August 5, 2009 - System Issues and Status

Table 1: Process Strategy/Coleman as of 8/03/09

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	
M-PR 2-09	CERES	DAO-G5-CERES	PMOA	9.1P1	Standing request	
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 36-09	FM1, FM2	ValR14	SSF	Inversion delivery to *magneto*	8/07	Done. 7/30/09
PR 35-09	FM3, FM4	ValR14	SSFI	Clouds delivery to *magneto*	8/07	Done. 7/30/09
PR 34-09	FM3, FM4	ValR14	SSF	Inversion delivery to *magneto*	8/07	Done. 7/30/09

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 10-09	FM3	ValR10	SFC	9.2P1 9.3P1 9.4P1	7/07	Done. 7/24/09
PR 8-09	FM1	ValR10	SFC	9.2P1 9.3P1 9.4P1	5/07	Done. 7/24/09
PRs 66-09 thru 72-09 (PRs in review)	FM1, FM2	ValR13	BDS, IES, ES8, ES4, ES9	1.3P3, 1.2P1, 2.4P1, 2.2P1, 2.3P1, 2.3P2, 3.1P1	April, October 2000 – 2004 April 2005	Terra Ed3 Gains delivered. Pending PR review.
PRs 61-09 thru 63-09 (PRs in review)		Beta10	GGEO	11.1P10, 11.2P1, 11.4P1	1/1/06 7/1/06 1/1/07 7/07 10/07 12/08	Pending Promotion and PR review
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	In Progress
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	In Progress
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	In Progress
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	In Progress
PR 53-08	FM1	Edition2F	FSW TISA-Grid	6.1P1 6.2P1 6.3P1	1/1/07 – ~~8/31/07~~ 12/31/07	Ready
PR 33-09	FM3, FM4	Edition1B	SSFI	4.1-4.1P5 4.1-4.2P3 4.1-4.2P2 4.1-	9/1/07 – 1/01/08	Ready
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	Ready

Table 1: Process Strategy/Coleman as of 8/03/09
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	Ready
PR 30-09	FM3	Edition2C	CRS	5.0P1 5.1P2 5.4P2	9/1/07 – 12/31/07	Ready
PR 29-09	FM3	Edition2C	FSW	6.1P1 6.2P1 6.3P1	9/1/07 – 12/31/07	Ready
PRs 64-09 & 65-09 (PRs in review)	FM1, FM2	Edition3	BDS, IES	1.3P3, 1.2P1	2/28/00 – 5/1/05	Pending ValRx processing and approval, and PR review
PRs 58-09 thru 60-09 (PRs in review)		Edition2A	GGEO	11.1P10, 11.2P2, 11.6P1	11/05 – 6/09	Pending ValRx processing and approval, and PR review
PR 57-09	FM5	PreLaunch-Beta1	Instrument	1.0P2	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion
PR 56-09	FM5	PreLaunch-Beta1	Instrument	1.1P7	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion
PR 55-09	FM5	PreLaunch-Beta1	Instrument	1.2P1	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion
PR 54-09	FM1, FM2	PreLaunch-Beta1	Instrument	1.1P8	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion
PR 53-09	FM1, FM2	PreLaunch-Beta1	Instrument	1.2P1	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion

Table 1: Process Strategy/Coleman as of 8/03/09
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 52-09	FM3, FM4	PreLaunch-Beta1	Instrument	1.1P8	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion
PR 51-09	FM3, FM4	PreLaunch_Beta1	Instrument	1.2P1	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion
PR 50-09	FM5	PreLaunch-Beta1	Instrument	1.1P8	3/1/03	Pending Promotion
PRs 40-09 thru 49-09	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. August 5, 2009 - System Issues and Status

Activity	Lead	Status
CM/Docu-mentation	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) • Provided an updated GGEO (SCCR 653) script and the updated Operator's Manual to the ASDC. (Ayers, Saunders) • Testing the Instantaneous SARB (SCCR 718) pre-synoptic processor delivery. (Ayers) • Updated the Instantaneous SARB Operator's Manual and Test Plan. Provided the Operator's Manual to the ASDC and the Test Plan to CM for use during testing. (Saunders) • Installed the Terra FM1 and FM2 Edition3 gains for February 28, 2000, through May 1, 2005, on *magneto-P4* and *warlock*, and released them to the ASDC on July 29. (Ayers) • The CERES Subsystem and Coefficients Delivery Schedules were updated and posted on the Web. (Ayers, Saunders)

