June 10, 2009 - System Issues and Status

Table 1: Process Strategy/Coleman as of 6/10/2009

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	
PR 13-09	CERES	DAO-G5-CERES	MOA	12.1P1	Standing request	(PR document under modification to move this to standing request)
PR 12-09	CERES	DAO-G5-CERES	PMOA	9.1P1	Standing request	(PR document under modification to move this to 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	In progress
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.

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Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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 40-09	CERES	ValR2	MOA	12.1P2	12/97	ON HOLD – input products HDF questions
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.
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	Done. 5/28/09
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	Done. 5/28/09
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

Table 1: Process Strategy/Coleman as of 6/10/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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~~ 1/01/08	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
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 1: Process Strategy/Coleman as of 6/10/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PRs 40-09 thru 49-09, plus a new standing PR for 1/16th snow (under development)	FM1, FM2, FM3, FM4	Edition2G (Terra) Edition2D/Ed 2D-NoSW (Aqua)	SSF, SFC, CRS, FSW		1/1/08 – 12/31/08	Pending input, code promotions, ValRx approvals, etc

Table 2. June 10, 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) • Installed the Regrid MOA (SCCR 713) delta delivery on *magneto-P4* and released it to the ASDC on May 27. (Ayers) • Installed, compiled, and tested CERESlib (SCCR 712) on *magneto-P4* and released it to the ASDC on June 2. (Ayers) • Recompiled and retested the Clouds (SCCR 693) delivery with the new CERESlib. Made it available again for operational testing on June 2. (Saunders, Ayers) • Installed the TISA Gridding (SCCR 714) delta delivery on *magneto-P4* and released it to the ASDC on June 5. (Ayers) • Retrieved final tar files for Instrument (SCCR 702) and TISA Gridding (SCCR 685) and stored them in the CM repository. (Saunders) • The CERES Subsystem and Coefficients Delivery Schedules were updated and posted on the Web. (Ayers, Saunders)

Table 3. CERES Subsystem Delivery Schedule – June

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	June 19	June 26	Initial coefficient delivery for 11/05 - 8/07. Code delivery to support Beta10 GGEO processing.			*magneto-P4*
ERBE-like (SCCR 696)	June 26	July 10	July 17	To process everything including all of Edition3 on *magneto*.			*magneto-P4*
TISA Averaging (SCCR 650)	July 3	July 17	July 24	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*
GGEO	July 31	August 14	August 21	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*
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*

Table 3. CERES Subsystem Delivery Schedule – June

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	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*
TISA Gridding	August 28	September 11	September 18	SFC Terra and Aqua Beta2-Edition3.			*magneto-P4*
TISA Gridding		September		Beta2-Edition3 ISCCP-D2like-Day/Nit.			*magneto-P4*
TISA Averaging		September		SRBAVG-nonGEO Beta2-Edition3.			*magneto-P4*
TISA Averaging		September		TSIB-SSF Beta2-Edition3.			*magneto-P4*
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		Summer		Edition2 & maybe Beta2-Edition3 ISCCP-D2like-Day/Nit. Either this delivery or the ISCCP-D2like-GEO delivery will be made, but not both. It depends on which format is chosen. [All ISCCP-D2like HDF products will have the same format.]			*magneto-P4*

Table 3. CERES Subsystem Delivery Schedule – June

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		Summer		Edition2 & maybe Beta2-Edition3 ISCCP-D2like-GEO. Either this delivery or the ISCCP-D2like-Day/Nit delivery will be made, but not both. It depends on which format is chosen. [All ISCCP-D2like HDF products will have the same format.]			*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*
GGEO	October 2	October 16	October 23	Beta1-Edition3 ISCCP-D2like-Merge.			*magneto-P4*
Regrid MOA		November		Edition3 delivery.			*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*

Table 3. CERES Subsystem Delivery Schedule – June

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		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*
Inversion		Spring 2010		Terra and Aqua Edition3.			*magneto-P4*
TISA Averaging		Early Fall		SRBAVG-GEO Beta2-Edition3. Adding Model C surface fluxes and solar insulation.			*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	May 29	June 19	June 26	Final coefficients for 11/05 - 08/07.	*warlock/ magneto*
Instrument		July 2		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

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 May 26 at 4:00 p.m. – June 8 at 2:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
653			X			11		
711			X			4.1-4.4		CERESlib updates.
712			X			CERESlib		
713			X			12		
714	X		X			9	13	

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

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

Subsystem: TISAgrid9.0 SCCR Date & TIME: 2009-06-01 14:19:21 SCCR No.: 714

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
Delta Delivery
Req# 9-2.3
PCF Ascii generator script was updated to set the next hour input file name correctly.
Req # 9-3.2
PCF Ascii generator script was updated to set the overlap file name correctly.

Reason for Change (non-Science):
Req# 9-2.3
The format (yyyymmddhh) string was not set correctly for the file name.
Req # 9-3.2
The format (yyyymmddhh) string was not set correctly for the overlap file name.

