

November 16, 2005 - System Issues and Status

Table 1: Process Strategy/Geier as of 11/16/05
Active Requests in order of priority (1 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
116-05		ValR7	SRBAVG (SS10)	10.1P2 10.1P1	3/00 - 2/03	
M-PR 3-02		NSIDC-NESDIS	EICE ESNOW (SS4.1)	4.1-4.0P1	Standing request	
210-05 to 215-05	Aqua	ValR7	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	6/30/03 - 8/1/03	Run all PEs as ValR prior to kicking-off Edition1-CV.
205-05 to 209-05	Aqua	ValR8	BDS/ ERBELike (SS1-3)	1.3P3 1.2P1 2.4P1 2.2P1 2.3P1 2.3P2 3.1P1	6/30/03 - 8/1/03	Run all PEs as ValR prior to kicking-off Edition1-CV.
199-05 to 204-05	Terra	ValR7	BDS/ ERBELike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	8/31/02 - 10/1/02	Run all PEs as ValR prior to kicking-off Edition1-CV.
194-05 to 198-05	Terra	ValR8	BDS/ ERBELike (SS1-3)	1.3P3 1.2P1 2.4P1 2.2P1 2.3P1 2.3P2 3.1P1	8/31/02 - 10/1/02	Run all PEs as ValR prior to kicking-off Edition1-CV.

Table 1: Process Strategy/Geier as of 11/16/05
Active Requests in order of priority (2 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
188-05 to 193-05	TRMM	ValR7	BDS/ ERBELike (SS1-3)	1.1P1 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	2/28/98 - 4/1/98	Run all PEs as ValR prior to kicking-off Edition1-CV.
183-05 to 187-05	TRMM	ValR8	BDS/ ERBELike (SS1-3)	1.3P3 1.2P1 2.4P1 2.2P1 2.3P1 2.3P2 3.1P1	2/28/98 - 4/1/98	Run all PEs as ValR prior to kicking-off Edition1-CV.
145-05	Aqua	ValR8	Clouds (SS4.1-4)	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	8/7/02	
144-05	Aqua	ValR8	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2	8/7/02	
142-05 to 143-05	Aqua	ValR9	Inversion (SS4.5-6)	4.5-6.3P3 4.5-6.2P2	8/7/02	
140-05 to 141-05	Aqua	ValR10	Inversion (SS4.5-6)	4.5-6.6P3 4.5-6.2P2	8/7/02	
137-05 to 139-05	FM3	ValR10	Inversion (SS4.5-6)	4.5-6.6P3 4.5-6.3P3 4.5-6.2P2 4.5-6.4P1	1/05	
122-05 to 125-05		Beta4	GGEO (SS11)	11.1P5 11.1P6 11.1P7 11.1P8 11.2P2	3/03 - 4/03	Hold until ValR15 and ValR16 approved.
120-05 to 121-05		Beta4	GGEO (SS11)	11.1P5 11.1P6 11.1P7 11.1P10 11.2P2	6/03 - 5/04	Hold until ValR15 and ValR16 approved.

Table 1: Process Strategy/Geier as of 11/16/05
Active Requests in order of priority (3 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
118-05 to 119-05		Beta4	GGEO (SS11)	11.1P10 11.2P2	6/04 - 12/04	Hold until ValR15 and ValR16 approved.
117-05		Beta4	GGEO (SS11)	11.4P1	3/03 - 12/04	Hold until ValR15 and ValR16 approved.
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	For 11/05 - present	These PRs replace standing requests AM-PRs 1-00 to 7-00. Hold until ValR7 and ValR8 approved.
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	11/05 forward	These PRs replace standing requests PM-PRs 1-05 to 4-05. Hold until ValR7 and ValR8 approved.
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	11/05 forward	These PRs replace standing requests PM-PRs 7-05 to 10-05. Hold until ValR7 and ValR8 approved.
PR 153-05 to 158-05	Terra	Edition1-CV	BDS/ ERBELike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	2/25/00 - 11/1/05	Rerun Edition1 to create calibration-validation files. Hold until ValR7 and ValR8 approved

