

February 23, 2005 - System Issues and Status

**Table 1: Process Strategy/Geier as of 02/23/05
Active Requests in order of priority (1 of 3)**

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
21-05 to 24-05	Terra	ValR5	BDS/ ERBELike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	4/04 and select, individual 2004 days	On HOLD until instrument delivery promotes.
18-05	Terra	ValR6	ERBELike (SS2)	2.4P1	1/04 - 11/04	On HOLD until gains/SRF promote.
14-05 to 20-05	Terra	ValR6	BDS/ ERBELike (SS1-3)	1.3P3 1.2P1 2.2P1 2.3P1 2.3P2 3.1P1 3.2P1	4/04 and select, individual 2004 days	On HOLD until instrument delivery and gains/SRF pro- mote.
10-05 to 13-05	Aqua	ValR5	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	4/04 and select, individual 2004 days	On HOLD until instrument delivery promotes.
8-05 to 9-05	Aqua FM3	ValR5	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 2.2P1	2/1/5	On HOLD until instrument delivery promotes.
7-05	Terra	ValR7	TISA gridding (SS9)	9.2P1 9.3P1 9.4P1	12/03	On HOLD until TISA gridding deliv- eries promote.
6-05	Terra FM1 or FM2	ValR7	TISA gridding (SS6)	6.1P1 6.2P1 6.3P1	1/02, 7/02, 4/01, 10/01	On HOLD until TISA gridding deliv- eries promote.
4-05	Aqua	ValR7	TISA gridding (SS9)	9.2P1 9.3P1 9.4P1	7/02 - 2/03	On HOLD until TISA gridding deliv- eries promote.

Table 1: Process Strategy/Geier as of 02/23/05
Active Requests in order of priority (2 of 3)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
2-05	Terra	Edition2C	SFC (SS9)	9.4P1	2/03 FM1, FM2 4/03 FM2	<i>Done 2/10/05.</i> hdf conversion originally run without all binary zones staged.
5-05	Terra FM1 or FM2	Edition2C	TISA gridding (SS6)	6.1P1 6.2P1 6.3P1	3/00 - 3/03	On HOLD until TISA gridding deliveries promote.
3-05	Aqua	Edition1B	TISA gridding (SS9)	9.2P1 9.3P1 9.4P1	7/02 - 7/1/03 hr 11	On HOLD until TISA gridding deliveries promote.
1-05	Aqua	Beta1	CRS (SS5)	5.0P1 5.1P1 5.4P1	7/02 - 3/03	Process months for which MATCH data available. 2/16/05 PGE 5.4P1 cancelled - needs redelivery.
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 1/05 - present	DO NOT PROCESS 3.2P2 - it is disabled. ON HOLD starting with 1/1/05 data. Subsystem requests that Instrument delivery to handle uploaded patch be promoted before any 2005 data processed.
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 11/04 - present	DO NOT PROCESS 3.2P2 - it is disabled. ON HOLD starting with 1/1/05 data. Subsystem requests that Instrument delivery to handle uploaded patch be promoted before any 2005 data processed. Patch to FM3 to go in 2/1/05; all other patches in 3/1/05.

Table 1: Process Strategy/Geier as of 02/23/05
Active Requests in order of priority (3 of 3)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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 1/04 - 11/04	HOLDING - waiting for associated ValR5 to run. DO NOT PROCESS 3.2P2 - it is disabled.
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 8/04 - present	HOLDING - waiting for associated ValRx to run. DO NOT PROCESS 3.2P2 - it is disabled.
Standing request PM-PR 12-03	Aqua/ Terra	Edition2	ES4/ES9 (SS3)	3.2P1	For 1/04 - 7/04	HOLDING - waiting for both Terra and Aqua to have processed Edition2 data beyond 1/04.
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	11/04 - present	
M-PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	11/04 - present	

Table 2: Process Strategy/Geier as of 02/23/05
Coming Soon (1 of 2)

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
3/05	Terra	Edition2	BDS/ERBE-like (SS1-3)	1/04 - 11/04	As soon as ValR6 approved.
	Terra	Edition2B	SSF (SS 4)	1/04 - 11/04	As soon as IES available, run SSF.
	Terra	Edition2C	SFC (SS 9)	1/04 - 10/04	Once TISA delivery verified and SSF inputs available.
	Aqua	Beta1	FSW (SS 6)	7/02 - 3/03	Once CRS available and TISA delivery verified.
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	
		ValR11	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		ValR11	GGEO (SS11)	? months	7/03 - 6/04; requires coefficients.
		Edition2A	GGEO (SS11)	7/03 - 6/04	
	TRMM	Beta4	TSI (SS7.1)	9 months	Not on Bruce's schedule.
	Terra	Beta3	TSI (SS7.1)	12 months	Not on Bruce's schedule.

