

April 30, 2008 - System Issues and Status

**Table 1: Process Strategy/Coleman as of 4/28/08
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	
15-08	FM2	Test-G5-CERES2	Clouds (SS4.1-4)	4.1-4.1P4 4.1-4.2P3	1/06/06 1/06/29	Done. 4/08
16-08	FM2	Test-C4G5-CERES2	Clouds (SS4.1-4)	4.1-4.1P4 4.1-4.2P3	1/06/06 1/06/29	Done. 4/18/08
PR 10-08	FM1 or FM2	Beta4c	TISA avg (SS 7.1)	7.1.1P1	1/01 - 10/01 seasonal months	Redelivered. Waiting on promotion.
PR 9-08	FM3 or FM4	Beta4c	TISA avg (SS 7.1)	7.1.1P1	1/03 - 10/03 seasonal months	Redelivered. Waiting on promotion.
PR 8-08	FM1 or FM2	Beta4w	TISA avg (SS 7.1)	7.1.1P1	1/01 - 10/01 seasonal months	Redelivered. Waiting on promotion.
PR 7-08	FM3 or FM4	Beta4w	TISA avg (SS 7.1)	7.1.1P1	1/03 - 10/03 seasonal months	Redelivered. Waiting on promotion.
PR 10B-08	FM1 or FM2	Beta4c	Syn SARB (SS 7.2)	7.2.1P1	1/01	Waiting on Beta4c TSI.
PR 9B-08	FM3 or FM4	Beta4c	Syn SARB (SS 7.2)	7.2.1P1	1/03	Waiting on Beta4c TSI.
PR 8B-08	FM1 or FM2	Beta4w	Syn SARB (SS 7.2)	7.2.1P1	1/01	Low possibility of rerun.
PR 7B-08	FM3 or FM4	Beta4w	Syn SARB (SS 7.2)	7.2.1P1	1/03	Low possibility of rerun.
PR 129-07	FM1 or FM2	Beta4	TISA avg (SS 7.1)	7.1.1P1	4/00 – 10/05 seasonal months only	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	Waiting on TSI.
PR 127-07	FM3 or FM4	Beta4	TISA avg (SS 7.1)	7.1.1P1	7/02 – 10/05 seasonal months only	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	Waiting on TSI.

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Standing requests AM- PR 1-05 to 7-05	Terra	Edition1-CV	BDS/ ERBELike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.1P1 2.2P1 2.3P1 2.3P2 3.1P1	Standing request	These PRs replace standing requests AM- PR 1-00 to 7-00.
Standing requests PM-PRs 15-05 to 18-05	FM3	Edition1-CV	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	Standing request	These PRs replace standing requests PM-PRs 1-05 to 4-05.
Standing requests PM-PRs 11-05 to 14-05	FM4	Ed1-CV- NoSW	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	Standing request	These PRs replace standing requests PM-PRs 7-05 to 10-05.
PR 5-08	FM3	Edition2C	Inst SARB (SS 5)	5.0P1 5.1P2 5.4P2	5/1/06 – 12/31/06	Done. 4/28/08.
PR 4-08	FM3	Edition2C	TISA gridding (SS 6)	6.1P1 6.2P1 6.3P1	5/1/06 – 12/31/06	In progress
PR 2-08	FM1	Edition2F	Inst SARB (SS 5)	5.0P1 5.1P1 5.4P1	5/1/06 – 12/31/06	In progress..
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 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	Redelivered, waiting on promotion.

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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	Redelivered, waiting on promotion.
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	Delivered, 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	Delivered, waiting on promotion.
PR 111-07	FM1, FM2	ValR9	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	7/02, 1/03	Waiting on Delivery.
PR 108-07	FM1, FM2	Edition2E	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	3/00 - 10/05	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.
PR 112-07	FM3, FM4	ValR10	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	7/02, 1/03	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. April 16, 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 TISA Gridding (SCCR 672) on <i>warlock</i> and <i>magneto</i>, compiled, tested, and released it to the ASDC. (Ayers) • Delivered the updated TISA Gridding (SCCR 672) Test Plan and Operator’s Manual to the ASDC. (Saunders) • Installed updated TISA Averaging (SCCR 660) source code on <i>warlock</i> and <i>magneto</i> twice. Each time the code was recompiled, tested, and released to the ASDC. (Ayers) • Testing TISA Averaging (SCCR 660) and Clouds (SCCR 658) after receiving updated code. (Ayers) • Updated the Clouds Operator’s Manual (SCCR 658) and delivered it to the ASDC. (Saunders) • Testing Instrument (SCCR 610). (Ayers) • The Data Products Catalog and all of the individual sections are now in Word. A new Web site (http://science.larc.nasa.gov/ceres/DPC/DPC_current/index.html) was created and all of the files were posted there. The CERES System-level documents were converted from FrameMaker to Word. (Saunders, Ayers) • Updated Operator’s Manuals and the File Management Policy to ensure that “meta” is in all of the appropriate places in both documents. Sent an email to the ASDC summarizing the updates to “meta” in the FMP. (Ayers, Saunders) • Updated the CERES Subsystem and Coefficients Delivery Schedules and posted them on the Web. (Ayers, Saunders)

