

October 19, 2005 - System Issues and Status

**Table 1: Process Strategy/Geier as of 10/19/05
Active Requests in order of priority (1 of 3)**

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	
131-05	Terra	ValR5	CRS (SS5)	5.0P1	3/05	Done 10/4/05.
130-05	Terra	ValR5	CRS (SS5)	5.1P1	3/15/05	Done 10/4/05.
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.
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 1-00 to 7-00	Terra	Edition1	BDS/ ERBELike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.1P1 2.2P1 2.3P1 2.3P2 3.1P1 3.2P2	For 10/05 - present	DO NOT PROCESS 3.2P2 - it is disabled.

Table 1: Process Strategy/Geier as of 10/19/05
Active Requests in order of priority (2 of 3)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
Standing requests PM-PRs 1-05 to 4-05	FM3	Edition1	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	10/05 forward	
Standing requests PM-PRs 7-05 to 10-05	FM4	Ed1-NoSW	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	10/05 forward	
96-05	Terra	Edition2-QC	Clouds (SS4.1-4)	4.1-4.1P2 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	12/04 - 6/05	Done 10/2/05.
95-05	Terra	Edition2B	Inversion (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	12/04 - 6/05	Done 10/2/05.
94-05	Terra	Edition2C	TISAgriid (SS9)	9.2P1 9.3P1 9.4P1	11/04 - 5/05	Done 10/2/05.
94A-05	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	12/04	Done 10/2/05.
94B-05	Terra	Edition2C	FSW (SS6)	6.1P1 6.2P1 6.3P1	11/04	Done 10/3/05.
129-05	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	1/05 - 6/05	
128-05	Terra	Edition2C	FSW (SS6)	6.1P1 6.2P1 6.3P1	12/04 - 5/05	
M PR 2-04		GEOS4	MOA (SS12)	12.1P1	Standing request	

Table 1: Process Strategy/Geier as of 10/19/05
Active Requests in order of priority (3 of 3)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
M PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	Standing request	
126-05, 127-05	Terra	Edition2B	Inversion (SS4.5-6)	4.5-6.3P2 4.5-6.2P2	9/23/03 only	When originally processed, hours 3-6 were left off.
132-05	Aqua	Edition1B	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	3/05	Finish up Aqua Edition1B; no 4/1/05 overlap available.
136-05	Terra	ValR9	TISA grid (SS9)	9.3P1 9.4P1	5/05	Do NOT promote until 128-05 & 132-05 complete. Process in APGS.
134-05	Terra	ValR8	TISA grid (SS9)	9.3P1 9.4P1	5/05	Do NOT promote until 128-05 & 132-05 complete. Process manually.
135-05	Aqua	ValR9	TISA grid (SS9)	6.1P1 6.2P1 6.3P1	5/05	Do NOT promote until 128-05 & 132-05 complete. 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	Do NOT promote until 128-05 & 132-05 complete. Process manually. ASDC has option of renaming files rather than running 6.1P1.
115-05	FM1	Edition1	BDS (SS1)	1.1P3 1.2P1 1.3P1 1.3P2	5/01 only	Done 10/3/05.
112-05 to 114-05	Terra	ValR7	Inversion (SS4.5-6)	4.5-6.6P2 4.5-6.2P2 4.5-6.4P1	5 select days	Done 10/3/05.
109-05 to 111-05	Aqua	ValR7	Inversion (SS4.5-6)	4.5-6.6P3 4.5-6.2P2 4.5-6.4P1	4 select 2003 days	Done 10/3/05.

