

February 3, 2010 - System Issues and Status

**Table 1: Process Strategy/Coleman as of 02/02/10
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 1-09		NSIDC- NESDIS	EICE ESNOW 16 th mesh	4.1-4.0P2	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 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 1/1/08 – 1/1/10	In Progress
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 1/1/08 – 1/1/10	In Progress

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PRs 104-09 thru 111-09 Clouds 2008 on <i>warlock</i> SCCR 742	FM1, FM2	ValR14w4 (GEOS4), ValR14w5 (G5-CERES)	SSF	Clouds and Inversion	12/07	In Progress ValR14w4 complete
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	In Progress
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	In Progress
PRs 119-09 thru 126-09	FM1, FM2, FM3, FM4	Edition2	BDS, IES, ES8, ES4, ES9	Instrument and ERBE-like	1/2/09 – 10/1/09	Ready. ValRx approved.
PR 42-09 SCCR 685	FM1, FM2	Edition2G	SFC	9.2P1 9.3P1 9.4P1	1/1/08 – 1/1/09 1/1/08 – 1/1/10 hr 11	Pending SSF input
PRs 129-09 thru 135-09	FM1, FM2	ValR16 (for Ed3)	BDS, IES, ERBE-like	Instrument and ERBE-like	12/04, 5/05, 6/06, 10/07, 5/08, 3/09	Ready
PRs 96-09 SCCR 726		ValR14	ERBE-like snow	2.1P1	9/09 – 11/09	Ready
PR 95-09 SCCR 727	FM3, FM4	ValR14	SRF	2.4P1	9/07 – 11/07	Ready
PR 90-09 SCCR 727	FM1, FM2	ValR14	SRF	2.4P1	9/07 – 11/07	Ready
PRs 11-10 thru 14-10 (in development)	FM1, FM2, FM3, FM4	ValRx	SRBAVG	10.0P1, 10.0P2	1/04, 4/04, 7/04, 10/04	In Pre-Op Testing
PRs 9-10 thru 10-10 (in development)	FM1, FM2	Edition2E	SRBAVG	10.0P1, 10.0P2	3/2000 – 10/05	In Pre-Op Testing
PRs 7-10 thru 8-10 (in development)	FM3, FM4	Edition2B	SRBAVG	10.0P1, 10.0P2	7/2002 – 10/05	In Pre-Op Testing
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 1/1/08 – 1/1/10	HOLD

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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 1/1/08 – 1/1/10	HOLD
PR 47-09 SCCR 685	FM3, FM4	Edition2D/ Ed2D-NoSW	SFC	9.2P1 9.3P1 9.4P1	1/1/08 – 1/1/09 1/1/08 – 1/1/10 hr 11	Pending input
PRs 119-09 thru 126-09	FM1, FM2, FM3, FM4	Edition2/ Ed2-NoSW	BDS, IES, ERBE-like	Instrument and ERBE	1/09 – 8/09	Ready
PRs 127-09, 128-09	FM1, FM2	Edition3	BDS, IES	Instrument and ERBE	12/04 – 3/09	Pending ValRx approval
PR 41-09 SCCR 692	FM1 V005 MOD08	Edition2G	CRS	5.0P1 5.1P1 5.4P1	1/1/08 – 12/31/08 1/1/08 – 12/31/09	Pending SSF input
PR 40-09 SCCR 685	FM1	Edition2G	FSW	6.1P1 6.2P1 6.3P1	1/1/08 – 12/31/08 1/1/08 – 12/31/09	Pending CRS input
PR 46-09	FM3 V005 MYD08	Edition2D	CRS	5.0P1 5.1P1 5.4P1	1/1/08 – 12/31/08 1/1/08 – 12/31/09	Pending SSF input and subsequent ValRx processing and approval
PR 45-09 SCCR 685	FM3	Edition2D	FSW	6.1P1 6.2P1 6.3P1	1/1/08 – 12/31/08 1/1/08 – 12/31/09	Pending input
PR 78-09 SCCR 718	FM1, FM2	Edition2B	SAH	5.0P2	11/05 – 6/06	Ready
PR 77-09 SCCR 718	FM1	Edition2F	SAH	5.0P2	7/06 – 12/07	Ready
PR 75-09 SCCR 718	FM3	Edition2B	SAH	5.0P2	11/05 – 6/06	Ready
PR 74-09 SCCR 718	FM3	Edition2C	SAH	5.0P2	7/06 - 12/07	Ready
PR 76-09 SCCR 718	FM1	Edition2G	SAH	5.0P2	1/08 – 12/08	Ready
PR 73-09 SCCR 718	FM3	Edition2D	SAH	5.0P2	1/08 – 12/08	Pending input data