**Table 3. CERES Subsystem Delivery Schedule - April 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>
Clouds	April 16	April 25	May 2	Delta delivery to process Aqua Ed2C-NewIGBP data set.			<i>warlock</i>
TISA Averaging (SCCR 650)	May 2	May 16	May 23	Support Terra Edition2E and Aqua Edition2B SRBAVG1-3 and Daily processing. New PGEs: CER10.0P1, CER10.0P2, & CER10.0P3.		X	<i>warlock & magneto</i>
GGEO	May 16	May 30	June 6	Support Beta1 processing of new ISCCP-like, crosstrack-only, GEO data product based on GGEO. New PGE CER11.7P1.		X	<i>warlock & magneto</i>
GGEO (SCCR 653)	May 16	May 30	June 6	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>

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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)
ERBE-like		August		To process on <i>magneto</i> .			<i>warlock & magneto</i>
Regrid MOA		Fall		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>
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 - April 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 April 15 at 11:00 a.m. – April 28 at 12:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
610		X				1	8	
667			X			8		
672		X				9	12	
673	X					4.1 – 4.4	14	

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

CERES Software Configuration Change Request Submittal

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Subsystem: Instrument

SCCR Date: 01/13/2006

SCCR Number: 610

Parameter Change: () YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
Updates for Requirement #1-10:

1) Update PGE CER1.1P1 thru CER1.1P6 and CER1.3P3. Update the routine that creates the IES Header, to check if a leap second has occurred.

Reason for Change (non-Science):
Updates for Requirement #1-10

1) The addition of a leap second on Dec. 31, 2005, caused a calculated time for the first hour of the next day to be set to 2005-12-31T23:59:60.000000Z, which is incorrect. The routine that calculates this time was updated to check the seconds field, if the value of seconds is 60, the routine adds 1 sec. to cause the time calculated to be set to 2006-01-01T00:00:00.000000Z.

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

Reason for Parameter Change:
N/A

Affected PGEs in this Subsystem:
CER1.1P1 thru CER1.1P6 and CER1.3P3

Estimated Time to Complete Change : 1 day
Planned Delivery Date : No delivery planned at this time
List Affected Subsystems and PGE Names: No impact, HR 23 of 12/31/2005 currently not being processed.

Date: 01/25/2006 Status: UNKNOWN

Originator: COOPER, DENISE L. (SSAI)

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ADDITIONAL CHANGES TO SCCR NO. 610:

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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):
For Reqt. # 1-12:

- 1) Update all PGEs as needed to run on all available production/validation environments: SGI, Mac & Linux.
- 2) Update all relevant ASCII File and PCF generators and their associated run scripts from C-shell to Perl.

Reason for Change (non-Science):
For Reqt. # 1-12:

- 1) Update all software to allow compilation and processing on all of the available production/validation environments: SGI, Mac & Linux clusters. Only minor changes appear to be necessary.
- 2) As a result of porting the software to the cluster environments, updating these scripts to Perl will facilitate their running correctly in all the different environments.

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

Reason for Parameter Change:
N/A

Affected PGEs in this Subsystem:
CER1.1P1 thru CER1.1P6, CER1.3P1 thru CER1.3P3

Estimated Time to Complete Change : 4 mos.
Planned Delivery Date : Late 2006

List Affected Subsystems and PGE Names: No impact on other subsystems.

Date & Time: 2006-08-03 14:47:07

Originator: COOPER, DENISE L. (SSAI)

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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):
Requirement #1-16:

An error was detected during production processing for Terra-FM2 for data date 2/08/2007. The error caused the code to end with a fatal error. The error was traced to a problem in the code related to errors in the input data due to a possible bit-flip.

Reason for Change (non-Science):
Requirement #1-16:

The error was traced to a DAC update on the SW channel at 12:05:06 UT. The sample number in the input data for the start of the DAC update was corrupted and a value of 657 was returned instead of the expected 644. The routine to calculate the value of the shift required 3 samples after 657, which is outside the array boundaries of 0 - 659, which caused an exception to be raised and the code to end with a fatal error. A fix to ignore the DAC update flag, by returning a CERES fill-value when the given sample number is ≥ 657 was implemented and tested. This fix allows processing to continue if this event should ever occur again. This is the only time that this has happened for any of the instruments over the last 7 yrs.