**Table 2: Process Strategy/Geier as of 10/19/05
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: October 19, 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 the updated TISA Gridding Test Plan to the ASDC. (Saunders, Ayers)• Updated the CERES Subsystem Delivery Schedule. (Ayers, Saunders)

Table 4: CERES Subsystem Delivery Schedule - October 2005
(Next Science Team Meeting - November 1 - 3, 2005 in Hampton, VA)

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Delivery to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)
CERESlib	October 7	October 21	October 28	Inversion modifications.		
TISA Averaging (SCCR 583)	October 7	October 21	October 28	Process Terra Edition2D SRBAVG.		X
Instrument (SCCR 599)	October 14	October 28	November 4	Process Terra and Aqua Edition1-cv and Edition3 BDS.		
Inversion (SCCR 596)	October 14	October 28	November 4	Delivering Aqua ADMs and code changes (PGE CER4.5-6.3P3) to use them.	X	
Instantaneous SARB (SCCR 597)	November 4	November 18	November 25	To process Aqua Edition2A CRS on the IBM cluster for 7/02 - 12/04.		X
TISA Averaging	November 18	December 2	December 9	Process Terra Beta TSI.		
Clouds (SCCR 603)	Spring 2006			To process MODIS V005. Delivery needs to be made prior to processing Collection 5.		
Clouds	???			Support TRMM VIRS-only processing of August 2001 forward.		

Table 5: SCCR Activity October 3 at 3:00 p.m. - October 14 at 4:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
596		X	X			4.5 & 4.6	7	
597			X			5		
599	X	X				1	9	
600	X				X	1		
601	X				X	1		
602	X				X	4.1 - 4.4		
603	X					4.1 - 4.3	11	

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

CERES Software Configuration Change Request Submittal

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Subsystem: Inversion

SCCR Date & TIME: 2005-09-19 14:32:15

SCCR No.: 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

Originator: NOLAN, SANDY K. (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 596:

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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

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)

CERES Software Configuration Change Request Submittal

Subsystem: Clouds4.1-3

SCCR Date & TIME: 2005-10-13 12:26:20

SCCR No.: 603

Parameter Change: (X) YES () NO

Description of Change (Science):

CER4.1-4.1P2

(1) Incorporate improvements that were made in Aqua Edition1 code that are not included in Terra Edition2B

(I) Clouds (Req 4-1.3)

(a) The problem over polar/non-polar transition ocean areas (mostly occurred in Sea of Okhotsk and Hudson Bay) is resolved by having a fix ocean albedo over non-polar region.

(b) When VISST algorithm returns no cloud retrieval, LBTM algorithm is applied.

(II) Convolution (Req 4-1.4)

(a) Footprints influenced by a solar eclipse will be removed from the file.

(b) The Surface type percent coverage (SSF-25) land coverage is reduced based on the water content map. The reduced area is added to the ocean areal coverage.

(c) The Snow/Ice percent coverage from vis albedo (SSF-30) now includes permanent snow.

(d) The land and ocean MODIS aerosol percent coverage was corrected.

(2) The CERES cloud mask will be modified to handle calibration changes in MODIS Collection 5.

Reason for Change (Science):

CER4.1-4.1P2

(1) Changes were placed in the Aqua productions stream that could not be included in Terra processing since it was frozen.

(I) Clouds

(a) To fix clear sky updating scheme over polar/non-polar transition ocean area.

(b) To reduce no cloud retrievals.

(II) Convolution

- (a) The dark visible albedo under a solar eclipse prevented clouds from being accurately determined.
- (b) Often the water between islands and other features would be lost.
- (c) The standard deviation test was not being met over permanent snow. By definition, it should be considered snow.
- (d) The percent coverage had already been converted to percentage for another calculation. They were converted again limiting the real range to 0 and greater than one percent.
- (2) The thermal channels radiance calibration in MODIS collection 5 showed divergence in V005-V004 differences between channels at colder temperatures. This caused large changes in the polar cloud fraction.

Description of Change (non-Science):

CER4.1-4.1P2

- (1) The MOD04, MODIS aerosol, reader will be modified to read the new collection 5 MOD04 format. (Req 4-1.2)
- (2) The method for reading imager data when there is a data gap in the CERES data will be changed.
- (3) The number of input files that can be transferred between cloud metadata into convolution metadata will be increased to 120. (Req 4.1-4)

Reason for Change (non-Science):

CER4.1-4.1P2

- (1) The code can not correctly read the MOD04, Collection 5 format.
- (2) When there is a gap in CERES data, the current procedure jumps twice as far as needed in the imager data. It also assumes no corresponding loss of MODIS data. This results in footprints not being included on the SSF.
- (3) The files used in cloud retrieval was not being put on the metadata.