Table 3. CERES Subsystem Delivery Schedule – August 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)
Instantaneous SARB (SCCR 718)	July 17	July 31	August 7	New "pre-Synoptic" PGE CER5.0P2.		X	*magneto-P4*
CERESlib	August 7	August 21	August 28	Clouds and ceres-env modifications. (Maybe TK5.2.16 version, also.)			*magneto-P4*
Clouds (SCCR 719)	August 7	August 21	August 28	Terra and Aqua Beta2-Edition3.	X		*magneto-P4*
TISA Averaging (SCCR 650)	August 7	August 21	August 28	Support Terra Edition2E and Aqua Edition2B SRBAVG1-3 and Daily processing. New PGEs: CER10.0P1, CER10.0P2, & CER10.0P3.		X	*magneto-P4*
ERBE-like (SCCR 696)	August 14	August 28	September 4	To process everything including all of Edition3 on *magneto*.			*magneto-P4*
Inversion	August 14	August 28	September 4	In case Clouds doesn't make the Edition3 schedule.		X	*magneto-P4*
Inversion (SCCR 704)	September 11	September 25	October 2	Terra and Aqua Beta2-Edition3.		X	*magneto-P4*
TISA Gridding	September 11	September 25	October 2	Edition2 & Beta2-Edition3 ISCCP-D2like-Day/Nit.			*magneto-P4*
CERESlib	September 18	October 2	October 9	Instrument updates – C version of metadata.			*magneto-P4 & ami-P6*

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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	September 18	October 2	October 9	Build that runs full Terra/Aqua Baseline1-QC and Edition1-CV as well as NPP.	X		*magneto-P4 & ami-P6*
TISA Averaging	September 25	October 9	October 16	SRBAVG-nonGEO Beta2-Edition3.			*magneto-P4*
GGEO	October 9	October 23	October 30	Beta1-Edition3 ISCCP-D2like-Merge.			*magneto-P4*
TISA Gridding	October 16	October 30	November 6	SFC Terra and Aqua Beta2-Edition3.			*magneto-P4*
TISA Averaging	October 16	October 30	November 6	TSIB-SSF Beta2-Edition3.			*magneto-P4*
Regrid MOA		November		Edition3 delivery.			*magneto-P4 & ami-P6*
Instrument (SCCR 715)		Fall		Updates to PGE CER1.1P7.			*warlock*
Instrument (SCCR 716)		Fall		Delivery of all Ada PGEs except CER1.1P7 to X86 platform.			*magneto-X86*
GGEO		Fall		Edition2 & maybe Beta2-Edition3 ISCCP-D2like-GEO. [All ISCCP-D2like HDF products will have the same format.]			*magneto-P4*
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*

Table 3. CERES Subsystem Delivery Schedule – August 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)
Instantaneous SARB		Fall		New PGE to produce MATCH input files.		X	*magneto-P4*
TISA Averaging		Late Fall		SRBAVG-GEO Beta2-Edition3. Adding Model C surface fluxes and solar insulation.			*magneto-P4*
Instrument (SCCR 717)		Late Fall		Delivery of PGE CER1.1P7 to X86 platform.			*magneto-X86*
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*

Table 3. CERES Subsystem Delivery Schedule – August 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)
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 – August 2009

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	Certified Platform(s)
ERBE-like	N/A	Fall		Terra Edition3 spectral response function files for Launch – December 2006.	*warlock/ magneto*
Instrument	N/A	Early Winter		Aqua Edition3 gain files for Launch – December 2006.	*warlock/ magneto*
ERBE-like	N/A	Winter		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 – August 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 July 21 at 4:00 p.m. – August 3 at 4:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
716			X			1		
718			X			5		
719			X			4.1 – 4.4		
720			X			4.1 – 4.4		

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

CERES Software Configuration Change Request Submittal
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Table 7. August 5, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
Toolkit Issues	Zentz	• No report received.	
1.0	Cooper (Walikainen)	• Continue to monitor incoming Terra and Aqua Level-0, ephemeris and attitude data. (Snyder) • Edition3 gains have been delivered to CERES CM and sent onto SIT for ValR14 testing. (Cooper) • Waiting for Ada compiler to be placed on the *asdcsm1* x86 system to begin testing of the Ada code on AMI. A trouble ticket was sent through the system on this issue. (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) • CER2.1P1 "Snow PGE" update : The graphing is working. Need to determine why met files are not created. (Zentz) • CER2.3Px "Overlap PGEs" update: Updated the comparison software for new directory structure. (Caldwell) • CER2.4P1 "Spectral PGE" update: Updated Test case. (Lande)	
3.0	Walikainen (Cooper)	Combined with above.	
4.1	Sun-Mack (Brown)	• Attended course on WorldSpace software for 4 days (WorldSpace is software that allows you to test your websites for 508 compliance). (Heckert) • Worked on animation feature for the Google Map tool; now have a working version of it that needs some adjustments after talking with Sunny. (Heckert) • Worked on SSF processing for Terra Edition2B for 2001. Global images are posted on the Web. (R. Brown) • Worked on FLASHFlux QC global images and statistics results for 200904 - 200906. Results are posted on the Web. (R. Brown)	