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

Reason for Parameter Change:
N/A

Affected PGEs in this Subsystem:
CER1.1P1 thru CER1.1P6 and CER1.3P3

Estimated Time to Complete Change : 1 day
Planned Delivery Date : July 2007
List Affected Subsystems and PGE Names: No impact on other subsystems.

Date & Time: 2007-02-20 14:46:35

Originator: COOPER, DENISE L. (SSAI)

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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):
Req.#1-14:

Allow PGE CER1.3P3 to process using Edition2 or the new Edition3 Count Conversion Data. This requires the delivery of a new Edition3 version of the Count Conversion Data file and updating the CER1.3P3_input_find.csh script to add a parameter to indicate whether you want to process Edition2 or Edition3 data.

Reason for Change (non-Science):
Req. #1-14:

Processing of Edition2 data may continue beyond the current cut-off of 12/31/2005. If this occurs, we may be processing both Edition2 and Edition3 data at the same time. That would require that we have two versions of the Count Conversion Data files for each instrument and updates to the CER1.3P3_input_find.csh script to allow the user to tell the script which set of count conversion data files we want to use, Edition2 or Edition3. This will also allow us to reprocess and Edition2 data that might become corrupted or otherwise unavailable.

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

Reason for Parameter Change:
N/A

Affected PGEs in this Subsystem:
CER1.3P3

Estimated Time to Complete Change : 2 days
Planned Delivery Date : July 2007
List Affected Subsystems and PGE Names: None

Date & Time: 2007-03-05 13:30:43

Originator: COOPER, DENISE L. (SSAI)

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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):

Req. #1-17

Deliver the existing Instrument PGEs in the new directory structure as defined by the SEC. This constitutes a change from Rel4 to Rel5 for all documentation.

Reason for Change (non-Science):

Req. #1-17

As this is the last delivery of the Ada code for Instrument, it was decided to move to the new directory structure to facilitate the conversion of individual PGEs from Ada to C++.

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 existing Instrument PGEs

Estimated Time to Complete Change : complete

Planned Delivery Date : 4/11/2008

List Affected Subsystems and PGE Names: None

Date & Time: 2008-04-22 18:08:47

Originator: COOPER, DENISE L. (SSAI)

CERES Software Configuration Change Request Submittal

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Subsystem: TISAGrid9.0 SCCR Date: 03/11/2008 SCCR Number: 672

Parameter Change: 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

Date: 04/03/2008 Status: UNKNOWN

Originator: RAJU, RAJA (SSAI)

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ADDITIONAL CHANGES TO SCCR NO. 672:

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Parameter Change: YES NO

Description of Change (Science):

N/A

Reason for Change (Science):

N/A

Description of Change (non-Science):

Requirement # 9-0.1

The delivery of the new PGE CER9.0P1 is the first delivery of Release 5 TISA Gridding Subsystem.

Reason for Change (non-Science):

Requirement # 9-0.1

PGE CER9.0P1 was delivered in the new directory structure.

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

N/A

Reason for Parameter Change:

N/A

Affected PGEs in this Subsystem:

N/A

Estimated Time to Complete Change : N/A

Planned Delivery Date : PGE was delivered on March 28, 2008

List Affected Subsystems and PGE Names: N/A

Date & Time: 2008-04-21 10:14:04

Originator: RAJU, RAJA (SSAI)

CERES Software Configuration Change Request Submittal

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Subsystem: Clouds4.1-3 SCCR Date & TIME: 2008-04-18 16:53:04 SCCR No.: 673

Parameter Change: (X) YES () NO

Description of Change (Science):

New IGBP map based on MODIS Collection 004 land data will be used.

Reason for Change (Science):

This may allow the determination of climate change caused by land use changes.

Description of Change (non-Science):

1. PCF generations script will be modified to select new IGBP map when environmental variable MODIS_IGBP is set to YES.
2. FM4 production strategy will be changed from Edition2 to Ed2-NoSW when INST is FM4.

Reason for Change (non-Science):

1. The ability to select between the old and new IGBP map is needed.
2. When FM4 IES is only available during production when both Aqua instrument is requested, the production strategy needs to be modified.

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

The Single Scanner Footprint (SSF) is being changed.

The new IGBP map will result in differences in parameters that algorithm varies based on it. Surface type index and coverage (SSF-25 and SSF-26), Clear Footprint Area (SSF-66 through SSF-79), Cloudy Footprint Area (SSF-81 through SSF-114).

Reason for Parameter Change:

Cloud retrieval selects algorithms based on IGBP type. Additionally, updates to clear sky map are a function of IGBP type. The difference in the clear sky map will feed into cloud mask and properties.

