June 24, 2009 - System Issues and Status

Table 1: Process Strategy/Coleman as of 6/23/2009

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	
M-PR 3-09	CERES	DAO-G5-CERES	MOA	12.1P1	Standing request	PR in review cycle
M-PR 2-09	CERES	DAO-G5-CERES	PMOA	9.1P1	Standing request	PR in review cycle
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	Done.
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.

Table 1: Process Strategy/Coleman as of 6/23/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
~~PR 40-09~~ PR 40a-09 (PR # 40-09 erroreously reused)	CERES	ValR2	MOA	12.1P2	12/97	Done. 6/10/09
PR 2-09	FM3 or FM4	Edition2B	SYNI	7.2.1P1	7/1/2002 – 10/31/05	Done. 6/10/09
PR 1-09	FM3 or FM4	Edition2B	SYN/AVG /ZAVG	8.1P1	7/1/2002 – 10/31/05	Done. 6/10/09
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 28-09	FM1, FM2, FM3, FM4	Edition2		2.4P1	9/2/07 – 1/1/09	Need to process 8/2/07 – 1/1/08 at high priority, then lower priority on 2008 dates
PR 27-09	FM1, FM2, FM3, FM4	Edition2	BDS	1.3P3	9/2/07 – 1/1/09	Ready.
PR 26-09	FM1, FM2, FM3, FM4	Edition2	BDS	1.2P1	9/2/07 – 1/1/09	Ready.

Table 1: Process Strategy/Coleman as of 6/23/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 25-09	FM1, FM2, FM3, FM4	Edition2	ES8	2.2P1	9/2/07 – 1/1/09	Ready.
PR 24-09	FM1, FM2, FM3, FM4	Edition2		2.3P1	9/2/07 – 1/1/09	Ready.
PR 23-09	FM1, FM2, FM3, FM4	Edition2		2.3P2	9/2/07 – 1/1/09	Ready.
PR 22-09	FM1, FM2, FM3, FM4	Edition2	ES4, ES9	3.1P1	9/2/07 – 1/1/09	Ready.
PR 21-09	FM1 + FM3	Edition2	ES4, ES9	3.2P1	9/2/07 – 1/1/09	Ready.
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~~ 1/01/08	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 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 6/23/2009
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
PRs 40-09 thru 49-09, plus a new standing PR for 1/16th snow (under development)	FM1, FM2, FM3, FM4	Edition2G (Terra) Edition2D/Ed2D-NoSW (Aqua)	SSF, SFC, CRS, FSW		1/1/08 – 12/31/08	Pending input, code promotions, ValRx approvals, etc

Table 2. June 24, 2009 - System Issues and Status

Activity	Lead	Status
CM/Documentation	Ayers (Saunders)	• See Table 3 for the current CERES Subsystem Delivery Schedule, Table 4 for the current CERES Coefficients Delivery Schedule, and Table 5 for the current DPC Update Schedule. (Ayers) • See Table 6 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 6. (Ayers) • Updated the Inversion Operator's Manual (SCCR 704), posted it on the Web, and provided it to the ASDC. (Saunders) • Updated the Clouds Operator's Manual (SCCR 693), posted it on the Web, and provided it to the ASDC. (Saunders) • Working with ASDC personnel to set up the delivery directories on the new IBM system. (Ayers) • The CERES Subsystem and Coefficients Delivery Schedules were updated and posted on the Web. (Ayers, Saunders)

Table 3. CERES Subsystem Delivery Schedule – June - 2009
(Next Science Team Meeting – November 3 – 5, 2009 in Ft. Collins, CO)

