April 1, 2009 - System Issues and Status

Table 1: Process Strategy/Coleman as of 3/30/2009
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 20-09	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 3-09	FM3 or FM4	Edition2	TSI	7.1.1P1	7/1/2002 – 10/31/05	Done. 3/4/09
PR 2-09	FM3 or FM4	Edition2B	SYNI	7.2.1P1	7/1/2002 – 10/31/05	In progress
PR 1-09	FM3 or FM4	Edition2B	SYN/AVG /ZAVG	8.1P1	7/1/2002 – 10/31/05	In progress

Table 1: Process Strategy/Coleman as of 3/30/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 6-09	FM1 or FM2	Edition2C	TSI	7.1.1P1	3/1/2000 – 10/31/05	Done. 2/23/09
PR 5-09	FM1 or FM2	Edition2C	SYNI	7.2.1P1	3/1/2000 – 10/31/05	In progress
PR 4-09	FM1 or FM2	Edition2C	SYN/AVG /ZAVG	8.1P1	3/1/2000 – 10/31/05	In progress
PR13-09	CERES	DAO-G5-CERES	MOA	12.1P1	1/1/08 – 1/1/09	In progress
PR 12-09	CERES	DAO-G5-CERES	PMOA	9.1P1	1/08 – 12/08	In progress
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
PR 7-09	FM1	ValR12	CRS Inst SARB	5.0P1 5.1P1 5.4P1	5/1/07 – 5/31/07	In progress
PR 29-09		ValR14	EICE ESNOW (SS4.1)	4.1-4.0P2	6/17/08	Pending promotion
PR 38-09		ValR14-Mesh16	EICE ESNOW (SS4.1)	4.1-4.0P2	6/17/08 8/07	Pending promotion
PR 37-09	FM1, FM2	ValR14	SSFI	Clouds delivery to *magneto*	8/07	Pending promotion
PR 36-09	FM1, FM2	ValR14	SSF	Inversion delivery to *magneto*	8/07	Pending promotion
PR 35-09	FM3, FM4	ValR14	SSFI	Clouds delivery to *magneto*	8/07	Pending promotion
PR 34-09	FM3, FM4	ValR14	SSF	Inversion delivery to *magneto*	8/07	Pending promotion
PR 11-09	FM3	ValR10	FSW TISA-Grid	6.1P1 6.2P1 6.3P1	6/30/07 – 8/1/07	Pending promotion
PR 10-09	FM3	ValR10	SFC TISA-Grid	9.2P1 9.3P1 9.4P1	6/30/07 – 8/1/07	Pending promotion

Table 1: Process Strategy/Coleman as of 3/30/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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
PRs 21-09 through 28-09	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~~ 1/11/08	Extended to 12/31/07 Pending input
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~~ 1/01/08	Extended to 12/31/07 Pending input
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~~ 1/1/08 hr 11	Extended to 12/31/07 Pending input
PR 54-08	FM1 V005 MOD08	Edition2F	CRS Inst SARB	5.0P1 5.1P1 5.4P1	1/1/07 – ~~8/31/07~~ 12/31/07	Extended to 12/31/07 Pending Input
PR 53-08	FM1	Edition2F	FSW TISA-Grid	6.1P1 6.2P1 6.3P1	1/1/07 – ~~8/31/07~~ 12/31/07	Extended to 12/31/07 Pending input
PR 84-08	FM1 or FM2	Beta1	ISCCP-D2like-Day/Nit	9.0P1	03/2000 – ~~08/2007~~ 12/2007	Extended to 12/31/07
PR 33-09	FM3, FM4	Edition1B	SSFI	4.1-4.1P5 4.1-4.2P3 4.1-4.2P2 4.1-4.3P2	9/1/07 – 1/01/08	Pending input
PR 32-09	FM3, FM4	Edition2C/NoSW	SSF	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	9/1/07 – 1/01/08	Pending input

Table 1: Process Strategy/Coleman as of 3/30/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 31-09	FM3, FM4	Edition2C/NoSW	SFC	9.2P1 9.3P1 9.4P1	12/31/06 hr 12 – ~~9/1/07 hr 11~~ 1/1/08 hr 11	Pending input
PR 30-09	FM3	Edition2C	CRS	5.0P1 5.1P2 5.4P2	9/1/07 – 12/31/07	Pending input
PR 29-09	FM3	Edtion2C	FSW	6.1P1 6.2P1 6.3P1	9/1/07 – 12/31/07	Pending input

Table 2. April 1, 2009 - System Issues and Status

Activity	Lead	Status
CM/Docu-mentation	Ayers (Saunders)	• 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) • The updated PCF generator scripts for PGEs CER6.1P1 and CER9.2P1 were installed on *magneto-P4* in response to a problem report. (Ayers) • The TISA Gridding delta delivery associated with SCCR 708 was installed on *magneto-P4* and released to the ASDC on March 26. (Ayers) • The Inversion Operator's Manual was updated, posted on the Web, and provided to the ASDC. (Saunders) • The File Management Policy was updated to reflect changes in GGEO and Inversion and posted on the Web. (Saunders) • The first phase of updates to the CERES process plans continues. (Saunders, Ayers) • The CERES Subsystem and Coefficients Delivery Schedules were updated and posted on the Web. (Ayers, Saunders)