**Table 2: Process Strategy/Geier as of 02/23/05
Coming Soon (2 of 2)**

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
	TRMM	Beta4	Synoptic SARB (SS7.2)	9 months	Not on Bruce's schedule.
	Terra	Beta3	Synoptic SARB (SS7.2)	12 months	Not on Bruce's schedule.
	TRMM	Beta4	SYN/AVG/ ZAVG (SS8)	9 months	Not on Bruce's schedule.
	Terra	Beta3	SYN/AVG/ ZAVG (SS8)	12 months	Not on Bruce's schedule.
	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: February 23, 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)• Tested TISA Gridding (SCCR 575) and released it to the ASDC. (Saunders, Ayers)• Delivered the Instrument gains files and ERBE-like spectral response function files 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 - February 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)
Inversion (SCCR 568)	February 4	February 11	February 18	To run Terra alternate main on a daily basis.		X
TISA Averaging	February 25 - March 18			Terra Edition2D SRBAVG needed for Science Team Meeting.		
GGEO (SCCR 553)	February 11	February 25	March 4	Delivery to handle GOES-9 and GOES-12, new McIDAS format and processing data beyond March 2003.		X
TISA Gridding (Maybe)	February 18	March 4	March 11	Delivery of PGE CER9.1P1. (Maybe)		
Regrid MOA (SCCR 577)	February 18	March 4	March 11	Add new input production strategy to allow output file names to be independent of the primary input data source.		
Instantaneous SARB	February 25	March 11	March 18	Delta delivery of PGE CER5.4P1.		
Instrument	Mid-April			Aqua gains.		
ERBE-like	Mid-April			Aqua spectral response function files.		
Clouds	Spring			Support TRMM VIRS-only processing of August 2001 forward.		
Clouds	???			To process MODIS V005. Delivery needs to be made just before delivery of July 2005 Terra gains and spectral response function files.		

Table 5: SCCR Activity February 7 at 3:30 p.m. - February 22 at 11:30 a.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
577	X					Regrid MOA	8	

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

CERES Software Configuration Change Request Submittal

=====

Subsystem: MOA

SCCR Date & TIME: 2005-02-16 09:45:11

SCCR No.: 577

Description of Change (Science):

None

Reason for Change (Science):

None

Description of Change (non-Science):

Added new input production strategy for the RegridMOA subsystem.

Reason for Change (non-Science):

To allow output files to have names that are independent of the primary input data source.

Affected PGEs : 12.1P1

Est. Time to Complete Changes: 2 weeks

Planned Delivery Date : March 4, 2005

Impact : None

Originator: CALDWELL, THOMAS E. (SAIC)

Table 6: February 23, 2005 - Subsystem Issues and Status (1 of 5)

SS No.	SS Lead	Status	Problems
1.0	Cooper	<ul style="list-style-type: none"> Continued monitoring receipt of Aqua and Terra Level-0, Ephemeris, and Attitude data at the ASDC. (Cooper & Snyder) Delivered updates to the Terra gain coefficients for January 2004 thru November 2004. (Cooper) The instrument team is investigating an oddity discovered by the ERBE-like subsystem, where relatively higher (although still small) differences are seen when differencing the time-synchronous nadir measurements of two CERES instruments when one is in cross-track and the other is in fixed-azimuth along-track scanning mode. (Team) Five command macros have been generated to automate command uploads for Aqua (needed because of the limit on a daily command total). (Szewczyk) Daily ODSs were created to commence targeted AT daily with FM2 as of March 1. A decision was made to begin target AT on a daily bases beginning Feb. 19th. On March 1, the FM2 instrument will be placed back into crosstrack full-time. (Szewczyk) 	
2.0	Walikainen	<ul style="list-style-type: none"> Delivered spectral response functions for Terra Edition2 Jan-Nov 04. (Walikainen) Determining spectral response functions for Edition 2 Aqua Aug-Dec 04. (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.	

Table 6: February 23, 2005 - Subsystem Issues and Status (2 of 5)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	<ul style="list-style-type: none"> Processed CloudVis images for TRMM VIRS Edition2 data for Cape Verde, Sub-Saharan African site, the SW African Coast and Mexico regions from January 2000 through December 2000. Processed Terra MODIS Edition2-QC CloudVis images for the Salt Lake City region from February 2000 through December 2003. CloudVis images were also processed for the Marie Byrd Land region for Aqua MODIS Edition1A from July 2002 through December 2002. (R. Brown) Worked on a request by Dr. Lin Chambers to be able to process SCOOL file that would capture all possible observations. (R. Brown) Working on request to add additional zonal results into the QC process. (R. Brown) Worked on BTD (brightness temperature difference) studies. One month of Aqua-MODIS was run offline. Wrote the code to calculate the BTD zonal histograms. (Sun-Mack) Worked on Multilayer algorithm development. Validated the results with lidar data. (Chen & 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"> Validated Terra Hourly and Daily ValROS results produced by warlock under the new Operating System. The difference in the hourly files was quantified before approval. (Miller) Validating first hour of combined CERES/MODIS/MISR data continued. Modified software to include all daylight pixels and resolve other issues. (Miller) Created daily SSF binary QC files for Terra FM-1 Edition2B. (Miller) Reviewed convolution files on /clouds-2 and /clouds-a. (Miller) 	