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 653)	April 30	July 2	July 10	Initial coefficient delivery for 11/05 - 8/07. Code delivery to support Beta10 GGEO processing.			*magneto-P4*
TISA Averaging (SCCR 650)	July 17	July 31	August 7	Support Terra Edition2E and Aqua Edition2B SRBAVG1-3 and Daily processing. New PGEs: CER10.0P1, CER10.0P2, & CER10.0P3.		X	*magneto-P4*
Instrument	July 17	July 31	August 7	Updates to PGE CER1.1P7.			*warlock*
Clouds	July 17	July 31	August 7	Terra and Aqua Beta2-Edition3.			*magneto-P4*
Instantaneous SARB	July 17	July 31	August 7	New "pre-Synoptic" PGE CER5.0P2.		X	*magneto-P4*
ERBE-like (SCCR 696)	July 31	August 14	August 21	To process everything including all of Edition3 on *magneto*.			*magneto-P4*
Inversion (SCCR 704)	August 14	August 28	September 4	Terra and Aqua Beta2-Edition3. Note: Only one of these two Inversion deliveries scheduled for Aug. 28 will be needed.		X	*magneto-P4*
Inversion	August 14	August 28	September 4	In case Clouds doesn't make the Edition3 schedule. Note: Only one of these two Inversion deliveries scheduled for Aug. 28 will be needed.		X	*magneto-P4*

Table 3. CERES Subsystem Delivery Schedule – June - 2009
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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)
Instrument		Summer		Delivery of all Ada PGEs except CER1.1P7 to X86 platform.			*magneto-X86*
Instrument		Summer		Delivery of PGE CER1.1P7 to X86 platform.			*magneto-X86*
TISA Gridding	August 28	September 11	September 18	SFC Terra and Aqua Beta2-Edition3.			*magneto-P4*
TISA Gridding	September 11	September 25	October 2	Edition2 & Beta2-Edition3 ISCCP-D2like-Day/Nit.			*magneto-P4*
TISA Averaging		Early Fall		SRBAVG-GEO Beta2-Edition3. Adding Model C surface fluxes and solar insulation.			*magneto-P4*
Instrument	September 18	October 2	October 9	Build that runs full Terra/Aqua Baseline1-QC and Edition1-CV as well as NPP.	X		*magneto-P4*
TISA Averaging	September 25	October 9	October 16	SRBAVG-nonGEO Beta2-Edition3.			*magneto-P4*
GGEO	October 2	October 16	October 23	Beta1-Edition3 ISCCP-D2like-Merge.			*magneto-P4*
TISA Averaging	October 16	October 30	November 6	TSIB-SSF Beta2-Edition3.			*magneto-P4*
Regrid MOA		November		Edition3 delivery.			*magneto-P4*
GGEO		Fall		Edition2 & maybe Beta2-Edition3 ISCCP-D2like-GEO. [All ISCCP-D2like HDF products will have the same format.]			*magneto-P4*

Table 3. CERES Subsystem Delivery Schedule – June - 2009
(Next Science Team Meeting – November 3 – 5, 2009 in Ft. Collins, CO)

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		Fall		Beta1–Edition2 delivery of new PGE CER11.7P2 (?) for new ISCCP-D2like-Merge (?) product. [All ISCCP-D2like HDF products will have the same format.]		X	*magneto-P4*
Instantaneous SARB		Fall		New PGE to produce MATCH input files.		X	*magneto-P4*
GGEO	November 20	December 4	December 11	Beta1-Edition3 delivery.			*magneto-P4*
Clouds		Late 2009		Terra and Aqua Edition3.			*magneto-P4*
Inversion		Late 2009		Terra and Aqua Edition3.			*magneto-P4*
TISA Gridding		January 2010		Beta1-Edition2 delivery of new PGE CER9.0P2 (?) for new ISCCP-D2like-Flux (?) product. [All ISCCP-D2like HDF products will have the same format.]		X	*magneto-P4*
TISA Gridding		February 2010		Edition2 ISCCP-D2like-Flux.			*magneto-P4*
Instrument		February 2010		Build corrects NPP-related errors discovered in NCT3 testing.			*magneto-P4*
Instrument		May 2010		Build corrects all NPP errors found so far. Last Build before launch freeze date.			*magneto-P4*
Clouds		Spring 2010		Terra and Aqua Edition3.			*magneto-P4*

Table 3. CERES Subsystem Delivery Schedule – June - 2009
(Next Science Team Meeting – November 3 – 5, 2009 in Ft. Collins, CO)

