March 18, 2009 - System Issues and Status

Table 1: Process Strategy/Coleman as of 3/16/2009
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	In progress.
PR 2-09	FM3 or FM4	Edition2B	SYNI	7.2.1P1	7/1/2002 – 10/31/05	In progress.

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 1-09	FM3 or FM4	Edition2B	SYN/AVG /ZAVG	8.1P1	7/1/2002 – 10/31/05	In progress.
PR 6-09	FM1 or FM2	Edition2C	TSI	7.1.1P1	3/1/2000 – 10/31/05	In progress.
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.
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.

Table 1: Process Strategy/Coleman as of 3/16/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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.
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.
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	Pending promotion.
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.

Table 1: Process Strategy/Coleman as of 3/16/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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.
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. March 4, 2009 - System Issues and Status

Activity	Lead	Status
CM/Documentation	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 TISA Gridding (SCCR 685) updates for PGEs CER6.1P1, CER6.2P1, and CER9.2P1 were successfully tested on *magneto-P4* and released to the ASDC (3/5/09). (Ayers) • CERESlib (SCCR 707) was successfully installed, compiled, and tested on *magneto-P4* and released to the ASDC (3/9/09). (Ayers) • Regrid MOA (SCCR 705) was successfully installed, compiled, and tested on *magneto-P4* and released to the ASDC (3/11/09). (Ayers) • The Regrid MOA and Clouds Test Plans Operator's Manuals were updated, posted on the Web, and provided to the ASDC. (Saunders) • Updated Clouds (SCCR 693) scripts were installed on *magneto* to correct problems found during operational testing. (Ayers) • The File Management Policy was updated 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 13	March 27	April 3	NPP-enabled PGE CER1.1P7, possibly CER1.2P1 (preES-8).		X	*warlock*
Instrument (SCCR 703)	March 20	April 3	April 10	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 - May			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*
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*
TISA Gridding	May 22	June 5	June 12	SFC Beta2-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 Averaging	June 26	July 10	July 17	SRBAVG Beta2-Edition3. Adding Model C surface fluxes and solar insulation.			*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*
Clouds	Late 2009			Terra and Aqua Edition3			*magneto-P4*
Inversion	Late 2009			Terra and Aqua Edition3			*magneto-P4*
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*

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)
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)
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*
GGEO	April - May			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 March 3 at 2:00 p.m. – March 16 at 12:15 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
685			X			6 & 9		
692				X		5		
694				X		5		
704			X			4.6		
705			X			12		
706			X			12		CERESlib updates
707			X			CERESlib		

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

CERES Software Configuration Change Request Submittal
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Table 6. March 18, 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)	• No report received.	
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) • Continuing to work on SCCR 696: ERBE-like code transfer to *magneto*. (Walikainen)	
3.0	Walikainen (Cooper)	Combined with above.	
4.1	Sun-Mack (Brown)	• Continued modifications to QC code and plotting code for CEM_CO2 and CO2 parameters. (Smith) • Studied HTML and JavaScript programming. (Smith) • Worked on producing multi-seasonal and multi-annual QC results for Aqua (2002-2007) and Terra (2000-2007). (R. Brown) • Working on producing SSF images for Aqua and Terra. (R. Brown) • Worked on Validation scripts on *magneto*. (R. Brown) • Loaded 5-6 more days of images to the Google Map Tool. (Heckert) • For the Google Earth tool, removed some of the black edging to improve the overall appearance of the orbit curtain pictures. Currently looking into adding more details to the pop-up bubbles (i.e., showing half of the whole original image in the window when clicking on a point). (Heckert) • Worked on GLAS recovery/re-write (Sun-Mack). • Worked on A-Train recovery and processing. (Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	

Table 6. March 18, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.4	Miller (Sun-Mack)	• Investigated run problems with cloud retrieval on x86 (both ASDC and workstation). (Miller)	
4.5	Sothcott	• Attended weekly SOFA working group meetings. (Sothcott) • Completed conversion of the Edition3 Beta1 software to run on the IBM/Mac clusters. Tested to verify that the results were equivalent. (Sothcott) • Started incorporating the new Edition3 SSF changes into the SSF binary to HDF software. Awaiting final version of the ssf_typdef to finish. (Sothcott)	
4.6	Sothcott	Combined with above.	
5.0	Caldwell (Coleman)	• Working on Edition3 code development. (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)	• Ranged check for 2001 Terra AVG and ZAVG. The large number of problems in January and August 2001 were gone. Now we have the correct default numbers. (Nguyen) • Ranged check for the processed months of 2002 and 2003 Aqua; nothing unusual showed up except for the wrong standard deviations in the effective temperatures, top, bottom and effective pressures. (Nguyen)	

Table 6. March 18, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
10.0	Nguyen (Raju, Filer)	• Continued creating Clarreo data from 2001 SRBAVG runs. (Nguyen) • Ran January 2006 and July 2007 SRBAVGs with 4 versions of GGEO data for Dave Doelling to calibrate GGEO. (Nguyen) • Using 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. (Nguyen) • Wrote a NetCDF program to read the SRBAVG data and to create the NetCDF file on SGI. There was no error in the compilation of the combined HDF and NetCDF code but when executing the job, the read HDF data did not provide the correct data. (Nguyen) • Updating code to create nonGEO SRBAVGs without GGEO data for input. (Filer)	
6.0	Raju (Nguyen)	• No new updates. (Raju)	
9.0	Raju (Nguyen)	• No new updates. (Raju)	
11.0	Raju (Nguyen)	• Continued to run selected months of MTSAT data at SCF to provide outputs to SRBAVG process and Michele Nordeen's evaluations. (Raju) • Continued to run rest of the satellites' data up to 12/07 through PGEs 11.1P10, 11.2P2. (Raju) • Completed pre-processor software to process B1U format MTSAT data to create binary files in the same format as MCIDAS binary. Processed 07/07 B1U MTSAT data through pre-processor and provided outputs to Doug Spangenberg and Raj Bhatt to perform MCIDAS Vs. B1U data comparisons requested by Dave Doelling. (Raju) • Looking for possibilities to process B1U binary files through PGE CER11.1P10. (Raju)	
Special Development Corner		• No report received.	