September 2, 2009 - System Issues and Status

Table 1: Process Strategy/Coleman as of 9/01/09

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 37-09	FM1, FM2	ValR14	SSFI	Clouds delivery to *magneto*	8/07	Ready
PR 36-09	FM1, FM2	ValR14	SSF	Inversion delivery to *magneto*	8/07	Ready
PR 35-09	FM3, FM4	ValR14	SSFI	Clouds delivery to *magneto*	8/07	Ready

Table 1: Process Strategy/Coleman as of 9/01/09
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	Ready
PR 72-09	FM1, FM2	ValR13	BDS, IES	1.3P3	April, October 2000 – 2004 April 2005	HOLD for redelivery
PR 71-09	FM1, FM2	ValR13	BDS, IES	1.2P1	April, October 2000 – 2004 April 2005	HOLD for redelivery
PR 70-09	FM1, FM2	ValR13	ES8	2.4P1	April, October 2000 – 2004 April 2005	HOLD for redelivery
PR 69-09	FM1, FM2	ValR13	ES8	2.2P1	April, October 2000 – 2004 April 2005	HOLD for redelivery
PR 68-09	FM1, FM2	ValR13	ES8	2.3P1	April, October 2000 – 2004 April 2005	HOLD for redelivery
PR 67-09	FM1, FM2	ValR13	ES8	2.3P2	April, October 2000 – 2004 April 2005	HOLD for redelivery
PR 66-09	FM1, FM2	ValR13	ES4, ES9	3.1P1	April, October 2000 – 2004 April 2005	HOLD for redelivery
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 – almost done
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 – almost done
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

Table 1: Process Strategy/Coleman as of 9/01/09
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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	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
PR 31-09	FM3, FM4	Edition2C/N oSW	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	Edtion2C	FSW	6.1P1 6.2P1 6.3P1	9/1/07 – 12/31/07	Ready
PR 65-09	FM1, FM2	Edition3	BDS, IES	1.3P3	2/28/00 – 5/1/05	Pending ValRx processing and approval
PR 64-09	FM1, FM2	Edition3	BDS, IES	1.2P1	2/28/00 – 5/1/05	Pending ValRx processing and approval
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

Table 1: Process Strategy/Coleman as of 9/01/09
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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
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
PR 63-09		Beta10	GGEO	11.10P1	1/1/06 7/1/06 1/1/07 7/07 10/07 12/08	Pending Promotion
PR 62-09		Beta10	GGEO	11.2P2	1/1/06 7/1/06 1/1/07 7/07 10/07 12/08	Pending Promotion
PR 61-09		Beta10	GGEO	11.4P1	1/1/06 7/1/06 1/1/07 7/07 10/07 12/08	Pending Promotion
PR 60-09		Edition2A	GGEO	11.1P10	11/05 – 6/09	Pending ValRx processing and approval

Table 1: Process Strategy/Coleman as of 9/01/09
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 59-09		Edition2A	GGEO	11.2P2	11/05 – 6/09	Pending ValRx processing and approval
PR 58-09		Edition2A	GGEO	11.6P1	11/05 – 6/09	Pending ValRx processing and approval
PRs 40-09 thru 49-09	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. September 2, 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) • Attended the CM Industry Standard ANSI/EIA-649-A Principles and Applications three-day class. (Ayers, Saunders) • Raja updated the GGEO delivery (SCCR 653) to include the ability to process GOES-13 data. These updates are being tested. The GGEO Test Plan was updated accordingly. (Ayers, Saunders) • The Instrument (SCCR 703) and GGEO (SCCR 653) Operator's Manuals were updated and provided to the ASDC. (Saunders) • The final tar files for Regrid MOA (SCCR 713) were retrieved from the ASDC. (Ayers) • Created a prototype SSF Parameter Definition Document; working on another one now. (Ayers, Saunders) • The CERES Subsystem and Coefficients Delivery Schedules were updated and posted on the Web. (Ayers, Saunders)

