May 27, 2009 - System Issues and Status

Table 1: Process Strategy/Coleman as of 5/25/2009
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.

Table 1: Process Strategy/Coleman as of 5/25/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 40-09	CERES	ValR2	MOA	12.1P2	12/97	Ready.
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 5-09	FM1 or FM2	Edition2C	SYNI	7.2.1P1	3/1/2000 – 10/31/05	Done.
PR 4-09	FM1 or FM2	Edition2C	SYN/AVG /ZAVG	8.1P1	3/1/2000 – 10/31/05	Done.
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.
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 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.

Table 1: Process Strategy/Coleman as of 5/25/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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	Done. 5/17/09
PR 10-09	FM3	ValR10	SFC TISA-Grid	9.2P1 9.3P1 9.4P1	6/30/07 – 8/1/07	Done. 5/17/09
PR 09-09	FM1	ValR10	FSW TISA-Grid	6.1P1 6.2P1 6.3P1	4/30/07 – 6/1/07	Done. 5/17/09
PR 08-09	FM1	ValR10	SFC TISA-Grid	9.2P1 9.3P1 9.4P1	4/30/07 – 6/1/07	Done. 5/17/09
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.

Table 1: Process Strategy/Coleman as of 5/25/2009
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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 2. May 27, 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) • Installed updated files for the Regrid MOA (SCCR 705), TISA Gridding (SCCR 685), and Inversion (SCCR 690) to correct errors found during operational testing. (Ayers) • Delivered the Terra and Aqua Gains for September 2, 2007, through January 1, 2009, to *magneto* and *warlock*. (Ayers) • Updated the Promoted Directories document to include Instrument PGEs CER1.1P7 and CER1.1P8. (Ayers) • Retrieved final tar files for CERESlib, Instantaneous SARB, TISA Gridding, and stored them in the CM repository. (Ayers, Saunders) • The Regrid MOA delta delivery and the CERESlib delivery were sent to CM on May 22 and May 26, respectively. They will be released to the ASDC shortly. (Ayers) • The CERES Subsystem and Coefficients Delivery Schedules were updated and posted on the Web. (Ayers, Saunders)

Table 3. CERES Subsystem Delivery Schedule – May

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 703)	March 20	May 15	May 22	NPP C++ Build 1 (CER1.1P8).		X	*magneto-P4*
Regrid MOA (SCCR 713)	May 21	May 22	May 29	Delta delivery for CER PGE12.1P2.			*magneto-P4*
CERESlib (SCCR 712)	May 8	May 22	May 29	To correct Clouds GRing problem.			*magneto-P4*
Instrument (SCCR 710)	May 15	May 29	June 5	Delta delivery of NPP-enabled pre-ES-8 (CER1.2P1).			*warlock*
GGEO (SCCR 653)	April 30	June 12	June 19	Initial coefficient delivery for 11/05 - 8/07. Code delivery to support Beta10 GGEO processing.			*magneto-P4*
TISA Averaging (SCCR 650)	May 29	June 12	June 19	Support Terra Edition2E and Aqua Edition2B SRBAVG1-3 and Daily processing. New PGEs: CER10.0P1, CER10.0P2, & CER10.0P3.		X	*magneto-P4*
Synoptic SARB		July		New “pre-Synoptic” PGE.		X	*magneto-P4*
ERBE-like (SCCR 696)	June 26	July 10	July 17	To process everything including all of Edition3 on *magneto*.			*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*

Table 3. CERES Subsystem Delivery Schedule – May

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	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.		X	*magneto-P4*
Inversion	August 14	August 28	September 4	New Terra and Aqua PGEs.		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.			
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*

Table 3. CERES Subsystem Delivery Schedule – May

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 Gridding		Summer		Edition version of 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*
GGEO		Summer		Edition version of 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*
TISA Averaging		Early Fall		SRBAVG 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*
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*

Table 3. CERES Subsystem Delivery Schedule – May

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	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		???		Support TRMM VIRS-only processiong of August 2001 forward.			*magneto-P4*
Inversion		Two to four weeks after Clouds		Support TRMM VIRS-only processing.			*magneto-P4*

Table 3. CERES Subsystem Delivery Schedule – May

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

Table 4. CERES Coefficients Delivery Schedule – May 2009

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	Certified Platform(s)
Instrument		June 5		Terra Edition3 gain files for Launch – December 2006.	*warlock/ magneto*
GGEO	May 29	June 12	June 19	Final coefficients for 11/05 - 08/07.	*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. SCCR Activity April 13 at 3:00 p.m. – May 26 at 4:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
653		X				11	12	
701				X		4.1-4.4		
705				X		12		
707				X		CERESlib		
708				X		9		
711	X					4.1-4.4	14	CERESlib updates.
712	X					CERESlib	15	
713	X					12	16	

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

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

Subsystem: GGEO SCCR Date: 05/01/2007 SCCR Number: 653

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
Req# 11-19 To support Edition2A GGEO processing for 11/2005 - 12/2005.
Req# 11-20 To support Beta GGEO processing for 01/2006 - 12/2006.
Req# 11-21 To support GOES-11 satellite data processing.
Req# 11-22 Coefficient delivery for 11/2005 - 12/2006.

