November 25, 2009 - System Issues and Status

Table 1: Process Strategy/Coleman as of 11/24/09

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.
PRs in development for Clouds 2008 on *warlock* SCCR 742	FM1-4	ValR14w	SSFI			ASAP
PR 65-09	FM1, FM2	Edition3	BDS, IES	1.3P3	2/28/00 – 5/1/05	In progress
PR 64-09	FM1, FM2	Edition3	BDS, IES	1.2P1	2/28/00 – 5/1/05	In progress
PR 103-09 SCCR 741	FM1, FM2	ValR14b	SSFI	4.1-4.1P4 4.1-4.2P2 4.1-4.2P3 4.1-4.3P2	8/07	In progress

Table 1: Process Strategy/Coleman as of 11/24/09
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 102-09 SCCR 690	FM3, FM4	ValR14b	SSF	4.5-6.1P2 4.5-6.2P2 4.5-6.3P2 4.5-6.4P1 4.5-6.6P2	8/07	In progress
PR 101-09 SCCR 741	FM1, FM2	ValR14b	SSFI	4.1-4.1P5 4.1-4.2P2 4.1-4.2P3 4.1-4.3P2	8/07	Done. 11/20/09
PR 100-09 SCCR 690	FM3, FM4	ValR14b	SSF	4.5-6.1P3 4.5-6.2P2 4.5-6.3P3 4.5-6.4P1 4.5-6.6P3	8/07	Done. 11/20/09
PR 81-09 SCCR 718	FM1	ValR1		5.0P2	9/05	Done. 11/17/09
PR 80-09 SCCR 718	FM2	ValR1		5.0P2	1/06	Done. 11/17/09
PR 79-09 SCCR 718	FM3	ValR1		5.0P2	9/05	Done. 11/17/09
PR 85-09 SCCR 719	FM1, FM2	Beta2-Ed3	SSFI	4.1-4.1P6 4.1-4.2P4 4.1-4.2P5 4.1-4.3P3	1/04, 4/04, 7/04, 10/04, 1/06, 7/06	Ready, but Inversion is not
PR 84-09 SCCR 719	FM3, FM4	Beta2-Ed3	SSFI	4.1-4.1P6 4.1-4.2P4 4.1-4.2P5 4.1-4.3P3	1/04, 4/04, 7/04, 10/04, 1/06, 7/06	Ready, but Inversion is not
PR 83-09 SCCR 704	FM1, FM2	Beta2-Ed3	SSF	4.5-6.1P4 4.5-6.2P3 4.5-6.4P2	1/04, 4/04, 7/04, 10/04, 1/06, 7/06	Delivered
PR 82-09 SCCR 704	FM3, FM4	Beta2-Ed3	SSF	4.5-6.1P5 4.5-6.2P3 4.5-6.4P2	1/04, 4/04, 7/04, 10/04, 1/06, 7/06	Delivered
PR 44-09 SCCR 741	FM1, FM2, MODIS V005	Edition2B- QC	SSFI	4.1-4.1P4 4.1-4.2P3 4.1-4.2P2 4.1-4.3P2	1/1/08 – 1/1/09	Pending recompile on *warlock* and ValRx testing
PR 43-09 SCCR 690	FM1, FM2	Edition2G	SSF	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	1/1/08 – 1/1/09	Pending recompile on *warlock* and ValRx testing
PR 42-09 SCCR 685	FM1, FM2	Edition2G	SFC	9.2P1 9.3P1 9.4P1	1/1/08 – 1/1/09 hr 11	Pending input
PR 41-09 SCCR 692	FM1 V005 MOD08	Edition2G	CRS	5.0P1 5.1P1 5.4P1	1/1/08 – 12/31/08	Pending SSF input and MATCH input promotion

