

February 2, 2011 - System Issues and Status

**Table 1: Process Strategy/Coleman as of 02/02/11
Active Requests in order of priority as of 01/31/11**

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	
AM- PR 6-05, 7-05, and 1-10 to 4-10	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	The ERBE-like PRs AM 1-10 thru 4-10 replace standing requests AM- 2-05 thru 5-05.
PM-PRs 16-05, 18-05, 2-10, 4-10, 6-10, 8-10	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	The ERBE-like PRs PM 2-10, 4-10, 6-10, & 8-10 replace standing requests PM-PRs 17-05 & 15-05.
PM-PRs 11-05 to 14-05 1-10, 3-10, 5-10, 7-10	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	The ERBE-like PRs 1-10, 3-10, 5-10, & 7-10 replace standing requests PM-PRs 11-05 & 13-05

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M-PR-2-10 PR M 1-11 SCCR 753 830	CERES	DAO-G5-CERES	MOA	12.1P1	Standing request	** NEW Standing PR Number – Delta delivery due to GMAO filename change (from “200” series to “201” series)
PR M 1-10 SCCR 753	CERES	DAO-G5-CERES	PMOA	9.1P1	Standing request	
PRs 82-10, 74-10, 90-10 SCCRs 812, 791, 690	FM3	Edition3A	SSF	4.5-6.5P5 4.5-6.2P4 4.5-6.4P1	1/06 4/30/06 – 1/1/08	In progress Priority Level 1
PRs 108-10 thru 110-10 SCCR 789	Aqua XTrk	Edition3A	SFC	9.2P2 9.3P2 9.4P2	1/06, 5/06 – 12/07	In progress Priority Level 1
PR 98-10 SCCR 794	FM3	Edition3A	SAH	5.0P2	1/06, 7/06-12/07	Ready Priority Level 1
PRs 120-10 thru 122-10 SCCR 789	Terra XTrk	Edition3A	SFC	9.2P2 9.3P2 9.4P2	11/05 – 7/06	Ready Complete thru 2/06 Priority Level 1
PRs 10-11 thru 13-11 SCCR 690	FM1 FM2	Edition1-CV	SSFI	4.1-4.1P4 4.1-4.2P3 4.1-4.2P2 4.1-4.3P2	7/10 – 10/10	Ready Priority Level 2
PR 49-09	FM3, FM4, MODIS V005	Edition1C	SSFI	4.1-4.1P5 4.1-4.2P3 4.1-4.2P2 4.1-4.3P2	11/30/07 – 3/1/10 7/1/10	In progress NOTE: Priority will be lower for post-3/1/10 dates Priority Level 2

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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	11/30/07 - 3/1/10 7/1/10	In progress NOTE: Priority will be lower for post-3/1/10 dates Priority Level 2
PRs 9-10 thru 10-10 SCCR 650	FM1, FM2	Edition2E	SRBAVG	10.0P1, 10.0P2	3/2000 – 10/05	Ready. ValR2 Approved. Priority Level 2
PRs 7-10 thru 8-10 SCCR 650	FM3, FM4	Edition2B	SRBAVG	10.0P1, 10.0P2	7/2002 – 10/05	Ready. ValR2 approved Priority Level 2
PRs 5-10 thru 6-10 SCCR 650	FM1, FM2	Edition2E	SRBAVG	10.0P1, 10.0P2	11/05 – 2/10	Ready. ValR2 approved Priority Level 2
PRs 3-10 thru 4-10 SCCR 650	FM3, FM4	Edition2B	SRBAVG	10.0P1, 10.0P2	11/05 – 2/10	Ready. ValR2 approved Priority Level 2
PRs 84-10, 76-10, 92-10 SCCRs 812, 791, 690	FM3, FM4	Edition3A	SSF	4.5-6.5P5 4.5-6.2P4 4.5-6.4P1	7/2/02 – 3/30/05	Ready Priority Level 3
* PRs 111-10 thru 113-10 (partial – remainder) SCCR 789	Aqua XTrk	Edition3A	SFC	9.2P2 9.3P2 9.4P2	7/02 – 4/06 NOTE: Dates 7/02 thru 3/05 should only need to be processed at this point	Ready – 4/05 thru 4/06 should already be processed Priority Level 3
PR 100-10 SCCR 794	FM3, FM4	Edition3A	SAH	5.0P2	7/02 – 3/05	Ready Priority Level 3

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PR 46-09	FM3 V005 MYD08	Edition2D	CRS	5.0P1 5.1P1 5.4P1	12/1/07 - 6/30/10	Process 1 st month and wait for SS checkout Priority Level 3
PR 45-09 SCCR 685	FM3	Edition2D	FSW	6.1P1 6.2P1 6.3P1	12/1/07 - 6/30/10	Pending input Priority Level 3
PRs 53-10 thru 62-10 SCCRs 741, 690, and 685	FM1, FM2	Edition2G	SSF, SFC	Clouds, Inversion, TISA-Gridding SS9	3/2/10 - 7/1/10	In Progress Priority Level 3
PR 47-09 SCCR 685	FM3, FM4	Edition2D/ Ed2D-NoSW	SFC	9.2P1 9.3P1 9.4P1	11/30/07 - 3/1/10 7/1/10	In progress NOTE: Priority will be lower for post-3/1/10 dates Priority Level 3
PRs 66/67/68-10, SCCR 781	FM1	Edition2G	CRS	5.0P1 5.1P1 5.4P1	12/1/07 - 2/28/10 6/30/10	Pending further input for 3/10 NOTE: Priority will be lower for post-3/1/10 dates Priority Level 3
PRs 63/64/65-10 SCCR 685	FM1	Edition2G	FSW	6.1P1 6.2P1 6.3P1	12/1/07 - 2/28/10 6/30/10	Pending further input for 3/10 NOTE: Priority will be lower for post-3/1/10 dates Priority Level 3
PRs 136-09, 137-09 SCCR 746	FM1, FM2, FM3, FM4	Edition2A	ISCCP-D2like-Day/Nit	9.0P1	Launch thru 10/02	Ready. Priority Level 3

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
**** The PRs that follow cannot be processed until the PGEs have completed pre-operational testing and been promoted ****						
PRs 185-10 thru 187-10 SCCR 782	Terra	ValR15 (for Ed1-CV)	SSF	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	12/07	Pending promotion
PRs 7-11 thru 9-11 SCCR 782 (828 scripts)	FM1, FM2	Edition1-CV	SSF	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	6/30/10 thru 1/1/11	Pending promotion of 782 and ValR15 approval, and promotion of scripts from 828
PRs 194-10 thru 201-10, and 20-10 thru 35-10	FM1, FM2, FM3, FM4	ValR17, ValR17-Ed2, ValR17-Ed3	BDS	1.1P5 1.2P1 1.3Px	Selected dates	Pending Promotion
PRs 01-11 thru 05-11 SCCR 755	FM1, FM2, FM3, FM4	ValR22	BDS	1.1P8 1.2P1	3/31/00 (Terra) 9/30/02 (Aqua) 11/30/04 (Both) 4/30/09 (Both)	Pending Promotion
PRs 14-11 thru 15-11	FM1, FM2, FM3, FM4	ValR23		1.4P2	3/31/00 (Terra) 9/30/02 (Aqua) 11/30/04 (Both) 4/30/09 (Both)	Pending promotion
PR 16-11	FM5	PreLaunch		1.0P2	9/6/02 (tentatively)	Pending input data
PRs 164-10 thru 169-10	Merged	Edition3A	TSI	10.0P3, 7.3.1P1	7/02 - 2/10	Pending Redelivery
PRs 173-10-175-10, 183-10 (Excel Only) SCCR 804 797	Merged	Edition3A	SYNI	7.2.1P1	7/02 – 12/07	Ready. Pending input from code that is pending redelivery

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PRs 188-10 thru 191-10	Merged	Edition3A	SYN1deg-3Hour/ M3Hour/ Month	8.1P1	7/02 – 12/07	Pending Promotion
PRs 04-11, 03-11	Terra XTrk	Edition3A	TSIB	10.0P3 7.3.1P1	03/2000 – 06/2002	Pending Redelivery
PR 02-11	Terra XTrk	Edition3A	SYNI	7.2.1P1	03/2000 – 06/2002	Ready. Pending input from code that is pending redelivery
PRs 176-10 thru 182-10 (Excel Only) SCCRs 811, 791, 690, 789, 794	Terra	Edition3A	SSF, SFC, SAH	4.5-6.5P4 4.5-6.2P2 4.5-6.4P1 5.0P2 9.2P2, 9.3P2 9.4P2	3/00 – 10/05	Pending promotion of SCCR 811, which is pending completion of PR 86-10 (which completed 12/30/10)
PRs 16-10 SCCR 749	CERES	ValR4x86-Ed3	MOA	12.1P2	7/04	Pending promotion
PR 15-10 SCCR 749	CERES	ValR4p6-Ed3	MOA	12.1P2	7/04	Pending promotion
PR 37-10 SCCR 749	CERES	ValR4x86-Ed2	MOA	12.1P1	7/04	Pending promotion
PR 36-10 SCCR 749	CERES	ValR4p6-Ed2	MOA	12.1P1	7/04	Pending promotion
PR 6-11 SCCR 749	CERES		MOA	12.1P2	2/28/2000 – 3/1/2010	Pending Promotion and ValR4xxxx testing
**** PRs to be written ****						
	FM2, FM4	Edition3A	SSF, SAH	4.5-6.5P4 4.5-6.5P5 4.5-6.2P2 4.5-6.4P1 5.0P2	FM2: 3/06 - 3/1/10 FM4: 4/05 - 3/1/10	

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	FM3 FM4	Edition1-CV Ed1-CV- NoSW	SSF	Clouds, Inversion	6/30/10 – 1/1/11	
	FM1 FM2	Edition3A	SSF	Clouds, Inversion	6/30/10 – 1/1/11	Using Edition1-CV based inputs
	FM3 FM4	Edition3A	SSF	Clouds, Inversion	6/30/10 – 1/1/11	Using Edition1-CV based inputs

Table 2. February 2, 2011 - System Issues and Status

Activity	Lead	Status
SEC	Miller	<ul style="list-style-type: none"> • No activity. (Miller)
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) • Installed the Inversion delta deliveries (SCCR 828 & 829) on <i>magneto-P4</i>, and released them to the ASDC on January 26. (Saunders) • Installed the updated files for Instrument PGEs 1.2P1 and 1.3P1 (SCCR 716) on <i>AMI-P</i>. Recompiled and retested the PGEs, and provided these updates to the ASDC on January 27. (Ayers) • Installed the Regrid MOA delta delivery (SCCR 830) on <i>magneto-P4</i>, and released it to the ASDC on January 28. (Ayers) • Provided the SSF Edition3A sample read package to the ASDC on January 28. (Ayers) • Installed the updated files for Regrid MOA PGEs 12.1P1 and 12.1P2 (SCCR 749) on <i>AMI-P</i>. Recompiled and retested the PGEs, and provided these updates to the ASDC on January 29. (Ayers) • Updated, posted on the Web, and provided to the ASDC the TISA Averaging (SCCR 795) and Regrid MOA (SCCR 749) Test Plans. (Saunders)
AMI Job Submission Scripts – Phase 1	Ayers (Grepitotis)	<ul style="list-style-type: none"> • The scripts for Clouds PGEs 4.1-4.1P6, 4.1-4.2P5, 4.1-4.2P4, and 4.1-4.3P3 are being tested by the subsystem. (Hillyer) • Development continues on the scripts for ERBE-like PGEs 2.1P1, 2.2P1, 2.4P1, 3.1P1 and 3.2P1, TISA Gridding PGE 9.0P0, Inversion PGEs CER4.5-6.1P4, CER4.5-6.1P5, CER4.5-6.2P3 and CER4.5-6.4P2. (Grepitotis, Hillyer)

Table 3. CERES Subsystem Delivery Schedule – February 2011
(CERES Science Team Meeting: April 26 – 28, 2011, in Newport News, VA)
(NPP Launch Date: October 18, 2011)