Table 1: Process Strategy/Geier as of 11/16/05
Active Requests in order of priority (4 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 177-05 to 182-05	Aqua	Edition1-CV	BDS/ ERBELike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	6/18/02 - 2/05	Rerun Edition1 to create a calibration-validation files. Hold until ValR7 and ValR8 approved.
PR 171-05 to 176-05	FM3	Edition1-CV	BDS/ ERBELike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	3/05 - 11/1/05	Rerun Edition1 to create a calibration-validation files. Hold until ValR7 and ValR8 approved.
PR 165-05 to 170-05	FM4	Edition1-CV	BDS/ ERBELike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	3/1/05-3/29/05	Rerun Edition1 to create a calibration-validation files. Hold until ValR7 and ValR8 approved.
PR 159-05 to 164-05	FM4	Ed1-CV- NoSW	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	3/30/05 - 11/1/05	Rerun Ed1-NoSW to create calibration-validation files. Hold until ValR7 and ValR8 approved.
129-05	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	1/05 - 6/05	Done 10/21/05.
128-05	Terra	Edition2C	FSW (SS6)	6.1P1 6.2P1 6.3P1	12/04 - 5/05	Done 10/30/05.
M PR 2-04		GEOS4	MOA (SS12)	12.1P1	Standing request	
M PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	Standing request	

Table 1: Process Strategy/Geier as of 11/16/05
Active Requests in order of priority (5 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
126-05, 127-05	Terra	Edition2B	Inversion (SS4.5-6)	4.5-6.3P2 4.5-6.2P2	9/23/03 only	Done 10/13/05.
132-05	Aqua	Edition1B	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	3/05	Done 10/13/05.
136-05	Terra	ValR9	TISA grid (SS9)	9.3P1 9.4P1	5/05	Process in APGS.
134-05	Terra	ValR8	TISA grid (SS9)	9.3P1 9.4P1	5/05	Done 11/4/05.
135-05	Aqua	ValR9	TISA grid (SS9)	6.1P1 6.2P1 6.3P1	5/05	Process in APGS. ASDC has option of renaming files rather than running 6.1P1.
133-05	Aqua	ValR8	TISA grid (SS9)	6.1P1 6.2P1 6.3P1	5/05	Done 11/5/05
PR 146-050 to 152-05	TRMM	Edition1-CV	BDS/ ERBELike (SS1-3)	1.1P1 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	12/27/97 - 8/31/98 and 2/27/00 - 4/1/00	Rerun Edition1 TRMM with same code as Terra and Aqua to create a calibration-validation file. Hold until ValR7 and ValR8 approved.

**Table 2: Process Strategy/Geier as of 11/16/05
Coming Soon**

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
10/05	Terra	Edition2D	SRBAVG (SS10)	3/00 - 2/03	
11/05	Terra	Beta4	SRBAVG (SS10)	3/03 - 12/04	
	Aqua	Beta1	SRBAVG (SS10)	7/02 - 2/03	
	Terra	Beta3	TSI (SS7.1)	3/00 - 2/03	
12/05	Aqua	ValR8	Inversion (SS4.5-6)	Select dates 7/02 - 3/05	Waiting on Norman's ADMs and updated Surface Estimation.
	Aqua	Edition2A	Inversion (SS4.5-6)	7/02 - 3/05	Wait on ValR8 approval.
	Aqua	ValR8	SFC (SS 9)	Select dates 7/02 - 3/05	Waiting on Aqua Edition2A SSF.
	Aqua	Edition2A	SFC (SS 9)	7/02 - 2/05	Wait on ValR8 approval.
	Aqua	ValR8	CRS (SS 5)	Select dates 7/02 - 12/04	Wait on code delivery; to run on IBM cluster.
1/06	Aqua	Edition2A	CRS (SS 5)	7/02 - 12/04	Wait on ValR8 CRS approval; to run on IBM cluster.
	Aqua	ValR8	FSW (SS 6)	Select dates 7/02 - 11/04	Wait on Edition2A CRS.
	Aqua	Edition2A	FSW (SS 6)	7/02 - 11/04	Wait on ValR8 approval.
unkn	Terra	Beta3	Synoptic SARB (SS7.2)	12 months	
	Terra	Beta3	SYN/AVG/ ZAVG (SS8)	12 months	
	Aqua	Beta1	TSI (SS7.1)		Not on Bruce's schedule.
	Aqua	Beta1	Synoptic SARB (SS7.2)		Not on Bruce's schedule.
	Aqua	Beta1	SYN/AVG/ ZAVG (SS8)		Not on Bruce's schedule.