Table 1: Process Strategy/Coleman as of 11/24/09
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 40-09 SCCR 685	FM1	Edition2G	FSW	6.1P1 6.2P1 6.3P1	1/1/08 – 12/31/08	Pending input
PR 49-09	FM3, FM4, MODIS V005	Edition2C	SSFI	4.1-4.1P5 4.1-4.2P3 4.1-4.2P2 4.1-4.3P2	1/1/08 – 1/1/09	Pending recompile on *warlock* and ValRx testing
PR 48-09 SCCR 690	FM3, FM4	Edition2D/ Ed2D-NoSW	SSF	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	1/1/08 – 1/1/09	Pending recompile on *warlock* and ValRx testing
PR 47-09 SCCR 685	FM3, FM4	Edition2D/ Ed2D-NoSW	SFC	9.2P1 9.3P1 9.4P1	1/1/08 – 1/1/09 hr 11	Pending input
PR 46-09	FM3 V005 MYD08	Edition2D	CRS	5.0P1 5.1P1 5.4P1	1/1/08 – 12/31/08	Pending SSF input, recompile upon completion of PR 30-09 and subsequent ValRx processing and approval, and pending MATCH input promotion
PR 45-09 SCCR 685	FM3	Edition2D	FSW	6.1P1 6.2P1 6.3P1	1/1/08 – 12/31/08	Pending input
PR 78-09 SCCR 718	FM1, FM2	Edition2B	SAH	5.0P2	11/05 – 6/06	Pending ValR1 approval
PR 77-09 SCCR 718	FM1	Edition2F	SAH	5.0P2	7/06 – 12/07	Pending ValR1 approval
PR 75-09 SCCR 718	FM3	Edition2B	SAH	5.0P2	11/05 – 6/06	Pending ValR1 approval
PR 74-09 SCCR 718	FM3	Edition2C	SAH	5.0P2	7/06 - 12/07	Pending ValR1 approval
PR 76-09 SCCR 718	FM1	Edition2G	SAH	5.0P2	1/08 – 12/08	Pending ValR1 approval and input data
PR 73-09 SCCR 718	FM3	Edition2D	SAH	5.0P2	1/08 – 12/08	Pending ValR1 approval and input data
PR 98-09 SCCR 721	FM1	ValR1	SYNI	7.2.1P1	9/05	In Pre-Op testing
PR 97-09 SCCR 721	FM3	ValR1	SYNI	7.2.1P1	9/05	In pre-Op testing
PR 63-09 SCCR 653		Beta10	GGEO	11.10P1	1/1/06 7/1/06 1/1/07 7/07 10/07 12/08	Pending Redelivery

Table 1: Process Strategy/Coleman as of 11/24/09
Active Requests in order of priority

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 62-09 SCCR 653		Beta10	GGEO	11.2P2	1/1/06 7/1/06 1/1/07 7/07 10/07 12/08	Pending redelivery
PR 61-09 SCCR 653		Beta10	GGEO	11.4P1	1/1/06 7/1/06 1/1/07 7/07 10/07 12/08	Pending redelivery
PR 60-09 SCCR 653		Edition2A	GGEO	11.1P10	11/05 – 6/09	Pending Beta10 processing and approval
PR 59-09 SCCR 653		Edition2A	GGEO	11.2P2	11/05 – 6/09	Pending Beta10 processing and approval
PR 58-09 SCCR 653		Edition2A	GGEO	11.6P1	11/05 – 6/09	Pending Beta10 processing and approval
PRs 96-09 SCCR 726		ValR14	ERBE-like snow	2.1P1	9/09 – 11/09	Delivered
PR 95-09 SCCR 727	FM3, FM4	ValR14	SRF	2.4P1	9/07 – 11/07	Delivered
PR 94-09 SCCR 734	FM3, FM4	ValR14	ES8	2.2P1	9/07 – 11/07	Pending Delivery
PR 93-09 SCCR 734	FM3, FM4	ValR14	ES8	2.3P1	9/07 – 11/07	Pending Delivery
PR 92-09 SCCR 734	FM3, FM4	ValR14	ES8	2.3P2	9/07 – 11/07	Pending delivery
PR 91-09 SCCR 735	FM3, FM4	ValR14	ES4, ES9	3.1P1	10/07	Delivered
PR 90-09 SCCR 727	FM1, FM2	ValR14	SRF	2.4P1	9/07 – 11/07	Delivered
PR 89-09 SCCR 734	FM1, FM2	ValR14	ES8	2.2P1	9/07 – 11/07	Pending Delivery
PR 88-09 SCCR 734	FM1, FM2	ValR14	ES8	2.3P1	9/07 – 11/07	Pending Delivery
PR 87-09 SCCR 734	FM1, FM2	ValR14	ES8	2.3P2	9/07 – 11/07	Pending delivery
PR 86-09 SCCR 735	FM1, FM2	ValR14	ES4, ES9	3.1P1	10/07	Delivered
PR 86a-09 SCCR 735	FM1+ FM3	ValR14	ES4, ES9	3.2P1	10/07	Delivered