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)	Certified Platform(s)
TISA Gridding (SCCR 763)	October 15	October 29 In CM Queue	November 5	Beta1–Edition2 delivery of 2 new PGEs (CER9.0P2 & CER9.0P3) for new ISCCP-D2like-Mrg product. [All ISCCP-D2like HDF products will have the same format.]		X	<i>AMI-P6</i>
GGEO		December		Beta1-Edition4 GGEO delivery.			AMI-P6
CERESlib	January 21	February 4	February 11	Clouds updates.			<i>AMI-P6, AMI-x86, & magneto-P4</i>
Clouds (SCCR 809)	January 21	February 4	February 11	Terra and Aqua Beta1-Edition4 . PGEs CER4.1-4.1P6, CER4.1-4.2P5, CER4.1-4.2P4, and CER4.1-4.3P3.			<i>AMI-P6</i>
ERBE-like (SCCR 740)	January 21	February 4	February 11	Delivery of all ERBE-like PGEs to <i>AMI</i> . (Edition2/Edition3)			<i>AMI-P6</i>
TISA Gridding (SCCR 765)	January 28	February 11	February 18	Beta1-Edition2 ISCCP-D2like-FlxDay/Nit (PGE CER9.0P0).		X	<i>AMI-P6</i>
Inversion (SCCR 814)	February 21	March 4	March 11	Terra and Aqua Beta1-Edition4 . PGEs CER4.5-6.1P4, CER4.5-6.1P5, CER4.5-6.2P3 and CER4.5-6.4P2.			<i>AMI-P6</i>
Instrument		March 2011		Build corrects all NPP errors found so far. Last Build before launch freeze date. Might not be needed. Includes pre-processor.			AMI-P6

Table 3. CERES Subsystem Delivery Schedule – February 2011
(CERES Science Team Meeting: April 26 – 28, 2011, in Newport News, VA)
(NPP Launch Date: October 18, 2011)

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		Spring 2011		Beta1-Edition4 CRS.			AMI-P6 & AMI-x86
Instrument (SCCR 641)		???		Delivery of simulated IES PGE to support TRMM VIRS-only processing. New PGE: CER1.0P1.		X	<i>magneto-P4</i>

SCF Processing

Subsystem	Reason for Delivery	SCF Platform
TISA Averaging (SCCR 766)	SRBAVG-nonGEO Beta2-Edition3 . New PGE CER10.1P1 for the subsetter code.	<i>AMI-P6</i>

Table 4. CERES Coefficients Delivery Schedule – February 2011

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	Certified Platform(s)
There are no deliveries scheduled at this time.					

Table 5. SCCR Activity January 19 at 11:00 a.m. – January 31 at 9:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
809		X				Clouds	13	
811				X		Inversion		
821				X		Regrid MOA		
822				X		Synoptic SARB		
824			X	X		Inversion		
825			X			Clouds		CERESlib modifications
826	X		X	X		Toolkit	31	
827	X					CERESlib	32	
828	X	X	X			Inversion	33	
829	X		X			Inversion	35	
830	X		X			Regrid MOA	36	
831	X					Clouds	37	

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

CERES Software Configuration Change Request Submittal

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Subsystem: Clouds

SCCR Date: 10/01/2010

SCCR Number: 809

Parameter Change: () YES (X) NO

Description of Change (Science):

Edition4 delivery. Will finalize all the changes in the SCCR updates.

Reason for Change (Science):

Edition4 delivery. Will finalize all the changes in the SCCR updates.

Description of Change (non-Science):

Edition4 delivery. Will finalize all the changes in the SCCR updates.

Reason for Change (non-Science):

Edition4 delivery. Will finalize all the changes in the SCCR updates.

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: CER4.1-4.1P6, CER4.1-4.2P5, CER4.1-4.2P4, CER4.1-4.3P3

Estimated Time to Complete Change: two weeks

Planned Delivery Date: Oct 15, 2010

List Affected Subsystems and PGE Names: N/A

Date: 10/13/2010 Status: Approved

Originator: SUN-MACK, SUNNY (SSAI)

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ADDITIONAL CHANGES TO SCCR NO. 809:

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Parameter Change: (X) YES () NO

Description of Change (Science):

None

Reason for Change (Science):

None

Description of Change (non-Science):

- 1.) The `ssf_typdef` was updated to reflect that ice radius will be supplied instead of ice diameter for all wavelength references. (4-11.1)
- 2.) Also, clouds will be using 1.24 micron radiances instead of 1.60 for optical depth and particle size. (4-11.2)
- 3.) The `ssf_typdef_Ed4`, `ssfa_typdef_Ed4`, `ssfqc_typdef_Ed4`, and `imager_cal_data_Ed4` were all updated to reference Ed4 instead of Ed3. (4-11)
- 4.) Convolution was updated to process FM5 and VIIRS data obtained from NPP. (4-11.3)

Reason for Change (non-Science):

- 1.) Clouds has implemented an algorithm change that produces ice radius that makes our results more comparable to the community.
- 2.) Since 1.60 radiances are noisy on Aqua, 1.24 will allow similar information to be provided for both Terra and Aqua.
- 3.) The existing modules were created when the output was going to be referred to as Edition3. A change in production planning has resulted in these output being referred to as Edition4. To prevent confusion between the Edition3 products that will not use these modules and Edition4 that will, references to Ed3 were changed to Ed4.
- 4.) NPP will soon launch and the correct logic was needed for its processing.

Parameter(s) and Product(s) Being Changed (Use Name(s) from Data Products Catalog) and Description of Parameter Change:

- SSF-105 Mean ice particle effective radius for cloud layer (3.7)
- SSF-106 Stddev of ice particle effective radius for cloud layer (3.7)
- SSF-108 Mean water particle radius for cloud layer (1.2)
- SSF-109 Mean ice particle radius for cloud layer (1.2)
- SSF-110 Mean logarithm of visible optical depth for cloud layer (1.2)
- SSF-110b Mean ice particle effective radius for cloud layer (2.1)
- SSF-114j Mean ice particle effective radius for Multilayer (3.7)
- SSF-114l Mean ice particle effective radius for Multilayer (2.1)

Reason for Parameter Change:

- SSF-105, SSF-106, SSF-109, SSF-110b, SSF-114j, and SSF-114l were changed from diameter to radius.
- SSF-108, SSF-109, and SSF-110 (1.6) was changes to (1.2) Both of these changes were to match SSF parameter names to algorithm changes made in clouds.

Affected PGEs in this Subsystem: CER4.1-4.1P6

Estimated Time to Complete Change: 1 week

Planned Delivery Date: February 4, 2011

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

Date & Time: 2011-01-21 13:39:30

Originator: MILLER, WALTER F. (SSAI)

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Parameter Change: YES NO

Description of Change (Science):

(1) Clouds subsystem has developed and implemented a snow-free directional model for 1.24 μm for each surface type. Req. (Req. 4-12.8)

(2) Same as above, but for snow-covered. (Req. 4-12.8)

(3) Clouds subsystem has implemented snow-free Kriebel BDRF for 1.24 μm for each surface type. (Req. 4-12.8)

(4) Clouds subsystem has developed and implemented a hybrid snow-covered BDRF for 1.24 μm for each surface type. (Req. 4-12.8)

(5) Implemented Zhonghai Jin's clear sky (snow-free) ocean reflectance model for 1.24 μm . (Req. 4-12.8)

(6) Implemented Zhonghai Jin's clear sky (snow-free) ocean reflectance model for 1.6 μm . (Req. 4-12.8)

(7) Implemented Zhonghai Jin's clear sky (snow-free) ocean reflectance model for 2.13 μm . (Req. 4-12.8)

(8) Developed and implemented the scheme to store and update snow-free clear sky overhead-sun albedo for 1.24 μm for both Terra and Aqua. (Req. 4-12.9)

(9) Same as above, but for snow-covered. (Req. 4-12.9)

(10) Developed and implemented the scheme to store and update snow-free clear sky overhead-sun albedo for 0.6 μm for both Terra and Aqua. (Req. 4-12.9)

(11) Developed and implemented the scheme to store and update snow-free clear sky overhead-sun albedo for 1.6 μm for Terra. (Req. 4-12.9)

(12) Developed and implemented the scheme to store and update snow-free clear sky overhead-sun albedo for 2.13 μm for both Terra and Aqua. (Req. 4-12.9)

(13) Clouds subsystem used to store and update clear sky reflectance for 1.6 μm for Terra with both snow-free and snow-covered pixels. The Clouds software was modified to remove the portion of snow-covered pixels and keep only snow-free updating for 1.6 μm for Terra. (Req. 4-12.9)

(14) Same as above, but for 2.13 μm and for both Terra and Aqua. (Req. 4-12.9)

(15) Created 12 months snow-free clear sky overhead-sun albedo startup maps for 1.24 μm for both Terra and Aqua respectively. (Req. 4-12.9)

(16) Same as above, but for snow-covered. (Req. 4-12.9)

(17) Created 12 months snow-free clear sky overhead-sun albedo startup maps for 0.6 μm for both Terra and Aqua respectively. (Req. 4-12.9)

(18) Same as above, but for combination of both snow-free and snow-covered. (Req. 4-12.9)

(19) Created 12 months snow free clear sky overhead-sun albedo startup maps for 2.13 μm for both Terra and Aqua respectively. (Req. 4-12.9)

(20) Created 12 months snow free clear sky overhead-sun albedo startup maps for 1.6 μm for Terra only. (Req. 4-12.9)

(21) Monthly 3.7 μm nighttime calibration files were created for Terra. These files cover from Feb 2000 to Dec. 2010. Note, any operational processing beyond Dec. 2010 will need to have additional calibrations, for months later than Dec. 2010, delivered before starting the processing. The Clouds code has been modified to access the calibrations files and calculate the final 3.7 μm calibrations. (Req. 4-12.4)

(22) Calibration for visible channel 0.6 μm for Terra was also changed. (Req. 4-12.5)

(23) MODIS correlated k-distributions for 1.24 μm (improved Model) developed by Dave Kratz (<http://asd-www.larc.nasa.gov/~kratz/modis.html>) was implemented in the Clouds code. (Req. 4-12.10)

(24) Precipitable water derived from Clouds subsystem was supposed to be passed on to SSF in the last version (Edition 3 Beta 2), but it was discovered later that it didn't. Found and fixed the error. (Req. 4-12.6)

(25) A supervised classifier (denoted as UAH) based upon a back-propagation neural network was turned off. (Req. 4-12.7)

(26) A daily file for SCOOOL project containing cloud property information will not be produced. (Req. 4-12.7)

Reason for Change (Science):

(1) - (4) To provide clear sky reflectance for snow-free and snow-covered at 1.24 μm band.

(5) - (7) To provide snow-free clear ocean reflectance models for bands 1.24, 1.6 and 2.1 μm .

(8) - (14) To obtain the best CRH (Clear Reflectance History) for both snow-free and snow-covered, for channels 0.6 μm , 1.24 μm , 1.6 μm and 2.1 μm , and for both Terra and Aqua.

(15) - (20) This is the first time we will be doing clear sky updating for snow-free and snow-covered separately. Therefore the clear sky startup maps did not exist for all channels and needed to be created.

(21) It was discovered that Terra MODIS calibration for 3.7 mm changes with time. Therefore a monthly calibration file is needed.

(22) There is a small calibration for 0.6 μm for Terra when comparing with Aqua.

(23) MODIS correlated k-distributions for 1.24 μm is needed for 1.24 μm cloud retrieval

(24) SARB subsystem requested this parameter to be included in SSF.

(25) UAH classifier did not work property on AMI. Because UAH is no longer part of CERES science team and therefore we have lost their support. The proper thing to do at this point is to turn off UAH classifier so that CERES clouds retrieval would not depend on the results from UAH classifier.

(26) SCOOOL has been accessing SSF and no longer in need of Clouds SCOOOL daily file.

