

May 4, 2005 - System Issues and Status

Table 1: Process Strategy/Geier as of 05/04/05
Active Requests in order of priority (1 of 2)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
M-PR 3-02		NSIDC-NESDIS	EICE ESNOW (SS4.1)	4.1-4.0P1	Standing request	
44-05, 45-05	geostationary	ValR12	GGEO (SS11)	11.1P10 11.2P1	5 months 7/02, 1/02, 4/02, 10/02, 12/02	Waiting on delivery to promote. Processes new MCIDAS format.
41-05, 42-05, 43-05	geostationary	ValR13	GGEO (SS11)	11.1P5-8 11.2P1 11.4P1	7/02	Waiting on delivery to promote. Processes native format
40-05	geostationary	ValR13	GGEO (SS11)	11.6P1	7/02	Waiting on delivery to promote. Joe's new "Weeder" code.
5-05	Terra FM1 or FM2	Edition2C	TISA gridding (SS6)	6.1P1 6.2P1 6.3P1	3/00 - 3/03	
3-05	Aqua	Edition1B	TISA gridding (SS9)	9.2P1 9.3P1 9.4P1	7/02 - 7/1/04 hr 11	
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 4/05 - present	DO NOT PROCESS 3.2P2 - it is disabled.

Table 1: Process Strategy/Geier as of 05/04/05
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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	4/05 forward	
Standing requests PM-PRs 5A-05 to 6-05	FM4	Anomalou- sOps	BDS/ ERBElike (SS1-3)	1.1P5 1.2P1 1.3P1 2.2P1 1.3P2	3/30/05 forward	
PR 28-05	Terra	Edition2-QC	Clouds (SS4.1)	4.1-4.1P2 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	1/04 - 11/04	
PR 27-05	Terra	Edition2B	Inversion (SS4.5)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	1/04 - 11/04	
PR 26-05	Terra	Edition2C	SFC (SS9)	9.2P1 9.3P1 9.4P1	12/31/03 - 11/1/ 04	Do not process Nov'04 until 12/1/04 available.
PR 25-05	Aqua	Beta1	FSW (SS6)	6.1P1 6.2P1 6.3P1	7/02 - 3/03	
M PR 2-04		GEOS4	MOA (SS12)	12.1P1	3/05 - present	
M PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	3/05 - present	
PR 46-05	Terra	ValR6	Inversion (SS4.5)	4.5-6.3P2	9 select days	Done 4/18/05.

**Table 2: Process Strategy/Geier as of 05/04/05
Coming Soon (1 of 2)**

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
4/05	Terra	ValRx	SRBAVG (SS10)	3/00 - 2/03	Waiting on delivery.
	Terra	Edition2D	SRBAVG (SS10)	3/00 - 2/03	
	Aqua	ValRx	SRBAVG (SS10)	7/02 - 2/03	
	Aqua	Edition1B	SRBAVG (SS10)	7/02 - 2/03	
		ValR12	GGEO (SS11)	3/03 - 6/03	Requires redelivery to handle GOES-9 and GOES-12; requires coefficients.
	Terra	ValRx	SRBAVG (SS10)	3/03 - 6/03	Waiting on GGEO and TISAavg deliveries.
	Aqua	ValRx	SRBAVG (SS10)	3/03 - 6/03	
		Edition2A	GGEO (SS11)	3/03 - 6/03	ValR11 must be approved.
	Terra	Edition2D	SRBAVG (SS10)	3/03 - 6/03	
	Aqua	Edition1B	SRBAVG (SS10)	3/03 - 6/03	
unkn		ValR12	GGEO (SS11)	? months	7/03 - 6/04; requires coefficients.
		Edition2A	GGEO (SS11)	7/03 - 6/04	
	TRMM	Beta4	TSI (SS7.1)	9 months	
	Terra	Beta3	TSI (SS7.1)	12 months	
	TRMM	Beta4	Synoptic SARB (SS7.2)	9 months	
	Terra	Beta3	Synoptic SARB (SS7.2)	12 months	
	TRMM	Beta4	SYN/AVG/ ZAVG (SS8)	9 months	