Table 3. CERES Subsystem Delivery Schedule – September 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)
CERESlib	August 21	September 4	September 11	Clouds and ceres-env modifications. (Maybe TK5.2.16 version, also.)			*magneto-P4*
Clouds (SCCR 719)	August 21	September 4	September 11	Terra and Aqua Beta2-Edition3.	X		*magneto-P4*
TISA Averaging (SCCR 650)	August 21	September 4	September 11	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 28	September 11	September 18	To process everything including all of Edition3 on *magneto*.			*magneto-P4*
Synoptic SARB (SCCR 721)	September 11	September 25	October 2	Update PGE 7.2.1P1 to use new names of surface albedo history files produced by PGE 5.0P2. Port Synoptic SARB to new directory structure.			*magneto-P4*
Inversion (SCCR 722)	September 11	September 25	October 2	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*
CERESlib	September 18	October 2	October 9	Instrument updates – C version of metadata.			*magneto-P4 & ami-P6*

Table 3. CERES Subsystem Delivery Schedule – September 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)
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 Gridding	October 2	October 16	October 23	Edition2 & Beta2-Edition3 ISCCP-D2like-Day/Nit.			*magneto-P4*
TISA Gridding	October 16	October 30	November 6	SFC Terra and Aqua Beta2-Edition3.			*magneto-P4*
Regrid MOA		November		Edition3 delivery.			*magneto-P4 & ami-P6*
TISA Averaging	November 6	November 20	November 27	SRBAVG-nonGEO Beta2-Edition3. New PGE for the subsetter code.		X	*magneto-P4*
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.			*ami-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 – September 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.			*ami-X86*
GGEO	November 20	December 4	December 11	Beta1-Edition3 delivery.			*magneto-P4*
Instrument		Winter		Pre-processor updates.			
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.			*ami-P6*

Table 3. CERES Subsystem Delivery Schedule – September 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)
Instrument		May 2010		Build corrects all NPP errors found so far. Last Build before launch freeze date.			*ami-P6*
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 – September 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 – April 2005.	*warlock/ magneto*
Instrument	N/A	Early Winter		Aqua Edition3 gain files for Launch – December 2006.	*warlock/ magneto/ ami*
ERBE-like	N/A	Winter		Aqua Edition3 spectral response function files for Launch – December 2006.	*warlock/ magneto/ ami*
Instrument/ ERBE-like	N/A	???		TRMM Edition3 gains and spectral response function files.	*warlock/ magneto/ ami*

Table 5. Data Products Catalog Update Schedule – September 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 August 3 at 4:00 p.m. – August 17 at 2:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
653		X				11	13	
721			X			7.1		
722	X					4.5-4.6	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

Originator: RAJU, RAJA (SSAI)

==========
ADDITIONAL CHANGES TO SCCR NO. 653:
==========

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)

==========

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
Req# 11-28
To process G-13 satellite data.

Reason for Change (Science):
Req# 11-28
New satellite replacing G-12 from December 2008 onwards.

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: 11.1P10

Estimated Time to Complete Change: completed
Planned Delivery Date: N/A
List Affected Subsystems and PGE Names: GGEO

Date & Time: 2009-08-28 15:58:09

Originator: RAJU, RAJA (SSAI)

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

Subsystem: Inversion SCCR Date & TIME: 2009-08-25 09:35:47 SCCR No.: 722

Parameter Change: (X) YES ( ) NO

Description of Change (Science):
Create new Alternate Main PGE's for Aqua and Terra, similar to CER4.5-6.3P2 and CER4.5-6.3P3, that will use MOA, Spectral Calibration and Edition2 SSF data for input but also input an Edition3 IES. The Inversion/SOFA algorithms will operate on this new input and output an Edition3 SSF. Req. 4.5-22

Reason for Change (Science):
These new PGE's will allow for quick use and analysis of the new Edition3 IES data and the Edition3 Inversion/SOFA algorithms while being able to maintain the Edition2 cloud SSF data.