Reason for Change (Science):
Req# 11-19 New calibration strategy is implemented for MTSAT.
Req# 11-20 Initial delivery to process 01/2006 - 12/2006 months.
Req# 11-21 GOES-11 satellite replaces GOES-10 starting from 07/2006.
Req# 11-22 Ir and Visible coefficient files are modified.

Description of Change (non-Science):
n/a

Reason for Change (non-Science):
n/a

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: CER11.1P10

Estimated Time to Complete Change: four weeks.
Planned Delivery Date: May 25, 2007
List Affected Subsystems and PGE Names: GGEO

Date: 05/16/2007 Status: Approved
Originator: RAJU, RAJA (SSAI)

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ADDITIONAL CHANGES TO SCCR NO. 653:
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Parameter Change: ( ) YES (X) NO

Description of Change (Science):
Req# 11-21 To process G-11, MET-9, MET-7 satellites' data.
Req# 11-22 To modify IR temperature calculations.
Req# 11-23 To process ISCCP-B1U format MTSAT data.
Req# 11-24 To modify visible count to radiance conversion method for MTSAT.
Req# 11-25 To handle 10-bit calibration coefficients.

Reason for Change (Science):
Req# 11-21 G-11 satellite replaces G-10 starting from 06/06; MET-9 satellite replaces MET-8 starting from 04/07; MET-7 satellite replaces MET-5 starting from 01/07.
Req# 11-22 Updated coefficients to compute IR temperatures for day and night separately.
Req# 11-23 TISA science decided to use ISCCP-B1U format images instead of MCIDAS format images to get better IR and visible radiance.
Req# 11-24 Visible radiance is calculated in relation to SZA.
Req# 11-25 The coefficients are now for 10-bit data, the nominal resolution of most GEO satellites' visible counts.

Description of Change (non-Science):
Req# 11-26 Implement GGEO software in the new directory structure.
Req# 11-27 Modify software to run on IBM linux cluster environment.

Reason for Change (non-Science):
Req# 11-26 New directory structure was mandated by SEC.
Req# 11-27 The SGI systems are replaced with IBM linux cluster.

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: CER11.1P10

Estimated Time to Complete Change: Completed
Planned Delivery Date: May 6, 2009
List Affected Subsystems and PGE Names: CER11.2P2, CER11.4P1, TISA Averaging PGEs.

Date & Time: 2009-04-29 13:16:36
Originator: RAJU, RAJA (SSAI)

CERES Software Configuration Change Request Submittal
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*** All changes described in this SCCR were made in CERESlib. ***

Subsystem: Clouds SCCR Date & TIME: 2009-05-08 16:48:35 SCCR No.: 711

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
None

Reason for Change (Science):
N/A

Description of Change (non-Science):
A correction will be made in the GRing algorithm to handle the case where gaps in the data results in coverage of both poles, but no data between them.

Reason for Change (non-Science):
Convolution software aborts when its calculating the GRing for the above case.

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:
CER4.1-4.1P4 and CER4.1-4.1P5 on magneto

Estimated Time to Complete Change: 1 day
Planned Delivery Date: May 22
List Affected Subsystems and PGE Names: Inversion 4.5-6.1P2 and 4.5-6.1P3; SARB 5.0P1 and 5.1P1; and TISA
9.2P1

Originator: MILLER, WALTER F. (SSAI)

CERES Software Configuration Change Request Submittal
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*** All changes described in this SCCR were made in CERESlib. ***

Subsystem: CERESlib SCCR Date & TIME: 2009-05-21 12:56:08 SCCR No.: 712

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
See SCCR# 711

Reason for Change (Science):
See SCCR# 711

Description of Change (non-Science):
See SCCR# 711

Reason for Change (non-Science):
See SCCR# 711

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:
N/A

Estimated Time to Complete Change : 1 day
Planned Delivery Date : 5/26/09
List Affected Subsystems and PGE Names: Inversion 4.5-6.1P2 and 4.5-6.1P3; SARB 5.0P1 and 5.1P1; and TISA
9.2P1

Originator: ZENTZ, SCOTT M. (SSAI)

CERES Software Configuration Change Request Submittal
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Subsystem: MOA SCCR Date & TIME: 2009-05-21 15:49:35 SCCR No.: 713

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
None

Reason for Change (Science):
None

Description of Change (non-Science):
(Req# 12-2.5)
Correction to ASCII file generator for PGE 12.1P2.

