June 02, 2004 - System Issues and Status

Table 1: Process Strategy/Geier as of 06/02/04
Active Requests in order of priority (1 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 31-04		Edition2A	GGEO (SS11)	11.1P5 11.1P6 11.1P7 11.1P8 11.2P2 11.4P1	1/01 - 12/01 3/00 - 12/00 1/02 - 2/03	Sept'00 GMS-5 files had to be replaced before running that month
PR 46-04 to 48-04	Aqua	ValR3	BDS (SS1)	1.1P5 1.2P1 1.3P3	3/21/04 12/15/02	Done 5/15/04
PR 39-04 to 45-04	Terra	ValR3/ValR4	BDS/ ERBElike (SS1-3)	1.1P3 1.2P1 1.3P3 2.4P1 2.2P1 2.3P1 2.3P2 3.1P1	11/30/03 - 1/1/04	Done 5/21/04 Due to issue with SRF promotion, ValR4 ERBElike had to be rerun
PR18-04	Terra	ValR1	SRBAVG (SS10)	10.1P1	3/00 - 2/03	**HOLDING - waiting for delivery.** Delivery date unknown at this time
PR17-04	Terra	Edition2A	SRBAVG (SS10)	10.1P1	3/00- 2/03	**HOLDING -** ValR1 must be approved before this starts
PR 55-04	Terra	Beta2	TSI (SS7.1)	7.1.1P1	5 months	Delivery is in SSI&T Begin processing when it promotes
PR13-04	Aqua-FM3	Beta3	SRBAVG (SS10)	10.1P1	12/02	Cancelled

Table 1: Process Strategy/Geier as of 06/02/04
Active Requests in order of priority (2 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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 3/04 - present	Process 3/04 amd 4/04 DO NOT PROCESS 3.2P2 - it is on hold
standing requests PM-PR 7-03A to 10-03	Aqua	Edition1	BDS/ ERBElike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1 ~~3.2P2~~	for 3/04 - present	**PLEASE create IES in addition to BDS for 4/04 ONLY.** Process 3/04 amd 4/04 DO NOT PROCESS 3.2P2 - it is on hold
standing requests AM-PR 8A-02 to 11-02	Terra	Edition2	BDS/ ERBElike (SS1-3)	1.2P1 1.3P3 2.2P1 2.3P1 2.3P2 2.4P1 3.1P1 ~~3.2P2~~	for 7/03 - present	Process 7/03 - 12/03 DO NOT PROCESS 3.2P2 - it is on hold
standing requests PM-PR 11-03, 13-03 to 17-03	Aqua	Edition2	BDS/ ERBElike (SS1-3)	1.3P3 1.2P1 2.2P1 2.3P1 2.3P2 2.4P1 3.1P1 ~~3.2P2~~	for 7/03 - present	**HOLDING - waiting for Aqua Gains and SRF to be delivered and associated ValR4 to run** DO NOT PROCESS 3.2P2 - it is on hold

Table 1: Process Strategy/Geier as of 06/02/04
Active Requests in order of priority (3 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
standing request PM-PR 12-03	Aqua/ Terra	Edition2	ES4/ES9 (SS3)	3.2P1	for 7/03 - present	**HOLDING - waiting for both Terra and Aqua to have processed Edition2 data beyond 6/03.**
M-PR 3-02		NSIDC-NESDIS	EICE ESNOW (SS4.1)	4.1-4.0P1	standing request	
M PR 2-04		GEOS4	MOA (SS12)	12.1P1	4/04 - present	Priority of MOA/ PMOA has dropped because ASDC is current. standing request to process data as it arrives
M PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	2/04 - present	
PR 97-03	Terra	Edition2-QC	SSF (SS4)	4.1- 4.1P2 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	3/03 - 12/03	
PR 10-04, 11-04	Terra	Edition2A	SSF (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	3/03 - 12/03	
PR 9-04	Terra	Edition2A	SFC (SS9)	9.2P1 9.3P1 9.4P1	3/03 - 12/03	
PR 53-04, 54-04	Aqua-FM4	BetaGERB	SSF (SS4)	4.1 4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1 4.5-6.1P3 4.5-6.2P2	4/04	**HOLDING - waiting on Edition1 IES and MOA inputs**
PR 52-04	Aqua-FM4	BetaGERB	SFC (SS9)	9.2P1 9.3P1 9.4P1	4/04	**HOLDING - waiting on BetaGERB SSF and PMOA inputs**

