December 3, 2003 - System Issues and Status

Table 1: Process Strategy/Geier as of 12/03/03
Active Requests in order of priority (1 of 2)

Production Request (PR)	Satellite	Production Strategy	Data Product	Data Dates	Special Status
PR 99-03		GEOS4	MOA	2/25/00 - 12/31/03	
PR 96-03, 97-03	Terra	Edition2-QC	SSF	3/00 - 2/03	Clouds and Inversion running.
PR 109-03		GEOS4	PMOA	3/1/00 - 12/31/03	Still need to reprocess based on MOA redelivery.
PR 106-03, 107-03		ValR9, ValR9E	GGEO	3/00 - 2/03; every 3rd month	Waiting on GGEO delivery.
PR 103-03 to 105-03	Terra	Beta3, Beta3B, Beta3E	SRBAVG	3/00 - 2/03; every 3rd month	No delivery needed.
PR 95-03	Terra	Beta2	SFC	3/00 - 2/03; every 3rd month	Promote most recent delivery before processing.
PR 94-03	Terra	Beta5	CRS	1/01 - 12/01	Beta5 SSF input; Process crosstrack only.
PR 93-03	Terra	Beta5	FSW	1/01 - 12/01	Processing.
Standing requests PM-PR 23-02 to 30-02 and PM-PRs 1-03, 3-03 to 6-03	Aqua	Baseline1 Edition1	BDS/ ERBElike BDS/ ERBElike	For 6/03 - present	
Standing request PM-PR 2-03	Aqua/ Terra	Edition1	ES4/ES9	For 6/03 - present	
Standing requests AM-PR 1-00 to 7-00	Terra	Edition1	BDS/ ERBElike	For 6/03 - present	
M-PR 3-02		NSIDC-NES-DIS	EICE ESNOW	Standing request	
PR 102-03	Terra	Beta5	CRS	FM2: 1/16/01, 1/30/01, 6/5/01, 6/19/01; FM1: 3/13/01, 3/27/03	Selected alongtrack days.

Table 1: Process Strategy/Geier as of 12/03/03
Active Requests in order of priority (2 of 2)

Production Request (PR)	Satellite	Production Strategy	Data Product	Data Dates	Special Status
PR 96-03, 97-03	Terra	Edition2-QC	SSF	3/03 - 6/03	Run at LOW priority after 2/03 finishes.
PR 61-03	Terra	Beta1	Synoptic SARB	1/01, 4/01, 7/01	**ON HOLD** Requires redelivery currently scheduled 12/19/03. If full delivery fixes segmentation faults, rerun TRMM data.

Table 2: Process Strategy/Geier as of 12/03/03
Coming Soon

Active Month	Satellite	Processing Strategy	Data Product	Data Dates	Comments
12/03	Terra	ValR2 (Inversion only)	SSF	June'00	Waiting on delivery. This must be approved before Edition2A starts.
	Terra	Edition2A (Inversion only)	SSF	3/00 - 6/03	Production starts once ValR2 approved.
	Aqua	Beta2	SSF	12/02 or 1/03	Cloud delivery scheduled 12/12. Include renamed MODIS aerosol parameter; 4x2 MODIS; every other SSF FOV when vzen < 63 deg. Run with ECMWF MOA, if DAO-GEOS4 not available.
	Aqua	Beta1	CRS	1 month	May or may not need redelivery to support Aqua.
	Terra	Beta6	FSW	1/01 - 12/01	10/31/03 delivery. Picks up new CRS parameters.
	Aqua	Beta1	FSW	1 month	Requires redelivery of 6.3; currently scheduled together with Terra delivery that picks up additional CRS parameters; delivery expected 10/31/03.
1/04	Aqua	Edition2	BDS	6/18/02 - present	Baseline1 processing to end when this begins; Edition1 to be run with 1.1.
	Aqua	Edition2	ERBElike	6/18/02 - present	Baseline1 processing to end when this begins.
	Terra	Beta2	TSI	3/00 - 2/01	Delivery date slipped to 12/5.
	Terra	Beta1	SYN/AVG/ZAVG	1/01, 4/01, 7/01	Delivery date slipped to 12/5.
	Aqua	Beta1	TSI		Not on Bruce's schedule.
	TRMM	Beta2	Synoptic SARB	4/98, 7/98, 8/98	Rerun 3 months of SYNI to use as input for SYN/AVG/ZAVG.
	TRMM	Beta1	SYN/AVG/ZAVG	4/98, 7/98, 8/98	Delivery expected 12/5/03.
	Aqua	Beta1	Synoptic SARB		Not on Bruce's schedule.
	Aqua	Beta1	SYN/AVG/ZAVG		Not on Bruce's schedule.