Table 2. November 25, 2009 - System Issues and Status

Activity	Lead	Status
CM/Docu-mentation	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) • Instrument (SCCR 715) was installed, compiled, and tested on *warlock* and released to the ASDC on October 23. (Ayers) • The Regrid MOA (SCCR 737) delta delivery was installed on *magneto-P4* and released to the ASDC on October 27. The Regrid MOA Operator's Manual was updated, posted on the Web, and provided to the ASDC. (Ayers, Saunders) • Instantaneous SARB (SCCR 733) was installed, compiled, and tested on *magneto-P4* and released to the ASDC on November 2. The Instantaneous SARB Test Plan and Operator's Manual were updated, posted on the Web, and provided to the ASDC. (Ayers, Saunders) • The Clouds (SCCR 741) delta delivery was installed on *magneto-P4* and released to the ASDC on November 6. (Ayers) • The Instantaneous SARB (SCCR 744) delta delivery for the 2008 MATCH files was installed on *magneto-P4*, *AMI*, and *warlock* and released to the ASDC on November 18. (Ayers) • The Clouds (SCCR 743) delta delivery was installed on *magneto-P4* and released to the ASDC on November 23. (Ayers) • The following deliveries are being tested: CERESlib (SCCR 745), Clouds (SCCR 742), and TISA Averaging (SCCR 650). (Ayers, Saunders) • The following deliveries have been sent to CM and are in the testing queue: CERESlib (SCCR 732), ERBE-like (SCCR 727), Inversion (SCCR 704), Instrument (SCCR 731), and ERBE-like (SCCR 735). (Ayers) • The Delivery Memo template, sample, and the most recent final memos for each subsystem were updated to include CERESlib information for *AMI-P6* and *AMI-X86*. (Ayers, Saunders)

Table 2. November 25, 2009 - System Issues and Status

Activity	Lead	Status
		• The Clouds (SCCR 719), Inversion (SCCR 704), ERBE-like (SCCR 727), Instrument (SCCR 731), and Inversion (SCCR 722) Operator's Manuals were updated, posted on the Web, and provided to the ASDC. (Saunders) • Updates were provided to the ASDC for Instantaneous SARB (SCCR 718) and Synoptic SARB (SCCR 737). (Ayers) • The executables for following Clouds and GGEO PGEs were deleted from the SSI&T area on *warlock*: CER4.1-4.1P2, CER4.1-4.1P3, CER4.1-4.2P1, CER4.1-4.3P1, CER11.1P10, CER11.2P2, and CER11.4P1. Information was provided to the ASDC so the same executables can be deleted from production therefore disabling these PGEs on *warlock*. (Ayers) • The updated Promoted Directories document was provided to the ASDC. (Ayers) • The Instrument (SCCR723) test delivery to *AMI* was cancelled. (Ayers) • The GGEO, ERBE-like, Clouds, Regrid MOA, SARB, and TISA Gridding Requirements Logs were updated and posted on the Web. (Saunders) • The CERES Subsystem and Coefficients Delivery Schedules were updated and posted on the Web. (Ayers, Saunders)

Table 3. CERES Subsystem Delivery Schedule – November 2009

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 (SCCR 732)	October 9	October 23	October 30	ERBE-like modifications. TISA Gridding modifications listed in SCCR 738.			*magneto-P4, AMI-P6, & AMI-X86*
ERBE-like (SCCR 727)	October 9	October 23	October 30	Delivering PGE CER2.4P1 (Unfiltering).	X		*magneto-P4*
Inversion (SCCR 704)	October 16	October 30	November 6	Terra and Aqua Beta2-Edition3.		X	*magneto-P4*
Instrument (SCCR 731)	October 23	November 6	November 13	Build that runs full Terra/Aqua Baseline1-QC and Edition1-CV. PGE 1.1P8 (C++).			*AMI-P6*
TISA Averaging (SCCR 650)	October 30	November 13	November 20	Support Terra Edition2E and Aqua Edition2B SRBAVG1-3 and Daily processing. New PGEs: CER10.0P1 & CER10.0P2.		X	*magneto-P4*
CERESlib (SCCR 745)	October 30	November 20	November 27	Bringing CERESlib on *warlock* up-to-date so Clouds PGEs can be recompiled to run with G5 MOA .			*warlock*
Clouds (SCCR 742)	October 30	November 20	November 27	Delta delivery so Edition2 Clouds can be run on *warlock*. Affected PGEs: CER4.1-4.1P4 and CER4.1-4.1P5.	X		*warlock*
ERBE-like (SCCR 735)	October 30	November 20	November 27	Delivering the Subsystem 3 PGEs.			*magneto-P4*

Table 3. CERES Subsystem Delivery Schedule – November 2009

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 716)	October 30	November 20	November 27	Terra/Aqua delivery of all Ada PGEs except CER1.1P7 to X86 platform.			*AMI-X86*
ERBE-like (SCCR 734)	November 13	November 27	December 4	Delivering the remaining Subsystem 2 PGEs.			*magneto-P4*
TISA Gridding (SCCR 739)	November 13	November 27	December 4	SFC Terra and Aqua Beta2-Edition3. PGEs CER9.2P2, CER9.3P2, & CER9.4P2.	X	X	*magneto-P4*
GGEO (SCCR 736)	November 20	December 4	December 11	Edition2 ISCCP-D2like-GEO (PGE CER11.7P1). [All ISCCP-D2like HDF products will have the same format.]			*magneto-P4*
Inversion (SCCR 722)	November 20	December 4	December 11	In case Clouds doesn't make the Edition3 schedule. (This delivery might not be needed since the code might only be run at the SCF.)		X	*magneto-P4*
Instrument (SCCR 717)	November 20	December 4	December 11	Delivery of PGE CER1.1P7 to X86 platform for NPP. (Ada)			*AMI-X86*
TISA Gridding (SCCR 746)	November 27	December 11	December 18	Edition2 ISCCP-D2like-Day/Nit (PGE CER9.0P1). [All ISCCP-D2like HDF products will have the same format.]			*magneto-P4*
Regrid MOA	November 27	December 11	December 18	Deliver MOA PGEs to *AMI*.			*AMI-P6 & AMI-X86*