Affected PGEs in this Subsystem:

CER4.1-4.1P4 and CER4.1-4.1P5

Estimated Time to Complete Change : one week

Planned Delivery Date : 20080425

List Affected Subsystems and PGE Names: Inversion 4.5-6.1P2 and 4.5-6.1P3

Originator: MILLER, WALTER F. (SSAI)

Table 6. April 30, 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) • Waiting for delivery to get through CERES CM. (Cooper) • Unable to use TK5.2.15v1, due to issues with metadata for HDF files. (Cooper) • Work continues on Level-0/eph/att preprocessor for NPP. Still waiting to be able to access eph/att data format along with the HDF5 wrapper format. (Alford) • Began work to create a new C-version of the CERESlib metadata routines, to improve access to these routines from both C++ and Ada. (Naseer) 	
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) • Began testing Toolkit 15 on THUNDER. The only concern is the ES8 does not get compressed. (Walikainen) • Created Terra Edition3 spectral correction coefficients (labeled alpha3). Alpha3 uses a month-to-month regression, previous alphas used a start-to-end of mission regression. (Walikainen and Szewczyk) 	
3.0	Walikainen (Cooper)	Combined with above.	
4.1	Sun-Mack (Brown)	<ul style="list-style-type: none"> • Worked on Edition3 Beta1 vs. Ed2 for CERES STM. (R. Brown, Chen, Trepte, Sun-Mack) • Worked on G4/G5 comparison. (Chen) • Created IGBP/Surface Type Classification web page and modified the QC Clearsky SZA/IGBP code to add a reference to the page in the Web output. (R. Brown) • A-Train with enhanced algorithm. (Gibson, Sun-Mack). 	

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SS No.	SS Lead	Status	Problems
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"> • New expected output PCFs were created for SCCR 658 delivery. The Operator's Manual was updated with correction identified earlier in testing. (Miller) • Generated a day of combined CALIPSO, CloudSat, CERES, and MODIS (C3M) data for variables that were available in the March 08 dataset. Several issues due to data quirks were resolved in this process. (Miller) • The PCF generator was updated and run scripts for SGE were produced. (Miller) • A shell program was created to aide in reading the new C3M data file created. Another program allows using both the CCCM and SSF at the same time. (Miller) • Started Toolkit 5.2.15 testing. Clouds main processor, daily QC, monthly QC, and clear sky update for collection 005 (CER4.1-4.1P4, CER4.1-4.1P5, CER4.1-4.2P3, CER4.1-4.3P2, CER4.1-4.2P2) were all successfully tested. (Miller) 	
4.5	Sothcott	<ul style="list-style-type: none"> • Attended weekly SOFA working group meetings. (Sothcott) • Tested Toolkit version 5.2.15 for Inversion software across Editions 2 and 3 for both SGIs and MACs. Problems occur in the generation of the HDF file for all test conditions. (Sothcott) • Continued to work issues related to the conversion of Inversion software to the MAC cluster. (Sothcott) 	
4.6	Sothcott	Combined with above.	
5.0	Caldwell (Coleman)	<ul style="list-style-type: none"> • Attempting to run PGE 5.1P1 on non-SGI systems. (Caldwell) • Posted several months of Edition2C plots on SARB website. (Caldwell) • Testing with Toolkit Version 15. (Caldwell) 	
7.2	Caldwell (Coleman)	<ul style="list-style-type: none"> • No new updates. 	

Table 6. April 30, 2008 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
12.0	Caldwell (Coleman)	<ul style="list-style-type: none"> No new updates. 	
7.1	Nguyen (Raju)	<ul style="list-style-type: none"> The new number of GGEO clear-sky LW measurement and the hour boxes were initialized to fix the core dump in September 2001 and 2003 runs on <i>magneto</i>. (Nguyen) Added the surface percent coverage initialization. (Nguyen) Sent TSI code to CM for re-testing. (Nguyen) 	
8.0	Nguyen (Raju)	<ul style="list-style-type: none"> Tested the new toolkit on <i>nagacity</i> and on <i>thunder</i>. (Nguyen) 	
10.0	Nguyen (Raju)	<ul style="list-style-type: none"> Added the glint check in the GGEO ISCCP code for Moguo to rerun his test cases. (Nguyen) Ran the four seasonal months of SRBAVG2 for Moguo to compare with the new results from GGEO –ISCCP-like products. (Nguyen) Converted the webplot code to work on <i>magneto</i>. (Nguyen) Searched for the cause of the differences in clear-sky GGEO LW when comparing July 2007 Edition2D SRBAVG with the current SRBAVG. Reported the problems to Dave Doelling. (Nguyen) Run tests of the new toolkit on <i>nagacity</i> and on <i>thunder</i>. (Nguyen) Ran July 2002 SRBAVGs for Dave Doelling to validate. (Nguyen) Preparing documentations for the upcoming delivery. (Nguyen) 	
6.0	Raju (Nguyen)	<ul style="list-style-type: none"> Started separating each PGE and reorganizing the software to conform with updated directory structure developed by the SEC. (Raju) 	