Table 6: February 23, 2005 - Subsystem Issues and Status (3 of 5)

SS No.	SS Lead	Status	Problems
4.5	Nolan	<ul style="list-style-type: none"> • Initiated work to modify PGE CER4.5-6.2P2 to include an SSF validation subset which contains S'COOL sites. Completed work to add flag to turn off the creation of this new SSF subset. (Sothcott) • Completed work to copy Terra FM2 Edition2A SSF subsets into the CERES archive using NLstore. (Sothcott) • Removed an additional 710 Gig of data from the /CERES/inversion-a disk and linked the corresponding data from the CERES archive to the original location of the data. (Nolan) • Continued work to extract Aqua FM3 daytime and nighttime SSF subsets from the ASDC archive and place the files in the CERES archive using NLstore. Nine months of FM3 Edition1B SSF subsets were archived. (Snyder) • Continued work to create lists of SSF subset stored on the CERES archive for both daytime and nighttime subsets in FAPS, RAPS and Along-track modes. (Snyder) • Attended meeting on 2/9/2005 with Erika and Walt to discuss creation SSF QC web site for Norman Loeb. Provided Walt with Inversion QC parameter information. (Nolan & Sothcott) • Completed work to validate ValROS, ValROS3 and ValROS4 production test runs. (Nolan & Sothcott) • Created and tested tar files containing Terra PGE CER4.5-6.1P2 for FLASH FLUX. (Nolan) • Reviewed SSF information on CAD Web site. Corrections were provided for the Terra and Aqua pages. TRMM page and corrected pages for Terra and Aqua were approved. (Nolan) 	
4.6	Nolan	Combined with above.	

Table 6: February 23, 2005 - Subsystem Issues and Status (4 of 5)

SS No.	SS Lead	Status	Problems
5.0	Coleman	<ul style="list-style-type: none"> Reviewing differences in Jim Donaldson's and our versions of the Instantaneous SARB software. 18 out of 124 Fortran modules have differences that need to be implemented in our version. Developed a staged plan for implementing and testing these differences. Making baseline runs for comparison purposes before implementing any changes. (Coleman, Zentz, & Caldwell) Modifying Monthly Post-Processor that verifies success of the HDF conversion program to enable it to work with Aqua data. Building in better warning messages and test evaluation procedures. (Caldwell) 	
7.2	Coleman	<ul style="list-style-type: none"> Making baselines runs of the Synoptic Subsystem for evaluation of impacts from Jim Donaldson's changes. (Zentz) 	
12.0	Coleman	<ul style="list-style-type: none"> Added an input Production Strategy environment variable for the Regrid MOA Subsystem to act like the current output Production Strategy variable, i.e., containing the information about the input data source that the software needs. This eliminates restrictions on the definition of the output Production Strategy. Discussed this approach via email with ASDC before implementing it. Preparing the delivery. (Caldwell & Coleman) 	
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"> Modifying code to run phase 1 to compute the monthly hourly and monthly non-geo albedos and SW fluxes. The results of this phase will be inputs to phase 2. (Nguyen) Completed updated code for phase 2 which uses the non-geo outputs from phase 1 to create the geo and ceres clear-sky maps. (Nguyen) Supported and provided code for Colleen Mikovitz to read PMOA. (Nguyen) 	

Table 6: February 23, 2005 - Subsystem Issues and Status (5 of 5)

SS No.	SS Lead	Status	Problems
6.0	Raju	<ul style="list-style-type: none"> Subsystem 6.0 was delivered to CERES CM. (Raju) July 2002 FM1 data process through PGEs 6.1 & 6.2 at SCF was completed. Generated FSW binary product was provided to TISA science team. (Raju) A FORTRAN program was set up to read TOA flux data from FSW binary files, and to generate inputs to plot programs for data validations. (Raju) 	
9.0	Raju	<ul style="list-style-type: none"> One day of July 2002 data was processed through PGE 9.1P1 to get surface temperature profiles, and surface skin temperature values. Output was sent to TISA science members for validations. (Raju) 	
11.0	Stassi	<ul style="list-style-type: none"> Modified versions of the GGEO post-processor code and scripts were created to process GGEO one-hourly data, writing the output to 4 files instead of to a single output file. The GGEO Web plot program was modified to be able to display the one-hourly data. The July 2004 data were processed and Web plots from these data were created for Dave Doelling to show at his bi-weekly TISA meeting. (Stassi & Flug) The GGEO weeder PGE was modified to re-create Web plots for hours with data which have been modified by the PGE. A test case for this PGE is being prepared for the GGEO Test plan. (Stassi) The GGEO subsystem is being prepared for delivery later this week. (Stassi) 	
CERESlib Stassi/Ayers		<ul style="list-style-type: none"> No updates. 	