Description of Change (non-Science):

(1) Certain cloud properties in Clouds QCs are stored in 4 pressure levels. The definition of the 4 pressure levels were changed some. (Req. 4-12.12)

(2) Number of histogram bins in Clouds QC for water cloud radius and cloud optical depth were reduced. (Req. 4-12.12)

(3) Change all Makefile and makeall files to include \$CPUTYPE. (Req. 4-12.11)

(4) Change all Makefile and makeall files to rename the executable names. (Req. 4-12.11)

(5) Created, implemented and tested a 2-days SGE script to combine two PGEs (main PGE: CER4.1-4.1P6 and Clear-Sky-Update PGE: CER4.1-4.2P5) during operational processing. (Req. 4-12.11)

(6) Created, implemented and tested a monthly 2 SGE script to continue processing above 2-days operation until the month is completed. (Req. 4-12.11)

Reason for Change (non-Science):

(1) This provides cloud layer consistency between CERES Clouds QCs and the community like GEWEX Cloud and ISCCP

(2) To remove certain unused bins to reduce file sizes.

(3) - (4) To compile with CERES DMT rules and policies.

(5) - (6) To simplify Clouds subsystem processing procedures, and therefore, hopefully, speed up Clouds operational processing.

Parameter(s) and Product(s) Being Changed (Use Name(s) from Data Products Catalog) and Description of Parameter Change:

SSF-66	Clear area percent coverage at subpixel resolution
SSF-67	Cloud-mask clear-strong percent coverage
SSF-68	Cloud-mask clear-weak percent coverage
SSF-69	Cloud-mask snow/ice percent coverage
SSF-70	Cloud-mask aerosol B percent coverage
SSF-72	Cloud-mask percent coverage supplement
SSF-79	CWG surface skin temperature
SSF-79a	CWG precipitable water
SSF-80	Vertical temperature change
SSF-81	Clear/layer/overlap percent coverages
SSF-82	Note for cloud layer
SSF-83	Mean visible optical depth for cloud layer
SSF-84	Stddev of visible optical depth for cloud layer
SSF-85	Mean logarithm of visible optical depth for cloud layer
SSF-86	Stddev of logarithm of visible optical depth for cloud layer
SSF-87	Mean cloud infrared emissivity for cloud layer
SSF-88	Stddev of cloud infrared emissivity for cloud layer
SSF-89	Mean liquid water path for cloud layer (3.7)
SSF-90	Stddev of liquid water path for cloud layer (3.7)
SSF-91	Mean ice water path for cloud layer (3.7)
SSF-92	Stddev of ice water path for cloud layer (3.7)
SSF-93	Mean cloud top pressure for cloud layer
SSF-94	Stddev of cloud top pressure for cloud layer
SSF-94a	Mean cloud top temperature for cloud layer
SSF-94b	Mean cloud top height for cloud layer
SSF-95	Mean cloud effective pressure for cloud layer
SSF-96	Stddev of cloud effective pressure for cloud layer
SSF-97	Mean cloud effective temperature for cloud layer
SSF-98	Stddev of cloud effective temperature for cloud layer
SSF-99	Mean cloud effective height for cloud layer
SSF-100	Stddev of cloud effective height for cloud layer
SSF-101	Mean cloud base pressure for cloud layer
SSF-102	Stddev of cloud base pressure for cloud layer
SSF-102a	Mean cloud base temperature for cloud layer
SSF-103	Mean water particle radius for cloud layer (3.7)
SSF-104	Stddev of water particle radius for cloud layer (3.7)
SSF-105	Mean ice particle effective radius for cloud layer (3.7)
SSF-106	Stddev of ice particle effective radius for cloud layer (3.7)

SSF-106a	Mean asymmetry factor for cloud layer
SSF-107	Mean cloud particle phase for cloud layer (3.7)
SSF-108	Mean water particle radius for cloud layer (1.2)
SSF-109	Mean ice particle effective radius for cloud layer (1.2)
SSF-110	Mean logarithm of visible optical depth for cloud layer (1.2)
SSF-110a	Mean water particle radius for cloud layer (2.1)
SSF-110b	Mean ice particle effective radius for cloud layer (2.1)
SSF-110c	Mean logarithm of visible optical depth for cloud layer (2.1)
SSF-111	CO2 slicing percent coverages for cloud layer
SSF-111a	Mean infrared emissivity for cloud layer - CO2 slicing
SSF-111b	Mean effective pressure for cloud layer - CO2 slicing
SSF-111c	Mean effective temperature for cloud layer - CO2 slicing
SSF-112	Mean effective height for cloud layer - CO2 slicing
SSF-113	Percentiles of visible optical depth for cloud layer
SSF-114a	Single layer/multilayer percent coverages
SSF-114b	Mean visible optical depth for multilayer
SSF-114c	Mean logarithm of visible optical depth for multilayer
SSF-114d	Mean cloud infrared emissivity for multilayer
SSF-114e	Mean cloud top pressure for multilayer
SSF-114f	Mean cloud top temperature for multilayer
SSF-114g	Mean cloud top height for multilayer
SSF-114h	Mean cloud particle phase for multilayer (3.7)
SSF-114i	Mean water particle radius for multilayer (3.7)
SSF-114j	Mean ice particle effective radius for Multilayer (3.7)
SSF-114k	Mean water particle radius for Multilayer (2.1)
SSF-114l	Mean ice particle effective radius for multilayer (2.1)

Reason for Parameter Change:

The changes made in “Science Changes” above will affect all SSF parameters listed above.

Affected PGEs in this Subsystem: CER4.1-4.1P6 CER4.1-4.2P5 CER4.1-4.2P4 CER4.1-4.3P3

Estimated Time to Complete Change: Completed

Planned Delivery Date : January 28, 2011

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

Date & Time: 2011-01-24 12:07:21

Originator: SUN-MACK, SUNNY (SSAI)

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Parameter Change: (X) YES () NO

Description of Change (Science):

- 1) New algorithms that calculate particle sizes for 2.1 μm and 1.24 μm over daytime non-polar regions were developed and implemented. (Req.4-12.13)
- (2) Calculated and implemented the cloud absorption for both water and ice for 1.24 μm . (Req.4-12.13 - 4-12.14)
- (3) For ice clouds, a change was made to change particle size from diameter to radius for all three wavelengths: 3.7 μm , 2.1 μm and 1.24 μm . (Req.4-12.13)
- (4) All ice models used in Clouds Edition4 are rough models, with roughness = 1, developed by Ping Yang for 0.6, 3.7, 2.1, 1.24 μm . (Req.4-12.15)
- (5) New algorithm that calculates optical depth for 1.24 μm over daytime polar region was developed and implemented. (Req.4-12.14)
- (6) Developed an IR algorithm, which is mostly applied to no VISST retrieval or to thin cirrus but without having ice solutions. (Req.4-12.16)
- (7) Daytime cloud phase algorithm was significantly enhanced to prevent calling supercool clouds ice and thin cirrus water. (Req.4-12.17)
- (8) Started from very cold clouds, cloud phase seemed to always remain as ice even when cloud temperatures were changed and warm enough to be water clouds. This was a bug and the cause of blockiness of all cloud properties. This bug was found and fixed. (Req.4-12.18)
- (9) It used to be that when there is more than 10% of pixels in a tile that are classified as clear, the predicted clear sky reflectance would be replaced with observations. This logic was removed in Clouds Edition4 version and therefore the predicted clear sky reflectance will be always from the clear sky maps. (Req.4-12.13 – 4-12.14)
- (10) Over snow or ice surfaces, when there is no cloud retrievals due to the fact that predicted clear sky reflectance for 1.24 μm is brighter than the observations, the clear sky reflectance is then redefined as the darkest observed reflectance minus one sigma. (Req.4-12.14)
- (11) It used to be that during twilight, it did LBTM and multispectral daytime analysis. This was changed to use SIST, nighttime retrieval. (Req.4-12.19)
- (12) Night time cloud phase algorithm was significantly modified to reduce cloud phase misidentifications. (Req.4-12.17)
- (13) From collocated C3M (CERES-CALIPSO-CloudSat-MODIS) products, Clouds had created monthly lapse rate maps for snow-free and snow-covered surfaces respectively with day and night separately. The snow-covered lapse rates were further averaged into one degree latitude zone separated by ocean and land. The snow-free monthly lapse rate maps and snow-covered lapse rate zonal means were implemented to Clouds software for boundary layer clouds. (Req.4-12.20)

(14) The pressure ranges that a lapse rate can be applied was re-defined as a function of latitude and land/water percent. (Req.4-12.20)

(15) For ice clouds, when VISST cloud pressures were significant different compared with CO2 cloud pressures, we used to assign VISST cloud temperature to be CO2 cloud temperature and backed out the rest of cloud properties. Due to the fact that VISST cloud temperatures were cloud effective temperature and CO2 cloud temperatures were cloud top temperatures, this assignment resulted VISST putting clouds higher than CO2 clouds. A polynomial regression was developed and is currently used in VISST cloud retrieval to convert CO2 cloud top height to effective height, before being used by VISST as an effective cloud height. (Req.4-12.21)

(16) Sometimes, deep convective clouds could be higher than tropopause. A new algorithm called Over-Shooting Algorithm was developed and implemented to mask the pixels that are higher than tropopause. (Req.4-12.22)

(17) For those pixels higher than tropopause, VISST cloud retrieval was modified to produce the actual cloud height (and the rest of cloud properties) instead of ceiling height - tropopause. (Req.4-12.22)

(18) A new cloud thickness algorithm was developed by using collocated C3M (CERES-CALIPSO-CloudSat-MODIS) products. This newly created algorithm was implemented and is currently used for ice clouds. (Req.4-12.23)

(19) After the cloud retrieval and based on the results from the cloud retrieval, cloud mask is re-checked for false clouds. For those clouds, likely to be aerosols, several false clouds detections were implemented to further refine cloud mask. (Req.4-12.24)

Reason for Change (Science):

(1) - (3) To obtain better particle size profiles.

(4) To have more accurate size results.

(5) Due to optical thickness saturation at 16, sometimes at 8, for 2.1 μm .

(6) To reduce no-retrieval

(7) To improve cloud phase retrieval

(8) Bug fix.

(9) -(10)To improve 1.24 μm retrieval.

(11) Bug fix.

(12) To improve night time cloud phase retrieval.

(13) - (14) To include the latest lapse rate we have developed.

(15) To refine cloud height accuracy.

(16) -(17) An addition and the application of a new algorithm to more accurately place the deep convective clouds.

(18) To include the latest cloud thickness that we have developed.

(19) To improve CERES cloud mask.

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:

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SSF-68	Cloud-mask clear-weak percent coverage
SSF-69	Cloud-mask snow/ice percent coverage
SSF-70	Cloud-mask aerosol B percent coverage
SSF-72	Cloud-mask percent coverage supplement
SSF-79	CWG surface skin temperature
SSF-79a	CWG precipitable water
SSF-80	Vertical temperature change
SSF-81	Clear/layer/overlap percent coverages
SSF-82	Note for cloud layer
SSF-83	Mean visible optical depth for cloud layer
SSF-84	Stddev of visible optical depth for cloud layer
SSF-85	Mean logarithm of visible optical depth for cloud layer
SSF-86	Stddev of logarithm of visible optical depth for cloud layer
SSF-87	Mean cloud infrared emissivity for cloud layer
SSF-88	Stddev of cloud infrared emissivity for cloud layer
SSF-89	Mean liquid water path for cloud layer (3.7)
SSF-90	Stddev of liquid water path for cloud layer (3.7)
SSF-91	Mean ice water path for cloud layer (3.7)
SSF-92	Stddev of ice water path for cloud layer (3.7)
SSF-93	Mean cloud top pressure for cloud layer
SSF-94	Stddev of cloud top pressure for cloud layer
SSF-94a	Mean cloud top temperature for cloud layer
SSF-94b	Mean cloud top height for cloud layer
SSF-95	Mean cloud effective pressure for cloud layer
SSF-96	Stddev of cloud effective pressure for cloud layer
SSF-97	Mean cloud effective temperature for cloud layer
SSF-98	Stddev of cloud effective temperature for cloud layer
SSF-99	Mean cloud effective height for cloud layer
SSF-100	Stddev of cloud effective height for cloud layer
SSF-101	Mean cloud base pressure for cloud layer