Table 1: Process Strategy/Geier as of 06/02/04
Active Requests in order of priority (4 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 116-03	TRMM	Beta3	TSI (SS7.1)	7.1.1P1	1/98 - 8/98 3/00	Delivery is in SSI&T Begin processing when it promotes

Table 2: Process Strategy/Geier as of 06/02/04
Coming Soon (1 of 2)

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
6/04	Aqua	ValR1	SSF(SS4)	7/02, 12/02	Cloud delivery 5/28/04
	Aqua	ValR1	SFC(SS9)	7/02, 12/02	delivery 6/4/04
	Terra	ValR5	SSF(SS4)	12/01, 6/02	Inversion only (alternate main) delivery 6/18/04
	Terra	ValR5	CRS(SS5)	?	delivery 6/11/04
	Aqua	Edition1A	SSF(SS4)	first 12 months	
	Aqua	Edition1A	SFC(SS9)	first 12 months	
	Aqua	ValR4	BDS/ERBE-like(SS1-3)	1 month	verify newly delivered gains and spectral response functions
	Terra	Beta2	Synoptic SARB (SS7.2)	3/00, 4/00, 1/01, 7/01, 10/01	6/18/04 delivery
	TRMM	Beta3	Synoptic SARB (SS7.2)	9 mo	6/18/04 delivery - lower priority than TRMM
7/04	Terra	Edition2B	SSF (SS4.5-6)	50 months	updated ADMs, code correction, correct clear area coverage as needed (50-60 deg lat), new cloud classification parameter; delivery expected 6/18/04
	Terra	Edition2B	CRS(SS5)	50 months	delivery expected 5/28/04
	Terra	Edition2B	SFC (SS9)	50 months	6/4/04 delivery
	Terra	Edition2B	FSW(SS6)	50 months	assuming no delivery needed
	Aqua	Edition1A	SRBAVG (SS10)	7/02 - 6/03	unknown delivery date; requires GGEO for 3/03 - 6/03 which has never been processed
8/04	Terra	ValR4	BDS/ERBE-like(SS1-3)	1 month	verify newly delivered gains and spectral response functions
		ValR11	GGEO (SS11)	4 months	3/03 - 6/03; requires redelivery to handle GOES-9 and GOES-12; requires coefficients
		Edition2A	GGEO (SS11)	4 months	3/03 - 6/03; ValR11 must be approved

Table 2: Process Strategy/Geier as of 06/02/04
Coming Soon (2 of 2)

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
	Aqua	Beta1	CRS(SS5)	first 12 months	July delivery ??
	Aqua	Beta1	FSW (SS6)	first 12 months	test at SCF to verify no redelivery needed
	TRMM	Beta3	SYN/AVG/ ZAVG (SS8)	9 mo	7/23/04 delivery
	Terra	Beta2	SYN/AVG/ ZAVG (SS8)	3/00, 4/00, 1/01, 7/ 01, 10/01	7/23/04 delivery
9/04	Aqua	Edition1A	SSF(SS4)	second 12 months	
	Aqua	Edition1A	SFC(SS9)	second 12 months	
	Terra	Edition2B	SRBAVG (SS10)	50 months	
10/04		ValR11	GGEO (SS11)	? months	7/03 - 6/04; requires coefficients
		Edition2A	GGEO (SS11)	7/03 - 6/04	
	TRMM	Beta4	Synoptic SARB (SS7.2)	9 months	
	Terra	Beta3	Synoptic SARB (SS7.2)	12 months	
11/04	TRMM	Beta4	SYN/AVG/ ZAVG (SS8)	9 months	
	Terra	Beta3	SYN/AVG/ ZAVG (SS8)	12 months	
	Aqua	Beta3	SRBAVG (SS10)	7/03 - 6/04	
	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: June 02, 2004 - System Issues and Status