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		Spring 2010		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		???		Delivery of simulated IES PGE to support TRMM VIRS-only processing. New PGE: CER1.0P1.		X	*magneto-P4*

Table 4. CERES Coefficients Delivery Schedule – June 2009

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	Certified Platform(s)
GGEO	June 12	July 2	July 10	Final coefficients for 11/05 - 08/07.	*warlock/ magneto*
Instrument	N/A	July 17		Terra Edition3 gain files for Launch – December 2006.	*warlock/ magneto*
ERBE-like	N/A	August		Terra Edition3 spectral response function files for Launch – December 2006.	*warlock/ magneto*
Instrument	N/A	September		Aqua Edition3 gain files for Launch – December 2006.	*warlock/ magneto*
ERBE-like	N/A	October		Aqua Edition3 spectral response function files for Launch – December 2006.	*warlock/ magneto*
Instrument/ ERBE-like	N/A	???		TRMM Edition3 gains and spectral response function files.	*warlock/ magneto*

Table 5. Data Products Catalog Update Schedule – June 2009

DPC Section	Due Date	Comments
SFC	May	Adding a few new parameters for Edition3
SRBAVG-nonGEO	Draft by July	Complete rework of DPC pages
SRBAVG-GEO	Draft by July	Complete rework of DPC pages
TSIB-SSF	September 15	New intermediate product
TSIB-GEO	September 15	New intermediate product
SYNI	September 15	Unknown severity of Edition3 DPC changes
SYN/AVG/ZAVG	September 15	Unknown severity of Edition3 DPC changes
FSW	September 15	Given CRS won't even be in draft mode yet, this date is probably incorrect. Given that CRS and FSW are decoupled from rest of processing, pressure to document & produce these products will not be as great as pressure on the other products.
CRS	December	Draft for science review
ISCCP-D2like products	???	There will be no differences between Edition2 & Edition3 DPC. Don't know the Edition2 DPC schedule.
MOA	???	Unknown if there are Edition3 changes.
GGEO	???	Unknown if there are Edition3 changes.

Table 6. SCCR Activity June 8 at 2:00 p.m. – June 22 at 12:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
685				X		6 & 9		
713				X		12		

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

Table 7. June 24, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
Toolkit Issues	Zentz	• Working with Karen Brown to build a new version of the p6 TK that will not produce functions/ subroutines that contain a trailing underscore. This is needed for compatibility with netcdf. (Brown, Zentz)	
1.0	Cooper (Walikainen)	• Continue to monitor incoming Terra and Aqua Level-0, ephemeris and attitude data. (Snyder) • Edition2 gain updates delivered looking at ValR12s to verify Edition2 gains. (Cooper) • Edition3 gains for Terra should be given to Denise by June 24th. Several validation runs will be made to verify that the gain updates when run through the Instrument Subsystem code, give the same results as when they were processed by the analysis software. (Cooper)	
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) • Corrected errors in FM1's SW channel unfiltering coefficients. Submitted corrections to the FLASHFLUX team. Fortunately, the SW channel errors increased the SW TOA flux by only 0.01% compared to the current set of coefficients. (Walikainen) • Examined several versions of SW and TOT channel spectral responses proposed for the beginning-of-mission. These were then used to create unfiltering coefficients and nadir files. Nadir fluxes were compared with Edition1-CV values and results were presented to the Science Team. (Walikainen) • Completed analysis of Flight offsets and a new second time constant. Results to be presented to Science Team will show how these affect Edition3 Terra TOA fluxes. (Walikainen)	
3.0	Walikainen (Cooper)	Combined with above.	