SSF-102	Stddev of cloud base pressure for cloud layer
SSF-102a	Mean cloud base temperature for cloud layer
SSF-103	Mean water particle radius for cloud layer (3.7)
SSF-104	Stddev of water particle radius for cloud layer (3.7)
SSF-105	Mean ice particle effective radius for cloud layer (3.7)
SSF-106	Stddev of ice particle effective radius for cloud layer (3.7)
SSF-106a	Mean asymmetry factor for cloud layer
SSF-107	Mean cloud particle phase for cloud layer (3.7)
SSF-108	Mean water particle radius for cloud layer (1.2)
SSF-109	Mean ice particle effective radius for cloud layer (1.2)
SSF-110	Mean logarithm of visible optical depth for cloud layer (1.2)
SSF-110a	Mean water particle radius for cloud layer (2.1)
SSF-110b	Mean ice particle effective radius for cloud layer (2.1)
SSF-110c	Mean logarithm of visible optical depth for cloud layer (2.1)
SSF-111	CO2 slicing percent coverages for cloud layer
SSF-111a	Mean infrared emissivity for cloud layer - CO2 slicing
SSF-111b	Mean effective pressure for cloud layer - CO2 slicing
SSF-111c	Mean effective temperature for cloud layer - CO2 slicing
SSF-112	Mean effective height for cloud layer - CO2 slicing
SSF-113	Percentiles of visible optical depth for cloud layer
SSF-114a	Single layer/multilayer percent coverages
SSF-114b	Mean visible optical depth for multilayer
SSF-114c	Mean logarithm of visible optical depth for multilayer
SSF-114d	Mean cloud infrared emissivity for multilayer
SSF-114e	Mean cloud top pressure for multilayer
SSF-114f	Mean cloud top temperature for multilayer
SSF-114g	Mean cloud top height for multilayer
SSF-114h	Mean cloud particle phase for multilayer (3.7)
SSF-114i	Mean water particle radius for multilayer (3.7)
SSF-114j	Mean ice particle effective radius for Multilayer (3.7)
SSF-114k	Mean water particle radius for Multilayer (2.1)
SSF-114l	Mean ice particle effective radius for multilayer (2.1)

Reason for Parameter Change:

The changes made in “Science Changes” above will affect all SSF parameters listed above.

Affected PGEs in this Subsystem: CER4.1-4.1P6 CER4.1-4.2P5 CER4.1-4.2P4 CER4.1-4.3P3

Estimated Time to Complete Change: Completed

Planned Delivery Date: January 28, 2011

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

Date & Time: 2011-01-24 12:12:28

Originator: SUN-MACK, SUNNY (SSAI)

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Parameter Change: (X) YES () NO

Description of Change (Science):

(1) Daytime non-polar (Req. 4-12.24)

Improved clear sun-glint detection after all B clouds.

Improved clouds in sun-glint detection after all B clear.

Improved clouds, aerosol, and glint detection in 6 C tests.

Better distinguish of dust and low clouds (added ratio of ref 1.24/0.65)

Improved thin Ci detection over ocean and land.

Improved coastal clouds detections

(2) Nighttime non-polar (Req. 4-12.24)

Improved thin Ci and low clouds detection

Increased clouds detection over ocean

Increased desert cloud detection. Reduced 3.75-11 CS STD from 2 to 1.5K.

(3) Daytime Polar (Req. 4-12.24)

Improved ice clouds, snow surface, clear land, thin Ci detections, (added ref1.38).

Added clear-snow overwrite clear-good and clear-weak using snow, ice, IGBP maps and spectral tests.

(4) Nighttime Polar (Req. 4-12.24)

Improved normal clouds and inversion clouds detection

Changed the cloud tests over super cold plateau (Antarctica and Greenland).

Improved the classification of TBD pixels.

Added clear-sky-restore tests developed by MODIS team

(5) Twilight Polar: Improved twilight polar tests. (Req. 4-12.24)

Reason for Change (Science):

(1) - (5) To improve cloud mask

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:

SSF-66	Clear area percent coverage at subpixel resolution
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SSF-93	Mean cloud top pressure for cloud layer
SSF-94	Stddev of cloud top pressure for cloud layer
SSF-94a	Mean cloud top temperature for cloud layer
SSF-94b	Mean cloud top height for cloud layer
SSF-95	Mean cloud effective pressure for cloud layer
SSF-96	Stddev of cloud effective pressure for cloud layer
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SSF-98	Stddev of cloud effective temperature for cloud layer
SSF-99	Mean cloud effective height for cloud layer
SSF-100	Stddev of cloud effective height for cloud layer
SSF-101	Mean cloud base pressure for cloud layer
SSF-102	Stddev of cloud base pressure for cloud layer
SSF-102a	Mean cloud base temperature for cloud layer
SSF-103	Mean water particle radius for cloud layer (3.7)
SSF-104	Stddev of water particle radius for cloud layer (3.7)
SSF-105	Mean ice particle effective radius for cloud layer (3.7)
SSF-106	Stddev of ice particle effective radius for cloud layer (3.7)
SSF-106a	Mean asymmetry factor for cloud layer
SSF-107	Mean cloud particle phase for cloud layer (3.7)
SSF-108	Mean water particle radius for cloud layer (1.2)
SSF-109	Mean ice particle effective radius for cloud layer (1.2)
SSF-110	Mean logarithm of visible optical depth for cloud layer (1.2)
SSF-110a	Mean water particle radius for cloud layer (2.1)
SSF-110b	Mean ice particle effective radius for cloud layer (2.1)
SSF-110c	Mean logarithm of visible optical depth for cloud layer (2.1)
SSF-111	CO2 slicing percent coverages for cloud layer
SSF-111a	Mean infrared emissivity for cloud layer - CO2 slicing
SSF-111b	Mean effective pressure for cloud layer - CO2 slicing
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SSF-112	Mean effective height for cloud layer - CO2 slicing
SSF-113	Percentiles of visible optical depth for cloud layer
SSF-114a	Single layer/multilayer percent coverages
SSF-114b	Mean visible optical depth for multilayer

SSF-114c	Mean logarithm of visible optical depth for multilayer
SSF-114d	Mean cloud infrared emissivity for multilayer
SSF-114e	Mean cloud top pressure for multilayer
SSF-114f	Mean cloud top temperature for multilayer
SSF-114g	Mean cloud top height for multilayer
SSF-114h	Mean cloud particle phase for multilayer (3.7)
SSF-114i	Mean water particle radius for multilayer (3.7)
SSF-114j	Mean ice particle effective radius for Multilayer (3.7)
SSF-114k	Mean water particle radius for Multilayer (2.1)
SSF-114l	Mean ice particle effective radius for multilayer (2.1)

Reason for Parameter Change:

The changes made in “Science Changes” above will affect all SSF parameters listed above.

Affected PGEs in this Subsystem: CER4.1-4.1P6 CER4.1-4.2P5 CER4.1-4.2P4 CER4.1-4.3P3

Estimated Time to Complete Change: Completed

Planned Delivery Date: January 28, 2011

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

Date & Time: 2011-01-24 12:17:49

Originator: SUN-MACK, SUNNY (SSAI)

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Parameter Change: (X) YES () NO

Description of Change (Science):

(1) Revised new lookup tables and this includes: (Req. 4-12.25)

- Reduced lookup-table parameters and sizes for emissivity and transmission
- Reduced lookup-table parameters and sizes for reflectivity
- Increased valid brightness temperature.
- Added effective ice diameter and effective ice radius conversion

(2) Revised the CO2 algorithm to enhance cirrus cloud-top height retrieval and also repair the false-detected cirrus clouds as well as the 13.3- μ m stripping issues in pixel data. It includes: (Req. 4-12.25)

- Revised both input and output pixel parameters and their formats to 2-D data array to facilitate the linear interpolation within each processing tile and to identify and repair the data stripping problems.
- Revised the input formats of the MOA profile data from the use of the central pixel profile to uses of all pixel profiles.
- Added the input parameter ELR for the new gridded lapse rate data.
- Added the input parameter JDAY for Julian day, but no effect in Edition 4.
- Added the output parameters ECO2 for the CO2 effective cloud emissivity and PSFC, TSFC and ZSFC for the modified surface pressure, temperature and elevation data.

- Added the FIXT13 subroutine and input parameter IFIXT13 to repair the 13.3- μm data stripping problems.
- Revised the input of MOA relative humidity profile data to the use of the MOA specific humidity profile data.
- Revised the GETPROF subroutine to linearly interpolate the MOA profiles and surface data for all pixels within each processing tile.
- Revised in the GETPROF subroutine to add the RHRET and ESVAPRET2 functions to recalculate the relative humidity profiles at several specified levels.
- Revised the PTCO2RET subroutine to accommodate the linear-interpolated data to enhance the CO2 retrieval method.
- Revised in the PTCO2RET subroutine to change the CO2 cloud detection criteria from using the T11 and T13 brightness temperature thresholds to the uses of recalculated clear-sky radiance thresholds.
- Revised the CO2 cloud detection criteria in PTCO2RET to a deviation threshold of 0.35 Watt/m²/sr/ μm between the 13.3- μm pixel data and clear-sky radiance to result in more confident and conservative CO2 cloud retrievals.
- Revised the CO2 cloud top height retrieval in PTCO2RET to adjust the weak retrieval result towards the maximum relative humidity level with respect to ice.
- Removed several decision-tree criteria used in Edition 3 PTCO2RET, which have little effect.
- Revised the emission and transmission calculations in PTCO2RET to iteratively use the XYTRET subroutine and determine an optimal solution.
- Revised the XYTRET subroutine and added input parameter IEBG to improve the emission and transmission calculations when the lower level cloud is present or not.

(3) Revised the multilayer algorithm to accommodate the input changes and to repair the daytime false detection and nighttime no retrieval problems. (Req. 4-12.25)

- Revised both input and output pixel parameters and their formats to 2-D data array to coincide with the CO2 algorithm routines.
- Revised the output parameter MLAYER for a few multilayer ID to include: mlayer=7, 8 or 9 for multilayer cloud, mlayer=10 for CO2 cloud mask, mlayer=12 for optically thick high cloud, and mlayer=0 for all other pixels.
- Added the input parameter ELR for the new lapse rate data.
- Revised the multilayer lower cloud top height retrieval using the new lapse rate technique.
- Removed the use of nighttime default surface reflectance data and improved the nighttime multilayer cloud retrieval.
- Revised the MULTI2RET subroutine to use different multilayer criteria for daytime and nighttime and when the input cloud phase and effective optical depth are determined by either ice and water retrieval.
- Revised the GET_MULTI_RE and SETIBIN subroutines to use the new reflectance lookup tables and correct a few bugs in the code.
- Revised the REF0RET and REFFRET subroutines to accommodate the changes of input effective ice diameter and output effective ice radius.
- Added the FDE2RE and FRE2DE functions for the conversion between effective ice diameter and effective water radius.
- Revised the multilayer upper and lower optical depths and 3.7- and 2.1- μm effective ice and water radius retrievals due to earlier bugs.

Reason for Change (Science):

(1) - (3) Following the Science Team meeting discussions, the changes were aimed at to enhance the more confident CO₂ and multilayer cloud retrievals and be more conservative on the weak retrievals due to uncertainties among the input pixel data, the MOA profiles and the model calculations. The specific reasons

include:

- There were many false cirrus detections and retrievals.
- There were many false CO₂ cloud retrievals caused by the stripping problems of the raw 13.3- μ m pixel data.
- There were many false CO₂ cloud retrievals in high latitudes and polar region when the MOA temperature profile had a significant inversion or small variation in the troposphere.
- There were discontinuity or blocky results caused by the gridded input parameters used in each processing tile.
- There were many weak CO₂ cloud top height retrievals near 8-10 km, caused by a loosed default decision without using the iterative retrieval.
- There were significant underestimates in good CO₂ cloud top height retrievals, caused by misused MOA relative humidity data in the upper troposphere.
- There were bugs and loosed thresholds in GET_CEM_MULTI, resulted in many false-retrieved multilayer clouds.
- There was a code error in GET_CEM_MULTI in the nighttime processing, resulted in no multilayer retrieval data.
- For multilayer retrievals, the upper-layer cloud top heights were generally too low whereas the lower-layer cloud top heights were generally too high.