Table 3: November 16, 2005 - System Issues and Status

Activity	Lead	Status
CM	Ayers	<ul style="list-style-type: none">• See Table 4 for the current CERES Subsystem Delivery Schedule. (Ayers)• See Table 5 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 5. (Ayers)• Delivered updated TISA Gridding scripts associated with SCCR 594 to the ASDC. (Ayers)• Installed, compiled, and tested the Inversion delivery (SCCR 596) on <i>warlock</i> and released it to the ASDC. (Saunders)• Updated the following documents and delivered them to the ASDC: Inversion Operator's Manual, Inversion Test Plan, TISA Averaging Operator's Manual, Instantaneous SARB Test Plan (draft version for early review), and Instantaneous SARB Operator's Manual. (Saunders)• Testing the TISA Averaging (SCCR 583) delivery. (Saunders)• Working with ASDC and SARB subsystem folks to determine delivery and testing procedures for the Linux cluster. (Ayers)• Updated the CERES Subsystem Delivery Schedule. (Ayers, Saunders)

Table 4: CERES Subsystem Delivery Schedule - November 2005

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Delivery to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)
Instrument (SCCR 599)	October 28	November 11	November 18	Process Terra and Aqua Edition1-cv and Edition3 BDS.		
TISA Averaging (SCCR 583)	November 4	November 18	November 25	Process Terra Edition2D SRBAVG.		X
CERESlib (SCCR 604)	November 11	November 25	December 2	Need to install the version of CERESlib that is currently in the SSI&T directory on <i>warlock</i> on the Linux cluster.		
Instantaneous SARB (SCCR 597)	November 11	November 25	December 2	To process Aqua Edition2A CRS on the IBM cluster for 7/02 - 12/04.	X	X
Instrument	N/A	December 2	December 2	Aqua gains files for April 2005 - September 2005.		
ERBE-like	N/A	December 2	December 2	Aqua spectral response function files for April 2005 - September 2005.		
GGEO Coefficients	January 6	January 20	January 20	Final Edition2A March 2003 - December 2004		
TISA Averaging	February 2006			Process Terra Beta TSI.		
Instrument	N/A	February 17	February 17	Terra Edition2 gains files for July 2005 - December 2005.		
ERBE-like	N/A	February 17	February 17	Terra Edition2 spectral response function files for July 2005 - December 2005.		
Synoptic SARB	February 17	March 3	March 10	Support Terra/Aqua Beta3 SYNI processing.		
Instrument	N/A	March 17	March 17	Aqua Edition2 gains files for October 2005 - December 2005.		
ERBE-like	N/A	March 17	March 17	Aqua Edition2 spectral response function files for October 2005 - December 2005.		

Table 4: CERES Subsystem Delivery Schedule - November 2005

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Delivery to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)
Instrument	N/A	March 31	March 31	Aqua Edition3 gains files for June 2002 - February 2006.		
ERBE-like	N/A	March 31	March 31	Aqua Edition3 spectral response function files for June 2002 - February 2006.		
TISA Averaging	March 17	March 31	April 7	Support Terra/Aqua Beta3 SYN/AVG/ZAVG processing.		
GGEO Coefficients	March 24	April 7	April 7	Beta coefficients for all of 2005.		
Instrument	N/A	May 5	May 5	Terra Edition3 gains files for February 2000 - February 2006.		
ERBE-like	N/A	May 5	May 5	Terra Edition3 spectral response function files for February 2000 - February 2006.		
GGEO Coefficients	April 28	May 12	May 12	Edition2A final coefficients for all of 2005.		
Inversion	May 5	May 19	May 26	Terra/Aqua Beta Edition3 SSF processing.		
Clouds (SCCR 603)	May 19	June 2	June 9	To process MODIS V005. Delivery needs to be made prior to processing Collection 5. To run Terra/Aqua Beta Edition3 SSF.		
TISA Gridding	June 2	June 16	June 23	Support Terra/Aqua Beta Edition3 SFC processing.		
TISA Averaging	June 9	June 23	June 30	Support Terra/Aqua Edition2 TSI processing.		
Clouds	???			Support TRMM VIRS-only processing of August 2001 forward.		