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 63-09 SCCR 653		Beta10	GGEO	11.10P1	1/1/06 7/1/06 1/1/07 7/07 10/07 12/08	Delivered
PR 62-09 SCCR 653		Beta10	GGEO	11.2P2	1/1/06 7/1/06 1/1/07 7/07 10/07 12/08	Delivered
PR 61-09 SCCR 653		Beta10	GGEO	11.4P1	1/1/06 7/1/06 1/1/07 7/07 10/07 12/08	Delivered
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 5-10 thru 6-10 (in development)	FM1, FM2	Edition2E	SRBAVG	10.0P1, 10.0P2	11/05 – 12/09	In Pre-Op Testing
PRs 3-10 thru 4-10 (in development)	FM3, FM4	Edition2B	SRBAVG	10.0P1, 10.0P2	11/05 – 12/09	In Pre-Op Testing
PRs in development	FM1, FM2, FM3, FM4	Edition2x	TSI, SYNI, SYN/AVG /ZAVG	7.1P1 7.2P1 8.1P1	11/05 – 12/08	Pending input
PR 2-10 SCCR 753	CERES	DAO-G5-CERES	MOA	12.1P1	1/08 – 12/09	In Progress – thru 10/09 – pending input

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 1-10 SCCR 753	CERES	DAO-G5-CERES	PMOA	9.1P1	1/08 – 12/09	In Progress – pending input
PRs 138-09, 139-09 SCCR 746	FM1, FM2, FM3, FM4	ValR1	ISCCP-D2like-Day/Nit	9.0P1	7/02 – 4/03 Seasonal Months only	Delivered
PR 141-09 SCCR 736		ValR1	ISCCP-D2like-GEO	11.7P1	7/02 – 4/03 Seasonal Months only	Delivered
PRs 136-09, 137-09 SCCR 746	FM1, FM2, FM3, FM4	Edition2	ISCCP-D2like-Day/Nit	9.0P1	Launch thru 9/09	Delivered
PR 140-09 SCCR 736		Edition2	ISCCP-D2like-GEO	11.7P1	3/2000 – 12/08	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 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	Pending Redelivery
PR 86a-09 SCCR 735	FM1+ FM3	ValR14	ES4, ES9	3.2P1	10/07	Pending Redelivery
PR 91-09 SCCR 735	FM3, FM4	ValR14	ES4, ES9	3.1P1	10/07	Pending Redelivery

Table 2. February 3, 2010 - System Issues and Status

Activity	Lead	Status
CM/Documentation	Ayers (Saunders)	<ul style="list-style-type: none"> • 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) • GGEO (SCCR 736) was installed, compiled, and tested on <i>magneto-P4</i>, and released to the ASDC on Thursday, January 21. (Saunders) • Regrid MOA (SCCR 749) was installed, compiled, and tested on <i>AMI-P6</i> and <i>AMI-X86</i>, and released to the ASDC on Monday, January 25. (Ayers) • TISA Gridding (SCCR 746) was installed, compiled, and tested on <i>magneto-P4</i>, and released to the ASDC on Tuesday, January 27. (Saunders) • After receiving updates from Raja, GGEO (SCCR 653) was recompiled and retested on <i>magneto-P4</i>, and released back to the ASDC on Thursday, January 28. (Ayers) • The ERBE-like (SCCR 735) Operator’s Manual and the GGEO (SCCR 736), Regrid MOA (SCCR 749), and TISA Gridding (SCCR 746) Test Plans were updated, posted on the Web, and provided to the ASDC. (Saunders) • Testing the Instrument (SCCR 716) delivery on <i>AMI</i>. (Ayers) • The Toolkit Version per PGE document was updated for PGEs CER11.7P1, CER9.0P1, CER11.1P10, CER11.2P2, and CER11.4P1 and provided to the ASDC. (Ayers) • The CERES Subsystem and Coefficients Delivery Schedules were updated and posted on the Web. (Ayers, Saunders)