Description of Change (non-Science):

- (1) Added the XSHRET function to construct linear-interpolated pixel data and MOA profiles within each processing tile.
- (2) Added the SETZERO subroutine to initialize input and output parameters.
- (3) Revised the FRADRET and FTEMPRET functions for faster calculations.
- (4) Revised the FEMCRET function to delete unnecessary if-then-else statement.
- (5) Deleted the SMLAYER1 subroutine that is no longer used.

Reason for Change (non-Science):

- (1) - (5) Needed in accordance with the changes in Edition 4 format and code deliver.

Parameter(s) and Product(s) Being Changed (Use Name(s) from Data Products Catalog) and Description of Parameter Change:

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SSF-79a	CWG precipitable water
SSF-80	Vertical temperature change
SSF-81	Clear/layer/overlap percent coverages

SSF-82	Note for cloud layer
SSF-83	Mean visible optical depth for cloud layer
SSF-84	Stddev of visible optical depth for cloud layer
SSF-85	Mean logarithm of visible optical depth for cloud layer
SSF-86	Stddev of logarithm of visible optical depth for cloud layer
SSF-87	Mean cloud infrared emissivity for cloud layer
SSF-88	Stddev of cloud infrared emissivity for cloud layer
SSF-89	Mean liquid water path for cloud layer (3.7)
SSF-90	Stddev of liquid water path for cloud layer (3.7)
SSF-91	Mean ice water path for cloud layer (3.7)
SSF-92	Stddev of ice water path for cloud layer (3.7)
SSF-93	Mean cloud top pressure for cloud layer
SSF-94	Stddev of cloud top pressure for cloud layer
SSF-94a	Mean cloud top temperature for cloud layer
SSF-94b	Mean cloud top height for cloud layer
SSF-95	Mean cloud effective pressure for cloud layer
SSF-96	Stddev of cloud effective pressure for cloud layer
SSF-97	Mean cloud effective temperature for cloud layer
SSF-98	Stddev of cloud effective temperature for cloud layer
SSF-99	Mean cloud effective height for cloud layer
SSF-100	Stddev of cloud effective height for cloud layer
SSF-101	Mean cloud base pressure for cloud layer
SSF-102	Stddev of cloud base pressure for cloud layer
SSF-102a	Mean cloud base temperature for cloud layer
SSF-103	Mean water particle radius for cloud layer (3.7)
SSF-104	Stddev of water particle radius for cloud layer (3.7)
SSF-105	Mean ice particle effective radius for cloud layer (3.7)
SSF-106	Stddev of ice particle effective radius for cloud layer (3.7)
SSF-106a	Mean asymmetry factor for cloud layer
SSF-107	Mean cloud particle phase for cloud layer (3.7)
SSF-108	Mean water particle radius for cloud layer (1.2)
SSF-109	Mean ice particle effective radius for cloud layer (1.2)
SSF-110	Mean logarithm of visible optical depth for cloud layer (1.2)
SSF-110a	Mean water particle radius for cloud layer (2.1)
SSF-110b	Mean ice particle effective radius for cloud layer (2.1)
SSF-110c	Mean logarithm of visible optical depth for cloud layer (2.1)
SSF-111	CO2 slicing percent coverages for cloud layer
SSF-111a	Mean infrared emissivity for cloud layer - CO2 slicing
SSF-111b	Mean effective pressure for cloud layer - CO2 slicing
SSF-111c	Mean effective temperature for cloud layer - CO2 slicing
SSF-112	Mean effective height for cloud layer - CO2 slicing
SSF-113	Percentiles of visible optical depth for cloud layer
SSF-114a	Single layer/multilayer percent coverages
SSF-114b	Mean visible optical depth for multilayer
SSF-114c	Mean logarithm of visible optical depth for multilayer
SSF-114d	Mean cloud infrared emissivity for multilayer
SSF-114e	Mean cloud top pressure for multilayer

SSF-114f	Mean cloud top temperature for multilayer
SSF-114g	Mean cloud top height for multilayer
SSF-114h	Mean cloud particle phase for multilayer (3.7)
SSF-114i	Mean water particle radius for multilayer (3.7)
SSF-114j	Mean ice particle effective radius for Multilayer (3.7)
SSF-114k	Mean water particle radius for Multilayer (2.1)
SSF-114l	Mean ice particle effective radius for multilayer (2.1)

Reason for Parameter Change:

The changes made in “Science Changes” above will affect all SSF parameters listed above.

Affected PGEs in this Subsystem: CER4.1-4.1P6, CER4.1-4.2P5, CER4.1-4.2P4, CER4.1-4.3P3

Estimated Time to Complete Change: Completed

Planned Delivery Date: January 28, 2011

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

Date & Time: 2011-01-24 12:21:48

Originator: SUN-MACK, SUNNY (SSAI)

CERES Software Configuration Change Request Submittal

=====

Subsystem: Toolkit SCCR Date & TIME: 2011-01-20 17:35:03 SCCR No.: 826

Parameter Change: () YES (X) NO

Description of Change (Science):

N/A

Reason for Change (Science):

N/A

Description of Change (non-Science):

This change fixes platform dependent data type assignments in the HDF-EOS library on the AMI Power 6 platform. This required modifications to the following four HDF-EOS source files:

- 1) EHapi.c - lines 49-51: changed 64-bit LONG variables to 32-bit INT.
- 2) GDapi.c - lines 12666-12668: changed 64-bit LONG variables to 32-bit INT.
- 3) PTapi.c - lines 6130-6132: changed 64-bit LONG variables to 32-bit INT.
- 4) SWapi.c - lines 12894-12896: changed 64-bit LONG variables to 32-bit INT.

Reason for Change (non-Science):

The default data type assignments to several variables in the HDF-EOS library that is included with Toolkit v16 are not compatible with the Power 6 Linux platform. Certain integer variables that are expected by HDF-EOS to be 32-bit were being set to be 64-bit by GCC. This incorrect assignment results in HDF-EOS dependent PGEs to fail to run correctly.

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 AMI Power 6 PGEs

Estimated Time to Complete Change : 1 Day

Planned Delivery Date : 1/21/2011

List Affected Subsystems and PGE Names: All AMI Power 6 PGEs

Originator: HILLYER, THOMAS N. (SSAI)

CERES Software Configuration Change Request Submittal

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

Subsystem: CERESlib SCCR Date & TIME: 2011-01-21 13:53:24 SCCR No.: 827

Parameter Change: (X) YES () NO

Description of Change (Science):
Refer to SCCRs 823 and 825.

Reason for Change (Science):
Refer to SCCRs 823 and 825.

Description of Change (non-Science):
This change implements all of the Edition4 updates into the operational version of CERESlib on AMI and Magneto. Please refer to SCCRs 823 and 825.

Reason for Change (non-Science):
Refer to SCCRs 823 and 825.

Parameter(s) and Product(s) Being Changed (Use Name(s) from Data Products Catalog) and
Description of Parameter Change:
Refer to SCCR 825.

Reason for Parameter Change:
Refer to SCCR 825.

Affected PGEs in this Subsystem:
Refer to SCCRs 823 and 825.

Estimated Time to Complete Change : 1 Day
Planned Delivery Date : February 4, 2011
List Affected Subsystems and PGE Names: Refer to SCCRs 823 and 825.

Originator: HILLYER, THOMAS N. (SSAI)

CERES Software Configuration Change Request Submittal

=====

Subsystem: Inversion

SCCR Date: 01/25/2011

SCCR Number: 828

Parameter Change: () YES (X) NO

Description of Change (Science):

N/A

Reason for Change (Science):

N/A

Description of Change (non-Science):

Add the 'DefaultSCC' option to the pcf generator. Req. # 4.5-36

Reason for Change (non-Science):

Update the pcf generator to support Edition1-CV processing. The 'DefaultSCC' option is listed in the Operator's Manual but is not supported in the pcf generator and is needed for the Edition1-CV processing.

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: CER4.5-6.1P2 and CER4.5-6.1P3

Estimated Time to Complete Change : 1 Day

Planned Delivery Date : January 26, 2011

List Affected Subsystems and PGE Names: Inversion CER4.5-6.1P2 and CER4.5-6.1P3

Date: 01/25/2011 Status: Submitted

Originator: SOTHCOTT, VICTOR E. (SSAI)

=====

ADDITIONAL CHANGES TO SCCR NO. 828:

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Parameter Change: () YES (X) NO

Description of Change (Science):

N/A

Reason for Change (Science):

N/A

Description of Change (non-Science):

Add the 'DefaultSCC' option to the pcf generator for Terra Edition2. Req. # 4.5-36

Reason for Change (non-Science):

Update the Terra pcf generator to support Edition1-CV processing.

The 'DefaultSCC' option is listed in the Operator's Manual but is not supported in the pcf generator and is needed for the Edition1-CV processing.

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: CER4.5-6.1P2

Estimated Time to Complete Change : 1 Day

Planned Delivery Date : January 26, 2011

List Affected Subsystems and PGE Names: Inversion CER4.5-6.1P2

Date & Time: 2011-01-26 09:37:42

Originator: SOTHCOTT, VICTOR E. (SSAI)

CERES Software Configuration Change Request Submittal

=====

Subsystem: Inversion SCCR Date & TIME: 2011-01-26 09:40:01 SCCR No.: 829

Parameter Change: () YES (X) NO

Description of Change (Science):

N/A

Reason for Change (Science):

N/A

Description of Change (non-Science):

Add the 'DefaultSCC' option to the pcf generator for Aqua Edition2. Req. # 4.5-37

Reason for Change (non-Science):

Update the Aqua pcf generator to support Edition1-CV processing.

The 'DefaultSCC' option is listed in the Operator's Manual but is not supported in the pcf generator and is needed for the Edition1-CV processing.

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:

CER4.5-6.1P3

Estimated Time to Complete Change : 1 Day

Planned Delivery Date : January 26, 2011

List Affected Subsystems and PGE Names: Inversion CER4.5-6.1P3

Originator: SOTHCOTT, VICTOR E. (SSAI)

CERES Software Configuration Change Request Submittal

=====

Subsystem: MOA SCCR Date & TIME: 2011-01-26 16:27:56 SCCR No.: 830

Parameter Change: () YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
(Req#12-3.4)
A correction is need for the ASCII file generators for both MOA PGEs on magneto.

Reason for Change (non-Science):
(Req#12-3.4)
An incorrect G5 file version number is being used by the PCF generator for certain data dates.

Parameter(s) and Product(s) Being Changed (Use Name(s) from Data Products Catalog) and
Description of Parameter Change:
N/A

Reason for Parameter Change:
N/A

Affected PGEs in this Subsystem:
12.1P1, 12.1P2

Estimated Time to Complete Change : 2 days
Planned Delivery Date : January 27, 2011
List Affected Subsystems and PGE Names: RegridMOA

Originator: CALDWELL, THOMAS E. (SSAI)

CERES Software Configuration Change Request Submittal

=====

Subsystem: Clouds4.1-3 SCCR Date & TIME: 2011-01-27 19:04:15 SCCR No.: 831

Parameter Change: () YES (X) NO

Description of Change (Science):

None

Reason for Change (Science):

N/A

Description of Change (non-Science):

Modify the PCF Generation Script to change any Editionx to Edx-NoSW where x is 2 or 1-CV when FM4 is included in Aqua processing on magneto. (4-13).

Reason for Change (non-Science):

The original script was designed for only using Edition2 IES in processing. With the change to using Edition1-CV IES in clouds processing, the script needs to change to match the FM4 production strategy of Ed1-CV-NoSW after March 29, 2005.

