

March 19, 2008 - System Issues and Status

**Table 1: Process Strategy/Coleman as of 3/18/08
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	
PR 138-07	FM3	Test-G5-CERES1	Clouds (SS4.1-4)	4.1-4.1P5 4.1-4.2P3 4.1-4.2P2 4.2-4.3P2	1/06	
PR 137-07	FM3	Test-G5-CERES1	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	1/06	
PR 136-07	FM3	Test-G5-CERES1	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	1/06	
PR 135-07	FM2	Test-G5-CERES1	Clouds (SS4.1-4)	4.1-4.1P4 4.1-4.2P3 4.1-4.2P2 4.2-4.3P2	1/06	In progress.
PR 134-07	FM2	Test-G5-CERES1	Inversion (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	1/06	In progress.
PR 133-07	FM2	Test-G5-CERES1	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	1/06	In progress.
PR 132-07	FM1	Test-G5-CERES1	Clouds (SS4.1-4)	4.1-4.1P4 4.1-4.2P3 4.1-4.2P2 4.2-4.3P2	7/04	In progress. .
PR 131-07	FM1	Test-G5-CERES1	Inversion (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	7/04	In progress.
PR 130-07	FM1	Test-G5-CERES1	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	7/04	In progress.
PR 11-08	FM3, FM4	Beta1-Ed3	Clouds (SS4.1-4)	4.1-4.1P6 4.1-4.2P4 4.1-4.2P5 4.1-4.3P3	10/03, 1/04, 4/04, 7/04, 1/06, and 7/06	Waiting on promotion.
PR 12-08	FM1, FM2	Beta1-Ed3	Clouds (SS4.1-4)	4.1-4.1P6 4.1-4.2P4 4.1-4.2P5 4.1-4.3P3	10/03, 1/04, 4/04, 7/04, 1/06, and 7/06	Waiting on promotion.

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PR 13-08	FM3, FM4	Beta1-Ed3	Inversion (SS4.5-6)	4.5-6.1P5 4.5-6.2P3 4.5-6.4P2	10/03, 1/04, 4/04, 7/04, 1/06, and 7/06	Waiting on promotion.
PR 14-08	FM1, FM2	Beta1-Ed3	Inversion (SS4.5-6)	4.5-6.1P4 4.5-6.2P3 4.5-6.4P2	10/03, 1/04, 4/04, 7/04, 1/06, and 7/06	Waiting on promotion.
PR 10-08	FM1 or FM2	Beta4c	TISA avg (SS 7.1)	7.1.1P1	1/01 - 10/01 seasonal months	Waiting on promotion.
PR 11-08	FM3, FM4	Beta1-Ed3	Clouds (SS4.1-4)	4.1-4.1P6 4.1-4.2P4 4.1-4.2P5 4.1-4.3P3	10/03, 1/04, 4/04, 7/04, and 7/06	Waiting on promotion.
PR 12-08	FM1, FM2	Beta1-Ed3	Clouds (SS4.1-4)	4.1-4.1P6 4.1-4.2P4 4.1-4.2P5 4.1-4.3P3	10/03, 1/04, 4/04, 7/04, and 7/06	Waiting on promotion.
PR 9-08	FM3 or FM4	Beta4c	TISA avg (SS 7.1)	7.1.1P1	1/03 - 10/03 seasonal months	Waiting on promotion.
PR 10B-08	FM1 or FM2	Beta4c	Syn SARB (SS 7.2)	7.2.1P1	1/01	Waiting on promotion.
PR 9B-08	FM3 or FM4	Beta4c	Syn SARB (SS 7.2)	7.2.1P1	1/03	Waiting on promotion.
PR 8-08	FM1 or FM2	Beta4w	TISA avg (SS 7.1)	7.1.1P1	1/01 - 10/01 seasonal months	Waiting on promotion.
PR 7-08	FM3 or FM4	Beta4w	TISA avg (SS 7.1)	7.1.1P1	1/03 - 10/03 seasonal months	Waiting on promotion.
PR 8B-08	FM1 or FM2	Beta4w	Syn SARB (SS 7.2)	7.2.1P1	1/01	Waiting on promotion.
PR 7B-08	FM3 or FM4	Beta4w	Syn SARB (SS 7.2)	7.2.1P1	1/03	Waiting on promotion.
PR 6-08	FM3 V005 MOD08	ValR11	Inst SARB (SS 5)	5.0P1 5.1P2 5.4P2	5/06	Done. 3/17/08.
PR 3-08	FM1 V005 MOD08	ValR11	Inst SARB (SS 5)	5.0P1 5.1P1 5.4P1	5/06	Done. 3/13/08.
PR 111-07	FM1, FM2	ValR9	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	7/02, 1/03	Waiting on Delivery.
PR 113-07	FM3, FM4	ValR9	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	7/02, 1/03, 10/04	Waiting on Delivery.