Table 3. CERES Subsystem Delivery Schedule – November 2009

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 Averaging	December 4	December 18	December 25	SRBAVG-nonGEO Beta2-Edition3. New PGE for the subsetter code.		X	*magneto-P4*
Instantaneous SARB		???		New PGE to produce MATCH input files.		X	*magneto-P4*
GGEO		???		Beta1-Edition3 GGEO delivery.			*magneto-P4*
TISA Averaging		January 2010		SRBAVG-GEO Beta2-Edition3. Adding Model C surface fluxes and solar insulation.			*magneto-P4*
TISA Gridding		January 2010		Beta1–Edition2 delivery of new PGE CER9.0P2 for new ISCCP-D2like-Merge (?) product. [All ISCCP-D2like HDF products will have the same format.]		X	*magneto-P4*
Instrument	January 1	January 15	January 22	Pre-processor (PGE 1.0P2) updates. (C++)			*AMI-P6*
TISA Gridding		February 2010		Edition2 ISCCP-D2like-Flux.			*magneto-P4*
TISA Gridding		February 2010		Beta2-Edition3 ISCCP-D2like-Day/Nit. (PGE 9.0P1) (This delivery might not be needed.)			*magneto-P4*

Table 3. CERES Subsystem Delivery Schedule – November 2009

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		March 2010		Updates to PGE 1.1P8 for NPP. (C++) Also, build to correct any NPP-related errors discovered in NCT3 testing.			*AMI-P6*
Clouds		Spring 2010		Terra and Aqua Edition3.			*magneto-P4*
Inversion		Spring 2010		Terra and Aqua Edition3.			*magneto-P4*
Instrument		August 2010		Build corrects all NPP errors found so far. Last Build before launch freeze date. Might not be needed			*AMI-X86*
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 – November 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	November 20		Terra Edition3 spectral response function files for Launch – December 2004.	*warlock/ magneto/ AMI*
Instrument	N/A	November 27		Terra Edition3 gain files for January 2005 – March 2009.	*warlock/ magneto/ AMI*
ERBE-like	N/A	December 4		Terra Edition3 spectral response function files for January 2005 – March 2009.	*warlock/ magneto/ AMI*
Instrument/ ERBE-like	N/A	December 11		Terra & Aqua Edition2 gain and spectral response function files for January 2009 – September 2009.	*warlock/ magneto/ AMI*
Instrument	N/A	January 8		Aqua Edition3 gain files for Launch – March 2009.	*warlock/ magneto/ AMI*
ERBE-like	N/A	January 15		Aqua Edition3 spectral response function files for Launch – March 2009.	*warlock/ magneto/ AMI*
Instrument/ ERBE-like	N/A	???		TRMM Edition3 gains and spectral response function files.	*warlock/ magneto/ AMI*

Table 5. SCCR Activity October 27 at 10:30 a.m. – November 23 at 12:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
650			X			10		
696					X	2 & 3		
718				X		5		
719				X		4.1 – 4.4		
723		X				1	13	
729				X		2		
730			X			2		
731			X			1		
732		X	X			CERESlib	15	ERBE-like modifications.
733			X			5		
734			X			2		
735			X			3		
736			X			11		
737			X			12		
738	X		X			9	17	
739	X					9	18	
740	X					2 & 3	20	
741	X		X	X		4.1 – 4.3	21	
742	X		X			4.1 – 4.4	22	
743	X		X			4.1 – 4.3	23	
744	X		X			5	24	
745	X		X			CERESlib	25	
746	X					6 & 9	26	

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

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

Subsystem: Instrument SCCR Date: 09/10/2009 SCCR Number: 723

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
Delivery of PGE CER1.2P1 to the new AMI system both P6 & x86 (Reqt. # 1-31)

Reason for Change (non-Science):
Test out new SSIT area and the delivery process to that new area

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:
CER1.2P1

Estimated Time to Complete Change: 2 wks
Planned Delivery Date: 09/25/09
List Affected Subsystems and PGE Names: CER1.2P1

Date: 09/21/2009 Status: APPROVED

Originator: COOPER, DENISE L. (SSAI)

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ADDITIONAL CHANGES TO SCCR NO. 723:
==========

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
Disapprove this SCCR:

PGE CER1.2P1 will be delivered with SCCR#716, which includes all the Ada PGEs

Reason for Change (Science):
Scripts used in CER1.2P1 need to be modified when the delivery of the Ada code is done, this will affect SIT testing of CER1.2P1.