Table 3. CERES Subsystem Delivery Schedule – February 2010

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 In Testing	January 29	Terra/Aqua delivery of all Ada PGEs except CER1.1P7 to X86 platform.			<i>AMI-X86</i>
Instrument (SCCR 717)	November 20	December 4 In Testing	January 29	Delivery of PGE CER1.1P7 to X86 platform for NPP. (Ada)			<i>AMI-X86</i>
Instrument (SCCR 731)	October 23	November 6 In Testing	January 29	Build that runs full Terra/Aqua Baseline1-QC and Edition1-CV. PGE 1.1P8 (C++).			<i>AMI-P6</i>
ERBE-like (SCCR 750)	N/A	January 15	N/A	To be disapproved after SCCR 734 and 735 have been modified.			<i>N/A</i>
Instrument (SCCR 747)	January 8	January 22	January 29	Pre-processor (PGE 1.0P2) updates. (C++)			<i>AMI-P6</i>
Inversion (SCCR 722)	January 15	January 29	February 5	Incorporate Edition3 IESs into SSFs without having to rerun Clouds.		X	<i>magneto-P4</i>
TISA Gridding (SCCR 739)	January 29	February 12	February 19	SFC Terra and Aqua Beta2-Edition3. PGEs CER9.2P2, CER9.3P2, & CER9.4P2.	X	X	<i>AMI-P6</i>
Instrument (SCCR 754)	January 29	February 12	February 19	New C++ Gain Analyzer CER1.4P2 (Formerly CER1.3P2) and new C++ CER1.4P1 (Formerly CER1.3P1).		X	<i>AMI-P6</i>
ERBE-like (SCCR 735)	October 30	February 26	March 5	Delivering the Subsystem 3 PGEs.			<i>magneto-P4</i>

Table 3. CERES Subsystem Delivery Schedule – February 2010

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)
ERBE-like (SCCR 734)	February 12	February 26	March 5	Delivering the remaining Subsystem 2 PGEs with updates for crosstrack.			<i>magneto-P4</i>
Instrument (SCCR 755)	March 5	March 19	March 26	Updates to PGE 1.1P8 for NPP. (C++) Also, build to correct any NPP-related errors discovered in NCT3 testing.			<i>AMI-P6</i>
TISA Gridding		March		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	<i>magneto-P4</i> OR <i>AMI-P6</i>
TISA Averaging		March/April		SRBAVG-nonGEO Beta2-Edition3. New PGE for the subsetter code.		X	<i>AMI-P6</i>
TISA Gridding		April/May		Edition2 ISCCP-D2like-Flux.			<i>AMI-P6</i>
TISA Averaging		April/May		SRBAVG-GEO Beta2-Edition3. Adding Model C surface fluxes and solar insolation.			<i>AMI-P6</i>
TISA Gridding		May		Beta2-Edition3 ISCCP-D2like-Day/Nit. (PGE 9.0P1) (This delivery might not be needed.)			<i>AMI-P6</i>
ERBE-like (SCCR 740)		May		Delivery of all ERBE-like PGEs to <i>AMI</i> .			<i>AMI-P6</i>

Table 3. CERES Subsystem Delivery Schedule – February 2010

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		Mid May		New PGE to produce MATCH input files.		X	AMI-P6 & AMI-X86
GGEO		???		Beta1-Edition3 GGEO delivery.			magneto-P4
Clouds		June		Terra and Aqua Edition3.			AMI-P6
Inversion		July		Terra and Aqua Edition3.			AMI-P6
Instrument	November 12	November 26 (NCT3 + 2 months)	December 3	Build corrects all NPP errors found so far. Last Build before launch freeze date. Might not be needed			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 – February 2010