Activity	Lead	Status
CM	Ayers	• See Table 4 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 4. (Ayers) • Tested the following deliveries and released them to the ASDC: TISA Averaging (SCCR 527), Regrid MOA (SCCR 529), and Instantaneous SARB (SCCR 532). (Ayers) • Delivered the Clouds S'COOL data file for April 2004 to the ASDC. (Ayers)

Table 4: SCCR Activity May 17 at 12:00pm - June 1 at 11:20am

SCCR	S	U	A	C	D	SS	Page No.	Comments
481				X		7.1		
527			X	X		7.1		
528	X					7.1	8	CERESlib modifications.
529	X		X	X		12	8	
530	X					6 & 9	9	CERESlib modifications.
531	X				X	9	9	
532	X		X			5	10	
533	X	X				4.5-4.6	11	CERESlib modifications.
534	X					4.4	13	CERESlib modifications.
535	X					6 & 9	14	
536	X					4.1-4.4	15	

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

CERES Software Configuration Change Request Submittal
==========

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

Subsystem: TISAavg7.1 SCCR Date & TIME: 2004-05-18 12:13:06 SCCR No.: 528

Description of Change (Science):
A data type flag is added to the TSI flux structure.

Reason for Change (Science):
As requested by the scientist to help identifying whether the clear-sky or total-sky SW or LW TOA flux is the CERES, GGEO or interpolated data.

Description of Change (non-Science):
None

Reason for Change (non-Science):
None

Affected PGEs : CER7.1P1.1

Est. Time to Complete Changes: Complete
Planned Delivery Date : May 18, 2004
Impact : Subsystem 7.2

Originator: NGUYEN, CATHY (SAIC)

CERES Software Configuration Change Request Submittal
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Subsystem: MOA SCCR Date & TIME: 2004-05-21 09:34:07 SCCR No.: 529

Description of Change (Science):
None

Reason for Change (Science):
None

Description of Change (non-Science):
Modified ASCII file generator to include only files used for specific production strategies.

Reason for Change (non-Science):
Input files were being staged for production that were not required.

Affected PGEs : CER12.1P1

Est. Time to Complete Changes: 20 minutes
Planned Delivery Date : May 21, 2004
Impact : None

Originator: CALDWELL, THOMAS E. (SAIC)

CERES Software Configuration Change Request Submittal

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

Subsystem: TISAgrid SCCR Date & TIME: 2004-05-21 12:39:31 SCCR No.: 530

Description of Change (Science):
Snow/Ice Percentage from Imager History parameter was deleted from SFC/FSW record type structure.

Reason for Change (Science):
This parameter was used to write admgeo information on the SFC/FSW products. Tisa science members have decided not to include the admgeo flag information on these gridded products.

Description of Change (non-Science): N/A

Reason for Change (non-Science): N/A

Affected PGEs : CER9.2P1,CER9.4P1,CER6.1P1,CER6.3P1

Est. Time to Complete Changes: 1 day
Planned Delivery Date : June 04, 2004
Impact : Subsystems 6 & 9

Originator: RAJU, RAJA (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: TISAgrid9.0 SCCR Date & TIME: 2004-05-21 13:59:40 SCCR No.: 531

Description of Change (Science):
Imager channel 1 radiances were corrected to the sza of the local half-hour. TRMM sw adm types for snow & unknown type were corrected. Cloud area fraction percentage was set to default when there is no imager data for the hour. Julian Time SDS was written as 8-byte REAL on SFC HDF product.

Reason for Change (Science):
Csz correction to radiances was requested by TISA science members. Code was corrected to write SW adm types for clear-sky, total-sky snow & unknown adm types correctly on SFC product. The cloud area fraction was set to defaults to avoid mistaking these data as being clear. There are not enough significant digits in the 4-byte variable to store the precision needed for julian time.

Description of Change (non-Science):
New scripts were setup for PGEs CER9.2P1,CER9.3P1 to compile and create separate executables.

Reason for Change (non-Science):
A separate executable for each PGE was expected by ASDC.

Affected PGEs : CER9.2P1,CER9.3P1,CER9.4P1

Est. Time to Complete Changes: 2 weeks
Planned Delivery Date : June 04, 2004
Impact : TISA subsystems.