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:

CER4.1-4.1P5

Estimated Time to Complete Change : Two days

Planned Delivery Date : January 31, 2011

List Affected Subsystems and PGE Names: Inversion 4.5-6.1P2 and 4.5-6.1P3; SARB 5.0P1 and 5.1P1; and TISA

9.2P1

Originator: MILLER, WALTER F. (SSAI)

Table 6. February 2, 2011 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
Toolkit Issues	Hillyer (Grepitotis)	<ul style="list-style-type: none"> HDF-EOS patch for Power 6 migrated to <i>AMI-P</i>. (Hillyer) 	
CERES-lib	Grepitotis (Hillyer)	<ul style="list-style-type: none"> Applied Edition4 updates to CERESlib on /SCF2 version on <i>AMI (P6 and x86)</i>. (Hillyer) Installing Edition4 updates to CERESlib on <i>magneto</i>. (Grepitotis) Working on improved interface for retrieving the disk quota information for GPFS arrays. (Hillyer) 	
Perl_Lib	Hillyer (Grepitotis)	<ul style="list-style-type: none"> Nothing to report. 	
1.0	Cooper (Grepitotis)	<ul style="list-style-type: none"> Continue to work with SIT as they test the Instrument SCCRs delivered to <i>AMI-P</i>. Updates were made to the submission scripts to read input data from the instrument/data directory for PGEs CER1.2P1 & CER1.3P1 for SCCR 716. The updates were also made for PGE CER1.4P1 for SCCR 756. (Cooper) Work is continuing to rework the NPP RDR preprocessor. The updated PGE will be delivered after NCT 3 Part II. (Cooper, Spivak) Work began to update CER1.1Px to include CER1.2P1 Pre-ES8 generation. All updates for this are script related. The updated scripts will require an extra input parameter “-run_pres8”, which when set will run both PGEs using the PCF created for CER1.1Px. This is not a high priority item, but is being worked as time allows. (Cooper) Work continues to port all existing validation code over from <i>spg10</i> and <i>warlock</i> to <i>AMI</i>. (Cooper, Snyder) 	
2.0	Walikainen (Lande)	<ul style="list-style-type: none"> Created PRs 14-11 through 16-11 for SCCRs 770 and 747 (1.4P2 and 1.0P2, for ValR23 and NPP NCT3 dry run). (Lande) Recompiled, integrated and tested Nelson's code/makefile fixes for the ES4 graphics problems in 3.1P1 and 3.2P1 output. (Lande & Hillyer) 	

Table 6. February 2, 2011 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
2.0 (Cont'd)	Walikainen (Lande)	<ul style="list-style-type: none"> • Fixed mismatch between sampling strategy of Edition3-Xtrk EID6/CXDR filenames and their expected file paths for use by 3.1P1. (Lande) • Generated input and expected output for 3.2 Edition2 and 3.1/3.2 Edition3 test cases. Fixed bugs encountered in the process and created src/anc/data tar files with the resulting working P6 version for 2.2/2.3/3.1/3.2. (Lande) • Nelson's fix allowed CER2.1P1 to work an AMI. (Walikainen & Hillyer) • Updated Test Plan for CER2.4P1 and CER2.1P1. (Walikainen) • CER2.1P1 and CER2.4P1 are ready for SCCR-740 delivery, only SGE scripts and testing remain. (Walikainen) 	
3.0	Walikainen (Lande)	<ul style="list-style-type: none"> • Combined with above. 	
4.1	Sun-Mack (Brown)	<ul style="list-style-type: none"> • Ed4 Effort: Processed Terra Ed2 and Aqua Ed1 QC files from July 2002 to Dec 2007 to produce the difference and standard deviation global maps and stats of CERES cloud retrievals. Also processed Jan of 2007 Terra Ed2A cloudvis files to calculate the histogram of Cloud Effective Temperature with water and ice pixel counts. These works are for Ed2 Cloud Retrieval paper. (Chen) • Ed4 Effort: Checked CloudVis output for Ed4 delivery. (Chen) • Ed4 Effort: Wrote codes and scripts to reproduce monthly Surface emissivity maps from CIMSS Global Infrared Land Surface Emissivity Database for Ed4 delivery. So far emissivity maps for January, April, July, and December of Terra and Aqua 2007 for 3.7 μm, 8.5 μm, 11 μm, and 12 μm were produced. (Chen) 	

Table 6. February 2, 2011 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.1 (Cont'd)	Sun-Mack (Brown)	<ul style="list-style-type: none"> • Finished processing July, August, September, October, November, and December of 2007 NEWS data with RelB1 version and the corresponding QC plots were processed and can be viewed on the Web. (Chen) • Ed4 Effort: Testing of 1P6, 2P5, and 2P4 on <i>AMI</i> using new SGE scripts. Also tested manual execution of Clouds PGEs on <i>AMI</i>. (Smith) • Ed4 Effort: Made updates to Clouds Operators Manual and Clouds Test Plan sections for 1P6, 2P4, 2P5, and 3P3 to include SGE script run methods. (Smith) • Ed4 Effort: Making necessary updates to validation software to work for all new test cases of 1P6, 1P5/2P5, 2P4, 2P5, and 3P3. (Smith) • Ed4 Effort: Created PCF checking script to check inputs and outputs of manually created PCF. Added this step to command line procedures for 1P6, 2P4, 2P5, and 3P3. (Smith) • Ed4 Effort: Updated cleanup scripts to clean up for multiple dates. (Smith) • Ed4 Effort: Adding new sections to Operators Manual and Test Plan for 1P6/2P5 two day combined PGE. (Smith) • Ed4 effort: QC global images and statistics were produced for validation of Aqua and Terra Edition4 with MODIS, and Terra Edition2A-QC. (R. Brown) • Continued to work on issues related to running DX in both batch and gui mode on <i>AMI</i> and maintaining current code libraries. (Gibson) • Began to test processes and deal with issues related to a desktop Mac system upgrade. (Gibson) • Upgraded the CloudVis viewer to create a box of variable size at the user or curser pickpoint within all image windows. This will help with analysis and comparisons between data parameters. (Gibson) • Worked on the Cloud Retrieval Paper II Review. (Sun-Mack) 	

Table 6. February 2, 2011 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.1 (Cont'd)	Sun-Mack (Brown)	<ul style="list-style-type: none"> • Worked with Seiji on cloud portion of C3M B1 Quality Summary (Sun-Mack) • Worked on using/testing Edition 4 version, but with MODIS emissivities. (Sun-Mack) • Worked on creating a month of Terra (July 2008) for surface group and sarb group, so they can start developing their Edition 4 code. (Sun-Mack) • Worked putting together all changes of Clouds Edition 4 and made four separate updates for SCCR 809. (Sun-Mack) • Worked on documenting all changes made by me on clouds retrieval code for Clouds Edition 4. Sent both cloud retrieval final version of the code and documentation to Pat Heck, who then could modify it so it will work for geol-satellites. (Sun-Mack) • Wrote and submitted an abstract. (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"> • Tested new CERESlib Edition4 updates in both test area and SCF. (Miller) (Edition4) • Worked on the program to introduce new GRing construction algorithm. (Antropov) (Edition4) • Updated Data Product Catalog pages for Edition4 SSF. (Miller) (Edition4) • Reviewed SSFI produced by SIT using Edition1-CV inputs. (Miller) (Edition1-CV) • Delivered changes to CER4.1-4.1P5 (Aqua clouds) PCF generation script needed to process Edition1-CV IES to CM. A more generic method of converting EditionX to EdX-NoSW was implemented. It will be used for Edition4 delivery also. (Miller) (Edition1-CV and Edition4) • Completed pulling FM2 GQCI files. (Miller) (Edition2) 	

Table 6. February 2, 2011 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
4.5	Sothcott	<ul style="list-style-type: none"> Continued work on Edition4-Beta1 software: delivered code to CERESlib and ran 1 month of FM1 data for review and analysis. (Sothcott) Delivered the Description/Abstract, Sample Read Package and Data Products Catalog for the Edition3A Inversion product. (Sothcott) Delivered a script update to the Edition2 software to support the Edition1-CV processing. (Sothcott) 	
4.6	Sothcott	<ul style="list-style-type: none"> Combined with above. 	
5.0	Caldwell (Coleman)	<ul style="list-style-type: none"> No new updates. (Caldwell) 	
7.2	Caldwell (Coleman)	<ul style="list-style-type: none"> Working on issue encountered when running zones 129 and 130 for 200804 of Edition3 Terra/Aqua SYNI. (Caldwell) 	
12.0	Caldwell (Coleman)	<ul style="list-style-type: none"> No new updates. (Caldwell) 	
7.1	Nguyen (Lock)	<ul style="list-style-type: none"> Updating code to solve for the special cases in TOA LW, WN and SW fluxes. (Nguyen) Ran 2008 and 2009 TSIB for validation. (Nguyen) Will prepare for the re-delivery of the merged Terra-Aqua TSIB code. (Nguyen) 	
8.0	Nguyen (Lock)	<ul style="list-style-type: none"> Provided support for CM testing for SCCR 795. Providing Dave Doelling with plots as requested. (Lock) Ran SS8 with new SYNI and TSIB EditionA data. Provided validation plots on the Edition3A data. Reviewed range checks on Edition3A output. (Lock) 	
10.0	Nguyen (Lock)	<ul style="list-style-type: none"> Working on updating the SRBAVG code to produce non-GEO and GEO monthly, daily, and monthly-hourly SRBAVGS. (Nguyen) Preparing to run SSF1deg and SYN1deg through June 2010. (Nguyen) 	
6.0	Raju (Nguyen)	<ul style="list-style-type: none"> No new updates. (Raju) 	

Table 6. February 2, 2011 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
9.0	Raju (Nguyen)	<ul style="list-style-type: none"> • Started working on an IDL program to read ISCCP-D2like-Mrg HDF product and create validation plots for Moguo Sun. (Raju) • Completed Description/Abstract document for Edition3A SFC product and sent the document to user services. (Raju) <p>Brief Status on ISCCP_D2Like_Flx_Day/Nit:</p> <ul style="list-style-type: none"> • Completed development of generating Narrowband to Broadband coefficients for calculation of Flux for individual LW/SW-Lnd/Ocn-Day/Nit-Cld/Clr cases. (Syed) • Completed development of code for calculating Flux from Broadband coefficients. (Syed) • Testing in progress. (Syed) • Consolidation of broadband coefficients code in progress for a single PGE (PGE1). (Syed) • Expected date of completion of PGE1 for testing, Feb. 11. (Syed) • Expected date of completion of Flux Code development (PGE2) for testing, Feb. 18. (Syed) • New date for release of PGE code to ASDC is March 25th. (Syed) 	
11.0	Raju (Nguyen)	<ul style="list-style-type: none"> • Received 5-channel cloud retrieval GOES-12 and GOES-11 and METEO-9 files from Michele Nordeen. Checking the data before processing it through PGE 11.2P2 1-Hourly software. (Raju) • As per Dave Doelling's requests, started processing 03/2010 – 12/2010 GEO satellites' data through PGE 11.1P10 at the SCF. (Raju) 	

Table 7. February 2, 2011 – DM Tasks

Activity	Status
Code Optimization (Coleman)	<ul style="list-style-type: none"> • No new updates.
Production Processing Database/ Automation (Coleman)	<ul style="list-style-type: none"> • Collecting and organizing feedback received from the CERES PR General Query Web Site. (Parrish, Coleman, Heckert, Grune, Magill, Key, & Grepiotis) • Working with the team on the Daisy Chaining PGEs requirements and possible architectures. (Parrish, Coleman, Magill, & Hillyer) • Continued developing the Product Request tool query and search functionality in preparation for the demo of the PR Tool. (Heckert) • Presented the demo for the new Product Request tool, query and search result functions. (Heckert)
Ordering Tool (Kizer)	<ul style="list-style-type: none"> • Made some minor aesthetic adjustments to the Ordering Tool interface. (Heckert) • Made some updates to the ADF Group Webpages as requested by Seiji Kato. (Heckert)

Table 8. February 2, 2011 – NPP Issues

Activity	Status
FM5	<ul style="list-style-type: none">• Coordinated proxy data for September 6, 2002 and researched SOE data for Plantinum data set. (Miller)• An NCT3 Part 2 Kick-off meeting was held January 26. Discussion included the test schedule, action items, and test data formulation. (Closs)• Presented a paper on Continuity of Climate Data Records from FM5 on NPP at the annual American Meteorological Society meeting in Seattle, WA. (Closs)