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 112-07	FM3, FM4	ValR10	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	7/02, 1/03	Waiting on Delivery.
PR 129-07	FM1 or FM2	Beta4	TISA avg (SS 7.1)	7.1.1P1	4/00 – 10/05 seasonal months only	Delivered, waiting on promotion.
PR 128-07	FM1 or FM2	Beta4	Synoptic SARB (SS 7.2)	7.2.1P1	4/00 – 10/05 seasonal months only	Delivered, waiting on promotion.
PR 127-07	FM3 or FM4	Beta4	TISA avg (SS 7.1)	7.1.1P1	7/02 – 10/05 seasonal months only	Delivered, waiting on promotion.
PR 126-07	FM3 or FM4	Beta4	Synoptic SARB (SS 7.2)	7.2.1P1	7/02 – 10/05 seasonal months only	Delivered, waiting on promotion.
Standing requests AM- PR 1-05 to 7-05	Terra	Edition1-CV	BDS/ ERBEl like (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/ ERBEl like (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/ ERBEl like (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 73-07	FM1	Edition2C	TISAgrid (SS6)	6.1P1 6.2P1 6.3P1	3/06 - 6/06	Waiting on SARB (SS5).

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 80-07	FM3	Edition2B	TISAgrid (SS6)	6.1P1 6.2P1 6.3P1	12/31/05 - 4/06	
PR 92-07	FM1, FM2, V005	Edition2A- QC	Clouds (SS4.1-4)	4.1-4.1P4 4.1-4.2P3 4.1-4.2P2 4.2-4.3P2	4/30/06 - 1/1/07	Done. 3/12/08.
PR 91-07	FM1, FM2	Edition2F	Inversion (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	4/30/06 - 1/1/07	Done. 3/12/08.
PR 90-07	FM1, FM2	Edition2F	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	5/06 - 12/06	Done. 3/12/08.
PR 5-08	FM3	Edition2C	Inst SARB (SS 5)	5.0P1 5.1P2 5.4P2	5/1/06 – 12/31/06	Waiting on ValR11 to be approved.
PR 4-08	FM3	Edition2C	TISA gridding (SS 6)	6.1P1 6.2P1 6.3P1	5/1/06 – 12/31/06	Waiting on SARB (SS5).
PR 2-08	FM1	Edition2F	Inst SARB (SS 5)	5.0P1 5.1P1 5.4P1	5/1/06 – 12/31/06	Waiting on ValR11 to be approved.
PR 1-08	FM1	Edition2F	TISA gridding (SS 6)	6.1P1 6.2P1 6.3P1	5/1/06 – 12/31/06	Waiting on SARB (SS5).
PR 108-07	FM1, FM2	Edition2E	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	3/00 - 10/05	Waiting on delivery.
PR 110-07	FM3	Edition2B	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	7/02 - 10/05	Waiting on delivery.
PR 109-07	FM4	Edition2B	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	7/02 - 3/05	Waiting on delivery.

Table 2. March 19, 2008 - 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) • Installed, compiled, and tested the Inversion delivery (SCCR 666) on <i>warlock</i> and released it to the ASDC on March 13. (Ayers) • Updated the TISA Averaging (SCCR 667) and (Draft) TISA Gridding (SCCR 672) Operator's Manuals and the Inversion Test Plan (SCCR 666) and delivered them to the ASDC. (Saunders) • TISA Averaging (SCCR 667) was delivered to CM on March 6. Waiting for promotion of last delivery (SCCR 660) before proceeding with this one. (Ayers) • Updated the TISA Averaging Requirements Log and posted it on the Web. (Saunders) • Reviewing the Word version of the DPC. (Saunders, Ayers) • Updated the CERES Subsystem and Coefficients Delivery Schedules and posted them on the Web. (Ayers, Saunders)