Table 3. CERES Subsystem Delivery Schedule – March 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)
Instrument (SCCR 702)	March 20	April 3	April 10	NPP-enabled PGE CER1.1P7, possibly CER1.2P1 (preES-8).		X	*warlock*
Instrument (SCCR 703)	March 27	April 10	April 17	NPP C++ Build 1 (CER1.1P8).		X	*magneto-P4*
ERBE-like (SCCR 696)	April 10	April 24	May 1	To process everything including all of Edition3 on *magneto*.			*magneto-P4*
GGEO (SCCR 653)	April 17	May 1	May 8	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*
Clouds	April 17	May 1	May 8	Terra and Aqua Beta2-Edition3.			*magneto-P4*
Instrument	April 24	May 8	May 15	Delivery of PGE 1.0P2 (pre-processor).			*magneto-P4*
Inversion (SCCR 704)	May 1	May 15	May 22	Terra and Aqua Beta2-Edition3.		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*

Table 3. CERES Subsystem Delivery Schedule – March 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	May 22	June 5	June 12	SFC Beta2-Edition3.			*magneto-P4*
GGEO	Summer			New PGE 11.7P2 (?) for new ISCCP-D2-like-Merge (?) product. All ISCCP-D2-like HDF products will have the same format.		X	*magneto-P4*
TISA Gridding	Summer			Edition version of ISCCP-D2-like-Day/Nit. All ISCCP-D2-like HDF products will have the same format.			*magneto-P4*
GGEO	Summer			Edition version of ISCCP-D2-like-GEO. All ISCCP-D2-like HDF products will have the same format.			*magneto-P4*
Instrument	Summer			Delivery of PGE CER1.1P7 to X86 platform.			*magneto-X86*
TISA Averaging	Early Fall			SRBAVG Beta2-Edition3. Adding Model C surface fluxes and solar insulation.			*magneto-P4*
Clouds	Late 2009			Terra and Aqua Edition3			*magneto-P4*
Inversion	Late 2009			Terra and Aqua Edition3			*magneto-P4*

Table 3. CERES Subsystem Delivery Schedule – March 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	January 2010			New PGE 9.0P2 (?) for new ISCCP-D2-like-Flux (?) product. All ISCCP-D2-like HDF products will have the same format.		X	*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 – March 2009

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	Certified Platform(s)
GGEO	April 17	May 1	May 8	Final coefficients for 11/05 - 08/07.	*warlock/ magneto*
Instrument/ ERBE-like	N/A	Spring		Edition2 gains and spectral response function files for September 2007 – December 2008.	*warlock/ magneto*
Instrument/ ERBE-like	N/A	July		Terra and Aqua Edition3 gains and spectral response function files for Launch – December 2006. Might include TRMM, also.	*warlock/ magneto*
Instrument/ ERBE-like	N/A	???		TRMM Edition3 gains and spectral response function files.	*warlock/ magneto*

Table 5. SCCR Activity March 16 at 12:15 p.m. – March 30 at 2:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
708	X		X			9	10	

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

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

Subsystem: TISAgrid9.0 SCCR Date & TIME: 2009-03-20 12:31:43 SCCR No.: 708

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
Requirement # 9-1.2
Delta Delivery. Modified PCF ascii generator script to include a check for leap year and set the number of days.

Reason for Change (non-Science):
Requirement # 9-1.2
Leap year check was missed in the Perl version. This caused to fail February 2008 job at the production due to incorrect number of days.

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:
CER9.1P1

Estimated Time to Complete Change: 1 Day
Planned Delivery Date: March 21, 2009
List Affected Subsystems and PGE Names: N/A

Originator: RAJU, RAJA (SSAI)

Table 6. April 1, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
Toolkit Issues	Coleman Zentz	• No toolkit activity to report. (Zentz)	
1.0	Cooper (Walikainen)	• Continue to monitor incoming Terra and Aqua Level-0, ephemeris and attitude data. (Snyder) • Working to deliver CER1.1P7 NPP-FM5 main subsystem in Ada. Delivery to *warlock* only at this time. Updates to CER1.2P1 may also be necessary to support FM5 and should be limited to adding FM5 as an option. (Cooper) • All PGEs have been ported to the x86 platform. An issue with the existing Toolkit on the x86 may still exist and testing in the production environment will begin once CER1.1P7 has been delivered to the SGI and updates to support FM5 have been added to the updated code. (Chu, Cooper) • CER1.0P2 – NPP Level-0/att/eph preprocessor has been delivered to ASDC. ASDC has requested a few updates to filenames that will be delivered in the next delivery of the code in the May time frame. (Alford)	
2.0	Walikainen (Cooper)	• Continuing to examine QC checker email generated during production. (Walikainen) • Continuing to inspect ERBE-like Aqua and Terra output plots. (Walikainen) • Ran CER2.2P1 (SNOW) on *magneto*. Used this snow file as input for creating an ES8N on the Mac cluster. The ES8N was scientifically equivalent to the production version. [There were 125/26186 flux differences randomly distributed over several scene types. The differences were +/-1 in the last digit.] (Walikainen) • Processed 62 Terra spectral response functions. These will allow the Science Team to determine appropriate levels of monthly degradation for Edition3 data products. (Walikainen)	
3.0	Walikainen (Cooper)	Combined with above.	