Table 1: PGE Current Events Status Table

		Status of PGEs on Each Platform and TK Version used for Compilation ^{1,2}							Status of Misc. Item(s)	
Subsystem ID	PGE ID	SGI	P4	P4 TK Ver	P6	P6 TK Ver	X86	X86 TK Ver	"New" Wrapper Scripts for AMI Status (Y / N / Devel / SSI&T / n/a) ⁷	Comments
Instrument - 1	CER1.0P1	N	N	N/A	N	N/A	N	N/A	n/a	Will comply with all the latest whenever delivered
	CER1.0P2	N	N	N/A	SSI&T	16	SSI&T	16	SSI&T	C++ RDR Pre-Processor
	CER1.1P1	Y	N	N/A	N	N/A	SSI&T	16	SSI&T	To be disabled when C++ working- CER1.1P8
	CER1.1P3	Y	N	N/A	N	N/A	SSI&T	16	SSI&T	To be disabled when C++ working- CER1.1P8
	CER1.1P5	Y	N	N/A	N	N/A	SSI&T	16	SSI&T	To be disabled when C++ working- CER1.1P8
	CER1.1P7	SSI&T	N	N/A	N	N/A	Y	16	Y	Ada NPP
	CER1.1P8	N	N	N/A	SSI&T	16	Devel	16	SSI&T	C++ NPP, Terra, Aqua
	CER1.2P1	Y	N	N/A	SSI&T	16	SSI&T	16	SSI&T	C code, NPP capable.
	CER1.3P1	Y	N	N/A	N	N/A	SSI&T	16	SSI&T	Replace with CER1.4P1 on P6
	CER1.3P2	Y	N	N/A	N	N/A	SSI&T	16	SSI&T	Replace with CER1.4P2 on P6
	CER1.3P3	Y	N	N/A	N	N/A	SSI&T	16	SSI&T	Replace with CER1.4P3 on P6
	CER1.4P1	N	N	N/A	SSI&T	16	SSI&T	16	SSI&T	
	CER1.4P2	N	N	N/A	SSI&T	16	SSI&T	16	SSI&T	
CER1.4P3	N	N	N/A	Devel	16	Devel	16	N		
ERBE-like - 2	CER2.1P1	Y	Y	16	Devel	16	Devel	16	N	
	CER2.2P1	Y	Y	15	Devel	16	Devel	16	N	Compile HDF with TK 15, run with TK 16
	CER2.3P1	Y	Y	16	Devel	16	Devel	16	N	
	CER2.3P2	Y	Y	16	Devel	16	Devel	16	N	
	CER2.4P1	Y	Y	16	Devel	16	Devel	16	N	
ERBE-like - 3	CER3.1P1	Y	Y	16	Devel	16	Devel	16	N	
	CER3.2P1	Y	Y	16	Devel	16	Devel	16	N	

Table 1: PGE Current Events Status Table

		Status of PGEs on Each Platform and TK Version used for Compilation ^{1,2}							Status of Misc. Item(s)	
Subsystem ID	PGE ID	SGI	P4	P4 TK Ver	P6	P6 TK Ver	X86	X86 TK Ver	"New" Wrapper Scripts for AMI Status (Y / N / Devel / SSI&T / n/a) ⁷	Comments
Clouds 4.1-4	CER4.1-4.0P1	Y	N	N/A	N	N/A	N	N/A	n/a	
	CER4.1-4.0P2	N	Y	15	N	N/A	N	N/A	n/a	Migration to AMI not in near future
	CER4.1-4.1P4	Y	Y	16	N	N/A	N	N/A	n/a	<i>warlock</i> version recompiled for 2008 Edition2, Possibly use P4 for 3/10 forward
	CER4.1-4.1P5	Y	Y	16	N	N/A	N	N/A	n/a	<i>warlock</i> version recompiled for 2008 Edition2, Use P4 for 3/10 forward
	CER4.1-4.1P6	N	Y	16	Devel	16	N	N/A	N	Beta2-Ed3 (P4), Ed4 (P6), Migration to X86 not in near future
	CER4.1-4.2P2	Y	Y	15	N	N/A	N	N/A	n/a	Ed2
	CER4.1-4.2P3	Y	Y	15	N	N/A	N	N/A	n/a	Ed2
	CER4.1-4.2P4	N	Y	16	Devel	16	N	N/A	N	Beta2-Ed3 on P4, Ed4 to be on P6, Migration to X86 not in near future
	CER4.1-4.2P5	N	Y	16	Devel	16	N	N/A	N	Beta2-Ed3 on P4, Ed4 to be on P6, Migration to X86 not in near future
	CER4.1-4.3P2	Y	Y	15	N	N/A	N	N/A	n/a	Ed2
CER4.1-4.3P3	N	Y	16	Devel	16	N	N/A	N	Beta2-Ed3 on P4, Ed4 to be on P6, Migration to X86 not in near future	
Inversion/SOF A 4.5-6	CER4.5-6.1P2	Y	ValRx	16	N	N/A	N	N/A	n/a	Ed2 Terra Main
	CER4.5-6.1P3	Y	Y	15	N	N/A	N	N/A	n/a	Ed2 Aqua Main
	CER4.5-6.1P4	N	Y	16	Devel	16	Devel	16	N	Terra Main Ed4 version of 1P2
	CER4.5-6.1P5	N	Y	16	Devel	16	Devel	16	N	Aqua Main Ed4 version of 1P3
	CER4.5-6.2P2	Y	Y	15	N	N/A	N	N/A	n/a	Ed2/Ed3 subsetter
	CER4.5-6.2P3	N	Y	16	Devel	16	Devel	16	N	Subset postproc for Terra and Aqua (Ed4 version of 2P2)
	CER4.5-6.2P4	N	Y	16	N	N/A	N	N/A	N	Ed3 daily post-processor
	CER4.5-6.3P2	Y	SSI&T	16	N	N/A	N	N/A	n/a	Edition2 to <i>magneto</i> Terra alternate
	CER4.5-6.3P3	Y	Y	15	N	N/A	N	N/A	n/a	Edition2 to <i>magneto</i>
	CER4.5-6.4P1	Y	Y	15	N	N/A	N	N/A	n/a	Edition2 to <i>magneto</i>
	CER4.5-6.4P2	N	Y	16	Devel	16	Devel	16	N	Monthly validation site (Ed4 for 4P1)
	CER4.5-6.5P2	N	N	N/A	N	N/A	N	N/A	n/a	IES-SSF Terra New PGE, Ed4 format
	CER4.5-6.5P3	N	N	N/A	N	N/A	N	N/A	n/a	IES-SSF Aqua New PGE, Ed4 format
	CER4.5-6.5P4	N	Y	16	N	N/A	N	N/A	n/a	IES-SSF Terra New PGE, Ed2 format
	CER4.5-6.5P5	N	SSI&T	16	N	N/A	N	N/A	n/a	IES-SSF Aqua New PGE, Ed2 format
CER4.5-6.6P2	Y	N	N/A	N	N/A	N	N/A	n/a	Edition2	
CER4.5-6.6P3	Y	Y	15	N	N/A	N	N/A	n/a	Edition2 to <i>magneto</i>	

Table 1: PGE Current Events Status Table

		Status of PGEs on Each Platform and TK Version used for Compilation ^{1,2}							Status of Misc. Item(s)	
Subsystem ID	PGE ID	SGI	P4	P4 TK Ver	P6	P6 TK Ver	X86	X86 TK Ver	"New" Wrapper Scripts for AMI Status (Y / N / Devel / SSI&T / n/a) ⁷	Comments
SARB - 5	CER5.0P1	Y	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER5.0P2	N	Y	15	N	N/A	N	N/A	n/a	Ed2 only for now, Ed3 version requires delta delivery
	CER5.1P1	Y	Y	16	N	N/A	N	N/A	n/a	Ed2 only
	CER5.1P2	N	ValRx	16	N	N/A	N	N/A	n/a	Ed2 only
	CER5.1P3	N	N	N/A	Devel	16	Devel	16	N	New PGE - Edition4 Main for Terra and Aqua
	CER5.4P1	Y	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER5.4P2	N	Y	16	N	N/A	N	N/A	n/a	Ed2 only
TISA Grid - 6	CER6.1P1	Y	Y	15	N	N/A	Devel	16	n/a	
	CER6.1P2	N	N	N/A	N	N/A	N	N/A	n/a	New PGE for Edition4
	CER6.2P1	Y	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER6.2P2	N	N	N/A	Devel	16	Devel	16	n/a	New PGE for Edition4
	CER6.3P1	Y	Y	15	N	N/A	N	N	n/a	
TISA Avg - 7.1	CER6.3P2	N	N	N/A	Devel	16	Devel	16	n/a	New PGE for Edition4
	CER7.1.1P1	N	Y	15	N	N/A	N	N/A	n/a	
SARB - 7.2	CER7.3.1P1	N	Devel	16	Devel	16	N	N/A	SSI&T	New PGE for Edition3
	CER7.2.1P1	N	Y	16	N	N/A	SSI&T	16	SSI&T	P4 only Ed2 for now, X86 for Ed2 and Ed3
TISA Avg - 8	CER8.1P1	N	Y	15	SSI&T	16	N	N/A	SSI&T	Migrate to AMI for Ed3
TISA Grid - 9	CER9.0P1	N	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER9.0P2	N	N	N/A	SSI&T	16	N	N/A	SSI&T	ISCCP-D2like-MRG Pre-processor
	CER9.0P3	N	N	N/A	SSI&T	16	N	N/A	SSI&T	ISCCP-D2like-MRG Main-processor
	CER9.1P1	Y	Y	15	Devel	16	Devel	16	N	
	CER9.2P1	Y	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER9.2P2	N	SSI&T	16	N	N/A	N	N/A	n/a	New PGE for Edition3
	CER9.3P1	Y	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER9.3P2	N	SSI&T	16	N	N/A	N	N/A	n/a	New PGE for Edition3
	CER9.4P1	Y	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER9.4P2	N	SSI&T	16	N	N/A	N	N/A	n/a	New PGE for Edition3
TISA Avg - 10	CER10.0P1	N	Y	16	N	N/A	N	N/A	n/a	
	CER10.0P2	N	Y	16	N	N/A	N	N/A	n/a	
	CER10.0P3	N	Devel	16	Devel	16	N	N/A	SSI&T	New PGE for Edition3

Table 1: PGE Current Events Status Table

		Status of PGEs on Each Platform and TK Version used for Compilation ^{1,2}							Status of Misc. Item(s)	
Subsystem ID	PGE ID	SGI	P4	P4 TK Ver	P6	P6 TK Ver	X86	X86 TK Ver	"New" Wrapper Scripts for AMI Status (Y / N / Devel / SSI&T / n/a) ⁷	Comments
GGEO - 11	CER11.1P10	N	Y	16	Devel	16	Devel	16	N	
	CER11.2P2	N	Y	16	Devel	16	Devel	16	N	
	CER11.4P1	N	Y	16	Devel	16	Devel	16	N	
	CER11.6P1	N	Y	16	Devel	16	Devel	16	N	
	CER11.7P1	N	Y	16	Devel	16	Devel	16	N	
Regrid MOA - 12	CER12.1P1	Y	SSI&T	16	SSI&T	16	SSI&T	16	SSI&T	
	CER12.1P2	N	Y	16	SSI&T	16	SSI&T	16	SSI&T	

Table 1 Key:		
¹ Status	Y	Currently able to run in production
	Devel	PGE in development, still to be delivered for the first time to the platform.
	SSI&T	PGE delivered and in SSI&T (CM or SIT) testing prior to operational processing
	ValRx	PGE promoted to production on platform, but still undergoing ValRx testing and approving phase
² Prod. Platform	SGL	warlock
	P4	Magneto - IBM P4
	P6	AMI - IBM P6
	X86	AMI - IBM X86
⁷ "New" Wrapper Scripts for AMI Status	Y	Scripts in production
	n/a	Not needed for this PGE
	N	Development not yet begun
	SSI&T	Delivered and in SSI&T (CM or SIT) testing prior to operational processing
	Devel	Development in progress for inclusion in next delivery