Reason for Change (non-Science):
(Req# 12-2.5)
The wrong filename for the SSMI input files was being used in operational testing.

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:
12.1P2

Estimated Time to Complete Change: 1 day
Planned Delivery Date: May 22, 2009
List Affected Subsystems and PGE Names: RegridMOA

Originator: CALDWELL, THOMAS E. (SSAI)

Table 6. May 27, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
Toolkit Issues	Coleman Zentz	• No toolkit updates. (Zentz)	
1.0	Cooper (Walikainen)	• Continue to monitor incoming Terra and Aqua Level-0, ephemeris and attitude data. (Snyder) • Working to deliver CER1.1P7 NPP-FM5 main subsystem in Ada. Delivery to *warlock* only at this time. This delivery has been promoted. An update of this PGE will be delivered later this summer to fix issues with the instrument health and status packages not dealing with FM5 correctly. (Cooper) • The Build1 version of the Instrument subsystem C++ code has been tested on the new P6 without any major issues once all the environment parameters were correctly set. A problem with the EOS construction record reader was discovered and may already have a fix. (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*. Subsystem 2 is in the new directory structure. SS3 is being cast in the new directory structure. (Walikainen) • Created candidate Terra Total channel spectral responses (SRs) with different levels of degradation. The Science Team is using these to determine Edition3 SRs. (Walikainen) • Corrected errors in FM3's WN and 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)	

Table 6. May 27, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
2.0	Walikainen (Cooper) (Continued)	• Created ES4s and ES8s for the Science Team. These files were part of a sensitivity study: TOA fluxes vs. small gain changes or small grey scale changes to SW SRs. These files were created on *magneto*. The Science Team examined these files using view-HDF and reported no problems. (Walikainen)	
3.0	Walikainen (Cooper)	Combined with above.	
4.1	Sun-Mack (Brown)	• Developed Netcdf programs to create, fill, read and change Netcdf files. (Smith) • Put all QC data for 2006 into Netcdf files with GEWEX specifications. (Smith) • Began learning how to view Netcdf data through utility on reason-dev. (Smith) • Completed loading available images for Terra Ed2A-QC onto Google Map tool for months January, April and July 2007. (Heckert) • Re-wrote the code behind the creation of the pop-up window for the parameter dropdown and the image pop-ups to allow the user to page through images of the same parameter for different coordinates during that day. (This involved re-working the pop ups to use primarily PHP rather than using javascript to generate them as this was not as flexible.) (Heckert) • Worked on lapse rate for Ed3. (Sun-Mack) • Worked on 2.1 Corrk for Ed3. (Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller (Sun-Mack)	• Confirmed that the only problem with *magneto* Collection 005 delivery was in CERESlib GRing module. (Miller) • Updated GRing module and prepared it for delivery. (Miller) • Tested *magneto* Collection 005 delivery on AMI. Several differences in Terra SSF cloud layer distribution, otherwise everything tested successfully. (Miller)	

Table 6. May 27, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.5	Sothcott	• Attended weekly SOFA working group meetings. (Sothcott) • Currently running two months of Aqua data to recreate data lost in the SAN crash that will support a paper being written by the SOFA working group. (Sothcott) • Worked with Norm Loeb to verify that he is using production versions of the ADMs for testing. Also started work to help convert the validation code to the IBM cluster. (Sothcott) • Continued work on Edition3 Beta2 code upgrades and testing. (Sothcott) • Started work on two new PGEs to combine Edition3 IES and Edition2/Edition3 SSF. (Sothcott)	
4.6	Sothcott	Combined with above.	
5.0	Caldwell (Coleman)	• Working on Edition3 software. (Caldwell)	
7.2	Caldwell (Coleman)	• No new updates. (Caldwell)	
12.0	Caldwell (Coleman)	• Delivered ASCII file generator to correct problem with SSMI file names. See SCCR 713. (Caldwell)	
7.1	Nguyen (Raju, Filer)	• No new updates. (Nguyen)	
8.0	Nguyen (Raju, Filer)	• Assisted Churngwei Chu in optimizing code. (Nguyen)	
10.0	Nguyen (Raju, Filer)	• Created December 2000 and January 2006 CLARREO data. (Nguyen) • Provided code to read CLARREO data. (Nguyen) • Ran 200601 and 200707 SRBAVGs with Version 5 and Version 6 GGEO data for GGEO calibration. (NgValidating daily average SRBAVGs by providing plots to Dave Doelling. (Nguyen) • Adding Zonal Daily Average SW Incoming Fluxes to SRBAVG-Daily2. (Nguyen)	