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	Certified Platform(s)
Instrument	N/A	February 19		Terra Edition3 gain files for January 2005 – January 2009.	<i>warlock/ AMI</i>
ERBE-like	N/A	March 5		Terra Edition3 spectral response function files for Launch – January 2009.	<i>warlock/ magneto/ AMI</i>
Instrument	N/A	April		Aqua Edition3 gain files for Launch – March 2005.	<i>warlock/ AMI</i>
ERBE-like	N/A	April (Two weeks after associated gains files)		Aqua Edition3 spectral response function files for Launch – March 2005.	<i>warlock/ magneto/ AMI</i>
Instrument/ ERBE-like	N/A	???		TRMM Edition3 gains and spectral response function files.	<i>warlock/ magneto/ AMI</i>

Table 5. SCCR Activity January 19 at 12:00 p.m. – February 2 at 2:30 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
653		X				11	11	
734		X				2	15	
735		X				3	17	
754	X					1	19	
755	X					1	20	

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

CERES Software Configuration Change Request Submittal

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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)

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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)

=====
Parameter Change: () YES (X) NO

Description of Change (Science):

Req# 11-28

New Coefficient file is created for MTSAT satellite data processing.

Reason for Change (Science):

Req# 11-28

The coefficient values are moved from the subroutine into created new coefficient file for flexibility.

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: 1 week

Planned Delivery Date: Friday 29, January 2010

List Affected Subsystems and PGE Names: CER11.1P10

Date & Time: 2010-01-25 10:37:03

Originator: RAJU, RAJA (SSAI)

CERES Software Configuration Change Request Submittal

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Subsystem: ERBElIke2.0

SCCR Date: 10/26/2009

SCCR Number: 734

Parameter Change: () YES (X) NO

Description of Change (Science):

NA

Reason for Change (Science):

NA

Description of Change (non-Science):

(Req 2-5) Convert ERBElIke code to work on *magneto*.

(Req 2-6) Move ERBElIke code into new directory structure.

(Req 2-11) Update code and scripts to handle FM5 inputs.

Reason for Change (non-Science):

All production code is being transferred from SGIs.

Case statements do not have FM5 as an option.

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: CER2.2P1, CER2.3P1 and CER2.3P2

Estimated Time to Complete Change: 2 weeks

Planned Delivery Date: 11/6/09

List Affected Subsystems and PGE Names: CER3.1P1

Date: 10/28/2009

Status: APPROVED

Originator: WALIKAINEN, DALE R. (SSAI)

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ADDITIONAL CHANGES TO SCCR NO. 734:

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Parameter Change: () YES (X) NO

Description of Change (Science):

NA

Reason for Change (Science):

NA

Description of Change (non-Science):

(Req 2-13) Create crosstrack only Edition3 ES4s and ES9s. These monthly data products may include data from both instruments. In March 2000 for example, FM1 is in crosstrack for 21 days and FM2 for 10 days. Normally, one instrument is dedicated crosstrack for the entire month. The code changes will be in CER2.2P1, CER2.3P.1 and CER2.3P2 which create inputs (EID6s and CXDRs) for subsystem 3.

Reason for Change (non-Science):

Monthly ERBElke data products (ES4 and ES9) will have only one version for each satellite. These will be our best data sets since crosstrack is the least optically degrading mode.

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: CER2.2P1, CER2.3P1, CER2.3P2, CER3.1P1 and CER3.2P1

Estimated Time to Complete Change: one month

Planned Delivery Date: 2/26/10

List Affected Subsystems and PGE Names: ERBElke monthly - CER3.1P1

Date & Time: 2010-01-27 15:55:27

Originator: WALIKAINEN, DALE R. (SSAI)

CERES Software Configuration Change Request Submittal

Subsystem: ERBElIke3.0

SCCR Date: 10/26/2009

SCCR Number: 735

Parameter Change: () YES (X) NO

Description of Change (Science):
NA

Reason for Change (Science):
NA

Description of Change (non-Science):
(Req 2-5) Convert ERBElIke code to work on *magneto*.
(Req 2-6) Move ERBElIke code into new directory structure.
(Req 2-11) Update code and scripts to handle FM5 inputs.