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

Will be provided when delivery finalized.

Reason for Parameter Change:

Will be provided when delivery finalized.

Affected PGEs: CER4.1-4.1P2

Estimated Time to Complete Change : Five months

Planned Delivery Date : March 17, 2006

List Affected Subsystems and PGE Names: Inversion 4.5-6.1P2 and 4.5-6.3P2; SARB 5.0P1 and 5.1P1; and TISA 6.1P1, 6.1P2, 7.1.1P1, 9.2P1, and 10.1P1

Originator: MILLER, WALTER F. (SAIC)

Table 6: October 19, 2005 - Subsystem Issues and Status (1 of 5)

SS No.	SS Lead	Status	Problems
1.0	Cooper	<ul style="list-style-type: none"> Continued monitoring receipt of Aqua and Terra Level-0, Ephemeris and Attitude data. (Cooper, Snyder) Continue to monitor FM4 anomaly. (Team) Testing updates to the Instrument subsystem code PGEs CER1.1P1-6, CER1.3P1, and CER1.3P3 to include the new Solar and Lunar Angle SDSs and new Solar and Lunar information in the Satellite-Celestial Data Vdata. Also began adding updates to determine when Solar Heating corrupts the radiance count data. (Cooper) Evaluating algorithms to identify and eliminate data during Solar heating conditions that corrupt radiance counts. Typically occurs during terminator orbital regions in RAPS or FAPS. This affects Aqua to a greater extent than Terra, since Terra has much stricter Solar Avoidance criteria. (Hess) 	
2.0	Walikainen	<ul style="list-style-type: none"> 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) Attempting to understand source(s) of noise in Direct Compare (DC). DC is a footprint vs. footprint difference (FM2-FM1) of nadir radiances and fluxes. DC is used to determine necessary changes to spectral response functions. Also DC is critical for interpreting experiments designed to understand RAPS vs. Cross Track degradation. Several methods were performed to reduce the noise. Every method increased the noise, created a bias or both; perhaps due to reducing the data available for a monthly average. Three methods, for the record: (1) SCENE GROUPS. DC uses single footprints with the same scene ID. The scene group method required three consecutive footprints to have the same scene ID. 	

Table 6: October 19, 2005 - Subsystem Issues and Status (2 of 5)

SS No.	SS Lead	Status	Problems
2.0	Walikainen (Cont'd)	<p>(2) MLE ISLANDS. The MLE (Most Likelihood Estimator) identifies scene cloudiness by seasonal maps. The maps are plots of LW vs. SW radiances where certain regions define clear, partly cloudy, mostly cloudy or overcast. If there is drift in the radiances, scenes may be misidentified. The MLE ISLANDS method used only the interior of these regions. (3) SYNCHRONOUS. FM2 and FM1 were required to scan in the same direction. Also, two studies provided no insight. (1) The QC reports compile sigma statistics, a measure of MLE's fit to the data. The monthly averages showed no correlation to the noise. (2) Examined DC contributions from 10 watt SW bins. (Walikainen)</p> <ul style="list-style-type: none"> • 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"> • CloudVis images for Terra MODIS Edition2-QC datasets from 200406 through 200409 for the Alert and Eureka Canada regions and the Tiksi, Russia region were generated and posted on the Web. CloudVis images for the Aqua Edition1A datasets from 200501 through 200503 for the Marie Byrd Land, Greenland, Lapter Sea, Palmer, and Wilkes Land regions were generated and posted on the Web. (R. Brown) • QC monthly global images and statistics for Terra Edition2-QC datasets from 200412 through 200506 were generated and posted on the Web. (R. Brown) • Debugged Terra code and found out the reason why Terra cloud phase mis-identified. (Sun-Mack) • Did all requests from Pat Minnis for his RUC meeting. (Sun-Mack) • For Pat Minnis's MidCix meeting, re-produced all MidCix cases with fixed cloud phase code. (Sun-Mack) 	