Table 6. April 30, 2008 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
9.0	Raju (Nguyen)	<ul style="list-style-type: none"> • Completed reorganizing the PGEs CER9.0 – CER9.4 software to conform with updated directory structure. Tested PGEs CER9.0P1 – CER9.3P1 using TK 5.2.15 version on MAC only and CER9.4 on MAC and SGI. (Raju) • As per Moguo’s request, set up PGE 9.0 directory for him to run jobs independently. Assisted him in preparing for the CERES science team meeting. (Raju) 	
11.0	Raju (Nguyen)	<ul style="list-style-type: none"> • Continued to make test runs for MTSAT validations and producing results for Dave Doelling. (Raju) • Completed checking February 08 MTSAT1_10bit data images on <i>samantha</i>. Stopped checking due to lack of disk space to save original images (Raju) • Work started to test PGEs using TK5.2.15 version of Toolkit. (Raju) 	

Table 1: PGE Current Events Status Table

Subsystem ID	PGE ID	Current PGE Production Status ¹	Scripts NOMAD compliant ? (Y/N)	Scripts EXIT CODE compliant ? (Y/N)	Prod. Platform (W, M, M*) ²	TK ver15 Tested? (Y/N/ InProg)	Op Man In Excel? (Y, N, or Review)	Comments	
Instrument - 1	CER1.0P1	SSI&T	Y	Y	Planning W, M ¹	N	Review		
	CER1.1P1	SSI&T	Y	Y	W	InProg	Review		
	CER1.1P2	Disabled	N/A	N/A	N/A	N/A	Review	Remain disabled	
	CER1.1P3	SSI&T	Y	Y	W	InProg	Review		
	CER1.1P4	Disabled	N/A	N/A	N/A	N/A	Review	Remain disabled	
	CER1.1P5	SSI&T	Y	Y	W	InProg	Review		
	CER1.1P6	Disabled	N/A	N/A	N/A	N/A	Review	Remain disabled	
	CER1.2P1	SSI&T	Y	Y	W	N	Review		
	CER1.3P1	SSI&T	Y	Y	W	N	Review		
	CER1.3P2	SSI&T	Y	Y	W	N	Review		
	CER1.3P3	SSI&T	Y	Y	W	Y	Review		
	ERBE-like - 2	CER2.1P1	Active	N	N	W	InProg	N	
		CER2.2P1	Active	N	Y	W	InProg	N	
CER2.3P1		Active	N	Y	W	InProg	N		
CER2.3P2		Active	N	Y	W	InProg	N		
CER2.4P1		Active	N	Y	W	Y	N		
ERBE-like - 3	CER3.1P1	Active	N	Y	W	InProg	N		
	CER3.2P1	Active	N	Y	W	InProg	N		
	CER3.2P2	Disabled	N/A	N/A	N/A	N/A	N/A		
Clouds	CER4.1-4.0P1	Active	Y	Y	W	Y	N		
4.1-4	CER4.1-4.1P1	Disabled	N/A	Y	W	N/A	N/A	PCF script email / eos + operations and Sunny	
	CER4.1-4.1P2	Active	N	Y	W	N	N		
	CER4.1-4.1P3	Active	N	Y	W	N	N		
	CER4.1-4.1P4	Active	Y	Y	W	InProg	N	PCF to eos operations	
	CER4.1-4.1P5	Active	Y	Y	W	InProg	N	PCF to eos operations	
	CER4.1-4.1P6	Delivered	Y	Y	W	InProg	N		
	CER4.1-4.2P1	Active	Y	Y	W	N	N		
	CER4.1-4.2P2	Active	Y	Y	W	InProg	N		
	CER4.1-4.2P3	Active	Y	Y	W	InProg	N		
	CER4.1-4.2P4	Delivered	Y	Y	W	N	N		
	CER4.1-4.2P5	Delivered	Y	Y	W	N	N		
	CER4.1-4.3P1	Active	Y	Y	W	N	N		