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:
CER1.2P1

Estimated Time to Complete Change: 1 day
Planned Delivery Date: Nov. 20, 2009
List Affected Subsystems and PGE Names: CER1.2P1

Date & Time: 2009-11-16 14:53:42

Originator: COOPER, DENISE L. (SSAI)

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

Subsystem: CERESlib SCCR Date: 10/22/2009 SCCR Number: 732

*** All changes described in this SCCR were made in CERESlib. ***

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
See SCCR 730

Reason for Change (Science):
See SCCR 730

Description of Change (non-Science):
See SCCR 730

Reason for Change (non-Science):
See SCCR 730

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 : 10/23/09
List Affected Subsystems and PGE Names: Inversion and Erbe-Like

Date: 10/28/2009 Status: UNKNOWN

Originator: ZENTZ, SCOTT M. (SSAI)

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ADDITIONAL CHANGES TO SCCR NO. 732:
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Parameter Change: ( ) YES (X) NO

Description of Change (Science):
See SCCR 730 and SCCR 738

Reason for Change (Science):
See SCCR 730 and SCCR 738

Description of Change (non-Science):
See SCCR 730 and SCCR 738

Reason for Change (non-Science):
See SCCR 730 and SCCR 738

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 : Nov 27th 2009
List Affected Subsystems and PGE Names: inversion, erbelike, tisa-gridding

Date & Time: 2009-11-24 15:46:47

Originator: ZENTZ, SCOTT M. (SSAI)

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

Subsystem: TISAgrid9.0 SCCR Date & TIME: 2009-11-03 09:37:45 SCCR No.: 738

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
Requirement # 9-2.3
Update modules (tisa_grid_type_def.f90, sfc.f90, sfc_type_def.f90, sfc_file.f90) in CERESLIB to support both Edition2 and Edition3 process.

Reason for Change (non-Science):
Requirement # 9-2.3
These interface modules are used in both SFC and SRBAVG process.

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:
CER9.2P1,CER9.3P1,CER9.4P1,CER9.2P2,CER9.3P2,CER9.4P2

Estimated Time to Complete Change : 2 weeks
Planned Delivery Date : November 20, 2009
List Affected Subsystems and PGE Names: SS9 and SS10

Originator: RAJU, RAJA (SSAI)

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

Subsystem: TISAgrid9.0 SCCR Date & TIME: 2009-11-03 10:48:24 SCCR No.: 739

Parameter Change: (X) YES ( ) NO

Description of Change (Science):
Requirement #s 9-2.4,9-3.2,9-4.2
New PGEs (CER9.2P2,CER9.3P2,CER9.4P2) to support Edition3 process.

Requirement #s 9-2.6,9-3.3,9-4.3
Update scripts to reflect the changes to the output product names.

Requirement #s 9-2.5,9-3.4
Define new types in the binary output record to write computed TOA fluxes and Angular Model scenes based on GMT hour.

Reason for Change (Science):
Requirement #s 9-2.4,9-3.2,9-4.2
New PGEs are required for Edition3 process.

Requirement #s 9-2.6,9-3.3,9-4.3
TISA science team has decided to change product name from SFC to SSF-GRID-HOURLY.

Requirement #s 9-2.5,9-3.4
This data is written on to binary product for TSI (7.1.1) process.

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:
Replace Total-sky reference with All-sky
Add Precipitable Water MOA
Add Wind Speed MOA
Add Estimated Inversion Strength MOA
Add CWG Surface Skin Temperature MODIS
Add New Cloud Layer (Total Cloud Properties)
Add Liquid Particle (3.7), Liquid Particle Radius(2.1), Ice Particle Diameter (3.7), Ice Particle Diameter (2.1) in all 5 cloud layers
Remove Vertical Aspect Ratio from all 5 cloud layers.
Add 11 Cloud Overlap Conditions (Clear,Lower,Lower Middle,Upper Middle, High, High over Upper Middle, High over Lower Middle, High over Lower, Upper Middle over Lower Middle, Upper Middle over Lower, Lower Middle over Lower.)
Add Surface Flux LW Model C
Add Deep blue aerosol optical depth land (0.470)
Add Deep blue aerosol optical depth land (0.550)
Add Deep blue aerosol optical depth land (0.659)
Add Solution indices ocean small average Add Solution indices ocean large average

Reason for Parameter Change:
All changes are included in the Edition3 CER_SSF-GRID-HOURLY HDF product.