Table 6. May 27, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
10.0	Nguyen (Raju, Filer) (Continued)	• Updated code to include the ocean and land visible optical depths from SFC. (Nguyen) • Support was provided to Churngwei Chu in creating the web browser for NetCDF SRBAVGs. (Nguyen) • Dave Doelling found some small straight lines in the daily means fluxes. Provided evidences to prove to Dave that the straight lines are due to the repeated data for nested region. (Nguyen) • Continuing to work on code to produce SRBAVG-nonGEO products for Edition3. Generating 4 seasonal months for validation. (Filer)	
6.0	Raju (Nguyen)	• Started checking the ValR10 versions of FSW products. (Raju)	
9.0	Raju (Nguyen)	• Started checking the ValR10 versions of SFC products. (Raju)	
11.0	Raju (Nguyen)	• Continue to run several months of ISCCP-B1U data with different versions of coeffiecients at SCF. Started running Michele Nordeen's GGEO/SRBAVG validation programs and creating plots for Dave Doelling. (Raju) • Preparing documents and the software for upcoming ggeo delivery. (Raju) • GOES satellites encounter two periods during the year (Feb –April and August – October) which the satellites are in the Earth's shadow. During these periods, imager instruments are powered down until the daily eclipse is over. Due to this, each day there is a missing hour (0900 for G-10/11 and hour 05 for G-12). GGEO scripts are modified to check and include the next hour images and to process separately since these images are not full disc therefore having less pixels per scan than the expected number. (Raju) • Started processing GGEO jobs in cluster environment. (Raju)	
CERES -lib	Zentz	• /SCF/CERES/lib/scf/[p6-xlf, x86-gnu, x86-int]/ceres-env.csh are ready for testing on IBM. (Zentz)	

Table 6. May 27, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
Special Development Corner		• No updates received.	

Table 1: PGE Current Events Status Table
(Updated at team meeting, and therefore subject to the availability of team members at meeting)

Subsystem ID	PGE ID	Current PGE Production Status[1]	Scripts NOMAD compliant ? (Y/N)	New Directory Structure? (Y/N/InProg)	Prod. Platform (W, P4, P6, X86)[2,3]	TK ver15 Tested? (Y/N/ InProg)	Comments
Instrument - 1	CER1.0P1	Developing	N/A	N/A	Planning P4, P6	N/A	Will comply with all the latest whenever delivered
	CER1.0P2	SSIT	Y	Y	P4[4], Planning P6	Y	C++ RDR Pre-Processor
	CER1.1P1	Active	Y	Y	W, Planning X86	Y	To be disabled when C++ working-CER1.1P8
	CER1.1P2	Disabled	N/A	N/A	N/A	N/A	Remain disabled
	CER1.1P3	Active	Y	Y	W, Planning X86	Y	To be disabled when C++ working-CER1.1P8
	CER1.1P4	Disabled	N/A	N/A	N/A	N/A	Remain disabled
	CER1.1P5	Active	Y	Y	W, Planning X86	Y	To be disabled when C++ working-CER1.1P8
	CER1.1P6	Disabled	N/A	N/A	N/A	N/A	Remain disabled
	CER1.1P7	Active	Y	Y	W, Planning X86	Y	Ada NPP
	CER1.1P8	SSIT	Y	Y	P4[4], Planning P6	Y	C++ NPP, Terra, Aqua
	CER1.2P1	Active	Y	Y	W, Planning P4, P6, X86	Y	C code
	CER1.3P1	Active	Y	Y	W[3]	Y	Replace with CER1.4P1 on P4, P6
	CER1.3P2	Active	Y	Y	W[3]	Y	Replace with CER1.4P2 on P4, P6
	CER1.3P3	Active	Y	Y	W[3]	Y	Replace with CER1.4P3 on P4, P6
ERBE-like - 2	CER2.1P1	Active	***N***	InProg	W, Planning P4,P6	InProg	Replace erbelikeqc mail list with Dale's email
	CER2.2P1	Active	***N***	InProg	W, Planning P4,P6	InProg	
	CER2.3P1	Active	***N***	InProg	W, Planning P4,P6	InProg	
	CER2.3P2	Active	***N***	InProg	W, Planning P4,P6	InProg	
	CER2.4P1	Active	***N***	InProg	W, Planning P4,P6	InProg	
ERBE-like - 3	CER3.1P1	Active	***N***	InProg	W, Planning P4,P6	InProg	
	CER3.2P1	Active	***N***	InProg	W, Planning P4,P6	InProg	
	CER3.2P2	Disabled	N/A	N/A	N/A	N/A	
Clouds	CER4.1-4.0P1	Active	Y	N/A	W[3]	Y	
4.1-4	CER4.1-4.0P2	SSIT	Y	Y	P4[4], Planning P6	Y	