Originator: RAJU, RAJA (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: InstSARB SCCR Date & TIME: 2004-05-21 16:03:36 SCCR No.: 532

Description of Change (Science):
None

Reason for Change (Science):
None

Description of Change (non-Science):
Modified IDL QC plotting routine to allow PGE 5.4P1 to run with only two QC report files.

Reason for Change (non-Science):
The previous version required three QC files to run. When ASDC attempted to test with two, the test failed. In this new version, a minimum of two QC files is required for successful testing.

Affected PGEs : CER5.4P1

Est. Time to Complete Changes: 1 hour
Planned Delivery Date : May 21, 2004
Impact : None

Originator: CALDWELL, THOMAS E. (SAIC)

CERES Software Configuration Change Request Submittal
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*** All changes described in this SCCR were made in CERESlib. ***

Subsystem: Inversion SCCR Date: 05/25/2004 SCCR Number: 533

Description of Change (Science):
Modified 2 SSF SDS names
1) ADMGEO was changed to “Snow/ice percent coverage clear-sky overhead-sun vis albedo”
2)”CERES WN ADM type for inversion process” was changed to “Cloud classification”

Reason for Change (Science):
1) The new format of “Snow/ice percent coverage clear-sky overhead-sun vis albedo” (ADMGEO replacement) is:

XYYY where, X=0 CERES FOV centroid is outside of the region near the coastline where micro-wave imager retrievals are unavailable.

X=1 CERES FOV centroid is in region near coastline where microwave imager retrievals are unavailable.

YYY=0-100% or 999
YYY is what we formerly used for ADMGEO. The main difference is that the default value for ADMGEO is now 999 (e.g., “1999” means the FOV is in the region where microwave retrievals are unavailable and there is no snow/ice info from the clear-sky overhead-sun vis albedo maps).

2)Former WN ADM type parameter changed to store Cloud classification based on surface type, cloud height and cloud optical depth.

Description of Change (non-Science):
n/a

Reason for Change (non-Science):
n/a

Affected PGEs : CER4.5-6.1P3, CER4.5-6.3P2 CER5.1P*, and 5.4P*
Est. Time to Complete Changes: 2 days
Planned Delivery Date : May 26, 2004
Impact : Used by future Aqua and Terra Inversion and SARB deliveries
Date: 05/25/2004 Status: SUBMITTED

Originator: NOLAN, SANDY K. (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 533:

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Description of Change (Science):
SDS parameter names were made in module ssf2hdf_params.f90

ssf_typdef.f90 will be modified to change the upper range limit of admtyp_wn (now cloud classification) to 32766

Reason for Change (Science):
Cloud classification value will be stored in ssf_type parameter admtyp_wn and needed a different range.

Description of Change (non-Science):
n/a

Reason for Change (non-Science):
n/a

Affected PGEs : CER4.5-6.1P3, CER4.5-6.3P2 CER5.1P*, 5.4P* & 9.2P1

Est. Time to Complete Changes: 2 days
Planned Delivery Date : May 26, 2004
Impact : Used by future Aqua & Terra Inversion, SARB & TISAgrid deliveries
Date & Time: 2004-05-25 16:39:34

Originator: NOLAN, SANDY K. (SAIC)

CERES Software Configuration Change Request Submittal
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*** All changes described in this SCCR were made in CERESlib. ***

Subsystem: Clouds4.4 SCCR Date & TIME: 2004-05-25 16:21:05 SCCR No.: 534

Description of Change (Science):
None

Reason for Change (Science):
N/A

Description of Change (non-Science):
The GRing module was modified to use correct coordinates for the no footprint case. A GRing that covers the entire globe was added.

Reason for Change (non-Science):
The latitude instead of colatitude was used for the no footprint option. This would result in two of the points being removed while metadata was being generated.
An option to produce a global Gring (Global) was added to replace that functionality when the no footprint case was modified to be only a small area.

Affected PGEs : CER4.1-4.1P3

Est. Time to Complete Changes: One day
Planned Delivery Date : May 28, 2004
Impact : When no footprints are included in the file, the code will segmentation fault while writing the metadata.