Table 3: December 3, 2003 - 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: Clouds (SCCR 485) and GGEO (SCCR 486). (Ayers, Saunders) • Currently testing TISA Averaging SCCRs 461 and 482. (Ayers)

Table 4: SCCR Activity November 17 at 12:30 p.m. - December 1 at 2:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
484	X					2 & 3	5	
485	X		X	X		4.1-4.4	5	
486	X		X			11	6	

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

CERES Software Configuration Change Request Submittal

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Subsystem: ERBElike   SCCR Date & TIME: 2003-11-21 14:13:24   SCCR No.: 484

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
1.   CER3.1P1, CER3.2P1 - Incorporated the ES-4 statistics plotting software.
2.   CER3.2P2 - Modified the direct comparison software and three- channel intercomparison software to incorporate the production strategy. The software to produce scatter plots colored by scene id and density plots was added.

Reason for Change (non-Science):
1.   Added ability to produce LW and SW Flux averages and standard deviation plots.
2.   Comparisons between versions (i.e. Terra Edition1 and Edition2) were needed. Addition plots to validate the data were needed.

Affected PGEs   : CER3.1P1, CER3.2P1 and CER3.2P2

Est. Time to Complete Changes   : 2 weeks
Planned Delivery Date   : December 5, 2003
Impact   : None

Originator: KIZER, EDWARD A.   (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: Clouds   SCCR Date & TIME: 2003-11-21 15:10:56   SCCR No.: 485

Description of Change (Science):
None

Reason for Change (Science):
N/A

Description of Change (non-Science):
CER4.1-4.1P2: SIRTA location was modified.

Reason for Change (non-Science):
CER4.1-4.1P2: To have the correct SIRTA geolocation for CloudVis subsets.

Affected PGEs   : CER4.1-4.1P2 (delta delivery)

Est. Time to Complete Changes   : Completed.
Planned Delivery Date   : Nov. 21, 2003
Impact   : Clouds

Originator: SUN-MACK, SUNNY   (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: GGEO   SCCR Date & TIME: 2003-11-23 16:46:32   SCCR No.: 486

Description of Change (Science):
1. Added satellite-specific ratios to correct clear-sky albedo.
2. Altered the way snow is handled.
3. Using trend-line calibrations instead of calculating calibrations during first pass processing.
4. Modified code to calculate calibration tables for each hour instead of once per month (i.e. once per PGE)

Reason for Change (Science):
1. Required by Tisa science team to improve calculation of GGEO cloud properties.
2. To improve the ability of the code to distinguish between snow and clouds.
3. This is a more reliable calibration.
4. This was necessary since some of the new calibrations are time-dependent.

Description of Change (non-Science):
Modifications to Web plots included adding log-like scale for Cloud Optical Depth plot colorbar, reducing the scale for the Total Cloud Temperature plot colorbar, and correcting the plots for Number of VIS (or IR) Observations so that default values are not displayed.

Reason for Change (non-Science):
These changes make it easier to derive useful information from the Web plots.

Affected PGEs   : the GGEO PGEs

Est. Time to Complete Changes   : most changes are already implemented
Planned Delivery Date   : Monday November 24, 2003
Impact   : hopefully will produce better GGEO results

Originator: STASSI, JOE C.   (SAIC)

Table 5: December 3, 2003 - Subsystem Issues and Status (1 of 4)

SS No.	SS Lead	Status	Problems
1.0	Cooper	• Continued tracking receipt of Aqua and Terra data. (Cooper, Snyder) • Continued testing of the code updates to add double drift correction for Aqua Edition2 processing. A bug found during verification is being worked and updated test data is being created to test the code updates. (Cooper, Escuadra, Spence) • Continued verifying double drift correction implementation. (Spence)	
2.0	Kizer	• Continued preparing ERBE-like software for scheduled delivery. Reevaluating usage of input files for idl programs. (Kizer) • Continuing to modify the SS3 Operator's Manual to show additional scatter plots and ES-4 statistics plots. (Kizer) • Generated all production ES-4 statistics plots generated by es4_stats plotting software. (Kizer) • 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, Kizer)	
3.0	Kizer	Combined with above.	
4.1	Sun-Mack	• Worked on case studies for thin cirrus. Lots of communications with Pat Minnis. (S. Sun-Mack) • Worked on GGEO clouds. Communicated with Dave Young. (S. Sun-Mack) • On vacation. (R.Brown)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	