Reason for Change (non-Science):
All production code is being transferred from SGIs.

Case statements do not have FM5 as an option.

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: CER3.1P1 and CER3.2P1

Estimated Time to Complete Change: 3 weeks
Planned Delivery Date: 11/13/09
List Affected Subsystems and PGE Names: NA

Date: 10/28/2009 Status: APPROVED

Originator: WALIKAINEN, DALE R. (SSAI)

ADDITIONAL CHANGES TO SCCR NO. 735:

Parameter Change: () YES (X) NO

Description of Change (Science):
NA

Reason for Change (Science):
NA

Description of Change (non-Science):

(Req 2-13) Enable subsystem 3.0 to recognize and process the expected daily cross-track only Edition3 inputs from subsystem 2.0, thereby generating the corresponding ES4 and ES9 output products (one monthly Edition3 file per instrument platform).

The changes made involve redefining the environment variables used for the PGEs CER3.1P1 and CER3.2P1 to identify the instrument(s) in both input and output data sets, and make the corresponding changes in the processing scripts and codes affected by this redefinition to allow for Edition3 processing.

Reason for Change (non-Science):

Since cross-track is the least optically degrading scan mode, it will produce the best data. Combining those from both scanners on each platform, the next edition of the monthly ERBE-like data products (ES4 and ES9) will have only one file for each satellite (one Terra, one Aqua).

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: CER3.1P1 and CER3.2P1

Estimated Time to Complete Change: one month

Planned Delivery Date: 02/26/10

List Affected Subsystems and PGE Names: ERBE-like 3.0 - CER3.1P1 & CER3.2P1

Date & Time: 2010-01-28 14:06:41

Originator: LANDE, JEREMIE (SSAI)

CERES Software Configuration Change Request Submittal

Subsystem: Instrument

SCCR Date & TIME: 2010-01-22 13:29:23

SCCR No.: 754

Parameter Change: () YES (X) NO

Description of Change (Science):

Requirement 1-28 New C++ Gain Analyzer CER1.4P2 (Formerly CER1.3P2)

New C++ CER1.4P1 (Formerly CER1.3P1)

Reason for Change (Science):

Conversion of Ada code to C++

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: New CER1.4P1 and CER1.4P2

Estimated Time to Complete Change: Three Weeks

Planned Delivery Date: 2/15/2010

List Affected Subsystems and PGE Names: None

Originator: MAGILL, BRIAN E. (SSAI)

CERES Software Configuration Change Request Submittal

Subsystem: Instrument

SCCR Date & TIME: 2010-01-28 15:40:40

SCCR No.: 755

Parameter Change: () YES (X) NO

Description of Change (Science):

Reqt. #1-35:

Build2.1 -- fix algorithm errors in previous Build2 and add NPP-FM5 capabilities. These fixes will allow CER1.1P8 to replace existing PGEs CER1.1P3 and CER1.1P5, the Ada Terra and Aqua Edition1-CV processors.

Reason for Change (Science):

Reqt. #1-35:

Previous Build2 did not include all necessary code to process NPP-FM5, also errors in the radiance calculation algorithms were discovered.

Description of Change (non-Science):

Update PCF generation scripts if necessary.

Reason for Change (non-Science):

Updates to directory structure, etc. may mean that updates are needed to bring the current scripts up to standards.

