

December 17, 2003 - System Issues and Status

**Table 1: Process Strategy/Geier as of 12/17/03
Active Requests in order of priority (1 of 4)**

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 95-03	Terra	Beta2	SFC (SS9)	9.2P1 9.3P1 9.4P1	3/00 - 3/01 every 3rd month	
PR 106-03, 107-03		ValR9, ValR9E	GGEO (SS11)	11.1P5 11.1P6 11.1P7 11.1P8 11.2P2 11.4P1	3/00 - 2/03; every 3rd month	Waiting on GGEO promotion.
PR 103-03 to 105-03	Terra	Beta3, Beta3B, Beta3E	SRBAVG (SS10)	10.1P1	3/00 - 2/03; every 3rd month	No delivery needed.
PR 115-03	Terra	ValR2 (Inversion only)	SSF (SS4.5)	4.5-63P2 4.5-62P2	6/00	Waiting on delivery. This must be approved before Edition2A starts.
PR 114-03	Terra	ValR2 (Inversion only)	SFC (SS9)	9.2P1 9.3P1 9.4P1	6/00	This must be approved before Edition2A starts.
PR 129-03, 130-03	Aqua	ValR3	BDS (SS1)	1.1P5 1.2P1 1.3P3 1.2P1	6/03	Finish 12/03 Baseline1 processing before promoting this delivery
PR 124-03 to 128-03	Aqua Aqua/ Terra	ValR3	ERBELike (SS2&3)	2.4P1 2.2P1 2.3P1 2.3P2 3.1P1 3.2P1 3.2P2	6/03	Finish 12/03 Baseline1 processing before promoting this delivery.
PR 96-03, 97-03	Terra	Edition2-QC	SSF (SS4)	4.1-4.1P2 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1 4.5-6.1P2 4.5-62P2	3/00 - 2/03	Clouds and Inversion running.
PR 131-03	Terra	Beta6	FSW (SS6)	6.1P1 6.2P1 6.3P1	3/01	10/31/03 delivery. Picks up new CRS parameters.

Table 1: Process Strategy/Geier as of 12/17/03
Active Requests in order of priority (2 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 113-03	Terra	Edition2A (Inversion only)	SSF (SS4.5)	4.5-6.3P2 4.5-6.2P2	2/25/00 - 6/03	Production starts once ValR2 approved.
PR 112-03	Terra	Edition2A	SFC (SS9)	9.2P1 9.3P1 9.4P1	3/00 - 6/03	Production starts once ValR2 approved.
PR 99-03		GEOS4	MOA (SS12)	12.1P1	2/25/00 - 12/31/03	
PR 109-03		GEOS4	PMOA (SS9.1)	9.1P1	3/1/00 - 12/31/03	Still need to reprocess based on MOA redelivery.
PR 94-03	Terra	Beta5	CRS (SS5)	5.0P1 5.1P1 5.4P1	1/01 - 12/01	Done 12/1/03
PR 93-03	Terra	Beta5	FSW (SS6)	6.1P1 6.2P1 6.3P1	1/01 - 12/01	Done 12/2/03
PR 122-03, 123-03	Aqua	Edition2	BDS (SS1)	1.3P3 1.2P1	6/18/02 - 12/03	ValR3 must be approved before starting this.
PR 117-03 to 121-03	Aqua Aqua/ Terra	Edition2	ERBELike (SS2&3)	2.4P1 2.2P1 2.3P1 2.3P2 3.1P1 3.2P1 3.2P2	6/18/02 - 12/03	ValR3 must be approved before starting this.
Standing requests PM-PR 23-02 to 30-02 and PM-PRs 1-03, 3-03 to 6-03	Aqua	Baseline1 Edition1	BDS/ ERBELike (SS1-3) BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 1.3P3 2.2P1 2.3P1 2.3P2 2.4P1 3.1P1 3.2P2	For 6/03 - 12/03	
Standing request PM-PR 2-03	Aqua/ Terra	Edition1	ES4/ES9 (SS3)	3.2P1	For 6/03 - 12/03	

Table 1: Process Strategy/Geier as of 12/17/03
Active Requests in order of priority (3 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	For 1/00 - present	
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	Need Gains and SCR before processing any further (ValRX approved).
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 1/04 - present	Do not start until all January'04 data received.
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 1/04 - present	Need Gains and SCR before processing any further (ValRX approved).
Standing request PM-PR 12-03	Aqua/ Terra	Edition2	ES4/ES9 (SS3)	3.2P1	For 1/04 - present	Need Gains and SCR before processing any further (ValRX approved).
M-PR 3-02		NSIDC- NESDIS	EICE ESNOW (SS4.1)	4.1-4.0P1	Standing request	