	CER4.1-4.3P2	Active	Y	Y	W	InProg	N	
	CER4.1-4.3P3	Delivered	Y	Y	W	N	N	
	CER4.1-4.4P1	Disabled	N	Y	W	N	N	In Op Man, but not in FMP. Delete?
Inversion/SOFA	CER4.5-6.1P1	Disabled	N/A	N/A	N/A	N/A	Review	Probably not to be reactivated
4.5-6	CER4.5-6.1P2	Active	Y	Y	W	InProg	Review	
	CER4.5-6.1P3	Active	Y	Y	W	InProg	Review	
	CER4.5-6.1P4	SSI&T	Y	Y	W	InProg	Review	Terra Main Ed3 version of 1P2
	CER4.5-6.1P5	SSI&T	Y	Y	W	InProg	Review	Aqua Main Ed3 version of 1P3
	CER4.5-6.2P1	Disabled	N/A	N/A	N/A	N/A	Review	Probably not to be reactivated
	CER4.5-6.2P2	Active	Y	Y	W	Y	Review	
	CER4.5-6.2P3	SSI&T	Y	Y	W	Y	Review	Subset postprocessor for Terra and Aqua (Ed3 version of 2P2)
	CER4.5-6.3P1	Disabled	N/A	N/A	N/A	N/A	Review	Probably not to be reactivated
	CER4.5-6.3P2	Active	Y	Y	W	InProg	Review	
	CER4.5-6.3P3	Active	Y	Y	W	InProg	Review	
	CER4.5-6.4P1	Active	Y	Y	W	N	Review	
	CER4.5-6.4P2	SSI&T	Y	Y	W	N	Review	Monthly validation site (Ed3 for 4P1)
	CER4.5-6.6P2	Active	Y	Y	W	InProg	Review	
	CER4.5-6.6P3	Active	Y	Y	W	InProg	Review	
SARB - 5	CER5.0P1	Active	N	Y	W, M	N	N	
	CER5.1P1	Active	N	Y	W	N	N	
	CER5.1P2	Active	N	Y	M	N	N	
	CER5.2P1	Deleted	N/A	N/A	N/A	N/A	N/A	
	CER5.3P1	Disabled	N/A	N/A	N/A	N/A	N/A	
	CER5.4P1	Active	N	Y	W	N	N	
	CER5.4P2	Active	N	Y	W	N	N	
TISA Grid - 6	CER6.1P1	Active	Y	Y	W	N	N	
	CER6.2P1	Active	Y	Y	W	N	N	
	CER6.3P1	Active	Y	Y	W	N	N	
TISA Avg - 7.1	CER7.1.1P1	SSI&T	Y	Y	W, M	N	N	
SARB - 7.2	CER7.2.1P1	Active	N	Y	W, M	N	N	
	CER7.2.2P1	Never Was	N/A	N/A	N/A	N/A	N/A	
TISA Avg - 8	CER8.1P1	SSI&T	Y	Y	Planning W, M ¹	N	N	
	CER8.2P1	Active	Y	Y	Planning W, M ¹	N	N	Merging with CER8.1P1 with upcoming delivery

TISA Grid - 9	CER9.0P1	SSI&T	Y	Y	Planning W, M ¹	N	N	
	CER9.1P1	Active	Y	Y	W	N	N	
	CER9.2P1	Active	Y	Y	W	N	N	
	CER9.3P1	Active	Y	Y	W	N	N	
	CER9.4P1	Active	Y	Y	W	N	N	
TISA Avg - 10	CER10.0P1	Developing	Y	Y	Planning W, M ¹	N	N	
	CER10.0P2	Developing	Y	Y	Planning W, M ¹	N	N	
	CER10.0P3	Developing	Y	Y	Planning W, M ¹	N	N	New PGE for plots
	CER10.1P1	Disabled	Y	Y	W	N	N/A	Replace with CER10.0P2
	CER10.1P2	Disabled	Y	Y	W	N	N/A	Replace with CER10.0P1
	CER10.2P1	Deleted	Y	Y	W	N	N/A	
	CER10.3P1	Deleted	Y	Y	W	N	N/A	
	CER10.1P3	Disabled	Y	Y	W	N	N/A	
	CER10.1P4	Active	Y	Y	W	N	N/A	Replace with CER10.0P2 for Terra
	CER10.1P5	Active	Y	Y	W	N	N/A	Replace with CER10.0P1 for Terra
GGEO - 11	CER11.1P1	Disabled	N/A	N/A	N/A	N/A	N/A	
	CER11.1P2	Disabled	N/A	N/A	N/A	N/A	N/A	
	CER11.1P3	Disabled	N/A	N/A	N/A	N/A	N/A	
	CER11.1P4	Disabled	N/A	N/A	N/A	N/A	N/A	
	CER11.1P5	Disabled	N/A	N/A	N/A	N/A	N/A	
	CER11.1P6	Disabled	N/A	N/A	N/A	N/A	N/A	
	CER11.1P7	Disabled	N/A	N/A	N/A	N/A	N/A	
	CER11.1P8	Disabled	N/A	N/A	N/A	N/A	N/A	
	CER11.1P10	Active	Y	Y	W	N	N	
	CER11.2P1	Disabled	N/A	N/A	N/A	N/A	N/A	
	CER11.2P2	Active	Y	Y	W	N	N	
	CER11.3P1	Disabled	N/A	N/A	N/A	N/A	N/A	
	CER11.4P1	Active	Y	Y	W	N	N	
	CER11.5P1	Deleted	N/A	N/A	N/A	N/A	N/A	
	CER11.6P1	Active	Y	Y	W	N	N	
	CER11.7P1	Developing	Y	Y	Planning W, M ¹	N	N	
Regrid MOA -12	CER12.1P1	Active	N	Y	W, M	N	N	