Affected PGEs in this Subsystem:
CER9.2P2,CER9.3P2,CER9.4P2

Estimated Time to Complete Change : 2 months
Planned Delivery Date : November 20, 2009
List Affected Subsystems and PGE Names: SS9

Originator: RAJU, RAJA (SSAI)

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

Subsystem: ERBElike SCCR Date & TIME: 2009-11-05 10:15:48 SCCR No.: 740

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
(Req 2-12) Deliver subsystem code to the P6s.

Reason for Change (non-Science):
Take advantage of the our new resources.

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:
All

Estimated Time to Complete Change : TBD
Planned Delivery Date : TBD
List Affected Subsystems and PGE Names: Inversion: CER4.5-6.1P2, CER4.5-6.1P3,CER4.5-6.1P4,CER4.5-6.1P5,CER4.5-6.3P2,
CER4.5-6.3P3,CER4.5-6.6P2,CER4.5-6.6P3

Originator: WALIKAINEN, DALE R. (SSAI)

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

Subsystem: Clouds4.1-3 SCCR Date & TIME: 2009-11-06 12:00:34 SCCR No.: 741

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
Updating the PCF generators for CER4.1-4.1P4 and CER4.1-4.1P5 to turn off Welch algorithm.

Reason for Change (Science):
To reprocess the ValR14 runs for month 200708.

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:
CER4.1-4.1P4 , CER4.1-4.1P5

Estimated Time to Complete Change : 1 Day
Planned Delivery Date : 11/6/2009
List Affected Subsystems and PGE Names: Inversion

Originator: BROWN, RICKY R. (SSAI)

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

Subsystem: Clouds SCCR Date & TIME: 2009-11-17 11:42:27 SCCR No.: 742

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
Recompile and test CERESlib for Edition2 Clouds version on warlock.

Reason for Change (Science):
To access or read G5-CERES MOA (Req 4-6.3).

Description of Change (non-Science):
To add an environmental variable MODIS_IGBP in the environment script on warlock.

Reason for Change (non-Science):
To be able to choose between regular-IGBP and MODIS-IGBP map (Req 4-6.4) on warlock.

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 on warlock and CER4.1-4.1P5 on warlock

Estimated Time to Complete Change : one day
Planned Delivery Date : Nov. 20, 2009
List Affected Subsystems and PGE Names: Inversion 4.5-6.1P4, 4.5-6.1P5, and 4.5-6.2P2; SARB 5.0P2 and 7.2.1P1; and TISA 9.2P1 and 9.0P1

Originator: SUN-MACK, SUNNY (SSAI)

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

Subsystem: Clouds4.1-3 SCCR Date & TIME: 2009-11-18 09:56:11 SCCR No.: 743

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
None

Reason for Change (Science):
N/A

Description of Change (non-Science):
Modify CER4.1-4.0P2 shell PCF generator script on magneto (Req 4-8.1)

Reason for Change (non-Science):
To handle new version of NSIDC snow/ice HDFEOS file: NISE_SSMISF17 running from magneto.

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:
CER4.1-4.0P2 on magneto

Estimated Time to Complete Change : one day
Planned Delivery Date : Nov. 20, 2009
List Affected Subsystems and PGE Names: Clouds and all subsystems that use Snow/Ice maps. For Clouds PGEs:
CER4.1-4.1P4, CER4.1-4.1P5, CER4.1-4.1P6

Originator: SUN-MACK, SUNNY (SSAI)

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

Subsystem: InstSARB SCCR Date & TIME: 2009-11-18 10:36:43 SCCR No.: 744

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
(Req#5-19.0)
Delivery of ancillary MATCH data files for 2008.

Reason for Change (non-Science):
(Req#5-19.0)
To enable processing of CRS data for 2008.

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:
5.0P1, 5.0P2, 5.1P1, 5.1P2, 7.2.1P1

Estimated Time to Complete Change : 2 days
Planned Delivery Date : November 20, 2009
List Affected Subsystems and PGE Names: Instantaneous SARB, Synoptic SARB

Originator: CALDWELL, THOMAS E. (SSAI)

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

*** All changes described in this SCCR were made in CERESlib. ***

Subsystem: CERESlib SCCR Date & TIME: 2009-11-18 14:57:53 SCCR No.: 745

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
Updating the warlock SGI 64-bit version of CERESlib to match that of Magneto and AMI. This includes SCCRs 688 697 707 712 724

Reason for Change (Science):
To allow clouds to process on warlock

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:
n/a

Estimated Time to Complete Change : 1 day
Planned Delivery Date : 11/19/09
List Affected Subsystems and PGE Names: Clouds

Originator: ZENTZ, SCOTT M. (SSAI)

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

Subsystem: TISAgrid SCCR Date & TIME: 2009-11-20 07:19:19 SCCR No.: 746

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
Requirement # 9.0-3
Calculate total cloud for all cloud types to include in the HDF product.
Change 3hourly bin from the center hours of 2,5,6,11,14,17,20, 23 to 0,3,6,9,12,15,18,21 to be consistent with the other ISCCP products.