Table 5: SCCR Activity October 14 at 4:00 p.m. - November 14 at 4:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
594				X		6.0 & 9.0		
596		X	X			4.5 & 4.6	10	
599		X				1	13	
604	X					CERESlib	16	

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

CERES Software Configuration Change Request Submittal

Subsystem: Inversion

SCCR Date: 09/19/2005

SCCR Number: 596

Parameter Change: () YES (X) NO

Description of Change (Science):

Update PGEs CER4.5-6.3P3 and CER4.5-6.6P3 (Aqua Inversion only) to use the new Aqua Edition2B ADMs.

Reason for Change (Science):

New Aqua Edition2B ADMs provided by ADM working Group.

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 : CER4.5-6.3P3, CER4.5-6.6P3

Estimated Time to Complete Change : 2 weeks

Planned Delivery Date : October 28, 2005

List Affected Subsystems and PGE Names: Inversion PGEs CER4.5-6.3P3 and CER4.5-6.6P3
Date: 10/10/2005 Status: APPROVED
Originator: NOLAN, SANDY K. (SAIC)

=====

ADDITIONAL CHANGES TO SCCR NO. 596:

=====

Parameter Change: (X) YES () NO

Description of Change (Science):

1. SW Surface Flux Model A module was modified to switch from Match GFDL to MATCH aerosols at 550nm.
2. SW Surface Flux Model B module was modified to switch from Match GFDL to MATCH broadband aerosols.
3. LW Surface Flux Model B module was modified to correct cloud pressure calculations

Reason for Change (Science):

1. MATCH aerosols at 550nm required.
2. MATCH broadband aerosols required.
3. Improve results over Tibetan region

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:

1. CERES SW, LW, WN TOA flux - upwards (SSF-38-40) will be created with Edition2 Aqua ADMs
2. The following parameters are created using Match aerosol and Edition2 TOA flux input:
CERES downward and net SW surface flux - Model A (SSF-41, SSF-44)
CERES downward and net SW surface flux - Model B (SSF-46, SSF-48)
3. The following parameters are created using Edition2 TOA flux input:
CERES downward and net LW surface flux - Model A (SSF-42, SSF-45)
CERES downward and net WN surface flux - Model A (SSF-43)
4. The following parameters are created using corrected cloud pressure calculation:
CERES downward and net LW surface flux - Model B (SSF-47, SSF-49)

Reason for Parameter Change:

1. New Edition2 Aqua ADMs
2. New Edition2 Aqua ADMs and Match aerosol input
3. New Edition2 Aqua ADMs
4. To improve LW surface flux results over Tibetan region

Affected PGEs: CER4.5=6.3P3, CER4.5-6.6P3
Estimated Time to Complete Change : 2.5 weeks
Planned Delivery Date : October 28, 2005
List Affected Subsystems and PGE Names: SARB, TISA
Date & Time: 2005-10-11 13:16:24
Originator: NOLAN, SANDY K. (SAIC)

Parameter Change: (X) YES () NO

Description of Change (Science):

Update PGE CER4.5-6.1P3 (Aqua Inversion PGE) to use the new Aqua Edition2B ADMs and the updated SW and LW surface modules described for PGEs CER4.5-6.3P3

Reason for Change (Science):

New Aqua Edition2B ADMs were provided by ADM working Group. Changes to the SW and LW Surface flux modules were provided by the Surface-only Working Group.

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:

The parameters changes for CER4.5-6.1P3 are the same as the changes for CER4.5-6.3P3 described above.

Reason for Parameter Change:

Reasons for changes for CER4.5-6.1P3 are the same as the reasons for changes for CER4.5-6.3P3 described above.

Affected PGEs: CER4.5-6.1P3

Estimated Time to Complete Change : 1 week

Planned Delivery Date : November 8, 2005

List Affected Subsystems and PGE Names: TISA SARB

Date & Time: 2005-11-07 12:41:17

Originator: NOLAN, SANDY K. (SAIC)

CERES Software Configuration Change Request Submittal

Subsystem: Instrument

SCCR Date: 10/10/2005

SCCR Number: 599

Parameter Change: (X) YES () NO

Description of Change (Science):

In response to Instrument Requirement # 1-5:

Adding Solar and Lunar Angles to the BDS. These additions will also change the BDSS slightly as the Solar Beta and Eta angle SDSs will be removed, the Beta and Eta angle information will instead be reported once per scan in the Satellite and Celestial Data Vdata.