**Table 3. CERES Subsystem Delivery Schedule - March 2008
Next Science Team Meeting - May 6 - 8, 2008 in Newport News**

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)	Certified Platform(s)
TISA Averaging (SCCR 667)	January 18	March 7	March 14	To support Terra Beta4 and Aqua Beta1 AVG, ZAVG, and SYN processing.			<i>warlock & magneto</i>
Instrument (SCCR 610)	March 7	March 21	March 28	To allow processing of both Edition2 and Edition3 data through PGE CER1.3P3.	X		<i>warlock</i>
TISA Gridding (SCCR 672)	March 14	March 28	April 4	Support Beta1 processing of new ISCCP-like, crosstrack-only data product based on SSF. Product name: CER_ISCCP-D2like_Terra/Aqua-FM1/2/3/4-MODIS_CC.YYYYMM. New PGE CER9.0P1.		X	<i>warlock & magneto</i>
GGEO (SCCR 653)	April 18	May 2	May 9	Final coefficient delivery for 11/05 - 12/05. Initial coefficient delivery for 1/06 - 12/06. Code delivery to support Beta10 GGEO processing.			<i>warlock & magneto</i>
TISA Averaging (SCCR 650)	April 18	May 2	May 9	Support Terra Edition2E and Aqua Edition2B SRBAVG1-3 and Daily processing. New PGEs: CER10.0P1, CER10.0P2, & CER10.0P3.		X	<i>warlock & magneto</i>

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Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)	Certified Platform(s)
GGEO	May 2	May 16	May 23	Support Beta1 processing of new ISCCP-like, crosstrack-only, GEO data product based on GGEO. Product name: CER_ISCCP-D2like_GEO_CC.YYYYMM. New PGE CER11.7P1.		X	<i>warlock & magneto</i>
Regrid MOA	May			To process the G5 CERES data that will be coming to support Edition3.			<i>warlock & magneto</i>
Clouds	Fall			Support TRMM VIRS-only processing of August 2001 forward.			<i>warlock & magneto</i>
Inversion	Two to four weeks after Clouds			Support TRMM VIRS-only processing.			<i>warlock & magneto</i>
Inversion	Fall			Support Beta2-Edition3 processing.			<i>warlock & magneto</i>
TISA Gridding	Two weeks after Inversion			PMOA delivery dealing with overlap file checking and reading G5-CERES MOA input. Also, support Beta2-Edition3 SFC processing.			<i>warlock & magneto</i>

**Table 3. CERES Subsystem Delivery Schedule - March 2008
Next Science Team Meeting - May 6 - 8, 2008 in Newport News**

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)
SARB		???		MATCH (Collection 5) data files for November - December 2007.			<i>warlock & magneto</i>
Instrument (SCCR 641)		???		Delivery of simulated IES PGE to support TRMM VIRS-only processing. New PGE: CER1.0P1.		X	<i>warlock & magneto</i>

Table 4. CERES Coefficients Delivery Schedule - March 2008

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	Certified Platform(s)
Instrument/ERBE-like	N/A	May		Terra and Aqua Edition2 gains and spectral response function files January - August 2007.	<i>warlock/magneto</i>
GGEO	August			Final coefficients for 1/06 - 12/06.	<i>warlock/magneto</i>
Instrument/ERBE-like	N/A	???		Terra Edition3 gains and spectral response function files for February 2000 - June 2005.	<i>warlock/magneto</i>
Instrument/ERBE-like	N/A	???		Aqua Edition3 gains and spectral response function files for June 2002 - March 2005.	<i>warlock/magneto</i>
Instrument/ERBE-like	N/A	???		Terra Edition3 gains and spectral response function files for July 2005 - December 2005.	<i>warlock/magneto</i>
Instrument/ERBE-like	N/A	???		Aqua Edition3 gains and spectral response function files for April 2005 - December 2005.	<i>warlock/magneto</i>
Instrument/ERBE-like	N/A	???		TRMM Edition3 gains and spectral response function files for December 1997 - April 2000.	<i>warlock/magneto</i>

Table 5. SCCR Activity March 3 at 2:00 p.m. – March 17 at 1:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
667		X				8	10	
669				X		4.5 & 4.6		
670				X		5		
671				X		10		
672	X					9	12	

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

CERES Software Configuration Change Request Submittal

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Subsystem: TISAavg8.0

SCCR Date: 01/23/2008

SCCR Number: 667

Parameter Change: (X) YES () NO

Description of Change (Science):

Req#8.16 Add the twilight flux to the observed SW all-sky monthly mean regional flux and to the tuned TOA level 1 all-sky SW flux

Req#8.17 Add the clear-sky twilight flux table. Use the clear-sky twilight flux to add to the observed SW clear-sky monthly mean flux and to the tuned TOA level 1 clear-sky SW flux

Req#8.19 Remove all clear-sky LW and SW fluxes that were added to the TSI so that the clear-sky and all-sky were identical when the cloud amount was zero.