Requirement # 9.0-4
Two new categories were added on the ISCCP-D2likeDay/Nit products.

Reason for Change (Science):
Requirement # 9.0-3
TISA science team has decided to include total cloud data on the ISCCP-D2likeDay/Nit HDF products.

Requirement # 9.0-4
Added Total cloud and Lat/Long categories on the HDF product.

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:
CER9.0P1

Estimated Time to Complete Change : 2 weeks
Planned Delivery Date : December 11, 2009
List Affected Subsystems and PGE Names: CER9.0P1

Originator: RAJU, RAJA (SSAI)

Table 6. November 25, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
Toolkit Issues	Zentz	• No report received.	
1.0	Cooper (Walikainen)	• CER1.2P1 delivery has been cancelled due to changes that needed to be made to the PCF generation scripts to match the new *AMI* delivery procedures. The PGE will be redelivered with all of the Ada PGEs to *AMI* x86 this week. (Cooper) • Build2 of the C++ has been delivered to CERES CM. (Grepiotis, Timcoe) • CER1.1P7 the Ada NPP Level-0 processor delivery to *AMI* x86 will occur on Dec. 4th. (Cooper) • A problem with the BDS compression program on the P6 has been discovered. The program works fine on the x86, but fails with a segmentation fault on the P6. The program is being rewritten in C++ to see if the problem can be eliminated on the P6 and also work on the x86. The same problem also exists with the HDF comparison software; however, a workaround for this issue has been developed. (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) • Completed analysis of nadir files generated from proposed Edition2 Terra 2009 (Jan - Aug) gains and spectral response functions. This Test0 keeps the gains and spectral responses at Dec08 levels. (Walikainen) • Delivered SCCR-727 tar files 11/6/09. (Walikainen) • Delivered SCCR-735 tar files 11/20/09. (Lande) • Preparing SCCR-734 for delivery. This will complete ERBE-like code migration to *magneto*. (Walikainen)	

Table 6. November 25, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
3.0	Walikainen (Cooper)	• Combined with above.	
4.1	Sun-Mack (Brown)	• Worked on delta delivery for Clouds SCCR#741 for ValR14b on *magneto*. (Brown, Sun-Mack) • Worked on delta delivery for Clouds SCCR#742. (Brown, Sun-Mack) • Worked on delta delivery for Clouds SCCR#743. (Brown, Sun-Mack) • Worked on Ed3 Beta 2 results for QC page. (Smith, Chen, Brown) • Modified perl script for ISCCP results to reference Global, Tropic and Non-Polar images and display results in pop-up window. Results for Ed3 Beta 2 were posted on the Web. (Brown) • Worked on looking into S'COOL problem with running script on *magneto*. (Brown) • Worked on producing QC global images and statistics for ValR14b results. (Brown) • Worked on preparing results for CERES Science Team Meeting. (All) • Made modifications to the Google Map tool to load images from *AMI* instead of the SAN. (Heckert) • Developed a 6 hour Google Earth file for ATRAIN 2007-02-01 hours 00 through 05 (curtain only). (Heckert) • Working on a Google Map for ATRAIN curtain images. (Heckert, Gibson) • Developing a script to dynamically generate the CERES Parameters Catalogue Document using mysql database tables. (Heckert) • Corrected clouds QC method of tallying CO2 Multi ID values. Added Tau HI and Tau LOW to CO2 data. (Smith) • Created clouds QC of whole month 2007 08 Aqua. (Smith)	

Table 6. November 25, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Brown) (Continued)	• Worked on automating clouds QC ISCCP post processing plotting (Smith) • MODIS mis-match scan summary: (Chen) Terra 2006 ----> 2708 mis-match pairs 2007 ----> 95 2008 ----> 0 2009 ----> 0 (up to Nov 16, 2009) Aqua 2006 ----> 2 mis-match pairs 2007 ----> 3 2008 ----> 1 2009 -- -> 0 (up to Nov 16, 2009) • Worked on ValR14b, ValR14, and Ed2 comparisons. (Chen, Brown, Sun-Mack) • A-train processing. (Sun-Mack) • MODIS-AIR comparisons. (Sun-Mack)	
4.2	Sun-Mack	• Combined with above.	
4.3	Sun-Mack	• Combined with above.	
4.4	Miller (Sun-Mack)	• Placed surface albedo file reader in a program that uses SSF colatitude and longitude to pull data. (Antropov) • Learned how to use view_hdf. (Antropov) • Modified 1 degree gridding program to run for a month. (Miller) • Investigated the Terra ValR14 and ValR14b SSF differences on 1 degree grid for August 2007. (Miller) • Finished IDL code to display 1 degree gridded SSF data. (Miller) • Provided input to *AMI* FAQ. (Miller) • Drafted an SGE tutorial for ASDC review. (Miller)	