SS No.	SS Lead	Status	Problems
4.4	Miller	• Terra Edition2-QC clouds production was monitored. Thirty-three, 32, 46, 10, 303, and 9 hours failed in April, May, June, July, August, and September 2000, respectively. Missing IES and MODIS data were the cause for the majority of missing hours. There was a 12 day gap in MODIS data in August 2000. (Miller) • The broadband vs. narrowband regression and graphics were completed for three months of Aqua Beta1 data. (Miller) • Scripts were updated for Aqua processing. (Miller) • Failed GRings using the test database were investigated. The problems were caused by missing data in the granule and data distributions that were not previously tested. A work around is being discussed with ASDC. (Miller)	
4.5	Nolan	• Completed updates to PGE CER4,5-6.3P2. Created scripts and test data for new PGE CER4.5-6.3P3. (Nolan) • Updated Inversion Test Plan and Operator's Manual to include Terra Edition2 updates and new PGE CER4.5-6.3P3. (Nolan) • Created Edition1A day subset files for Norman Loeb. A total of five days worth of data was created. (Hoppe) • Moved one month of subset aerosol, subset day and subset night data to inversion-b disk on lightning. (Hoppe)	
4.6	Nolan	Combined with above.	

Table 5: December 3, 2003 - Subsystem Issues and Status (3 of 4)

SS No.	SS Lead	Status	Problems
5.0	Coleman	• Successfully compiled initial modifications (mapping existing parameters into new data structures supplied by SARB Working Group) for the Terra Edition2B version of the code. (Caldwell) • Added capability to the Monthly QC Summary Post-Processor to produce files needed for plotting the QC statistics from the month. (Zentz) • Discussing testing details for the new version of the Main-Processor with the SARB Working Group. Made the initial (baseline) run for resource information. (Coleman)	
7.2	Coleman	• Tested Fortran logic in the Synoptic SARB Subsystem for reading in the daily MATCH files used during the Terra time frame. (Zentz)	
12.0	Coleman	• Discussed with ASDC about whether or not to make a delta delivery of the Regrid MOA scripts. The decision was to not do so at this time. In this case, changing the CC number mid-stream is less desirable than having the ECMWF file names included in the PCF. (Coleman) • Provided sample ECMWF read scripts to Eugene Clothiaux at Penn State. (Caldwell)	
7.1	Nguyen	• Corrected the errors in writing outputs for the polar regions. Made January 2001 TSI movie for validation. (Nguyen) • Combined the interpolation code from SS10. Tested and delivered the code to CM. (Nguyen)	
8.0	Nguyen	• Combined the averaged code from SS10. Tested and delivered the code to CM. (Nguyen)	
10.0	Nguyen	• Ran January 2001 SRBAVG with the set value of input LW fluxes and albedos to check for the global flux imbalance. (Nguyen)	

Table 5: December 3, 2003 - Subsystem Issues and Status (4 of 4)

SS No.	SS Lead	Status	Problems
6.0	Raju	• Work was started to update FSW product read software to include Clear Sky no aerosol parameters' information. (Raju) • Since the new Terra FSW product was not yet available, another FORTRAN program was written to read flux data from SSF product and to calculate Directional model albedo values as a function of solar zenith angle and latitude for Clear Sky snow TRMM ADM type. Program was ran for selected days at SCF using Beta5 SSF files Nov. 01 - Jan. 02 for the South Pole & May 02 - July 02 for the North Pole. The generated output and the plots were sent to TISA science members for review & approval. (Raju)	
9.0	Raju	• No new updates. (Raju)	
11.0	Stassi	• Implemented Dave Doelling's latest IR and VIS channel calibration adjustments to the GGEO source code. (Stassi) • Added the revise_clear.f file to the GGEO src/clouds_retrieval directory. The Clouds subsystem version of this file contains an unwanted PRINT statement. (Stassi, Sun-Mack) • Modified the GGEO PCF generator scripts to include logic ID information about the METEOSAT calibration ancillary data files. Modified the GGEO source code to use this information when opening and closing the files. (Stassi) • Modified the Clouds Chunk module to use the snow model for clearsky reflectance for snow/ice scenes. (Sun-Mack) • Reran the January 2001 data for all satellites and the April 2001 GOES-10 data through second-pass processing with the latest updates. (Stassi, Nguyen) • The GGEO subsystem was delivered to CERES CM. (Stassi)	
CERESlib Stassi/Ayers		• No updates.	