatible with the existing ggeo software. (Raju)	
Special Development Corner		• Nothing reported.	