Originator: MILLER, WALTER F. (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: TISAgrid SCCR Date & TIME: 2004-05-26 14:00:35 SCCR No.: 535

Description of Change (Science):
** There are no parameter changes associated with this SCCR. SCCR 530 which is associated with the same delivery does have one parameter change which is described in SCCR 530.
Imager channel 1 radiances were corrected to the sza of the local half-hour.
TRMM sw adm types for snow & unknown type were corrected.
Cloud area fraction percentage was set to default when there is no imager data for the hour.
Julian Time SDS was written as 8-byte REAL on SFC HDF product.

Reason for Change (Science):
Csz correction to radiances was requested by TISA science members.
Code was corrected to write SW adm types for clear-sky, total-sky snow & unknown adm types correctly on SFC/FSW products.
The cloud area fraction was set to defaults to avoid mistaking these data as being clear.
There are not enough significant digits in the 4-byte variable to store the precision needed for julian time

Description of Change (non-Science):
New scripts were setup for PGEs CER6.1P1, CER6.2P1, CER9.2P1, CER9.3P1 to compile and create separate executables.

Reason for Change (non-Science):
A separate executable for each PGE was expected by ASDC.

Affected PGEs : All TISA Gridding PGEs except CER9.1P1

Est. Time to Complete Changes: 2 weeks
Planned Delivery Date : June 4, 2004
Impact : TISA subsystems

Originator: RAJU, RAJA (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: Clouds SCCR Date & TIME: 2004-06-01 11:07:03 SCCR No.: 536

Description of Change (Science):
CER4.1-4.1P3

(1). Water content map is re-generated to change defaults to zeres over Antarctica region. The following SSF SDSs will vary: SSF-25, SSF-66, SSF-81, SSF-116, SSF-117, SSF-82 through SSF-114.

(2). The problem over polar/non-polar transition ocean areas (mostly occured in Sea of Okhotsk and Hudson Bay in Terra-MODIS_Edition2-QC) is resolved by having a fix ocean albedo over non-polar region. SSF SDSs: SSF-66, SSF-81, SSF-116, SSF-117, SSF-82 through SSF-114 will vary over the transition ocean areas.

(3). 12 months of clear sky start-up maps are re-created for 0.6 um and 2.1 um respectively. Clear sky maps are the inputs for all algorithms, therefore the new maps will influence many SSF SDSs (mostly SSF-66, SSF-81, SSF-116, SSF-117,SSF-82 through SSF-114) to some degrees.

(4). The following summaries the changes in CERES mask algorithm, which will affect SSF SDSs: SSF-66, SSF-81, SSF-116, and SSF-117

(I) Daytime non-polar:

(a). Consolidated the Terra and Aqua daytime cloud mask into one set for easier maintenance and higher efficiency.

(b). Implemented the new daytime thin Cirrus detection tests over land and desert using MODIS 1.38, 8.55 - 11, 11 - 12 tests and the MOA precipitable water. It significantly improved the thin Ci detection over land. Daytime CERES
cloud mask structure has been changed.

(c). In C3_land tests, improved the low clouds tests and the dark snow detection at high latitudes, smoothed the transition regions.

(II) Daytime polar:

(a). Improved both Aqua and Terra mini-mask for a better classification of the TBD pixels.

(b). Reorganized and cleaned up the Aqua and Terra masks.

(III) Twilight polar:

(a).Improved the twilight Aqua and Terra cloud and snow detection for a smoother transition between polar and non-polar.

(5). When VISST algorithm returns no cloud retrieval, LBTM algorithm is applied. This modification will improve SSF SDSs: SSF-82 through SSF-114.

(6). CERES Overlapping Algorithm was implemented. None of SSF SDS is affected.

(7). Clouds QC structure is modified to include histograms for several cloud properties. None of SSF SDS is affected.

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

(9). 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.

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

Reason for Change (Science):
CER4.1-4.1P3

(1). To fix the bug in the water content map.
(2). To fix clear sky updating scheme over polar/non-polar transition ocean area.
(3). To have more recent updated clera sky maps.
(4). To add daytime thin Cirrus detection
(5). To reduce no cloud retrievals.
(6). New algorithm test.
(7). An improved way to present cloud properties.
(8). The dark visible albedo under a solar ecplipse prevented clouds from being accurately determined.(
(9). Often the water between islands and other features would be lost.
(10). The standard deviation test was not being met over permanent snow. By definition, it should be considered snow.