Reason for Change (Science):

These angles are being added for validation purposes. The angles are often needed in analysis of the data and currently must be calculated off-line. Adding them to the BDS will help streamline validation/verification efforts.

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:

New SDSs:

Solar Azimuth Angles

Solar Elevation Angles

Lunar Azimuth Angles

Lunar Elevation Angles

Solar Beta Angles -- removed from BDSS

Solar Eta Angles -- removed from BDSS

Updated Vdata - Satellite-Celestial Data

Solar Beta angle at record start

Solar Eta angle at record start

Lunar Beta angle at record start

Lunar Eta angle at record start

Earth-Moon Distance

Colatitude of Sun at observation

Longitude of Sun at observation

Colatitude of Moon at observation

Longitude of Moon at observation

Reason for Parameter Change:

New SDSs:

Solar and Lunar Azimuth and Elevation Angles added to aid in verification/validation efforts

Solar Beta and Eta Angles removed from BDSS and moved to Satellite-Celestial Data Vdata, as these values do not vary from footprint to footprint or over the day by a significant amount.

Updated Vdata - Satellite-Celestial Data

Addition of Solar and Lunar Beta and Eta angles, Earth-Moon Distance, Solar and Lunar Colatitude and Longitude at the start of each record to aid in analysis/verification and validation of data products.

Affected PGEs : CER1.1P1 thru CER1.1P6, CER1.3P1 and CER1.3P3

Estimated Time to Complete Change : 3 weeks

Planned Delivery Date : Oct. 28, 2005

List Affected Subsystems and PGE Names: No impact, these additions are for analysis/validation/verification purposes only

Date: 10/10/2005 Status: SUBMITTED

Originator: COOPER, DENISE L. (SAIC)

=====

ADDITIONAL CHANGES TO SCCR NO. 599:

=====

Parameter Change: () YES (X) NO

Description of Change (Science):

In response to Instrument Requirement # 1-6:

Update code to flag as bad radiance values during Sunrise/Sunset when the instrument azimuth, beta and solar angles are such that Solar heating of the instrument causes errors in the radiance count data.

Reason for Change (Science):

In response to Instrument Requirement # 1-6:

Analysis shows that when certain conditions are met that the spaceclamp for a given scan is corrupted causing the converted radiances to also be corrupt. This problem was noted in the original Instrument documentation as a possibility, however, it was not put in the code when it was written.

Description of Change (non-Science):

In response to Instrument Requirement # 1-7

Update QC reports to contain a listing of all run-time parameters and radiance count conversion data used for the run.

Reason for Change (non-Science):

In response to Instrument Requirement # 1-7

Questions during analysis regarding the exact input parameters used during a run, pointed out the need for these to be added to the QC report.

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: CER1.1P1 thru CER1.1P6 and CER1.3P3

Estimated Time to Complete Change : 3 weeks

Planned Delivery Date : Oct. 28, 2005

List Affected Subsystems and PGE Names: ERBE-Like and Clouds may see a few more bad radiance values for along-track and RAPS data.

Date & Time: 2005-10-10 17:31:29

Originator: COOPER, DENISE L. (SAIC)

Parameter Change: () YES (X) NO

Description of Change (Science):

In response to Instrument Requirement # 1-8

Update the spaceclamp standard deviation thresholds in the Count Conversion Data ancillary data file for each instrument.

Reason for Change (Science):

In response to Instrument Requirement # 1-8

Analysis of instrument data shows that bit flips in the spaceclamp region are not being caught by the current thresholds. This causes the spaceclamp to be too high and therefore the converted radiance data to be erroneous.

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: CER1.1P1 thru CER1.1P6

Estimated Time to Complete Change : 3 days

Planned Delivery Date : Oct. 28, 2005

List Affected Subsystems and PGE Names: No impact, removing bad data when a bit flip occurs, which is very rare

Date & Time: 2005-10-11 12:50:48

Originator: COOPER, DENISE L. (SAIC)

=====

Parameter Change: () YES (X) NO

Description of Change (Science):

In response to Requirement #1-8: PGE CER1.2P1 -- update to read new Satellite-Celestial Vdata record.