**Table 2: Process Strategy/Geier as of 05/04/05
Coming Soon (2 of 2)**

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
	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: May 4, 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)• SCCRs 584 and 585 were submitted for TISA Gridding. They will be discussed at the May 18th DMT meeting. (Ayers)• Tested the TISA Gridding (SCCR 585) delivery and released it to the ASDC. (Saunders)• Received updated GGEO source code and expected output. Re-tested PGEs CER11.1P10 and CER11.2P2 and re-released the GGEO (SCCR 553) delivery to the ASDC. (Saunders, Ayers)• Delivered the FSW sample read package to the ASDC. (Ayers, Saunders)• Delivered the March 2005 Clouds S'COOL data file to the ASDC. (Saunders)• Updated the CERES Subsystem Delivery Schedule and posted it on the CERES CM Web site. (Ayers, Saunders)

Table 4: CERES Subsystem Delivery Schedule - April 2005
(Next CERES Science Team Meeting - May 3 - 5, 2005 in Princeton, NJ)

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Delivery to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)
TISA Averaging		May		Terra Edition2D SRBAVG needed for Science Team Meeting.		X
Clouds		May		To process MODIS V005. Delivery needs to be made just before delivery of July 2005 Terra gains and spectral response function files.		
Instrument		June		Aqua gains.		
ERBE-like		June		Aqua spectral response function files.		
Clouds		???		Support TRMM VIRS-only processing of August 2001 forward.		

Table 5: May 4, 2005 - Subsystem Issues and Status (1 of 4)

SS No.	SS Lead	Status	Problems
1.0	Cooper	<ul style="list-style-type: none"> No update reported. 	
2.0	Walikainen	<ul style="list-style-type: none"> Monitoring FM4's WN and Total channels. The night time nadir daily direct comparisons with FM3 show no anomalous behavior. The problem detected 3/30/05 appears to be isolated to the SW channel. (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) 	
3.0	Walikainen	Combined with above.	
4.1	Sun-Mack	<ul style="list-style-type: none"> Attended EGU Meeting and presented poster. (Sun-Mack). Prepare request for results for Science Team Meeting including Collection 4 and 5 QC difference results, MOD08 and CERES differences and comparison, Aqua and Terra differences and comparison. (Brown & Chen). CloudVis images were processed for TRMM Edition2 VIRSonly data for the Southeast Asian and Central China regions from January 2000 through December 2000. CloudVis images were processed for Terra MODIS Edition2-QC for all non-polar regions for January 2001, 2002, and 2003. (Brown) 	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	<ul style="list-style-type: none"> Monitored Terra Edition2-QC processing. There were 2, 4, 8, 3, and 9 hours that weren't processed for June through October 2004. One hour in July died in retrieval and one hour in August did not have any footprints due to an error in the algorithm when there are data gaps. The remaining hours did not have IESs. (Miller) 	

Table 5: May 4, 2005 - Subsystem Issues and Status (2 of 4)

SS No.	SS Lead	Status	Problems
4.4	Miller (Cont'd)	<ul style="list-style-type: none"> • Determined bias for one degree brightness temperature and 1 percent reflectance bins for the six days processed using MODIS collection 4 and 5. This included software modifications. Spreadsheets were completed for two days showing zonal and cloudiness difference in SSF variables. (Miller) • Created Aqua Edition1B Broadband-Narrowband regression graphics. Terra Edition2B regressions were updated through September 2004. (Miller) • Produced daily SSF QC files for Terra Edition2B data as produced. (Miller) 	
4.5	Nolan	<ul style="list-style-type: none"> • Continued work to validate CER4.5-6.2P2 and SSF validation subset which contains S'COOL sites. Delivered sample subsets to Lin Chambers. (Sothcott) • Completed work to extract Aqua FM4 daytime and nighttime SSF subsets from the ASDC archive and place the files in the CERES archive using NLstore. Final 3 months of FM4 Edition1B SSF subsets were archived. (Snyder) • Created ASCII files listing directory location, file name and Instrument mode of all Edition1B Aqua SSF subsets. These files were approved by Norman Loeb and placed in the CERES archive. (Snyder) • Completed work to run 6 days V004 and V005 SSFI data and create Binary and HDF SSF products. (Zentz) • Completed work to subset 6 days SSF binary data which included V004 and V005 MODIS data. SSF subsets were delivered to Norman Loeb.on 4-21-05. (Sothcott) • Continued work to modify PGE CER4.5-6.2P2 test plan to include tests for SCOOL SSF subsets. Test cases for FM1, FM2, FM3, and FM4 will also be added. (Sothcott) • Continued to modify Inversion Test Plan to include SCOOL SSF subsets in PGE CER4.5-6.2P2. (Sothcott). 	