Description of Change (non-Science):
CER4.1-4.1P3

(1). The number of input files that can be transferred between cloud retrieval and convolution was increased to 120.

Reason for Change (non-Science):
CER4.1-4.1P3

(1). Some files were dropped.

Affected PGEs : CER4.1-4.1P3

Est. Time to Complete Changes: 4 days
Planned Delivery Date : June 4, 2004
Impact : Clouds

Originator: SUN-MACK, SUNNY (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 536:
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Description of Change (Science):
CER4.1-4.2P1 and CER4.1-4.3P1

(1) Same as above (6)

(2) Same as above (7)

Reason for Change (Science):
CER4.1-4.2P1 and CER4.1-4.3P1

(1) Same as above (6)

(2) Same as above (7)

Description of Change (non-Science):
None

Reason for Change (non-Science):
None

Affected PGEs : CER4.1-4.2P1 and CER4.1-4.3P1
Est. Time to Complete Changes: completed.
Planned Delivery Date : June 4, 2004
Impact : Clouds
Date & Time: 2004-06-01 11:11:17

Originator: SUN-MACK, SUNNY (SAIC)

Table 5: June 02, 2004 - Subsystem Issues and Status (1 of 5)

SS No.	SS Lead	Status	Problems
1.0	Cooper	• Continued tracking receipt of Aqua and Terra data at ASDC. (Cooper, Snyder) • Runs complete for updated Aqua gains. Data is being validated before the delivery of the gains to CERES CM, expected on June 11. (Cooper) • Final preparation for running a Terra-Aqua intercalibration (FM1-FM4) June 4- July 7, and also CERES/GERB (FM2) June 10-31. Both are to be run during the summer solstice. (Szewczyk) • A draft of a paper on TRMM-Terra validation has been completed; it is being reviewed by Kory and other team members. (Szewczyk)	
2.0	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) • Generating Edition Comparison plots for each instrument. (Walikainen) • Updated ES9 and ES4s for Scan Offset study. (Walikainen) • Generated ES8 nadir files, Direct comparison plots and Three Channel Intercomparison plots for Terra Edition 2 [Jul03 - Feb04]. (Walikainen)	
3.0	Walikainen	Combined with above.	

Table 5: June 02, 2004 - Subsystem Issues and Status (2 of 5)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	• Processed CloudVis images for Terra-MODIS data for Marie Byrd Land region from February 2000 through September 2001 and for TRMM-VIRS data for the Bermuda region through December 1999. Cloudvis images were also produced for TRMM-VIRS data for the Dry Tortugas region from September 1998 through January 1999. (R.Brown) • Processed Terra-MODIS Edition2-QC QC global images and statistics from April through June 2003. Results are posted on the web. Added CloudFraction as a function of ice and water to QC Viewer and Web. (R.Brown) • Processed and delivered S'COOL file for April 2004. (R.Brown) • Validation and preparation for Aqua-MODIS Edition1 delivery. Run a day of Aqua-MODIS data for many versions of different algorithm changes with before and after cases. Communicated and validated with Pat Minnis on the outputs and the "final version." (All)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	• Tested the delivery code in removing eclipse footprints from processing. Moved code to /ENG on *warlock*. (Miller) • Updated the code to use water percentage to proportion surface area between IGBP type and water. Imager data was produced using 50 percent vs. 90 percent water as a threshold for changing IGBP type to water. A day of data was processed for each of these approaches. (Miller) • Corrected an error in GRing module plus replaced original functionality to produce a global GRing. This was updated in CERESlib. (Miller)	

Table 5: June 02, 2004 - Subsystem Issues and Status (3 of 5)