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: CER9.2 & CER9.3

Estimated Time to Complete Change: 2 days
Planned Delivery Date: 06/05/2009
List Affected Subsystems and PGE Names: TISA gridding

Originator: RAJU, RAJA (SSAI)

Table 7. June 10, 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) • Edition2 gain updates delivered looking at ValR12s to verify Edition2 gains. (Cooper) • Edition3 gains for Terra are still being studied. Generated Pre-ES8 files containing updated Second Time Constants and flight offsets using Edition2 gains to show the expected changes due to these changes for Edition3. These results are being studied. (Cooper) • Received my account on the new IBM system and was able to test the C++ Build1 code on the new system without any issues. A change needed to be made in the EOS construction record reader Makefile to use the CERESlib defined environment variable for the C-compiler. The compiler was hardcoded to "cc". (Cooper, Grepiotis)	
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) • Conversion to *magneto*. Produced ES4s, ES8s and ES9s on *magneto*. Subsystems 2 and 3 are in the new directory structure. (Walikainen) • Started checking ValR12s for the Edition2 delivery. The eight spectral correction coefficient files for each instrument are correct. (Walikainen)	
3.0	Walikainen (Cooper)	Combined with above.	

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Brown)	• Worked on SSF processing for 2003 and 2004 and posting results to the Web. (R. Brown) • Worked on Ed3 QC results for offline runs of Cloud MASK. (R. Brown) • Created IDL programs to view data from GEWEX netcdf files on global plots. (Smith) • Continued modifications to programs creating and updating GEWEX netcdf file. (Smith) • Continued working on using reason-dev to view netcdf data. (Smith) • Received new images (containing the additional parameter "attenuated") for the Google Earth script from Sharon and created a new file using them. The Google Earth key now includes the new parameter (attenuated). (Heckert) • Modified Google Earth script to read in text file containing the coordinates of the 4 corners of the flat RGB images and plot them in the Google Earth file. (Heckert) • Worked on implementing Zhonghai Jin's clear ocean reflectance model for Ed3. (Sun-Mack) • Worked on Seasonal Lapse Rate using merged CALIPSO/CloudSat/MODIS data. (Sun-Mack) • Took a class "Atmosphere Radiation." (Sun-Mack) • Working on Corrk 2.1 um SINT to make sure it works properly. (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 24 hours of Terra clouds and NEWS convolution for timing purposes. (Miller)	
4.5	Sothcott	• Attended weekly SOFA working group meetings. (Sothcott) • Continued work on the new IES-to-SSF PGEs. (Sothcott) • Completed running two months of test SSF data to support a SOFA paper being written. (Sothcott)	
4.6	Sothcott	Combined with above.	

SS No.	SS Lead	Status	Problems
5.0	Caldwell (Coleman)	• No new updates. (Caldwell)	
7.2	Caldwell (Coleman)	• No new updates. (Caldwell)	
12.0	Caldwell (Coleman)	• Looking at SSMI HDF-EOS data to determine use in Edition3. (Caldwell)	
7.1	Nguyen (Raju, Filer)	• No new updates. (Nguyen)	
8.0	Nguyen (Raju, Filer)	• No new updates. (Nguyen)	
10.0	Nguyen (Raju, Filer)	• Run Edition2D SRBAVG with several cases of GGEO data to support GGEO calibration. (Nguyen) • Ran SRBAVG on IBM Cluster. Comparing SRBAVGs from IBM and from Mac to find differences. (Nguyen) • Read the monthly zonal average TOA fluxes from ZAVG for June, July, and August 2004 for Norm. (Nguyen) • Attended the Atmospheric Radiation class. (Nguyen) • Continued supporting the SRBAVG NetCDF group. (Nguyen) • Validating Edition2E SRBAVG. (Nguyen) • Working on IDL code to read SRBAVG1 hdf file and write monthly means to a net CDF file. (Filer)	
6.0	Raju (Nguyen)	• Compared ValR10 FSW-HR, FSWB & FSW hdf products with the Edition versions produced on SGI and found precision differences on standard deviations, and small differences on fluxes. Verified with TISA science that the flux differences are due to change in the ephemeris part in the solar declination routine. (Raju)	
9.0	Raju (Nguyen)	• Found an error in PGEs 9.2P1 and 9.3 PCF perl scripts. Updated scripts and made delta delivery to CERES CM. (Raju)	

SS No.	SS Lead	Status	Problems
11.0	Raju (Nguyen)	• Continued to run 01/06, 07/07 data using different coefficients at SCF and providing GGEO products for SRBAVG process. Processed SRBAVG through validation routines and created plots for Dave Doelling. (Raju) • Preparing the documents and the software for upcoming GGEO delivery. (Raju)	
CERES -lib	Zentz	• No report received.	
Special Development Corner		• No report received.	