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: CER1.1P8

Estimated Time to Complete Change: 2 months

Planned Delivery Date: March 26, 2010

List Affected Subsystems and PGE Names: CER1.1P8, once tested will replace CER1.1P3 and CER1.1P5

Originator: COOPER, DENISE L. (SSAI)

Table 6. February 3, 2010 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
Toolkit Issues	Zentz	<ul style="list-style-type: none"> • No new updates. (Zentz) 	
1.0	Cooper (Walikainen)	<ul style="list-style-type: none"> • Working to deliver CER1.0P2 updates to <i>AMI</i>. The last set of updates have been completed. Testing of the updates and any Test Plan and Ops Manual updates are all that remain. This should be delivered by Friday Feb. 5th. (Cooper & Spivak) • Edition3 gain updates thru February 1, 2009 are awaiting final OK from Kory Priestley. Several sets of validation are being worked to ensure that these latest updates are correct. (Cooper) • Work continues on updates to PGE CER1.1P8. Validation efforts for Terra/Aqua continue and updates to add NPP still remain. (Grepotis & Timcoe) 	
2.0	Walikainen (Cooper)	<ul style="list-style-type: none"> • Continuing to examine QC checker email generated during production. (Walikainen) • Continuing to inspect ERBE-like Aqua and Terra output plots. (Walikainen) • Meeting with Tak (2/5) to update our progress on erbelike Edition3 monthly data products. These are satellite specific and crosstrack data only. (Walikainen & Lande) • Generated candidate sets of Aqua Beginning-of-Mission Edition3 spectral responses. These are being analyzed. (Walikainen) • Trying to demonstrate our capability to handle FM6 LW channel. Can we generate spectral correction coefficients like we did for ERBE's purely LW channel? (Walikainen & Shanker) 	
3.0	Walikainen (Cooper)	<ul style="list-style-type: none"> • Combined with above. 	

Table 6. February 3, 2010 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Brown)	<ul style="list-style-type: none"> • Continued work on software to produce Edition 3 post-processed QC plots. Worked on automating this process. (R. Smith) • Moved directories and QC post-processed files to <i>AMI</i> for web presentation. (R. Smith) • Finished addition of histogram data to GEWEX netcdf structure. (R. Smith) • Corrected a small error in code to produce GEWEX netcdf files. Reprocessed all netcdf files. (R. Smith) • QC global images and statistics for Terra Edition2B-QC were produced for 200712 through 200802. (R. Brown) • Completed processing Aqua and Terra Edition2 QC results to produce orthogonal projection. (R. Brown) • Working on QC results for ValR14w4 results. (R. Brown). • Continued working on new design for CERES webpages and converted several sections of the website to the new format. (Heckert) (CERES page redesign) • Made several changes to the directory structure and added some new display features to the Terra/Aqua satellite imagery viewing tool. (Heckert) • Worked on FLASHFlux. (Sun-Mack) • Worked on Cloud Effective Height over estimation problem. (Sun-Mack) 	
4.2	Sun-Mack	<ul style="list-style-type: none"> • Combined with above. 	
4.3	Sun-Mack	<ul style="list-style-type: none"> • Combined with above. 	
4.4	Miller (Antropov)	<ul style="list-style-type: none"> • Worked on a program to fill the point spread function for the footprint with MODIS albedo data. (Antropov) (Edition3) • Monitored Terra Edition2B-QC and Aqua Beta2Ed3 production. (Miller) • Obtained timing numbers for Beta2Ed3 clouds PGEs. (Miller) 	

Table 6. February 3, 2010 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.5	Sothcott	<ul style="list-style-type: none"> • Attended weekly SOFA working group meetings. (Sothcott) • Continued incorporating LW, WN and SW TOA flux updates to the Ed3 B2 code and the IES-SSF code. (Sothcott) • Started work to help the FLASHFlux group update the Inversion/SOFA portion of their code with the changes necessary to run on <i>magneto</i> and <i>AMI</i>. (Sothcott) 	
4.6	Sothcott	<ul style="list-style-type: none"> • Combined with above. 	
5.0	Caldwell (Coleman)	<ul style="list-style-type: none"> • Working on Edition3 CRS. Caldwell) • Running more NEWS data for Walt. (Caldwell) 	
7.2	Caldwell (Coleman)	<ul style="list-style-type: none"> • No new updates. (Caldwell) 	
12.0	Caldwell (Coleman)	<ul style="list-style-type: none"> • Waiting for new GMAO G5 data to validate grid. (Caldwell) 	
7.1	Nguyen (Raju, Lock)	<ul style="list-style-type: none"> • No new updates. (Nguyen) 	
8.0	Nguyen (Raju, Lock)	<ul style="list-style-type: none"> • Added range checks for the output data. Fixed one problem with the output data and investigating other discrepancies. (Lock) • Cleaning up other subsystem code that is no longer needed. (Lock) 	