Req#8.20 Linearly interpolate the zonal monthly clear-sky LW fluxes

Req#8.21 Use the incoming solar and the zonal monthly SW fluxes to interpolate the default zonal monthly SW fluxes.

Reason for Change (Science):

Improve the fluxes to match with the monthly average fluxes from SRBAVG

Description of Change (non-Science):

Req#8.22 Change parameter names to match with the names in DPC.

Req#8.23 Modify code to run on IBM cluster.

Reason for Change (non-Science):

Make the code to be able to run on IBM cluster and the output data match with data from SGI runs.

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

Req#8.18 Add three new parameters: Total-sky UVB surface flux up, snow grain size, match total aerosol optical depth at 0.55 nm

Reason for Parameter Change:
New parameters from SYNI

Affected PGEs in this Subsystem:
CER8.1P1

Estimated Time to Complete Change : 2 weeks
Planned Delivery Date: February 1, 2008
List Affected Subsystems and PGE Names: Subsystem 8 CER8.2P1

Date: 02/08/2008 Status: APPROVED

Originator: NGUYEN, CATHY (SSAI)

=====
ADDITIONAL CHANGES TO SCCR NO. 667:
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Parameter Change: () YES (X) NO

Description of Change (Science):
Req#8.24 Clear-sky TOA SW fluxes of regions with one observe per day or less than 20 observes per month are changed to be defaults.

Reason for Change (Science):
To obtain better regional averages

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:
CER8.1P1

Estimated Time to Complete Change: Completed
Planned Delivery Date: March 07, 2008
List Affected Subsystems and PGE Names: None

Date & Time: 2008-03-06 09:47:02

Originator: NGUYEN, CATHY (SSAI)

CERES Software Configuration Change Request Submittal

Subsystem: TISAgrid9.0 SCCR Date & TIME: 2008-03-11 13:11:49 SCCR No.: 672

Parameter Change: (X) YES () NO

Description of Change (Science):

Requirement # 9-0.0

Initial delivery of new PGE CER9.0P1 to process and create ISCCP-D2like, crosstrack-only data product based on SSF.

Reason for Change (Science):

Requirement # 9-0.0

CERES science team has decided to provide this new data set to user community.

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:

ISCCP-D2like data product contains D2-like 9 cloud types and D1-like 42 Cloud type Fractions. The complete list of parameters is listed in DPC-ISCCP-D2like R4V1 document.

Reason for Parameter Change:

New CERES data product.

Affected PGEs in this Subsystem:

CER9.0P1

Estimated Time to Complete Change : 3 months

Planned Delivery Date: March 28, 2008

List Affected Subsystems and PGE Names: TISA Gridding - PGE CER9.0P1

Originator: RAJU, RAJA (SSAI)

Table 6. March 19, 2008 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
1.0	Cooper (Walikainen)	<ul style="list-style-type: none"> • Continued to track receipt of Terra and Aqua Level-0, Ephemeris and Attitude data. (Cooper, Snyder) • All PGEs have now been updated to work in the new directory structure and all test scripts are now working with the exception of the clean up script for CER1.3P3, which is being worked. Updates to the Test Plan are now being made. (Cooper) 	
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) • Regenerating the alpha-0 unfiltering coefficients for Aqua. The original alpha-0 used the wrong static spectral responses. The alpha approach to determine Edition3 gains and spectral responses differs from the beta approach in that it works on each instrument separately. (Walikainen and Szewczyk) • Currently, we use a relatively stable statistic for our validation : tropical mean (TM). TM is the average all-sky nadir longwave radiance for tropical ocean scenes. To date, we only have TM for CERES. The Science Team wishes to compute a TM for ERBE data. We are examining code that will allow us to convert an S8 into an ES8N. Once this is working properly we may need to have the ERBS S8 data staged. (Walikainen and Thomas) • Examining nighttime longwave Edition1-CV flux differences (FM2-FM1) we see a scene dependence. This suggests that the total channel spectral response (TSR) for FM2 or FM1 or both needs to be changed. We are taking a systematic approach to changing the TSR in the 5 to 15 micron wavelength range. Hopefully, these numerical experiments will allow us to suggest a reasonable change which removes the scene dispersion. (Walikainen and Szewczyk) 	
3.0	Walikainen (Cooper)	Combined with above.	