Table 1: Process Strategy/Geier as of 12/17/03
Active Requests in order of priority (4 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 102-03	Terra	Beta5	CRS (SS5)	5.0P1 5.1P1 5.4P1	FM2: 1/16/01, 1/30/01, 6/5/01, 6/19/01; FM1: 3/13/01, 3/27/01	Done 12/2/03
PR 116-03	TRMM	Beta3	TSI (SS7.1)	7.1.1P1	4/98, 7/98, 8/98	
PR 96-03, 97-03	Terra	Edition2-QC	SSF (SS4)	4.1-4.1P2 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1 4.5-6.1P2 4.5-6.2P2	3/03 - 6/03	Run at LOW priority after 2/03 finishes.
PR 113-03	Terra	Edition2A (Inversion only)	SSF (SS4.5)	4.5-6.3P2 4.5-6.2P2	3/03 - 6/03	Run at LOW priority after 2/03 finishes.
PR 112-03	Terra	Edition2A	SFC (SS9)	9.2P1 9.3P1 9.4P1	3/03- 6/03	Run at LOW priority after 2/03 finishes.
PR 61-03	Terra	Beta1	Synoptic SARB (SS7.2)	7.2.1P1	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 12/17/03
Coming Soon (1 of 2)

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
1/04		Edition2	GGEO (SS11)	3/00 - 2/03	To start when ValR9 approved.
	Terra	ValR1	SRBAVG (SS10)	1-2 months	Waiting on delivery.
	Terra	Edition2A	SRBAVG (SS10)	3/00 - 2/03	ValR1 must be approved first.
	Terra	ValR1	CRS (SS5)	Several days	Waiting on delivery.
	Terra	Edition2A	CRS (SS5)	2/25/00 - 6/03	Waiting on delivery.
	Terra	ValR1	FSW (SS6)	One month	
	Terra	Edition2A	FSW (SS6)	3/00 - 6/03	
	Aqua	Beta2	SSF (SS4)	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	Beta2	SFC (SS9)	1 month	
	Aqua	Beta1	CRS (SS5)	1 month	May or may not need redelivery to support Aqua.
	Aqua	Beta1	FSW (SS6)	1 month	Test at SCF to verify no redelivery needed.
	TRMM	Beta2	Synoptic SARB (SS7.2)	4/98, 7/98, 8/98	Rerun 3 months of SYNI to use as input for SYN/AVG/ZAVG.
	TRMM	Beta1	SYN/AVG/ZAVG (SS8)	4/98, 7/98, 8/98	Need Synoptic SARB input.
	Terra	Beta2	TSI (SS7.1)	??	
	Terra	Beta1	SYN/AVG/ZAVG (SS8)	??	Need Synoptic SARB input.

**Table 2: Process Strategy/Geier as of 12/17/03
Coming Soon (2 of 2)**

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
	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: December 17, 2003 - System Issues and Status

Activity	Lead	Status
CM	Ayers	<ul style="list-style-type: none"> • See Table 4 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 4. (Ayers) • Tested the Inversion delivery (SCCR 488) and released it to the ASDC. (Ayers) • Delivered updated GGEO (SCCR 486) files to the ASDC. (Ayers) • Currently testing TISA Averaging (SCCRs 462 and 481) and ERBE-like (SCCR 484). (Ayers, Saunders) • Delivered the TISA Gridding FSW Sample Read Package to the ASDC. (Ayers)

Table 4: SCCR Activity December 1 at 2:00 p.m. - December 15 at 3:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
476				X		6 & 9		
484			X			2 & 3		
487			X			6		
488	X		X			4.5-4.6	8	

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

CERES Software Configuration Change Request Submittal

=====

Subsystem: Inversion SCCR Date & TIME: 2003-12-03 13:40:30 SCCR No.: 488

Description of Change (Science):

PGE CER4.5-6.3P2 (Terra Inversion-only) was updated to use the Terra Edition2 ADMs.

New PGE CER4.5-6.3P3 (Aqua Inversion-only) was created and will use the Terra Edition2 ADMs.

Reason for Change (Science):

New Terra Edition2 ADMs

Description of Change (non-Science):

n/a

Reason for Change (non-Science):

n/a

Affected PGEs : CER4.5-6.3P2, CER4.5-6.3P3

Est. Time to Complete Changes : 1 week

Planned Delivery Date : December 12, 2003

Impact : Edition2A SSF products will be created

Originator: NOLAN, SANDY K. (SAIC)

Table 5: December 17, 2003 - Subsystem Issues and Status (1 of 5)

SS No.	SS Lead	Status	Problems
1.0	Cooper	<ul style="list-style-type: none">Continued tracking receipt of Aqua and Terra data. (Cooper, Snyder)Continued validation efforts for the updates to the SS1 code to add Double Drift Correction. (Cooper, Escuadra, Spence)PPS has been restarted on 12/11 after analysis of trial runs on 12/05. The analysis resulted in a minor modification to the procedure to avoid resets. (Szewczyk)GERB validation campaign has been also restarted on 12/11. (Szewczyk)	
2.0	Kizer	<ul style="list-style-type: none">Delivered the ERBE-like software SCCR #484 to CERES CM as scheduled. (Kizer)Modified and delivered the SS3 Operator's Manual to CERES CM as scheduled. (Kizer)Processing ERBE-like inversion software for all available Aqua input for instrument testing. (Walikainen, 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.	