Table 5: May 4, 2005 - Subsystem Issues and Status (3 of 4)

SS No.	SS Lead	Status	Problems
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Expanded Monthly QC Post-Processor to include recently added hourly QC statistics. (Zentz) Adding sections to Instantaneous SARB Test Plan for FM1, FM2, FM3, and FM4 test cases. (Caldwell) Reviewing top-level documentation for currentness. (Caldwell, Zentz, & Coleman) 	
7.2	Coleman	<ul style="list-style-type: none"> Updating DPC pages for SYNI product. (Coleman) 	
12.0	Coleman	<ul style="list-style-type: none"> Adding capability to identify available MOA data sets. (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"> Delivered the Operator's Manual to CM for the snow/ice and ozone PGEs. (Nguyen) Ran July 2002 with updated 1-hour interval GGEO for Terra and Aqua and the combined Aqua and Terra for the cross-track mode. (Nguyen) Ran December 2002 with 3-hour interval GGEO for Aqua, Terra and the combined Aqua and Terra. (Nguyen) Dave Doelling plotted the number of observations of the non-GGEO TOA total-sky LW fluxes for July 2002. The plot showed a stripe at zone 12S. Investigating the cause of the problem. (Nguyen) Support was provided to Dave Doelling for the preparation for the CERES Science Team Meeting. (Nguyen) 	
6.0	Raju	<ul style="list-style-type: none"> Sample read package was delivered to CM to support Terra Edition2C, Aqua Beta1 FSW product. (Raju) Data Product Catalogue was updated to reflect the changes to FSW product, and the document was sent to CM. (Raju) The updated PGE CER6.2P1 code was delivered to CERES CM to process the failed February 2001 job. (Raju) 	

Table 5: May 4, 2005 - Subsystem Issues and Status (4 of 4)

SS No.	SS Lead	Status	Problems
9.0	Raju	<ul style="list-style-type: none"> A Fortran 90 program and PCF generator scripts were written to take data from Terra and Aqua SFC binary files and combine them into a single SFC binary product using selection criteria given by the TISA science team. Two months of data, July and December 2002, were processed at the SCF with this program. The combined FM1+FM4 SFC binary output was validated and made available to the TISA Averaging subsystem. (Raju) 	
11.0	Stassi	<ul style="list-style-type: none"> Created scatterplots for each satellite to compare the visible and infrared regional means from the McIDAS validation runs to the same values from the production runs. The noon images from the second day of the July 2002 were used for these plots. The visible data did not compare well because the validation plots used base coefficients for the visible channel. The McIDAS routines were modified to recompute visible channel coefficients using the equations in production. The July 2002 one-hourly McIDAS data were reprocessed for all five satellites at the SCF. The scatterplots were created again, and the agreement was good. (Stassi) The McIDAS routine mentioned in the previous bullet was redelivered to CERES CM, along with updated expected output files for the test suites. (Stassi) The December 2002 one-hourly McIDAS data were reprocessed at the SCF for all five satellites. (Stassi) A program was written to read three-hourly synoptic data from a one-hourly GGEO product and create a one-hourly file with it. (Raju, Stassi) 	
CERESlib Stassi/Ayers		<ul style="list-style-type: none"> No updates. 	