

November 30, 2005 - System Issues and Status

Table 1: Process Strategy/Geier as of 11/30/05
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 4/1-3/05	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 4/1-3/05	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.

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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	Done 11/22/05.
144-05	Aqua	ValR8	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2	8/7/02	Done 11/22/05.
142-05 to 143-05	Aqua	ValR9	Inversion (SS4.5-6)	4.5-6.3P3 4.5-6.2P2	8/7/02	Done 11/22/05.
140-05 to 141-05	Aqua	ValR10	Inversion (SS4.5-6)	4.5-6.6P3 4.5-6.2P2	8/7/02	Done 11/23/05.
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	Done 11/25/05.
122-05 to 125-05		Beta4	GGEO (SS11)	11.1P5 11.1P6 11.1P7 11.1P8 11.2P2	3/03 - 4/03	Done 11/17/05.
120-05 to 121-05		Beta4	GGEO (SS11)	11.1P5 11.1P6 11.1P7 11.1P10 11.2P2	6/03 - 5/04	Done 11/23/05.
118-05 to 119-05		Beta4	GGEO (SS11)	11.1P10 11.2P2	6/04 - 12/04	Done 11/21/05.

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Active Requests in order of priority (3 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
117-05		Beta4	GGEO (SS11)	11.4P1	3/03 - 12/04	Processing complete 11/22/05; due to wrapper problems 6/03 - 12/04 not in archive.
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- PR 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 11/30/05
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.
M PR 2-04		GEOS4	MOA (SS12)	12.1P1	Standing request	
M PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	Standing request	
136-05	Terra	ValR9	TISA grid (SS9)	9.3P1 9.4P1	5/05	Process in APGS. Done 11/8/05.
135-05	Aqua	ValR9	TISA grid (SS9)	6.1P1 6.2P1 6.3P1	5/05	Process in APGS. Done 11/15/05.

Table 1: Process Strategy/Geier as of 11/30/05
Active Requests in order of priority (5 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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 11/30/05
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 30, 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)• Installed, compiled, and tested the following deliveries on <i>warlock</i> and released them to the ASDC: TISA Averaging (SCCR 583) and Instrument (SCCR 599). (Ayers, Saunders)• Updated the following documents and delivered them to the ASDC: TISA Averaging Test Plan and Operator's Manual, and Instrument Test Plan and Operator's Manual. (Saunders, Ayers)• Testing the CERESlib (SCCR 604) delivery on the IBM/Linux cluster. (Ayers)• Delivered the October 2005 Clouds S'COOL data file to the ASDC. (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)
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 9	December 2	Aqua gains files for April 2005 - September 2005.		
ERBE-like	N/A	December 9	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.		
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.		

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)
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 November 14 at 4:00 p.m. - November 28 at 1:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
596				X		4.5 & 4.6		
599			X			1		
603			X			4.1 - 4.3		
604			X			CERESlib		
605	X					1	10	

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

CERES Software Configuration Change Request Submittal

Subsystem: Instrument

SCCR Date & TIME: 2005-11-21 15:45:44

SCCR No.: 605

Parameter Change: () YES (X) NO

Description of Change (Science):

N/A

Reason for Change (Science):

N/A

Description of Change (non-Science):

Update BDS read package to reflect new Solar and Lunar Angles added to the BDS Product via SCCR# 599, Reqt.# 1-5.

Reason for Change (non-Science):

SCCR# 599, Reqt. 1-5 added new Solar and Lunar angles to the BDS output product. The read package which is delivered to users of the product when the product is ordered must be updated to add these new SDSs and Vdata parameters.

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: NONE - Read Package

Estimated Time to Complete Change : 3 days

Planned Delivery Date : 11/23/05

List Affected Subsystems and PGE Names: No impact, Read Package only

Originator: COOPER, DENISE L. (SAIC)

Table 6: November 30, 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) Delivery for SCCR# 599, Reqt. # 1-5, 1-6, 1-7, & 1-8 was completed and sent to CERES CM. CM testing is complete and the delivery was sent on to ASDC for operational testing. Operational testing for this delivery is expected to take longer than normal since this delivery re-introduced the TRMM for all of the PGEs, which adds several more test cases that need to be run to complete the operational testing. (Cooper) Work continued to develop a daily direct compare which uses all the Earth viewing data in a scan rather than only Nadir points. Results from the quick analysis program were presented to Kory. At this time the results do not look all that different than those that use only Nadir. (Szewczyk) The related documentation for updates made for SCCR# 599 has been completed. Documents that were updated are as follows: Data Products Catalog, Operator's Manual, and the Instrument Test Plan. A new BDS read package was also delivered to cover the changes to the BDS product. (Cooper) 	
2.0	Walikainen	<ul style="list-style-type: none"> Continuing to monitor Terra Direct Compare with FM2 in cross track mode after its two months of stow. (Walikainen) Developing a 'full-scan' direct compare. As a first attempt a simple averaging of all data was examined. This proved to be too noisy to determine possible cross track degradation. (Walikainen) Starting initial test to determine spectral correction coefficients for Aqua Edition2 (April-October 2005). (Walikainen) Continuing to examine the production email generated by the QC checker software. (Walikainen) 	