Reason for Change (Science):

In response to Requirement #1-8: PGE CER1.2P1 -- new Solar and Lunar information added to the Satellite-Celestial Vdata caused the existing code to read the data improperly and therefore sent incorrect data on to the Pre-ES8.

Update the code to read either format of the Satellite-Celestial Vdata record, depending on which one is available on the input BDS.

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: CER1.2P1

Estimated Time to Complete Change : 1 day

Planned Delivery Date : Nov. 9, 2005

List Affected Subsystems and PGE Names: No impact, this update will not change parameters or formats

Date & Time: 2005-11-08 14:36:17

Originator: COOPER, DENISE L. (SAIC)

CERES Software Configuration Change Request Submittal

Subsystem: CERESlib SCCR Date & TIME: 2005-11-10 14:35:47 SCCR No.: 604

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

Parameter Change: () YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
Porting the current version of CERESlib under configuration control to the IBM cluster. No new or modified source code will be included in this delivery. Changes will be limited to makefile-related scripts.

Reason for Change (non-Science):
There must be an IBM version of CERESlib available for successful compilation of CERES operational science software.

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: N/A

Estimated Time to Complete Change : 3 weeks

Planned Delivery Date : 11/25/2005

List Affected Subsystems and PGE Names: All

Originator: COLEMAN, LISA H. (SAIC)

Table 6: November 16, 2005 - Subsystem Issues and Status (1 of 4)

SS No.	SS Lead	Status	Problems
1.0	Cooper	<ul style="list-style-type: none"> Continued to monitor receipt of Terra and Aqua Level-0, ephemeris and attitude data. (Cooper, Snyder) Continued pre-delivery subsystem testing for SCCR# 599, for Reqt. # 1-5, 1-6, 1-7, and 1-8. The routine to determine if solar heating of the sensor is having an effect on the data was having problems when used for TRMM. After looking at the data, it was determined that we had forgotten to take into account that the TRMM spacecraft flies X-axis forward and X-axis backward, due to the orbit of the satellite. The correction was made to fix this problem and the data was analyzed to insure that this did fix the problem. The delivery for SCCR# 599 is expected this week. (Cooper, Hess, Matthews) A direct compare program for all VZA and scene IDs for a single platform based CERES instruments has been written as a spin-off of a multiplatform one. The program is used to significantly reduce spatial noise of comparing unfiltered radiances as a part of an instrument contamination study. It was executed for a whole month of September and June 1-7, 2005. Results passed on to Kory and other members of the instrument team. (Szewczyk) Participated on CERES flight software configuration change review for modified azimuth synchronous operations. (Hess) 	
2.0	Walikainen	<ul style="list-style-type: none"> Validating SS1.0 'Edition3' delivery. (Walikainen) Continuing to monitor Terra Direct Compare with FM2 in cross track mode after two months of stow. Providing an upper bound estimate of possible cross track degradation by assuming September and October 2005 upturn is degradation, not noise. (Walikainen) Developing a 'full-scan' direct compare. (Walikainen) 	

Table 6: November 16, 2005 - Subsystem Issues and Status (2 of 4)

SS No.	SS Lead	Status	Problems
2.0	Walikainen (Cont'd)	<ul style="list-style-type: none"> Discovered several days (8/28/03 - 9/5/03) of Aqua data where the nadir viewing zenith angles are larger than normal. Approximately 10 minutes into 9/6/03 the nominal values were restored; this corresponds to a correction made for an attitude pointing error. (Walikainen) Continuing to examine the production email generated by the QC checker software. (Walikainen) Continuing to inspect ERBE-like Aqua and Terra output plots and QC reports on the Web. (Walikainen) 	
3.0	Walikainen	Combined with above.	
4.1	Sun-Mack	<ul style="list-style-type: none"> Continued updating QC zonal seasonal and annual results for Aqua Edition1A and Terra Edition2-QC datasets. (R. Brown) CloudVis images for Terra MODIS Edition2-QC from 200412 through 200506 Alaska ARM site were generated and posted on the Web. CloudVis images for the Aqua Edition1A datasets from 200401 through 200503 for regions 44 through 56 were generated and posted on the Web. (R. Brown) Preparing results for CERES Science Team Meeting. (ALL: Chen, Gibson, Brown, Trepte, Sun-Mack) Wrote and submitted AMS extended abstract. (Chen, Minnis, Sun-Mack) 	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	<ul style="list-style-type: none"> Reprocessed 3 hours of MOD06, MODIS cloud data, for March 15, 2001 using data that is usually available at night. (Miller) Attended meetings to review Class C CMMI assessment and determine plan for filling the gaps. (Miller) Reviewed Data Management Plan. (Miller) 	