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SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Brown)	<ul style="list-style-type: none"> • Converted the Clouds subsystem validation scripts for all PGEs to PERL. (R. Brown) • QC global images and statistics for all Terra Edition2A-QC data and posted results on the web. Updated QC Viewer web scripts to be able to compare with Terra Edition2A-QC and Aqua Edition1B data. (R. Brown) • Worked on bringing CALIPSO Cloud Profiles into A-train Clouds. (Sun-Mack) • Prepared CALIPSO STM talk and poster. (Sun-Mack) • Attended CALIPSO STM. (Sun-Mack) 	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller (Sun-Mack)	<ul style="list-style-type: none"> • Prepared white paper on CERES CPU requirements and manpower needs and timing for CERES code migration. (Miller) • Continued NEWS updates to Edition3 Convolution code. The profile grouping algorithm has been implemented and nineteen variables are calculated. Initial testing was also performed. (Miller) • Monitored Terra Edition2A-QC production. Twelve and eight hours were not produced for November and December 2006 respectively. Only three hours did not involve unavailable IES. One hour could not open CloudVis temporary file and the other two were a small IES and problem in convolution code. (Miller) 	

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4.5	Sothcott	<ul style="list-style-type: none"> • Attended weekly SOFA working group meetings. (Sothcott) • Completed the Inversion Test Plan and completed testing of the Edition3Beta1 software. Delivered Edition3Beta1 for Terra and Aqua on March 7, 2008. (Sothcott) • Currently working to transfer the Operator's Manual to Excel spreadsheet form. (Sothcott) • Currently working to retrieve several months of Subset data from the archive and store on the SAN to support ADM and Spectral analysis. (Sothcott) 	
4.6	Sothcott	Combined with above.	
5.0	Caldwell (Coleman)	<ul style="list-style-type: none"> • Beginning SCF runs of selected days of G5 sample months. (Caldwell) 	
7.2	Caldwell (Coleman)	<ul style="list-style-type: none"> • No new updates. 	
12.0	Caldwell (Coleman)	<ul style="list-style-type: none"> • Continuing development of Edition3 code. (Caldwell). 	
7.1	Nguyen (Raju)	<ul style="list-style-type: none"> • No new updates. (Nguyen) 	
8.0	Nguyen (Raju)	<ul style="list-style-type: none"> • Delivered the code and documentations to CM for testing. (Nguyen) 	

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10.0	Nguyen (Raju)	<ul style="list-style-type: none"> • Replaced the old CERES angular distribution models table with the new one. (Nguyen) • Added clear-sky twilight correction table. (Nguyen) • Reported to Shashi Gupta the case where the net surface flux is higher than the downwelling surface SW flux for model B. (Nguyen) • Ran July 2002 to check for the defaults downwelling and net surface SW fluxes when csza is greater than zeros. (Nguyen) • Write the program to do the histogram for the non-zero csza and defaults net fluxes to help Dave Doelling to determine the cutoff range of the csza. (Nguyen) • Ran code on Mac and SGI to compare the outputs. (Nguyen) 	
6.0	Raju (Nguyen)	<ul style="list-style-type: none"> • Made a few more modifications to Description/Abstract document. (Raju) 	
9.0	Raju (Nguyen)	<ul style="list-style-type: none"> • Processed July 04, Jan 06 G5 MOA data through PGE CER9.1P1 at SCF and created PMOA files. Sent the output files to ASDC for processing SS9.0. (Raju) • Integrated science algorithm modules developed by Moguo into PGE CER9.0P1 software. Compiled and ran July 04 FM1 data through PGE and created HDF product for science verification. (Raju) • Updated SS9.0 Operator's manual to include PGE 9.0 information and sent the document to CM. (Raju) • Preparing for the PGE delivery in new directory structure on both Linux/SGI platforms. (Raju) 	

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11.0	Raju (Nguyen)	<ul style="list-style-type: none">• Started processing July 04 MCIDAS data using G5 MOA files at SCF. (Raju)• Making temporary modifications to CER11.1P10 PCF scripts to access cloud PCF scripts from ggeo/CER11.1P10/bin directory instead of accessing them from cloud directory. This modification is needed to access Edition2 version of cloud inputs. (Raju)• Set up code and directory for Moguo Sun to work on the GGEO-ISCCP-like product. (Nguyen)	