

June 25, 2008 - System Issues and Status

**Table 1: Process Strategy/Coleman as of 6/23/08
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	
PR 45-08	FM2	TestSCF2- G5-CERES	SSFI	4.1-4.1P4, 4.1-4.2P3	1/06/06	Ready to process
PR 128-07	FM1 or FM2	Beta4	Synoptic SARB (SS 7.2)	7.2.1P1	4/00 – 10/05 seasonal months only	In progress
PR 127-07	FM3 or FM4	Beta4	TISA avg (SS 7.1)	7.1.1P1	7/02 – 10/05 seasonal months only	Ready to process
PR 126-07	FM3 or FM4	Beta4	Synoptic SARB (SS 7.2)	7.2.1P1	7/02 – 10/05 seasonal months only	Ready to process
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.

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44-08	FM1, FM2, FM3, FM4	ValR11	Spec. Corr. Coef. ERBE-like	2.4P1	01/07 08/07	Done. 6/19/08
36-08	FM1, FM2, FM3	ValR11	Instr. gains	1.3P1	1/01/07 – 2/01/07 4/30/07 – 6/01/07 7/31/07 - 9/01/07	Done. 6/16/08
37-08	FM4	ValR11	Instr. gains	1.3P1	1/01/07 – 2/01/07 4/30/07 – 6/01/07 7/31/07 - 9/01/07	Done. 6/16/08
38-08	FM1, FM2, FM3	ValR11	PreS8 (Instr)	1.2P1	1/01/07 – 2/01/07 4/30/07 – 6/01/07 7/31/07 - 9/01/07	Done. 6/16/08
39-08	FM4	ValR11	PreS8 (Instr)	1.2P1	1/1/07 – 2/01/07 4/30/07 – 6/01/07 7/31/07 - 9/01/07	Done. 6/16/08
43-08	FM1, FM2, FM3, FM4	ValR11	ES8 (ERBE- like)	2.2P1	1/1/07 – 1/31/07 5/01/07 – 5/31/07 6/01/07 - 6/30/07	Done. 6/16/08
42-08	FM1, FM2, FM3, FM4	ValR11	Overlap (ERBE- like)	2.3P1	2/01/07 6/01/07 9/01/07	Done. 6/16/08
41-08	FM1, FM2, FM3, FM4	ValR11	Overlap (ERBE- like)	2.3P2	7/31/07 8/31/07	Done. 6/16/08
40-08	FM1, FM2, FM3, FM4	ValR11	ES4, ES9	3.1P1	09/07	Done. 6/16/08
17-08	FM1	Beta1	ISCCP- D2like (TISA Gridding)	9.0P1	Assorted dates, see PR	Delivered
PR 19-08	FM3	Beta1	ISCCP- D2like (TISA Gridding)	9.0P1	Assorted dates, see PR	Delivered
PR 20-08	FM4	Beta1	ISCCP- D2like (TISA Gridding)	9.0P1	Assorted dates, see PR	Delivered

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PR 18-08	FM2	Beta1	ISCCP-D2like (TISA Gridding)	9.0P1	Assorted dates, see PR	Delivered
PRs 21-08 through 35-08		ValR10, ValR10-Ed2	Instrument and ERBE-like	1.1P3, 1.1P5, 1.2P1, 1.3P1, 1.3P3, 1.3P2, 2.2P1, 2.3P1, 2.3P2	Assorted dates, see PRs	Ready to process upon promotion
PR 4-08	FM3	Edition2C	TISA gridding (SS 6)	6.1P1 6.2P1 6.3P1	5/1/06 – 12/31/06	Dec 06 waiting on 1/1/07 CRS
PR 1-08	FM1	Edition2F	TISA gridding (SS 6)	6.1P1 6.2P1 6.3P1	5/1/06 – 12/31/06	Dec 06 waiting on 1/1/07 CRS
PR 11-08	FM3, FM4	Beta1-Ed3	Clouds (SS4.1-4)	4.1-4.1P6 4.1-4.2P4 4.1-4.2P5 4.1-4.3P3	10/03, 1/04, 4/04, 7/04, and 7/06	Ready to process.
PR 12-08	FM1, FM2	Beta1-Ed3	Clouds (SS4.1-4)	4.1-4.1P6 4.1-4.2P4 4.1-4.2P5 4.1-4.3P3	10/03, 1/04, 4/04, 7/04, and 7/06	In Progress
PR 13-08	FM3, FM4	Beta1-Ed3	Inversion (SS4.5-6)	4.5-6.1P5 4.5-6.2P3 4.5-6.4P2	10/03, 1/04, 4/04, 7/04, 1/06, and 7/06	Redelivered
PR 14-08	FM1, FM2	Beta1-Ed3	Inversion (SS4.5-6)	4.5-6.1P4 4.5-6.2P3 4.5-6.4P2	10/03, 1/04, 4/04, 7/04, 1/06, and 7/06	Redelivered