	CER4.1-4.1P1	Disabled	N/A	N/A	W	N/A	PCF script email / eos + operations and Sunny
	CER4.1-4.1P2	Active	N/A	N/A	W[3]	N/A	
	CER4.1-4.1P3	Active	N/A	N/A	W[3]	N/A	
	CER4.1-4.1P4	SSIT	Y	Y	W, P4[4], Planning P6	Y	Testing on X86, but delivery to X86 not in planning stage for currently scheduled deliveries
	CER4.1-4.1P5	SSIT	Y	Y	W, P4[4], Planning P6	Y	Testing on X86, but delivery to X86 not in planning stage for currently scheduled deliveries
	CER4.1-4.1P6	Active	Y	InProg	W, Planning P4,P6	Y	Testing on X86, but delivery to X86 not in planning stage for currently scheduled deliveries
	CER4.1-4.2P1	Active	N/A	N/A	W[3]	N/A	
	CER4.1-4.2P2	SSIT	Y	Y	W, P4[4], Planning P6	Y	
	CER4.1-4.2P3	SSIT	Y	Y	W, P4[4], Planning P6	Y	
	CER4.1-4.2P4	Active	Y	InProg	W, Planning P4,P6	Y	
	CER4.1-4.2P5	Active	Y	InProg	W, Planning P4,P6	Y	
	CER4.1-4.3P1	Active	N/A	N/A	W[3]	N/A	
	CER4.1-4.3P2	SSIT	Y	Y	W, P4[4], Planning P6	Y	
	CER4.1-4.3P3	Active	Y	InProg	W, Planning P4,P6	Y	Testing on X86, but delivery to X86 not in planning stage for currently scheduled deliveries
	CER4.1-4.4P1	Disabled	N/A	N/A	W	N/A	In Op Man, but not in FMP. Delete?
Inversion/SOFA	CER4.5-6.1P1	Disabled	N/A	N/A	N/A	N/A	Probably not to be reactivated
4.5-6	CER4.5-6.1P2	Active	Y	Y	W, P4[4], Planning	Y	
	CER4.5-6.1P3	Active	Y	Y	W, P4[4], Planning	Y	
	CER4.5-6.1P4	Developing	Y	Y	Planning P4,P6	Y	Terra Main Ed3 version of 1P2
	CER4.5-6.1P5	Developing	Y	Y	Planning P4,P6	Y	Aqua Main Ed3 version of 1P3
	CER4.5-6.2P1	Disabled	N/A	N/A	N/A	N/A	Probably not to be reactivated
	CER4.5-6.2P2	Active	Y	Y	W, P4[4], Planning P6	Y	

	CER4.5-6.2P3	Developing	Y	Y	Planning P4,P6	Y	Subset postprocessor for Terra and Aqua (Ed3 version of 2P2)
	CER4.5-6.3P1	Disabled	N/A	N/A	N/A	N/A	Probably not to be reactivated
	CER4.5-6.3P2	Active	Y	Y	W, P4[4], Planning P6	Y	
	CER4.5-6.3P3	Active	Y	Y	W, P4[4], Planning P6	Y	
	CER4.5-6.4P1	Active	Y	Y	W, P4[4], Planning P6	Y	
	CER4.5-6.4P2	Developing	Y	Y	Planning P4,P6	Y	Monthly validation site (Ed3 for 4P1)
	CER4.5-6.6P2	Active	Y	Y	W, P4[4], Planning P6	Y	
	CER4.5-6.6P3	Active	Y	Y	W, P4[4], Planning P6	Y	
SARB - 5	CER5.0P1	Active	Y	Y	W, P4, Planning P6	Y	
	CER5.1P1	ValRx	Y	Y	W, P4, Planning P6	Y	
	CER5.1P2	Active	***N***	InProg	P4, Planning P6	Y	
	CER5.2P1	Deleted	N/A	N/A	N/A	Y	
	CER5.3P1	Disabled	N/A	N/A	N/A	N/A	
	CER5.4P1	ValRx	Y	Y	W, Planning P6	Y	
	CER5.4P2	Active	***N***	InProg	W, Planning P6	Y	
TISA Grid - 6	CER6.1P1	ValRx	Y	Y	W, P4[4], Planning P6	Y	
	CER6.2P1	ValRx	Y	Y	W, P4[4], Planning P6	Y	
	CER6.3P1	ValRx	Y	Y	W, P4[4], Planning P6	Y	
TISA Avg - 7.1	CER7.1.1P1	Active	Y	Y	W, P4, Planning P6	Y	
SARB - 7.2	CER7.2.1P1	Active	***N***	***N***	W, P4, Planning P6	Y	
TISA Avg - 8	CER8.1P1	Active	Y	Y	W, P4, Planning P6	Y	
	CER8.2P1	Deleted	N/A	N/A	N/A	N/A	Merged with CER8.1P1