Table 6: November 30, 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"> 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 Aqua MODIS Edition1A data were completed for Salt Lake City and Paliseau, France regions from January 2005 through March 2005. Also images were generated for the San Nicolas Islands and Bermuda regions from September 2002 through March 2005. CloudVis images for Terra MODIS Edition2QC data were generated for the Marie Byrd Land region through June 2005. Results are posted on the Web. (R. Brown) Currently developing code to compute multiyear seasonal, seasonal, and annual zonal averages as a function of phase and ecosystem and zonal cloud fraction as a function of eco-system for TRMM VIRS and TRMM VIRSonly Edition2 data. (R. Brown) Worked on comparison of various calibrations for 3.7μm. (Sun-Mack) Worked on Indian Ocean cases from Jim Coakley. (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"> Processed an additional 4 hours of MOD06, MODIS cloud data, for March 15, 2001 using data. (Miller) Investigated the use of neural network ADM for MODIS cloud data SSF. The majority of the cases were cloudy (area_clr = 0%). All the available data was included on the footprint. (Miller) Attended meeting to review Class C CMMI assessment and determine plan for filling the Project and Process Quality Assurance gaps. (Miller) 	

Table 6: November 30, 2005 - Subsystem Issues and Status (3 of 4)

SS No.	SS Lead	Status	Problems
4.5	Nolan	<ul style="list-style-type: none"> Prepared code for special validation requests from Shashi Gupta and have started generating these special validation files. (Nolan & Sothcott) Created library of common routines for Aqua Inversion processors. Updated scripts and makefiles to support the new library. (Nolan) Continued updating and organizing 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"> Successfully tested software ready for delivery with latest version of CERESlib on magneto. (Zentz) Testing Monthly QC Summary Post-Processor on magneto. (Caldwell & Zentz) 	
7.2	Coleman	<ul style="list-style-type: none"> Working on the new cloud code to compute the ice and liquid cloud particle size. (Nguyen) Ran zone 90 of July 2002 for Fred Rose to validate. (Nguyen) Validating the new cloud parameters. (Nguyen) 	
12.0	Coleman	<ul style="list-style-type: none"> No new updates. 	
7.1	Nguyen	<ul style="list-style-type: none"> Working on the new cloud code to compute the ice and liquid cloud particle size. (Nguyen) Ran zone 90 of July 2002 for Fred Rose to validate. (Nguyen) Validating the new cloud parameters. (Nguyen) 	
8.0	Nguyen	<ul style="list-style-type: none"> No new updates. 	
10.0	Nguyen	<ul style="list-style-type: none"> Working on creating the ISCCP cloud format SRBAVGs for MODIS and GGEO clouds. (Nguyen) Support the DAAC in testing SRBAVGs. Modified scripts to meet the DAAC requirements. (Nguyen) 	
6.0	Raju	<ul style="list-style-type: none"> Compared ValR8 vs. ValR9 FSW binary products. Cmp command indicated differences, but data comparison program showed no differences between these two products. (Raju) 	

Table 6: November 30, 2005 - Subsystem Issues and Status (4 of 4)

SS No.	SS Lead	Status	Problems
9.0	Raju	<ul style="list-style-type: none"> Compared ValR8 vs. ValR9 SFC binary products and they matched exactly. (Raju) 	
11.0	Raju	<ul style="list-style-type: none"> Modified 1-hourly ggeo code to work correctly for METEO-8 satellite. Processed July 2004 data at SCF for Tisa Averaging. (Raju) Updated PGEs CER11.1P1-4 code to check pixel ir value for cold cloud condition and if it exist, evaluate its surrounding pixels and write calculated mean, std. to outputs. Added FORTRAN code to determine ir pixel frequency distribution and write information on to a file. Updated PCF generator scripts to include new file names for first pass process. Processed Jan05 data at SCF for Dave Doelling. (Raju) 	
CERESlib Coleman/Zentz		<ul style="list-style-type: none"> Ported current version of CERESlib under CM from SGI to magneto cluster and prepared for delivery to CM. (Zentz) 	