Table 2. June 25, 2008 - System Issues and Status

Activity	Lead	Status
CM/Documentation	Ayers (Saunders)	<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) • Delivered the TISA Averaging FM4 longwave corrections for 2005 to <i>warlock</i> and <i>magneto</i>. (Ayers) • Installed, compiled, and tested the TISA Averaging Subsystem 8 (SCCR 667) delivery on <i>warlock</i> and <i>magneto</i> and released it to the ASDC. (Ayers) • Updated the TISA Averaging Test Plan (SCCR 667) and delivered it the ASDC. (Saunders) • Finished converting the CERES ES-9 Collection Guide to Word and started on the CERES ES-8 Collection Guide. (Saunders) • Updated the CERES Subsystem and Coefficients Delivery Schedules and posted them on the Web. (Ayers, Saunders)

**Table 3. CERES Subsystem Delivery Schedule - June 2008
(Next Science Team Meeting – Fall 2008 in New York, NY)**

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)
GGEO (SCCR 675)	May 30	June 27	July 4	Support Beta1 processing of new ISCCP-like, crosstrack-only, GEO data product based on GGEO. New PGE CER11.7P1.		X	<i>warlock & magneto</i>
TISA Averaging (SCCR 650)	June 27	July 11	July 18	Support Terra Edition2E and Aqua Edition2B SRBAVG1-3 and Daily processing. New PGEs: CER10.0P1, CER10.0P2, & CER10.0P3.		X	<i>warlock & magneto</i>
GGEO (SCCR 653)	July 11	July 25	August 1	Final coefficient delivery for 11/05 - 12/05. Initial coefficient delivery for 1/06 - 12/06. Code delivery to support Beta10 GGEO processing.			<i>warlock & magneto</i>
ERBE-like	August			To process on <i>magneto</i> .			<i>warlock & magneto</i>
Regrid MOA	Fall			To process the G5 CERES data that will be coming to support Edition3.			<i>warlock & magneto</i>
Clouds	Fall			Support TRMM VIRS-only processing of August 2001 forward.			<i>warlock & magneto</i>
Inversion	Two to four weeks after Clouds			Support TRMM VIRS-only processing.			<i>warlock & magneto</i>

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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		Fall		Support Beta2-Edition3 processing.			<i>warlock & magneto</i>
TISA Gridding		Two weeks after Inversion		PMOA delivery dealing with overlap file checking and reading G5-CERES MOA input. Also, support Beta2-Edition3 SFC processing.			<i>warlock & magneto</i>
Instrument (SCCR 641)		???		Delivery of simulated IES PGE to support TRMM VIRS-only processing. New PGE: CER1.0P1.		X	<i>warlock & magneto</i>

Table 4. CERES Coefficients Delivery Schedule - June 2008

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

Table 5. SCCR Activity June 12 at 8:00 a.m. – June 23 at 1:00 p.m.

No updates for this time period

SCCR	S	U	A	C	D	SS	Page No.	Comments

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

CERES Software Configuration Change Request Submittal

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Table 6. June 25, 2008 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
Toolkit Issues	Coleman Zentz	<ul style="list-style-type: none"> No report received. 	
1.0	Cooper (Walikainen)	<ul style="list-style-type: none"> Continued monitoring receipt of Aqua and Terra Level-0, ephemeris and attitude at ASDC. (Snyder) Issues with processing times on the SGIs are causing delays in processing information to validate ValR11. At this time it is taking hours to run the compare program, which usually takes 5 mins. Should be able to validate remaining Aqua ValR11s early in the week. (Cooper) 	
2.0	Walikainen (Cooper)	<ul style="list-style-type: none"> Continuing to examine QC checker email generated during production. (Walikainen) Continuing to inspect ERBE-like Aqua and Terra output plots. (Walikainen) Created Terra Edition3 spectral correction coefficients labeled Alpha5. (Walikainen and Szewczyk) Created Edition3 beta spectral correction coefficients for FM1, FM2 and FM3. These test runs are labeled Beta15. (Walikainen and Matthews) Examined ValR11 ASCII files in /DAAC/erbelike subdirectories. They were all scientifically acceptable. In particular, all spectral correction coefficients were equal to Dec 2006 values as we wanted. All nadir files and QC reports with their comprehensive averaging were identical to our test files. (Walikainen) Created Terra direct compare with FTS total channel spectral responses (TSRs). Production TSRs are constant for long wavelengths, the FTS TSRs are not. The FTS LW flux direct compare showed a reduced scene dispersion. Hopefully, we can continue this analysis for our Alpha series Edition3 spectral responses. (Walikainen) 	
3.0	Walikainen (Cooper)	Combined with above.	