TISA Grid - 9	CER9.0P1	Active	Y	Y	W, P4, Planning P6	Y	
	CER9.1P1	Active	Y	Y	W, P4, Planning P6	Y	
	CER9.2P1	ValRx	Y	Y	W, P4[4], Planning P6	Y	
	CER9.3P1	ValRx	Y	Y	W, P4[4], Planning P6	Y	
	CER9.4P1	ValRx	Y	Y	W, P4[4], Planning P6	Y	
TISA Avg - 10	CER10.0P1	Developing	Y	Y	Planning P4, P6	Y	
	CER10.0P2	Developing	Y	Y	Planning P4, P6	Y	
	CER10.1P1	Disabled	Y	N/A	W	N/A	Replace with CER10.0P2
	CER10.1P2	Disabled	Y	N/A	W	N/A	Replace with CER10.0P1
	CER10.2P1	Deleted	Y	N/A	W	N/A	
	CER10.3P1	Deleted	Y	N/A	W	N/A	
	CER10.1P3	Disabled	Y	N/A	W	N/A	
	CER10.1P4	Disabled	Y	N/A	W	N/A	Replace with CER10.0P2 for Terra
	CER10.1P5	Disabled	Y	N/A	W	N/A	Replace with CER10.0P1 for Terra
GGEO - 11	CER11.1P1	Disabled	N/A	N/A	N/A	N/A	
	CER11.1P2	Disabled	N/A	N/A	N/A	N/A	
	CER11.1P3	Disabled	N/A	N/A	N/A	N/A	
	CER11.1P4	Disabled	N/A	N/A	N/A	N/A	
	CER11.1P5	Disabled	N/A	N/A	N/A	N/A	
	CER11.1P6	Disabled	N/A	N/A	N/A	N/A	
	CER11.1P7	Disabled	N/A	N/A	N/A	N/A	
	CER11.1P8	Disabled	N/A	N/A	N/A	N/A	
	CER11.1P10	Active	Y	InProg	W, Planning P4,P6	Y	
	CER11.2P1	Disabled	N/A	N/A	N/A	N/A	
	CER11.2P2	Active	Y	InProg	W, Planning P4,P6	Y	TK is OK
	CER11.3P1	Disabled	N/A	N/A	N/A	N/A	
	CER11.4P1	Active	Y	InProg	W, Planning P4,P6	Y	
	CER11.5P1	Deleted	N/A	N/A	N/A	N/A	
	CER11.6P1	Active	Y	InProg	W, Planning P4,P6	***N***	If TK OK for 11.2P2, this one probably okay
	CER11.7P1	Active	Y	Y	P4, Planning P6	Y	
Regrid MOA -12	CER12.1P1	Active	Y	Y	W, P4, Planning P6	Y	

	CER12.1P2	SSI&T	Y	Y	P4[4], Planning P6	Y	Ed3 MOA

Table 1 Key:		
[1]Status	Active	Currently able to run in production
	Developing	New PGE in development, still to be delivered for the first time. Values in columns to right of the "Current PGE Production Status" column, such as the "Prod. Platform" column, are assumptions only and are highly subject to change.
	Disabled	PGE not currently in production but could be reinstated if requested
	Deleted	PGE no longer in production with little or no possibility of being reinstated
	SSI&T	PGE delivered and in SSI&T testing prior to operational processing
	ValRx	PGE promoted to production on platform, but still undergoing ValRx testing and approving phase
[2]Prod. Platform	W	warlock
	P4	Magneto - IBM P4
	P6	Magneto - IBM P6
	X86	Magneto - IBM X86
[3]Prod. Platform	W	If no other platform is indicated, then the associated PGE will be deleted once warlock is removed. Replacement PGEs on other platforms will have a new PGE identifying number and a separate entry in spreadsheet.
[4]Prod. Platform	P4[4], W[4]	Software delivered to platform and undergoing routine SSI&T testing. Not yet promoted to full production status on the platform.