Table 1 Key:		
¹ Status	Active	Currently able to run in production
	Developing	New PGE in development, still to be delivered for the first time. Values in columns to right of the "Current PGE Production Status" column, such as the "Prod. Platform" column, are assumptions only and are highly subject to change.
	Disabled	PGE not currently in production but could be reinstated if requested
	Deleted	PGE no longer in production with little or no possibility of being reinstated
	SSI&T	PGE delivered and in SSI&T testing prior to operational processing
² Prod. Platform	W	Currently executes on warlock
	M	Currently executes on magneto
	M*	Currently in pre-delivery testing on magneto

Table 2: CERES Product Current Events Status Table				
Product Name	Responsible Working Group	Archival, Internal, or Ext. Input	URL in Sample Read README updated? (Y/N) ³	DPC Pages Converted to Word?
BDS	Instrument	Archival	N	Y
ES-8	ERBE-like	Archival	N	Y
ES-9	ERBE-like	Archival	N	Y
ES-4	ERBE-like	Archival	N	Y
SSF	Inversion	Archival	Y	Y
CRS	SARB	Archival	Y	Y
FSW	TISA-Gridding	Archival	N	Y
SYN	TISA-Averaging	Archival	N	Y
AVG	TISA-Averaging	Archival	N	Y
ZAVG	TISA-Averaging	Archival	N	Y
SFC	TISA-Gridding	Archival	N	Y

SRBAVG	TISA-Averaging	Archival	Y	Y
New - 9	TISA-Gridding	Archival	N	Y
New - 11	TISA-Averaging	Archival	N	Y
INSTR	Instrument	Internal	N	Y
IES	Instrument	Internal	N/A	Y
EID-6	ERBE-like	Internal	N/A	Y
CRH	Clouds	Internal	N/A	Y
GCEO	TISA	Internal	N/A	Y
MOA	SARB	Internal	N/A	Y
CID-VIRS	Clouds	Ext. Input	N/A	Y
CID-MODIS	Clouds	Ext. Input	N/A	Y
SURFMAP	Clouds	Ext. Input	N/A	Y
GEO	TISA	Ext. Input	N/A	Y
APD	SARB	Ext. Input	N/A	Y
GAP	SARB	Ext. Input	N/A	Y
MWH	SARB	Ext. Input	N/A	Y
OPD	SARB	Ext. Input	N/A	Y

Table 2 Key:	
³ URL Update	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
8/7/2007	All	Added color to distinguish between Yes and No answers
	CER1.1P2, CER1.1P4, CER1.1P6	Added comment indicating possible reactivation
	CER4.1-4.1P4, CER4.1-4.1P5	Changed NOMAD Compliance status from "No" to "Yes"
	CER10.1P3	New PGE added to chart
8/21/2007	All	Added Prod. Platform column
	All	Changed from red font to lightly shaded background to distinguish between Yes and No answers
	Inversion	Changed "N/A" to "Y" for NOMAD compliant for Active PGEs
9/4/2007	All	No changes
9/18/2007	All	Added 2 columns for Test Plan and Op Man conversion from Framemaker to Word.
	All	Added column for updating URL in Sample Read Packages README files consistent with Note 3 in Key Table
10/16/2007	CER7.1P1, CER8.1P1, CER8.2P2	Changed status of Test Plans to Word to indicate in review.
10/30/2007	All remaining PGEs except ERBE-like	Changed status of Test Plans to Word to indicate in review.
11/27/2007	All	Changed column heading from "Op Man in Word" to "Op Man in Excel"
	CER1.NPx	Changed Op Man status from "N" to "Review"
	CER1.NPx	Changed Prod. Platform column value from "W,M*" to "W"