Table 6: November 16, 2005 - Subsystem Issues and Status (3 of 4)

SS No.	SS Lead	Status	Problems
4.5	Nolan	<ul style="list-style-type: none"> Received updated Aqua Edition2 ADM files from Seiji Kato on November 4, 2005. We created new tar files and completed our final testing and validation of PGEs CER4.5-6.1P3, CER4.5-6.3P3, and CER4.5-6.6P3. These PGEs under SCCR 596 were delivered to CERES CM on November 8, 2005. (Nolan and Sothcott) Delivered the Inversion Operator's Manual, Release 4 Version 15, and the Inversion Test Plan, Release 4 Version 13, to CERES documentation on November 8, 2005. (Nolan) Created 3 hours of Terra SSF files using MOD06 cloud data for Walt Miller. Counts for the number of fluxes using the Neural Net software were also provided for each hour. (Nolan) Updating the Inversion CVS Repository with the latest software and data files from SCCR 596. (Sothcott) 	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Prepared expected output on both warlock and IBM cluster for delivery of Aqua Edition2AInstantaneous SARB software. Delivered modified Test Plan and Operator's Manual to CERES Documentation. (Caldwell, Zentz) 	
7.2	Coleman	<ul style="list-style-type: none"> No new updates. 	
12.0	Coleman	<ul style="list-style-type: none"> No new updates. 	
7.1	Nguyen	<ul style="list-style-type: none"> No new updates. 	
8.0	Nguyen	<ul style="list-style-type: none"> No new updates. 	
10.0	Nguyen	<ul style="list-style-type: none"> Supported Dave Doelling in validating SRBAVG. (Nguyen) Tested, updated the Test Plan and Operator's Manual and delivered the code to CM. (Nguyen) Preparing to run July 2004 SRBAVGs using the one-hourly and three-hourly GGEOs. (Nguyen) 	

Table 6: November 16, 2005 - Subsystem Issues and Status (4 of 4)

SS No.	SS Lead	Status	Problems
6.0	Raju	<ul style="list-style-type: none"> Updated 6.2P1, 6.3P1 pcf generator scripts to correct the problem found during SSIT testing. Sent updated scripts to CM. (Raju) Validated ValR8 product and did not find any problems. (Raju) 	
9.0	Raju	<ul style="list-style-type: none"> Updated 9.3P1, 9.4P1 pcf generator scripts to correct the problem found during SSIT testing. Sent updated scripts to CM. (Raju) Validated ValR8 product and did not find any problems. (Raju) Provided requested SFC parameter information to Dave Young. (Raju) 	
11.0	Raju	<ul style="list-style-type: none"> Modified GGEO product comparison program to compare first hour and the noon hour data records between two products and write ir, vis, total cloud amount, total temperature, total optical depth data onto file. Ran program and compared July 2002 McIDAS vs. Native ggeo products, created gif images using view_hdf software for Dave Doelling. (Raju) Modified PGE 11.5P1 code to match MODIS vs. CERES day & night data for ocean, land, desert regions and create outputs. IDL program was updated to handle changes to input files. Processed July02 data through 11.5P1 PGE and created narrowband vs. Broadband coefficient file, IDL plots for Dave Doelling. (Raju) Modified noon_data_output module to correct sub satellite longitude for GOES-9 satellite. (Raju) Work started to update cold_cloud_output module to check pixel ir value for cold cloud condition and if it exist, evaluate its surrounding pixels and write calculated mean, std. to outputs. (Raju) 	
CERESlib Coleman/Zentz		<ul style="list-style-type: none"> Ported version of CERESlib currently under CM to Mac cluster and created executables. Now resolving small details and working with CM team. (Zentz) 	