Description of Change (non-Science):
Update all interfaces to utilize the new Edition3 SSF. (Req. 4.5-21)

Reason for Change (non-Science):
Implement Edition3 SSF.

Parameter(s) and Product(s) Being Changed (Use Name(s) from Data Products Catalog) and Description of Parameter Change:
CERES SW TOA flux - downwards (SSF-38a)
CERES downward LW surface flux - Model A (SSF-42)
CERES downward WN surface flux - Model A (SSF-43)
CERES net LW surface flux - Model A (SSF-45)
CERES downward SW surface flux - Model B (SSF-46)
CERES downward SW surface flux - Model B clearsky (SSF-46a)
CERES downward LW surface flux - Model B (SSF-47)
CERES downward LW surface flux - Model B clearsky (SSF-47a)
CERES net SW surface flux - Model B (SSF-48)
CERES net LW surface flux - Model B (SSF-49)
CERES downward LW surface flux - Model C (SSF-49a)
CERES downward LW surface flux - Model C clearsky (SSF-49b)
CERES net LW surface flux - Model C (SSF-49c)
Constrained near-surface air temperature for DLF calculations (SSF-59b)
Estimated Inversion Strength (SSF-60a)

Reason for Parameter Change:
Implement upgraded LW Model A, LW Model B and SW Model B algorithms. Also, implement new algorithms LW Model C and Estimated Inversion Strength.

Affected PGEs in this Subsystem: CER4.5-6.5P2 and CER4.5-6.5P3

Estimated Time to Complete Change: 4 weeks
Planned Delivery Date: 09/25/2009
List Affected Subsystems and PGE Names: Inversion CER4.5-6.5P2 and CER4.5-6.5P3

Originator: SOTHCOTT, VICTOR E. (SSAI)

Table 7. September 2, 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) • Working on PGE CER1.2P1 to be delivered to AMI as soon as it is available. This along with CER1.1Px will be delivered early as a test of the new delivery area and process. (Cooper, Zentz) • ValR14 has been put on hold as Kory Priestley determined that the delivered Edition3 gains were incorrect before processing of the ValR14 began. (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) • SCCR-696 *magneto* delivery update. - Test Plan updated and all components working. CER2.1P1 [SNOW] - Test Plan updated and all components working. FM5 compliant (renamed Terra inputs as proxy data) CER2.3Px [Overlap] CER2.4P1 [Unfiltering coefficients] also handles Edition3 SW thermal coefficients. - Work in Progress: CER3.1P1 [Single instrument monthly] - Problem Area: CER2.2P1 [Inversion] ES8 created when es8hdf code is compiled using a special version of TK15, ceres-env-dale.csh. Compiling es8hdf code with TK16, ES8 is not created. - One Remaining PGE: CER3.2P1 [Multi-instrument monthly] (Walikainen, Zentz and Lande)	
3.0	Walikainen (Cooper)	Combined with above.	

Table 7. September 2, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Brown)	• Worked on QC results comparison for Aqua and Terra MODIS between ValR14 and Edition1A for Aqua (and Edition2-QC for Terra). Results were posted on the Web. The finding conclusion is ValR14 for both Aqua and Terra needs to be re-run. (R. Brown, Chen, Walt, Sun-Mack) • Worked on Edition3 Beta2 QC results, pixels level results, and validation. (Elizabeth, R. Brown, Chen, Sun-Mack) • Working on Terra Edition2B SSF results for 2000. Global images were posted on the Web. Currently working on updating zonal data and plots. (R. Brown) • From SARB MODIS Edition2 results, optical depth is too large compared with VIRS Ed2. Modified the cloud retrieval. Ran 2003 03 20 with this modified code. (Smith) • Began running 2006 06 14 with CO2 QC code additions (part of Edition3 beta2 effort). (Smith) • Studied web programming languages. (Smith) • 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) • Completed Edition3 beta2 package (minus 2.1 retrieval), converted the package to mac machines and then to IBM magneto. Code and scripts for 4 delivering PGEs are currently in magneto (1P6, 2P5,2P4,3P3). Once 2.1 retrieval is updated, the delivery can be made quickly. (Chen, Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	