Table 6. February 3, 2010 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
10.0	Nguyen (Raju, Lock)	<ul style="list-style-type: none"> • Compared March 2000 SSF Daily data with SFC data for SRBAVGLite GEO validation purposes. Found that the SSF Daily data from Norman Loeb are in DMT time. The SW flux differences are due to the difference in SSF and SFC snow/ice. Waiting for Dave Doelling's decision to handle this situation. (Nguyen) • Updated code to change the data from DMT to local time. Plotted the differences of the regional, zonal and global flux averages of March 2000 SRBAVGLite GEO and Edition2D SRBAVG to investigate the causes of the differences. (Nguyen) • Running March 2000 through December 2007 SRBAVGLite with v02 and v03 SSF Daily inputs for cross track only. Wrote script to choose cross track months to process SRBAVGLite and also to plot the data. (Nguyen) 	
6.0	Raju (Nguyen)	<ul style="list-style-type: none"> • No new updates. (Raju) 	
9.0	Raju (Nguyen)	<ul style="list-style-type: none"> • Data Product Catalog section for SSF1deg-hour product was completed. Document was sent to Dave Doelling for verification. (Raju) • Processed production version of 01/04 Beta2-Ed3 SSF data through PGEs' 9.2P2, 9.3P3, 9.4P2 at the SCF and started data validation. (Raju & Parrish) • Made modifications to solution indices Ocean small, large parameter averaging code. Preparing to run 07/04 Beta2-Ed3 SSF data at SCF. (Ron Parrish & Raju) • Met with Moguo Sun and working on the ISCCP-D2like-Mrg code. (Raju) 	

Table 6. February 3, 2010 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
11.0	Raju (Nguyen)	<ul style="list-style-type: none"> • GGEO software was updated to access MTSAT-1 satellite coefficients from ancillary file. Code was tested and redelivered to CERES CM as part of SCCR 653. (Raju) • Started processing all satellites' data from 11/05 – 12/08 at the SCF for coefficients' verification. Web images are created for each processing month to identify the bad scans. (Raju) 	
CERES -lib	Zentz	<ul style="list-style-type: none"> • No new updates. (Zentz) 	

Table 7. February 3, 2010 – DM Tasks

Activity	Status
Code Optimization (Coleman)	<ul style="list-style-type: none">• Running acceptance tests on SS8 software ported to ODU X86. Second round of tests gave more right answers than first round after correcting an input file. Investigating differences between 2nd round on ODU's machine and <i>AMI</i> baseline. (Zentz & Chu)
Production Processing Database/ Automation (Coleman)	<ul style="list-style-type: none">• Arranging to meet to decide on goals. (Team)• Migrating PRs to spreadsheet format. (Coleman)
Ordering Tool (Kizer)	<ul style="list-style-type: none">• No report.

Table 8. February 3, 2010 – NPP Issues

Activity	Status
Telecons/ Meetings (Closs)	<ul style="list-style-type: none">• Participated in the NPP GSIT System Integration & Test meetings January 22 and 29. Refined ERB CARS test procedures, produced an ASDC system configuration description for the GSIT Test Plan, and provided sample test artifacts to the SDS test manager. (Closs)• Attended the NPP Science Data Segment telecon in January. The main topic has been preparations for the NPP Ground System Interface Test. Details above. (Closs)
System Engineering (Closs)	<ul style="list-style-type: none">• Updated the ERB CARS software build schedule to reflect SDS/ERB CARS requirements, builds and dates to support GSIT and launch readiness. (Closs)