Table 2: CERES Product Current Events Status Table			
Table 2 - CERES Data Products			
Product Name	Responsible Working Group	Archival, Internal, or Ext. Input	URL in Sample Read README updated ¹ ? (Y/N)
BDS	Instrument	Archival	N
ES-8	ERBE-like	Archival	N
ES-9	ERBE-like	Archival	N
ES-4	ERBE-like	Archival	N
SSF	Inversion	Archival	Y
CRS	SARB	Archival	Y
FSW	TISA-Gridding	Archival	Y
SYN	TISA-Averaging	Archival	Y
AVG	TISA-Averaging	Archival	Y
ZAVG	TISA-Averaging	Archival	Y
SFC	TISA-Gridding	Archival	Y
SRBAVG	TISA-Averaging	Archival	Y
ISCCP-D2like-Day/Nit	TISA-Gridding	Archival	Y
ISCCP-D2like-GEO	TISA-GGEO	Archival	Y
INSTR	Instrument	Internal	N/A
IES	Instrument	Internal	N/A
EID-6	ERBE-like	Internal	N/A
CRH	Clouds	Internal	N/A
GGEO	TISA	Internal	N/A
MOA	SARB	Internal	N/A
CID-VIRS	Clouds	Ext. Input	N/A
CID-MODIS	Clouds	Ext. Input	N/A
SURFMAP	Clouds	Ext. Input	N/A
GEO	TISA	ValRx	N/A
APD	SARB	Ext. Input	N/A
GAP	SARB	Ext. Input	N/A
MWH	SARB	Ext. Input	N/A
OPD	SARB	ValRx	N/A
¹ Sample Read Package README files: References to URL http://asd-www.larc.nasa.gov/ceres/ASDceres.html need to be updated to http://science.larc.nasa.gov/ceres			

Revisions:		
Date	Affected Section or PGE/Product ID	Revision Made
1/12/2010	All	Moved PGEs with status of "Deleted" or "Disabled" to new sheet as Table 3
	CER2.1P1, CER2.4P1	Changed Planned Update status from SSI&T to ValRx
	CER2.2P1	Corrected Planned Update status from SSI&T to Developing
	CER2.3P1,2	Changed TK Version for Planned Update from 15 to 16
	CER 4.1-4.0P2, CER4.1-4.1P4,5, CER4.5-6.1P4,5, CER4.5-6.2P3, CER4.5-6.4P2	Changed Current Production Status from SSI&T to Active
	CER6.xP2	New PGEs added to Table 1
	CER12.1Px	Changed Planned Update Status to SSI&T, Changed Current Production Status TK version from 15 to 16
2/16/2010	CER1.4Px, CER5.1P3	Added
	All	Moved new PGEs in development from Current to Planned columns
	CER5.1P2, CER5.4P2, CER5.0P2	Changed Current Production Status from SSI&T to Active
	All	Added TK version for P6
3/1/2010	CER4.1-4.1P4, CER4.1-4.2P2, CER4.1-4.2P3, CER4.1-4.3P2, CER4.5-6.1P2	Changed current platforms from "W" to "W, P4", and removed "P4" and "ValRx" from planned update columns
	CER7.2.1P1	Changed current status from "ValRx" to "Active"
3/11/2010	CER12.1Px	Changed Planned Update status back from SSI&T to Developing due to the newly identified requirement for new wrapper scripts on AMI
	CER9.1P2	Removed from list
	CER9.0P2, CER9.0P3	Added to list
	CER1.0P2, CER11.10P1, CER11.2P2, CER11.4P1, CER11.6P1	Changed Planned updated status from Developing to SSI&T
	CER4.1-4.3P2	Changed P4 from planned to currently active
	CER1.1P7,8	Moved from current status columns to planned updated columns
3/30/2010	All PGEs	Added column for "New" AMI wrapper scripts
	Table 2 - Products CRS, FSW, and SFC	Changed URL Sample Read README status from "N" to "Y"
	CER1.4P1, CER9.2P2, CER9.3P2, CER9.4P2	Changed Planned Update status from Developing to SSI&T
4/13/2010	CER1.1P7, CER12.1Px	Changed Wrapper Script Status from "N" to "InProg"
	CER2.2P1, CER2.3Px	Changed Planned Updated Status from "Developing" to "SSI&T"
	CER4.1-4P5	Moved from a Current Production status of Active on P4 to a Planned update status of Developing on P4

Revisions:		
Date	Affected Section or PGE/Product ID	Revision Made
5/3/2010	Many PGEs	Changed "New" Wrapper status from "N" to "n/a"; Changed Status and Platform for Planned updates to "n/a" for PGEs that are not expected to migrate to AMI
	CER1.1P8, CER1.3P2,3, CER1.4Px	Changed "new" Wrapper status from "N" to "InProg"
	CER1.4Px	Added X86 to planned update platform column
	CER4.1-4.1P4	Changed Planned update status from "ValRx" to "SSI&T" and TK Ver to 16
	CER4.5-6.2P2,4P1	Added P4 to Current Prod Platform & removed P4 from Planned update columns
	CER5.4P2	Changed current status from ValRx to Active
	CER10.0Px	Changed status from SSI&T to ValRx
	CER11.7P1	Changed Planned update status to "SSI&T" and Planned Platform to P4
5/18/2010	All	Replaced columns indicating active platforms with platform-specific status
6/1/2010	CER4.5-6.5P4, CER4.5-6.5P5	New PGEs added to list
	CER4.5-6.5P2, CER4.5-6.5P3	Changed P4 status from SSI&T to N
	Clouds and Inversion	Changed comments to indicate Edition4 instead of Edition3
	CER9.x.P2	Changed Platform information to indicate development status on P4
6/15/2010	CER7.1.1P2, CER7.2.1P2, CER10.0P3	New PGEs added to list
	CER1.1P7	Changed Wrapper Script Status from "InProg" to "Y", changed X86 status to "Y"
	CER2.4P1	Changed P4 status from "ValRx" to "Y"
	CER4.5-6.5P4, CER4.5-6.5P5	Changed P4 status from "Devel" to "SSI&T"
	CER4.5-6.2P2	Changed P4 status from "SSI&T" to "Y"
6/28/2010	CER1.4P3	Changed "new" Wrapper status from "InProg" to "N"
	CER4.1-4.1P5, CER4.5-6.1P3	Changed P4 status from "ValRx" to "Y"
	CER9.2P2, CER9.3P2, CER9.4P2	Changed P4 status from "Devel" to "SSI&T"
7/13/2010	CER3.1P1, CER3.2P1	Changed P4 status from "SSI&T" to "ValRx"
	CER6.1P2, CER6.2P2, CER6.3P2	Changed P6 and X86 status form "Devel" to "N", Changed new wrapper status from "N" to "n/a"
	CER7.2.1P1	Changed P6 and X86 status form "N" to "Devel", Changed new wrapper status from "n/a" to "N"
	CER7.2.1P2	Changed P6 and X86 status form "Devel" to "N", Changed new wrapper status from "N" to "n/a"
	CER11.1P10, CER11.2P2	Changed P4 status from "ValRx" to "SSI&T"
	Instrument PGEs	Changed Wrapper Script Status to mirror PGE source code statuses
	CER1.1P8, CER1.4P2	Changed P6 and X86 status from "Devel" to "SSI&T"

Revisions:		
Date	Affected Section or PGE/Product ID	Revision Made
7/26/2010	CER4.5-6.2P4	Added
	CER7.2.1, CER8.1P1	Changed P6 status form "N" to "Devel", Changed new wrapper status from "n/a" to "Devel"
8/10/2010	CER1.0P2	Changed P6, X86, and New wrapper script statuses from "Devel" to "SSI&T"
	CER10.0P3	Changed "new" Wrapper status from "N" to "Devel" (correction)
	CER11.1P10	Changed "new" Wrapper status from "Devel" to "N" (Correction)
	CER2.2P1, CER2.3Px	Changed P4 status from "SSI&T" to "ValRx"
8/25/2010	CER7.3.1P1, CER10.0P3	Changed P4 status from "Devel" to "SSI&T"
	CER11.1P10, CER11.4P1	Changed P4 status from "SSI&T" to "ValRx"
9/7/2010	CER4.5-6.2P4, CER4.5-6.5P4	Changed P4 status from "SSI&T" to "Y"
9/20/2010	CER7.2.1P1	Changed X86 status from "Devel" to "SSI&T"
	CER11.1P10, CER11.2P2, CER11.4P1, CER11.6P1	Changed P4 status from "ValRx" to "Y"
	CER10.0P1, CER10.0P2	Changed P4 status from "ValRx" to "SSI&T"
10/4/2010	CER2.2P1, CER2.3Px, CER2.3P1, CER2.3P2	Changed P4 status from "ValRx" to "Y"
10/18/2010	CER7.3.1P1, CER10.0P3	Changed P6 status from "Devel" to "SSI&T"
	CER7.2.1P1	Changed X86 status from "Devel" to "SSI&T"
11/1/2010	CER12.1Px	Changed P6, X86, and New Wrapper Script statuses from "Devel" to "SSI&T"
11/22/2010	CER9.0P2, CER9.0P3	Changed P6 status from "Devel" to "SSI&T"
	CER8.1P1	Changed P6 status from "Devel" to "SSI&T"
12/21/2010	CER7.2.1P1	Changed P4 status from "Y" to "SSI&T"
1/4/2011	CER12.1P1	Changed P4 status from "Y" to "SSI&T"
1/17/2011	CER7.3.1P1, CER10.0P3, CER7.2.1, CER10.0P1, CER10.0P2	Changed P4 status from "SSI&T" to "Y"
1/31/2011	CER7.3.1P1, CER10.0P3	Changed P4 and P6 statuses from "SSI&T" to "Devel"

Table 3. CERES Disabled and Deleted PGEs
(Published in DMT Report Only When a PGE is Added to Table)

Subsystem ID	PGE ID	Current PGE Production Status ¹	Comments
Instrument - 1	CER1.1P2	Disabled	Remain disabled
	CER1.1P4	Disabled	Remain disabled
	CER1.1P6	Disabled	Remain disabled
ERBE-like - 2			
ERBE-like - 3	CER3.2P2	Disabled	
Clouds 4.1-4	CER4.1-4.1P1	Disabled	
	CER4.1-4.1P2	Disabled	Collection 4
	CER4.1-4.1P3	Disabled	Collection 4
	CER4.1-4.2P1	Disabled	Collection 4
	CER4.1-4.3P1	Disabled	Collection 4
	CER4.1-4.4P1	Disabled	In Op Man, but not in FMP. Delete?
Inversion/SOFA 4.5-6	CER4.5-6.1P1	Disabled	Probably not to be reactivated
	CER4.5-6.2P1	Disabled	Probably not to be reactivated
	CER4.5-6.3P1	Disabled	Probably not to be reactivated
SARB - 5	CER5.2P1	Deleted	
	CER5.3P1	Disabled	
TISA Grid - 6			
TISA Avg - 7.1			
SARB - 7.2			
TISA Avg - 8	CER8.2P1	Deleted	Merged with CER8.1P1
TISA Grid - 9			
TISA Avg - 10	CER10.1P1	Disabled	Replace with CER10.0P2
	CER10.1P2	Disabled	Replace with CER10.0P1
	CER10.2P1	Deleted	
	CER10.3P1	Deleted	
	CER10.1P3	Disabled	
	CER10.1P4	Disabled	Replace with CER10.0P2 for Terra
	CER10.1P5	Disabled	Replace with CER10.0P1 for Terra

Table 3. CERES Disabled and Deleted PGEs
(Published in DMT Report Only When a PGE is Added to Table)

Subsystem ID	PGE ID	Current PGE Production Status ¹	Comments
GGEO - 11	CER11.1P1	Disabled	
	CER11.1P2	Disabled	
	CER11.1P3	Disabled	
	CER11.1P4	Disabled	
	CER11.1P5	Disabled	
	CER11.1P6	Disabled	
	CER11.1P7	Disabled	
	CER11.1P8	Disabled	
	CER11.2P1	Disabled	
	CER11.3P1	Disabled	
	CER11.5P1	Deleted	
	Regrid MOA -12		