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Brown) (Continued)	• Validating QC output from cloud4 run of day 20060614 by making plots of VINT, ISCCP, and CEM-CO2 gridded output. (Smith) • Began code additions to add Temperature histogram data to QC output. Also adding Temperature parameter to post-processing plot programs. (Smith) • Worked on Ed3 Beta2: Implemented Jin's Ocean emissivity for 3.7, 11 and 12 μm as a function of wind, and ocean reflectance for 0.6 and 3.7 μm as a function of wind. Implemented also new cloud thickness algorithm, new cloud phase with Baum algorithm, new 2.1 retrieval, and coast lapse rate. Brought in MOD04/MYD04 deep blue parameters and decoded QA bits, modified the code so that it can handle both collection 5 and 51. Tested ed3 MOA. Interfaced with Walt on new parameters in the Cookiedough. Converted the code to Mac machines, and ran a day on the mac cluster. (Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller (Sun-Mack)	• Completed code updates on Edition3 Beta2 convolution. Initial testing has begun. (Miller) • Updated SSFB and SSFA compare program for Edition3 Beta2 validation. (Miller) • Compared a day of Terra ValR14 and Edition2A-QC SSFB files. (Miller)	
4.5	Sothcott	• Attended weekly SOFA working group meetings. (Sothcott) • Ran two months of Aqua and Terra data to test algorithm changes associated with Edition3 Beta2 software. Results are looking good and this should be incorporated into this version. (Sothcott) • Created a day of SSF data to support clouds algorithm testing. (Sothcott) • Currently reviewing the ValR14 results. There appears to be differences that we are evaluating. (Sothcott) • Working new IES-SSF PGEs. (Sothcott)	

SS No.	SS Lead	Status	Problems
4.6	Sothcott	Combined with above.	
5.0	Caldwell (Coleman)	• Delivered Synoptic PGE CER5.0P2. (Caldwell)	
7.2	Caldwell (Coleman)	• No new updates. (Caldwell)	
12.0	Caldwell (Coleman)	• Working on reading HDF5 data. (Caldwell)	
7.1	Nguyen (Raju, Filer)	• No new updates. (Nguyen) • Testing tisa avg PGEs with the new Toolkit 5.2.16. (Filer)	
8.0	Nguyen (Raju, Filer)	• No new updates. (Nguyen) • Testing tisa avg PGEs with the new Toolkit 5.2.16. (Filer)	
10.0	Nguyen (Raju, Filer)	• Supporting SRBAVG validation. Validating cloud parameters. (Nguyen) • Continued supporting the SRBAVG NetCDF group. Had meeting with the group to discuss further plans. (Nguyen) • Working on SRBAVG-like at Norman Loeb's request. (Nguyen) • Preparing for the upcoming delivery. (Nguyen) • Expanded SRBAVG1 netCDF subsetter for zonal and global parameters. Updated pre-processor and subsetting code to include global and parameter attributes. Sent subsetted data files to Michele Nordeen for plotting package development and validation. Completed web interface and demonstrated prototype to Dave Doelling. (Chu, Filer)	
6.0	Raju (Nguyen)	• No new updates. (Raju)	

SS No.	SS Lead	Status	Problems
9.0	Raju (Nguyen)	• Ran 06/2009 FLASH flux data through PGEs 9.2 - 9.3 on P6 and created SFCB product. Validated few regions and moved files into flash flux working area for further processing. (Raju) • Updated PGE 9.2P1 code to use last day of the previous month/first day of the following month solar declination angle value in sza calculation for overlap hours. Test results were sent to Dave Doelling for approval. This change will be included in Edition3 version. (Raju) • Sent SSF vs. SFC parameters to Dave Doelling to decide on Edition3 SFC parameter list. (Raju) • Adding routines in ISCCP-MERGE software to write averaged data on to intermediate files as requested by Moguo Sun. (Raju)	
11.0	Raju (Nguyen)	• Work continued on PGE 11.6P1 for possible CM delivery. (Raju) • Compiled ggeo software successfully in TK5.2.16 environment after few changes to array declarations in cloud code. (Raju)	
CERES -lib	Zentz	• No report received.	
Special Development Corner		• Continuing to develop s/w to automate retrieving information from ANGe Report that will populate production processing database. (Coleman)	