12/11/2007	All PGEs	Changed status of Test Plans to Word to indicate complete.
	CER9.0P1	Addition - new PGE
	CER11.0P1	Addition - new PGE
	All PGEs except CER1.nPx	Changed status of Op Man in Excel from "Review" to "N"
	All PGEs	Removed Table 1 column regarding sample read package updates
	All products	Added new Table 2 for product-specific items; (1) sample readme file updates and (2) DPC pages converted to Word
	CER10.0P1-3	Changed Production Status from "Active-to-be" to "Developing"
	Table 1 Key	Added new "Developing" status explanation to Footnote 1
	CER10.1P4 CER10.1P5	Changed Production status back to "Active" to reflect reactivation for Aqua processing
	CER10.0Px	Changed Prod. Platform from "W, M*" to "Planning W, M"
1/8/2008	CER1.0P1	Changed Production Status from "Active" to "Developing"
		Changed Prod. Platform from "W, M*" to "Planning W, M"
	CER4.1-4.1P6 CER4.1-4.2P4 CER4.1-4.2P5 CER4.1-4.3P3 CER4.5-6.1P4,5 CER4.5-6.2P3 CER4.5-6.3P4,5 CER4.5-6.4P2 CER4.5-6.6P4,5 CER11.7P1	Addition - New PGEs
	CER4.1-4.2P3 CER4.1-4.3P2	Additions to chart that were erroneously omitted previously
	CER11.0P1	New PGE under development and renumbered as CER11.7P1

1/22/2008	CER2.NPx, CER3.NPx	Changed status of Test Plan in Word column from "N" to "Y"
	CER4.5-6P4, CER4.5-6.3P5, CER4.5-6.6P4, CER4.5-6.6P5	Removed from list as they will not be delivered
	CER4.1-4.4P1	Added row to chart
	CER7.1.1P1, CER8.1P1	Changed Prod Platform to also indicate magneto
2/5/2008	CER4.5-6.1P4, CER4.5-6.1P5, CER4.5-6.2P3, CER4.5-6.4P2	Added magneto to planned platforms
	CER8.2P1	Added magneto to planned platforms, added comment regarding plans to merge PGE with CER8.1P1
2/19/2008	CER4.1-4.1P6, CER4.1-4.2P4, CER4.1-4.2P5, CER4.1-4.3P3	Changed status to "Delivered" to indicate the PGE has been delivered to CM but is not yet in production. Changed "Planning W" to "W" for Prod. Platform.
	CER8.2P1	Updated comment to indicate that this PGE will be merged with CER8.1P1 with the next delivery.
3/4/2008	CER4.5-6P1P4, CER4.5-6.1P5, CER4.5-6.2P3, CER4.5-6.4P2	Changed Prod Platform from "Planning W, M" to "W"

3/18/2008	CER1.1P2, CER1.1P4, CER1.1P6	Changed comment to indicate the PGEs will remain disabled
	CER4.5-61P1, CER4.5-6.2P1, CER4.5-63P1	Changed Test Plan in Word status from "N/A" to "Y", and Op Man in Excel from "N/A" to "In Review"
	CER4.5-6.1P2, CER4.5-6.1P3, CER4.5-6.2P2, CER4.5-6.3P2, CER4.5-6.3P3, CER4.5-6.4P1, CER4.5-6.6P2, CER4.5-6.6P3	Changed Op Man in Excel status from "N/A" to "In Review"
	Table 2	Changed DPC pages converted to Word status from "N" to "Y" for all products
	Table 2	Changed URL in sample read README updated from "N" to "Y" for the SSF, CRS, and SRBAVG products
4/1/2008	CER1.0P1, CER1.1P1, CER1.1P3 CER1.1P5, CER1.2P1, CER1.3P1, CER1.3P3, CER7.1.1P1, CER8.1P1	Changed PGE Production status from "Active" to newly added status "SSI&T"
	CER4.1-4.4P1	Changed Test Plan in Word status to "N/A"
	Table 1 Key	Added SSI&T status
	CER4.5-6.1P1, CER4.5-6.2P1, CER4.5-6.3P1	Changed comment to indicate PGEs probably NOT to be reactivated
	CER4.5-6.1P4, CER4.5-6.1P5, CER4.5-6.2P3, CER4.5-6.4P2, CER9.0P1	Changed production status from "Developing" to "SSI&T"
	Table 1	Replaced column for "Test Plan In Word?" with column to track Toolkit (ver15) testing and provided initial values for column
4/15/2008	Table 1	Replaced column for "Test Plan In Word?" with column to track Toolkit (ver15) testing and provided initial values for column

4/28/2008	CER4.1-4.1P5,6, CER4.1-4.2P2,3, CER4.1-4.3P2, CER4.5-6.1P2-5, CER4.5-6.3P2,3, CER4.5-6.6P2,3	Changed TK Ver15 testing status from "N" to "InProg"
	CER4.5-6.2P2,3, CER4.5-6.4P1,2	Changed TK Ver15 testing status from "N" to "Y"