Table 2: CERES Product Current Events Status Table			
Product Name	Responsible Working Group	Archival, Internal, or Ext. Input	URL in Sample Read README updated? (Y/N)[3]
BDS	Instrument	Archival	***N***
ES-8	ERBE-like	Archival	***N***
ES-9	ERBE-like	Archival	***N***
ES-4	ERBE-like	Archival	***N***
SSF	Inversion	Archival	Y
CRS	SARB	Archival	***N***
FSW	TISA-Gridding	Archival	***N***
SYN	TISA-Averaging	Archival	Y
AVG	TISA-Averaging	Archival	Y
ZAVG	TISA-Averaging	Archival	Y
SFC	TISA-Gridding	Archival	***N***
SRBAVG	TISA-Averaging	Archival	Y
ISCCP-D2like-Day/Nit	TISA-Gridding	Archival	Y
ISCCP-D2like-GEO	TISA-GGEO	Archival	Y
INSTR	Instrument	Internal	N/A
IES	Instrument	Internal	N/A
EID-6	ERBE-like	Internal	N/A
CRH	Clouds	Internal	N/A
GGEO	TISA	Internal	N/A
MOA	SARB	Internal	N/A
CID-VIRS	Clouds	Ext. Input	N/A

CID-MODIS	Clouds	Ext. Input	N/A
SURFMAP	Clouds	Ext. Input	N/A
GEO	TISA	Ext. Input	N/A
APD	SARB	Ext. Input	N/A
GAP	SARB	Ext. Input	N/A
MWH	SARB	Ext. Input	N/A
OPD	SARB	Ext. Input	N/A

Table 2 Key:	
[3]URL Update	Sample Read Package README files: References to URL http://asd-www.larc.nasa.gov/ceres/ASDceres.html need to be updated to http://science.larc.nasa.gov/ceres

Revisions:		
Date	Affected Section or PGE/Product ID	Revsion Made
1/6/2009	CER4.1-4.0P2	New PGE entry into chart
	CER4.1-4.0P1, CER4.1-4.1P2-6, CER4.1-4.2Px, CER4.1-4.3Px, CER6.xP1, CER9.xP1	Changed Op Man in Word column value from "N" to "Y"
	CER4.1-4.1P5, CER4.1-4.2P3, CER4.1-4.3P2	Changed New Dir. Structure column value from "No" to "InProg"
	CER8.1P1	Changed New Dir. Structure column value from "InProg" to "Y", Changed Production status column value from "Developing" to "Active"
	CER4.1-4.3P2	Changed Prod Platform column value from "W" to "W, Planning P4, P6"

1/20/2009	CER1.0P1, CER1.1P8	Removed X86 from planned Prod Platform
	CER4.1-4.0P1, CER4.1-4.2P1	Removed P4, P6 from plannned Prod Platform
	CER4.1-4.0P2	Removed W from Prod Platform
	CER8.2P1	Removed "With upcoming delivery" from comment
	CER9.1P1, CER9.2P1, CER9.3P1, CER9.4P1	Changed New Dir. Structure column value from "InProg" to "Y"
2/3/2009	CER2.1P1	Added comment
	CER2.4P1	Changed TK 15 tested column values from "Y" to "InProg"
	CER8.2P1	Changed Prod Status Column value from "Inactive" to "Deleted"
	CER7.2.2P1, CER10.0P3	Removed from Table 1
	CER10.1P4, CER10.1P5	Changed Prod Status Column value from "Active" to "Disabled"
	CER1.0P2	Added to list
	CER1.1P8	Removed "W" from Prod Platform column value
	CER1.1P1,3,5	Added comments
	CER4.1-4.1P2,3, CER4.1-4.2P1, CER4.1-4.3P1	Changed Scripts NOMAD, New Directory, and TK 15 column values to "N/A", changed Prod Plat column value from "W" to "W[3]"
	CER4.1-4.0P1	Changed New Dir column value from a blank to "N/A"
	CER4.1-4.1P6, CER4.1-4.2P5,6, CER4.1-4.3P3	Changed Prod Status column value from "Delivered" to Developing, New Dir and TK column values to "InProg", and Prod Plat column value from "W" to "W, Planning P4,P6"
	CER501P1	Changed NOMAD column value from "N" to "Y"
	CER5.0P1, CER5.1P1, CER5.4P1	Changed New Dir column value from "InProg" to "Y"
	CER7.2.1P1	Changed OP Man in Word column value from "N" to "Y"