Table 6. November 25, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.5	Sothcott	• Attended weekly SOFA working group meetings. (Sothcott) • Delivered to the S'COOL group an offline SCF version of the subsetter to support the Ocean Watch project. Also assisted with training and debugging. (Sothcott) • Completed work on the IES-SSF new PGEs. Have completed testing and are waiting on Science approval. Ready for delivery. (Sothcott) • Completed an offline version of Edition3 Beta2 to use for test purposes that will input an Edition2 SSF and output Edition3 SSF. (Sothcott) • Have generated Edition3 Beta2 SSF data for use by SARB and TISA groups using input data from the clouds group and from Edition2. (Sothcott) • Completed and delivered the Ops manual associated with the IES-SSF new PGEs and SCCR 722. (Sothcott)	
4.6	Sothcott	• Combined with above.	
5.0	Caldwell (Coleman)	• No new updates. (Caldwell)	
7.2	Caldwell (Coleman)	• No new updates. (Caldwell)	
12.0	Caldwell (Coleman)	• Working on porting RegridMOA PGEs to *AMI* system. (Caldwell)	
7.1	Nguyen (Raju, Filer)	• No new updates. (Nguyen)	
8.0	Nguyen (Raju, Filer)	• No new updates. (Nguyen)	

Table 6. November 25, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
10.0	Nguyen (Raju, Filer)	• Edition2E Terra and Edition2B SRBAVG code and documentations were delivered to CM for testing. (Nguyen) • Working on Beta2-Edition3 nonGEO SRBAVG code to create the data structures. (Nguyen) • Updated SRBAVGLite code to add the monthly means solar insolation and the monthly and daily means daylight snow/ice as requested by Norman Loeb (Nguyen) • Run version00 March 2000 - December 2007 SRBAVGLites and read the monthly means of the fluxes of version00 and version02 for Norman Loeb. (Nguyen) • Continued running SRBAVGs with the new GGEOs to support GGEO validations. (Nguyen)	
6.0	Raju (Nguyen)	• No new updates. (Raju)	
9.0	Raju (Nguyen)	• Tested SFC Edition3 data access routines and sent to Scott Zentz to include them in the cereslib. (Raju) • Received one day of FM1/FM3 SSF files from Victor Sothcott for Edition3 SFC testing. Tested all three PGEs (CER9.2P2 – 9.4P2) using test data at SCF. (Raju, Parrish) • Modified PGE 9.2P2 software to include range checks for new parameters. Started generating QC reports to verify software/data. (Parrish, Raju) • Work continued to complete PGE CER9.2P2 code for Edition 3. (Ron Parrish) • Test Plan and User's Guide are being updated for Edition 3. (Ron Parrish)	

Table 6. November 25, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
9.0	Raju (Nguyen) (Continued)	• According to TISA science team specifications, modified ISCCP-D2likeDay/Nit software to include two new categories on the HDF products to write total cloud and latitude/longitude values. Ran five months of FM1 data through PGE 9.0P1 at SCF for science validations. (Raju) • Continue to work with Moguo Sun on the ISCCP-D2like merge software. (Raju)	
11.0	Raju (Nguyen)	• Processed 11/05 – 07/07 MTSAT data with different nonlinearity coefficients at SCF and provided inputs to SRBAVG process for ggeo validations. (Raju) • During SSIT testing of PGE 11.1P10 on *magneto*, it was found that some of the cereslib/bin scripts are existing with an error code. To resolve this problem, scripts were copied into local directory and modified. GGEO pcf scripts were modified to access local versions. All these will be provided to CM as part of GGEO delivery. (Raju) • Work continues to modify the ISCCP-D2likeGEO software to write output HDF product using same format as the ISCCP-D2likeDay/Nit products. (Raju) • Work continued to convert PCF shell scripts to perl. (Ron Parrish)	
CERES -lib	Zentz	• No report received.	
Production Processing Database		• Continuing to populate with current information. Preparing to convert form MySQL to Postgres. (Grune)	
Ordering Tool		• No report received.	
Optimization/ Automation		• Looking at requirements for hosting PR database. (Coleman, Grune) • Becoming more familiar with using SGE. (Davenport) • Documenting rules for updating CC numbers. Plan to distribute draft late December. (Coleman, Davenport, Lee)	

Table 7. November 25, 2009 – Other NPP Issues

Activity	Status
Telecons/ Meetings	• Attended the NPP GSIT SI&T meeting November 13 and 20. GSIT has been postponed indefinitely, but the test team and SDS are moving ahead to refine test procedures and other preparations. A TRR is tentatively being planned for mid December, and it's rumored that the GSIT will take place in the March timeframe. (Closs)
System Engineering	• Provided additional detail on test procedures and test artifact generation for GSIT preparations. Continued to coordinate test preparations with ASDC personnel. (Closs)