Table 7. September 2, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.4	Miller (Sun-Mack)	• Determined differences in input data for Terra ValR14 which prevented acceptance. (Miller) • Tested TK 5.2.16 on IBM P6. Clouds compiled with 5.2.15 can run in .16, but code changes needed to compile in .16. (Miller) • Continued updating documentation on Edition3 Beta2 convolution. (Miller)	
4.5	Sothcott	• Attended weekly SOFA working group meetings. (Sothcott) • Continued testing of Edition3 Beta2 algorithms. (Sothcott) • Continued work on the new IES-SSF PGEs. (Sothcott) • Completed testing of the TK 5.2.16 for Inversion. (Sothcott) • Awaiting updated ValR14 results. (Sothcott)	
4.6	Sothcott	Combined with above.	
5.0	Caldwell (Coleman)	• No report received.	
7.2	Caldwell (Coleman)	• No report received.	
12.0	Caldwell (Coleman)	• No report received.	
7.1	Nguyen (Raju, Filer)	• No new updates.	
8.0	Nguyen (Raju, Filer)	• Completed testing new toolkit. (Filer)	

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SS No.	SS Lead	Status	Problems
10.0	Nguyen (Raju, Filer)	• Working on SRBAVGlite at Norman Loeb's request. (Nguyen) • Preparing for the upcoming delivery. (Nguyen) • Reran 200012 and 200601 CLARREO data for Dave Doelling and Dennis Keyes. (Nguyen) • Installed ancillary data files and updated surface flux code from Shashi Gupta and Anne Wilber for the Edition2E SRBAVG. Ran 2004 SRBAVGs on P6 for validation. (Filer) • Tested and compared the data of TK15 and TK16. When running few zones, the HDF files from the two toolkits are different but when running with whole globe, the data are matched exactly. Will look into this problem later. (Nguyen) • Per Dave Doellings' request, updating netCDF subsetter to incorporate user requested boundary regions. (Filer). • Ran SRBAVG subsystem for 2007 Jan to Aug for GGEO Validation. (Filer).	
6.0	Raju (Nguyen)	• Compiled software in TK5.2.16 environment. (Raju)	
9.0	Raju (Nguyen)	• Modified ISCCP merge code to include more parameters and write averaged values on to intermediate zonal files. Working with Moguo Sun to finalize ISCCP merge process set up for the upcoming PGE delivery. (Raju) • Tested SFC IO modules to handle both Edition2 and Edition3 SFC process at SCF. (Raju) • Modified PGE CER9.3P2 (post processor) and CER9.4P2 (HDF process) software to handle Edition3 data. (Ron Parrish, Raju) • Started working on the test plan and operator's manuals to include Edition3 information. (Ron Parrish) • Started working on the PGE CER9.2P2 main processor code. (Raju) • Compiled software in TK5.2.16 environment. (Raju)	

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SS No.	SS Lead	Status	Problems
11.0	Raju (Nguyen)	• Received information on 12/08 & 01/09 MOA files' availability on *magneto*. Tested G-13 satellite which replaces G-12 from 12/08 onwards. Updated SCCR and delivered the related files to CERES CM. (Raju) • Compiled ggeo software successfully in TK5.2.16. environment after few changes to array declarations in cloud code. (Raju) • Work continued to convert PCF shell scripts to perl. (Ron Parrish)	
CERES -lib	Zentz	• No report received.	
Special Development Corner		• Special development corner - Continuing to work on process to automatically populate database from daily ANGe report and to organize contents of database.	