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SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Brown)	<ul style="list-style-type: none"> • Processed QC results for Terra Ed3 Beta1 200310. (R. Brown) • Worked on A-Train project. (Sun-Mack) • Starting Ed2 code conversion (currently working on one of the libraries). (Sun-Mack) • Attended C++ class. (R. Brown, Chen, Sun-Mack) 	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller (Sun-Mack)	<ul style="list-style-type: none"> • Resolved some of the bugs in code for processing CALIPSO, CloudSat, CERES, and MODIS (C3M) product. (Miller) • Investigated several production issues on Terra Beta1 Edition3. Monitored Terra Beta1 Edition3 processing for 200401. (Miller) • Responded to questions from FLASHFLUX project and an SSF user. (Miller) 	
4.5	Sothcott	<ul style="list-style-type: none"> • Attended weekly SOFA working group meetings. (Sothcott) • Attended week long C++ training. (Sothcott) • Continued to fill in missing dates of subset data in the Inversion working directories. (Sothcott) • Started review of necessary changes for convert Edition2 code to the cluster environment. (Sothcott) 	
4.6	Sothcott	Combined with above.	
5.0	Caldwell (Coleman)	<ul style="list-style-type: none"> • Successfully tested HDF comparison software with Toolkit 15. (Caldwell) 	
7.2	Caldwell (Coleman)	<ul style="list-style-type: none"> • No new updates. 	
12.0	Caldwell (Coleman)	<ul style="list-style-type: none"> • Produced two months of G5 CERES MOA data for testing at SCF. (Caldwell, Miller) 	
7.1	Nguyen (Raju)	<ul style="list-style-type: none"> • Delivered the Edition3-like LW correction coefficients for 2005 FM4. (Nguyen). 	
8.0	Nguyen (Raju)	<ul style="list-style-type: none"> • Re-deliver code with the change in reading inputs and write outputs. (Nguyen) 	

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10.0	Nguyen (Raju)	<ul style="list-style-type: none"> • Ran 4 seasonal months for Dave Doelling to validate. Dave Doelling reported the differences between Edition SRBAVG and the current SRBAVG. Searched for the cause of the differences and notified Dave Doelling. (Nguyen) • Ran whole month of SRBAVG on <i>magneto</i> and found that it takes 4 days to complete the job. Optimizing code to get better running time on <i>magneto</i>. (Nguyen) 	
6.0	Raju (Nguyen)	<ul style="list-style-type: none"> • No new updates. (Raju) 	
9.0	Raju (Nguyen)	<ul style="list-style-type: none"> • New directory structure was set up on <i>magneto</i> to test Subsystem 9 process. Ran three hours of FM3 data through PGEs 9.2P1, 9.3P1, 9.4P1 successfully. (Raju) 	
11.0	Raju (Nguyen)	<ul style="list-style-type: none"> • Created new directory structure on <i>magneto</i> and moved required ggeo, cloud ancillary, ice,snow files to test PGEs 11.1P10, 11.2P2, 11.4P1. Processed two hours of 04/06 MET5, MET8, G-10, G-12 data through PGEs 11.1P10 & 11.2P2 successfully and created outputs and web plots. (Raju) • The time line plots (03/00 – 12/06) generated by Michele Nordeen showed discontinuity for months 01/06 -12/06. These months were processed at SCF using selected images (~20/satellite/month). To find the problem, Dave Doelling requested ASDC to stage MCIDAS data from 02/06 – 12/06 on <i>warlock</i> to run these months at SCF. So far completed 01/06 - 05/06 data and the data points on the plots follow the trend with the previous months. (Raju) • Modified Operator’s manual and preparing for PGE CER11.7P1 delivery. (Raju, Liz Filer) 	

General Status

Questions regarding *magneto* for DMT meeting discussion:

- IDL
- Would like to identify an ASDC SA to help team members with differences encountered testing on different blades