	ISCCP-D2like-GEO	Changed responsible group from TISA-Averaging to TISA-GGEO
	INSTR	Changed Sample Read Pkg URL Update from "N" to "N/A"
	SYN, AVG, ZAVG, ISCCP-D2like-Day/Nit, ISCCP-D2like-GEO	Changed Sample Read Pkg URL Update from "N" to "Y"
	Table 2	Removed column for DPC in Word. All DPC entries now in Word.
2/18/2009	CER4.5-6.1P2,3, CER4.5-6.2P2, CER4.5-6.3P2,3, CER4.5-6.4P1, CER4.5-6.6P2,3	Changed New Dir. Structure column value from "InProg" to "Y", changed OP Man in Word column value from "Review" to "Y", Changed Prod Platform column value to indicate delivery to P4 in testing
	CER5.1P1, CER5.4P1, CER6.xP1, CER9.2P1, CER9.3P1, CER9.4P1	Changed Prod Platform column value to indicate delivery to P4 in testing
	CER10.0P1, CER10.0P2	Changed Prod Platform column value to not include "W"
	CER1.1P1,3,5, CER1.3P1-3	Indicated replacement PGEs for P4, P6
	CER4.5-6.1P1, CER4.5-6.2P1, CER4.5-6.3P1	Changed Op Man in Word column value from "N/A" to "Y"
	CER4.5-6.1P4,5, CER4.5-6.2P3, CER4.5-6.4P2	Changed Op Man in Word column value from "N" to "InProg"
	CER11.4P1	Changed TK 15 tested column value from "InProg" to "Y"

	CER11.7P1	Changed TK 15 tested column value from ""N to "Y", removed comment
	Table 2 - SSF	Changed URL in Sample Read column value from "N" to "Y"
3/3/2009	CER1.0P2, CER4.1-4.1P4,5, CER4.1-4.2P2,3, CER4.1-43P2	Changed Production status column value from "Developing" to "SSIT", Changed value in New Dir Structure column from "InProd" to "Y", Changed Prod. Platform column value to indicate delivery to P4 made and in pre-operational testing.
	CER4.1-4.1P6, CER4.1-4.2P4,5, CER4.1-43P3	Changed TK 15 tested column values from "InProg" to "Y"
3/17/2009	CER2.2P1	Added comment about sending Help Ticket to Sas
	CER4.1-4.1P4,5, CER4.1-4.2P2,3, CER4.1-4.3P2	Changed New Dir column value from "InProg" to "Y"
	CER4.1-4.3P2	Changed New Dir column value from "InProg" to "Y", Changed TK 15 status column value from "N" to "Y"
	CER4.5-6.1P4,5, CER4.5-6.2P3, CER4.5-6.4P2	Changed production Platform column value to include "Planning P4, P6"
3/31/2009	Table 1 - All	Removed Ops Man in Word column, as all PGEs have completed this effort
	CER2.XPx, CER3.XPx	Commented on using Dale's email address
	CER4.1-4.1P4-6	Added comment about testing on X86
	CER4.5-6.1P4,5, CER4.5-6.2P3, CER4.5-6.4P2	Changed Op Man in Word column value from "InProg" to "Y"

	CER5.1P1, CER5.4P1	Changed Production status column value from "SSIT" to "ValRx", Changed Prod. Platform column value to indicate P4
	CER12.1P2	New PGE added to table
5/26/2009	CER1.1P7, CER4.1-4.1P6, CER4.1-4.2P4,5, CER4.1-4.3P3	Changed Prod Status Column value to "Active"
	CER6.XPx, CER9.2P1, CER9.3P1, CER9.4P1, CER12.1P2	Changed Prod Status Column value to "ValRx"
	CER4.1-4.3P1	Changed NOMAD column value from "N" to "N/A"
	CER1.1P7	Changed Prod Platform column value to indicate delivery to W in testing
	CER1.1P8	Changed Prod Platform column value to indicate delivery to P4 in testing
	CER4.5-6.1P4,5, CER4.5-6.2P3, CER4.5-6.4P2	Removed "W" from production platform column value
	CER5.4P1,2	Removed "P4" from Prod Platform column value