Table 5: December 17, 2003 - Subsystem Issues and Status (2 of 5)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	<ul style="list-style-type: none"> Completed processing Terra MODIS Edition2 QC results through December 2000 and posted results on the web. (R. Brown) Continued processing CloudVis images for Terra MODIS Edition1A for the Greenland region through January 2001. CloudVis images were processed for TRMM VIRS Edition2 for the Pacific ITCZ region and Nauru regions through March 1999. (R. Brown) Continued working on case studies fro thin cirrus. Post-processed MOD06 results. Compared the results between CERES, MODIS and surface. (S. Sun-Mack) Worked on GGEO clouds. (S. Sun-Mack) Worked on implementing revised clouds retrieval algorithm. (S. 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"> Terra Edition2-QC clouds production was monitored. October 2000 through January 2001 has been completed. Only one hour failed to process that had an IES available during the time. That particular job hung while running. (Miller) The GRing module was updated to correctly determine the boundaries for the problem orbits or a box surrounding the data. (Miller) Responded to questions from Ms. Nitchie Smith on how to interpret the MODIS aerosol values on the SSF. (Miller) Investigated the MODIS aerosol land and ocean area where the sum of the two exceeds 100%. (Miller) 	

Table 5: December 17, 2003 - Subsystem Issues and Status (3 of 5)

SS No.	SS Lead	Status	Problems
4.5	Nolan	<ul style="list-style-type: none"> Completed validation and testing of PGEs CER4.5-6.3P2, and CER4.5-6.3P3. Delivered PGEs and final delivery memo to CERES CM on December 8, 2003. (Nolan) Delivered updated Inversion Test Plan and Operator's Manual to CERES Documentation on December 8, 2003. (Nolan) Initiated work to update PGEs CER4.5-6.1P2, and CER4.5-6.1P3 to use the Terra Edition2 ADMs. (Nolan) Created Edition2-QC monthly validation data for Anne Wilbur. The completed months were March through December of 2000, and January of 2001. (Hoppe) Modified existing IDL software to read HDF sds's of yearly validation data. (Hoppe) Updated the Inversion Production Code Webpage to include Edition2-QC subset information. (Hoppe) 	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Successfully processing one FOV with new radiative transfer model. Preparing to process a full hour. (Caldwell, Coleman) Implementing science algorithm upgrade to the Monthly Pre-Processor. (Caldwell) 	
7.2	Coleman	<ul style="list-style-type: none"> Successfully tested with latest SCF-produced TSIB TRMM files. Preparing to test with latest TSIB Terra files, and will then prepare for delivery. (Coleman) Developed a new pre-processor to produce a monthly file of interpolated daily CRH data, to be included with a spring delivery. Developing associated validation and QC utilities. (Zentz) 	
12.0	Coleman	<ul style="list-style-type: none"> No new updates. 	

Table 5: December 17, 2003 - Subsystem Issues and Status (4 of 5)

SS No.	SS Lead	Status	Problems
7.1	Nguyen	<ul style="list-style-type: none">• Corrected errors in calculating cloud parameters. (Nguyen)• Corrected errors in transferring data from local time to GMT. (Nguyen)• Ran 1998 July to give SS7.2 the output for testing. Re-delivered the code and the outputs for further testing. (Nguyen)	
8.0	Nguyen	<ul style="list-style-type: none">• CM found that the comparison of the outputs from testing and the delivered outputs are not the same. The input TSIs to the Subsystem have lots of NaN and the inputs SYNIs were not compatible. Used the latest outputs July 1998 TSI and SYNI for testing. Delivered the new outputs to CM for testing. The testing was successfully completed. (Nguyen)	
10.0	Nguyen	<ul style="list-style-type: none">• Ran January 2001 Terra SRBAVG with the sampling restriction for Dave Young. (Nguyen)• Created January and June 2001 GGEO albedo and CERES albedo data for Dave Doelling for the narrowband to broadband conversion. Creating July 2001 albedo data. (Nguyen)• Replacing the old Directional Models in ERBE-like method and ran the whole month with the sampling restriction for diagnosis purposes. (Nguyen)	
6.0	Raju	<ul style="list-style-type: none">• The read software for the FSW HDF product was updated and delivered to CERES CM. (Raju)	
9.0	Raju	<ul style="list-style-type: none">• No updates. (Raju)	

Table 5: December 17, 2003 - Subsystem Issues and Status (5 of 5)

SS No.	SS Lead	Status	Problems
11.0	Stassi	<ul style="list-style-type: none">• A problem was discovered in GGEO clouds processing while running July 2001 METEO-5 data at the SCF. The 1730 hour each day fell into a infinite loop. The Clouds subsystem subroutine, assignlayer(), was modified and added to the GGEO clouds_retrieval source directory. Expected output was recreated for PGEs CER11.1P5-8, CER11.2P2, and CER11.4P1. The changes were given to CERES CM. (Stassi, Sun-Mack)• The optical depth plot was modified in the cloud_plot PGE to plot the natural log of the optical depth values and to only plot values which correspond to MODIS cloud amount > 75%. Created plot files for January and April 2001, and October 2002. (Stassi)	
CERESlib Stassi/Ayers		<ul style="list-style-type: none">• No updates.	