Table 6: October 19, 2005 - Subsystem Issues and Status (3 of 5)

SS No.	SS Lead	Status	Problems
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	<ul style="list-style-type: none"> Revised the MOD06 reader to read the MODIS snow and glint mask. The snow coverage was a major input to the ADMs. Reprocessed the five minute granule. (Miller) Prepared Web site for Class C CMMI assessment. Created employee training matrix and Requirement Management QA checklist. Updated the QA plan. (Miller) 	
4.5	Nolan	<ul style="list-style-type: none"> Completed testing of SCF version of the Aqua CER4.5-6.3P3 code for updated LW/WN and SW Edition2 Aqua ADM's from Norman Loeb. Sent results to Norman for verification and validation. (Sothcott) Updated LW Surface Model B with correction from Greg McGarragh. Currently running updated code to create June 2004 Terra FM1 data for Shashi Gupta. (Sothcott) Modified test version of PGE CER4.5-6.1P2 to provide counts for fluxes that were created using the Neural Network. This software was used to create several versions of FM1 and FM2 SSF data products using interim SSFs with MOD06 cloud data for Walt Miller. (Nolan) Continued work to test Aqua CER4.5-6.1P3 code with the Aqua Edition2 updates. (Nolan) 	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Conducting parallel tests on manila and thunder for the Monthly Pre-Processor, Main-Processor, and Monthly Post-Processor. (Caldwell, Zentz) Completed development of Perl scripts. (Caldwell, Zentz) 	

Table 6: October 19, 2005 - Subsystem Issues and Status (4 of 5)

SS No.	SS Lead	Status	Problems
7.2	Coleman	<ul style="list-style-type: none"> Corrected an uninitialized variable in a contributed module and reduced the number of mismatches between thunder and manila output from over 200,000 to 125. This is now the same percentage as for the Instantaneous SARB. (Zentz) Completed development of Perl scripts. (Caldwell, Zentz) 	
12.0	Coleman	<ul style="list-style-type: none"> Reviewing GEOS-5 documentation provided by GMAO. (Caldwell) Completed development of Perl scripts. (Caldwell, Zentz) 	
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"> Continue supporting Dave Doelling in validating SRBAVGs. (Nguyen) Continue preparing for the delivery. (Nguyen) 	
6.0	Raju	<ul style="list-style-type: none"> Started looking into the reasons for 12/24/04 hour 00 and 12/30/04 hour 21 production failed jobs. (Raju) 	
9.0	Raju	<ul style="list-style-type: none"> No new updates. (Raju) 	
11.0	Raju	<ul style="list-style-type: none"> Processed July02 3-hourly native format data with 5% visible radiance increase through PGEs 11.1P5-8, 11.2P2 at SCF to provide inputs to Averaging process. (Raju) Processed Dec02 1-hourly mcidas data through PGEs 11.1P10, 11.2P2 to provide inputs to Averaging process. (Raju) Processed July04 1-hourly mcidas METEO-8 data through PGEs 11.1P10, 11.2P2 to create GGEO file for Dave Doelling. (Raju) Validated ValR15, ValR16 GGEO products and did not find any problems. (Raju, Caldwell) 	

Table 6: October 19, 2005 - Subsystem Issues and Status (5 of 5)

SS No.	SS Lead	Status	Problems
11.0	Raju (Cont'd)	<ul style="list-style-type: none">Modified PGE 11.5P1 code to work with the current input versions. Processed Dec02 FM1 SFC data through PGE 11.5P1 to create Narrowband Vs. Broadband Correlation idl plots and GEORC file for Dave Doelling. (Raju)	
CERESlib Coleman/Zentz		<ul style="list-style-type: none">Moved CERESlib CVS repository from Joe's old machine to Scott Zentz's machine. (Zentz)	