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Brown)	• Added capability to Google Maps to allow the user to page through images for the same parameter at different coordinates. (Heckert) • Began working on adding the flat RGB images to the Google Earth file (need some additional data coordinates to plot them, but it's coming along). (Heckert) • Correcting GEWEX Netcdf files to conform to proper format. (Smith) • Began running day 2003079 of Edition2 delivery to test a small code change. (Smith) • Worked on Terra MOD08 and Aqua MYD08 Comparison. (Chen, Brown) • Worked on Aqua Edition 3 Validation. (Brown, Trepte) • Worked on SSF processing for Aqua 2002 and Terra 2003. (Brown) • Implemented Jin's Ocean emissivities for 3.7, 11 and 12 μm. A day of before and after were run and validated. (Sun-Mack) • Investigating 2.1 corrk issue. Optical depth were calculated for a day of Terra Ed2, Aqua Ed1, and current code. It seems too much absorption in 2.1 corrk calculation. (Sun-Mack) • Reviewed a manuscript for Journal of Geophysical Research – Atmospheres. (Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller (Sun-Mack)	• Tested software using SGE on AMI. Processed 48 hours of Terra clouds, 48 hours of both Terra and Aqua clouds, 48 hours of NEWS convolution, and 24 hours of clouds and 24 hours of NEWS convolution for timing purposes. (Miller) • Tested Edition3 Beta2 SSFB and SSFA type definition. A couple of minor changes were made before providing it to other subsystems. (Miller) • Added code to convolution to fill new SSF structure and provided sample to other subsystems. (Miller)	

SS No.	SS Lead	Status	Problems
4.5	Sothcott	• Attended weekly SOFA working group meetings. (Sothcott) • Continued work on the new IES-to-SSF PGEs. (Sothcott) • Tested the latest Edition2 delivery on the new IBM system. Results have been inconsistent with some PGEs running faster with acceptable results and other PGEs running slower with poor results. This issue seems to be related to the optimization options; removal of all optimization during compile results in completely acceptable results but really slow code. I am working to determine what optimizations will work or what part of the code is causing the problems with the optimization options. (Sothcott)	
4.6	Sothcott	Combined with above.	
5.0	Caldwell (Coleman)	• Testing CRS on new IBM system. (Caldwell)	
7.2	Caldwell (Coleman)	• No new updates. (Caldwell)	
12.0	Caldwell (Coleman)	• Produced MOA requested by Fred Rose for testing Ed3 CRS. (Caldwell)	
7.1	Nguyen (Raju, Filer)	• No new updates. (Nguyen)	
8.0	Nguyen (Raju, Filer)	• No new updates. (Nguyen)	

SS No.	SS Lead	Status	Problems
10.0	Nguyen (Raju, Filer)	• Produced 5 years of snow/ice percents data for CLARREO from the surface type percents. (Nguyen) • Ran SRBAVG on IBM Cluster. Compared SRBAVGs from IBM and from Mac and found no difference. Able to run IDL plots on *magneto*. (Nguyen) • Attended the meeting with FLASHFLUX group to plan for FLASHFLUX to produce the monthly mean SRBAVG. (Nguyen) • Continued supporting the SRBAVG NetCDF group. (Nguyen) • Validating Edition2E SRBAVG. (Nguyen) • Continuing work on pre-processor and subsetting code to read SRBAVG1 hdf file and write monthly means to a netCDF file and then subset this to user specified paramters/time range. (Filer)	
6.0	Raju (Nguyen)	• Moved PGEs CER6.1 - CER6.3 software on to IBM systems. (Raju)	
9.0	Raju (Nguyen)	• Moved PGEs CER9.0 – CER9.4 software on to IBM systems and successfully compiled on P6. (Raju)	
11.0	Raju (Nguyen)	• Processed selected months of ISCCP data using different versions of coefficients at SCF and sent generated plots to Dave Doelling. Received final versions of coefficients and started processing 11/05 – 08/07 ISCCP data at SCF. (Raju) • Preparing documents and the software for upcoming ggeo delivery. (Raju) • Moved GGEO software on to IBM systems. Compiled and ran one hour of data through PGEs 11.1P10, 11.2P2, 11.4P1 on P6 successfully. PGE 11.1P10 output comparisons with the outputs generated on *magneto* showed no differences. (Raju)	
CERES -lib	Zentz	• No new updates. (Zentz)	
Special Development Corner		• No report received.	