Table 6. April 1, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Brown)	• Further development of Google Earth tool. Added scale image to info bubble pop-up as well as adjusted it to improve accuracy. The info bubble also now displays the next 4 lat/long points' panels alongside the current one to view the data for that lat/long in context. (Heckert) • Continued generating and loading Terra Edition 2A-QC images from January/April/July of 2007 into the Google Map tool. (Heckert) • Continued studying HTML and JavaScript languages. (Smith) • Established my web page on Clouds Working Group Site. (Smith) • Studied netCDF database utility. (Smith) • Began work on a program to read cloud data from SSF hdf files and write it back into netCDF files. (Smith) • Continued working on Seasonal QC results for Aqua Edition1B and Terra Edition2A-QC for 2006 and 2007. (R. Brown) • Worked on processing SSF global images for Aqua and Terra for 2005 and 2006. (R. Brown) • Updating Clouds Web Page. (R. Brown) • Convert S'COOL Preprocessor code to run on *magneto* for S'COOL Team. (R. Brown) • NEWS code recovery, error checking, processing, comparisons between CERES and CALIPSO/CloudSat. (Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	

Table 6. April 1, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.4	Miller (Sun-Mack)	• Investigated run problems with Terra convolution *magneto* delivery. The hour has a gap in the middle which only produced data around the poles. The GRing did not handle this well. However, testing on three different platforms also produced different number of footprint. (Miller) • Updated the ssf and ssfa type definition modules. They have not been tested yet. (Miller)	
4.5	Sothcott	• Attended weekly SOFA working group meetings. (Sothcott) • Completed updates to the Inversion Operator's Manual in support of SCCR 704. (Sothcott) • Renamed pcf directory in the new directory structure for my Edition2 delivery associated with SCCR 690. Tested and delivered the updated scripts. (Sothcott) • Received updated SW Model B code for testing for inclusion in the Edition3 Beta2 delivery. (Sothcott)	
4.6	Sothcott	Combined with above.	
5.0	Caldwell (Coleman)	• Working on Edition3 pre-processor. (Caldwell)	
7.2	Caldwell (Coleman)	• No new updates. (Caldwell)	
12.0	Caldwell (Coleman)	• No new updates. (Caldwell)	
7.1	Nguyen (Raju, Filer)	• No new updates. (Nguyen)	
8.0	Nguyen (Raju, Filer)	• No new updates. (Nguyen)	

Table 6. April 1, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
10.0	Nguyen (Raju, Filer)	• Created Clarreo data for 2001 - 2003. (Nguyen) • Creating Clarreo data for 2004 and 2005. (Nguyen) • Used the IDL program from Dennis Keyes to read SRBAVG1 and SRBAVG-Dailys to compute the monthly averages from daily means and compare the computed monthly mean with the data from SRBAVG1 for validation. Searched for the causes of the differences in the comparison for SW and LW TOA fluxes. (Nguyen) • Validating the surface fluxes by comparing the computed monthly means from the daily averages and monthly averages from SRBAVG. (Nguyen) • Wrote fortran program to read SRBAVG and to compute the monthly means from the monthly hourly means. And then compared the computed values with the monthly means from SRBAVG. (Nguyen) • Updated code to correct errors. (Nguyen) • Continuing to update code to produce nonGEO SRBAVGs for Edition 3. (Filer)	
6.0	Raju (Nguyen)	• Updated PGE 6.1P1 ascii generator script to change PMOA directory path and resent the script to CERES CM. (Raju)	
9.0	Raju (Nguyen)	• Updated PGE 9.2P1 ascii generator script to change PMOA directory path and resent the script to CERES CM. (Raju) • Modified PCF ascii generator script to include a check for leap year before setting the number of days. This check was missing in the delivered version hence failed 02/08 job at the production. Made delta delivery to CERES CM. (Raju)	

Table 6. April 1, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
11.0	Raju (Nguyen)	• Continued to run MTSAT data with different versions of coefficients at SCF to generate web plots for Dave Doelling. (Raju) • Continued to run rest of the satellites' data up to 12/07 through PGEs 11.1P10, 11.2P2. (Raju) • Updated PGE 11.1P10 PCF scripts to handle both MCIDAS and B1U data files. Processed 07/07 B1U MTSAT data through PGE 11.1P10 successfully and created web plots. Comparisons with MCIDAS plots showed high IR radiances for B1U. Several tests were done and found this is due to differences in the raw count to temperature conversion tables used in the MCIDAS and B1U pre-processor software. Updated B1U pre-processor code to use MCIDAS IR conversion tables for consistency. (Raju) • Started processing 11/05 – 10/07 B1U data through pre-processor. (Raju, Raj Bhatt)	
Special Development Corner		• No report received.	