SS No.	SS Lead	Status	Problems
4.5	Nolan	• Continued work to convert Norman Loeb's Edition2B SW Flux modules to work with Inversion PGE, CER4.5-6.3P2. (Hoppe) • Continued work to convert Norman Loeb's Edition2B LW and WN flux modules to work with Inversion PGEs CER4.5-6.1P3 and, CER4.5-6.3P2. (Nolan) • Created three sets of all available hours for July 1, 2003 Aqua FM3 SSF binary and HDF files for an IGBP type study by Walt Miller. (Nolan) • Extracted SSF daytime FM1 and FM2 subset files for all available 2002 and 2003 days, where one of the instruments was in along-track mode, from the DAAC archive and placed them on the inversion disks for Costy and the ADM Working Group. (Nolan) • Updated CERESlib modules, ssf2hdf_params, to include two new SDS names. Module ssf_typdef was updated to change the range of the cloud classification SDS values. (Nolan) • Initiated work to copy FM2 daytime subsets for May 2003 from the ASDC archive to the Inversion disks for Norman Loeb. (Nolan)	
4.6	Nolan	Combined with above.	
5.0	Coleman	• Processed first day of Aqua CRS files at the SCF and made them available to the SARB Working Group for evaluation. (Caldwell) • Ran test cases for the Clouds group's two approaches to the Aqua ADMgeo parameter definition. (Caldwell) • Added the requested nine new validation sites to the CERESlib module ceres_valregions. Upgrading the graphics program to include these nine new regions. (Zentz)	

Table 5: June 02, 2004 - Subsystem Issues and Status (4 of 5)

SS No.	SS Lead	Status	Problems
7.2	Coleman	• Modifying aerosol retrieval modules for the MATCH vertical profile data. (Zentz) • Defined new UVA-UVB data structure for inclusion on the SYNI file and provided it to the SARB Working Group for review. (Coleman, Caldwell) • Prepared updates to routines to print SYNI data and test-suites comparison software to include the new structure. (Coleman)	
12.0	Coleman	• Corrected and delivered ascii filename generator script to match latest changes to the PCF generator script. (Caldwell)	
7.1	Nguyen	• Delivered the code and test plan to CM. (Nguyen) • Updating the program for CM testing and comparing the outputs. (Nguyen)	
8.0	Nguyen	• Including the new TSI structure. Compiled and tested the code. In progress of comparing the outputs with the old outputs. (Nguyen)	
10.0	Nguyen	• Supporting Lin Chambers in using the TRMM ADM code for SSF and TISA averaging. (Nguyen)	
6.0	Raju	• Preparing for subsystem delivery. (Raju)	
9.0	Raju	• Preparing for subsystem delivery. (Raju) • It was found that PGE CER9.2P1 needs to process first 12 hours of the following month data to create overlap files and these files need to be included in the PGE CER9.3P1 process. PGE CER9.2P1 process code and PCF generator scripts were updated. Validation runs were made at SCF. (Raju)	

Table 5: June 02, 2004 - Subsystem Issues and Status (5 of 5)

SS No.	SS Lead	Status	Problems
11.0	Stassi	• The Cloud Subsystem library source code, along with certain critical ancillary data files, were added to the GGEO directory structure. The GGEO subsystem will continue to access script files from the Clouds Subsystem directories, but duplicates of these were also included under the GGEO directory for reference purposes. The GGEO test suites were run with the new setup and completed successfully. (Stassi) • Ran a program to check the headers on the reordered September 2000 GMS-5 data which arrived. The headers look correct. (Stassi) • Started diagramming the GGEO Cloudplot program with MS PowerPoint. Found an error in how the snow_ice_percent() array was being indexed. When this was corrected, it increased the number of points on the plots. Reran the July 2001 data on *thunder* and made the results available to Dave Young and Dave Doelling. (Stassi) • Started testing the GGEO subsystem on the CERES testbed machine. (Stassi)	
CERESlib Stassi/Ayers		• The following modules were updated in the SCF versions of CERESlib: ssf2hdf_params.f90, fsw.f90, GRing.f90, sf_type_def.f90, and tisa_grid_type_def.f90. (Stassi) • Corrected the CERESlib account on the offsite SGI server, *space*, so that it is usable. Removed the cerlibcm (CERESlib) account from SGI and SUN machines which are no longer servers. (Knapp, Owens, Stassi) • Set up the cerlibcm accounts on *warlock* and on the SGI and SUN server machines so that updates are made using secure shell commands. (Flippo, Stassi)	