

## March 23, 2005 - System Issues and Status

**Table 1: Process Strategy/Geier as of 03/23/05  
Active Requests in order of priority (1 of 3)**

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
18-05	Terra	ValR6	ERBELike (SS2)	2.4P1	1/04 - 11/04	Rerun 3/7/05.
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	Rerun 3/7/05.
36-05, 37-05	Terra, Aqua	ValR5	BDS (SS1)	1.1P3 1.1P5	2/23/05 - 2/28/05	Done 3/14/05.
35-05		ValR1	MOA (SS12)	12.1P1	12/04	Done 3/11/05.
7-05	Terra	ValR7	TISA gridding (SS9)	9.2P1 9.3P1 9.4P1	12/03	Done 3/12/05.
6-05	Terra FM1 or FM2	ValR7	TISA gridding (SS6)	6.1P1 6.2P1 6.3P1	1/02, 7/02 4/01, 10/01	Done 3/14/05.
4-05	Aqua	ValR7	TISA gridding (SS9)	9.2P1 9.3P1 9.4P1	7/02 - 2/03	
5-05	Terra FM1 or FM2	Edition2C	TISA gridding (SS6)	6.1P1 6.2P1 6.3P1	3/00 - 3/03	<b>On HOLD until ValR7 approved.</b>
3-05	Aqua	Edition1B	TISA gridding (SS9)	9.2P1 9.3P1 9.4P1	7/02 - 7/1/03 hr 11	<b>On HOLD until ValR7 approved.</b>

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<b>Production Request (PR)</b>	<b>Satellite</b>	<b>Production Strategy</b>	<b>Data Product (SS#)</b>	<b>PGEs</b>	<b>Data Dates</b>	<b>Special Status</b>
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 <del>3.2P2</del>	For 1/05 - present	DO NOT PROCESS 3.2P2 - it is disabled.  <b>ON HOLD starting with 1/1/05 data. Waiting on ValR5 &amp; ValR6 approval.</b>
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 <del>3.2P2</del>	For 11/04 - present	DO NOT PROCESS 3.2P2 - it is disabled.  <b>ON HOLD starting with 1/1/05 data. Waiting on ValR5 &amp; ValR6 approval.</b>
PRs 29-05 to 34-05 (repeated in standing request 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 <del>3.2P2</del>	For 1/04 - 11/04	<b>HOLDING - waiting on ValR5 &amp; ValR6 approval.</b>  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 <del>3.2P2</del>	For 8/04 - present	<b>HOLDING - waiting for associated ValRx to run.</b>  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	<b>HOLDING - waiting for both Terra and Aqua to have processed Edition2 data beyond 1/04.</b>

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**Active Requests in order of priority (3 of 3)**

<b>Production Request (PR)</b>	<b>Satellite</b>	<b>Production Strategy</b>	<b>Data Product (SS#)</b>	<b>PGEs</b>	<b>Data Dates</b>	<b>Special Status</b>
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	Extend current Terra Cloud run as soon as inputs available.
PR 27-05	Terra	Edition2B	Inversion (SS4.5)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	1/04 - 11/04	Extend current Terra SSF run as soon as inputs available.
PR 26-05	Terra	Edition2C	SFC (SS9)	9.2P1 9.3P1 9.4P1	12/31/03 - 11/1/04	Extend current Terra SFC run as soon as inputs available. 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	<b>HOLDING - waiting for ValR7 approval and all higher priority Edition TISA gridding processing to complete.</b>
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	1/05 - present	Back in production.
M-PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	1/05 - present	
PR 39-05	Terra	ValR5	SSF (SS4.5-6)	4.5-6.6P2	9 select days	No Edition will follow at this time. First attempt at daily alternate main PGE.
PR 38-05	Aqua	Beta1	CRS-monthly (SS5)	5.4P1	7/02 - 3/03	Run monthly when delivery promotes. Hourly processing already complete.

**Table 2: Process Strategy/Geier as of 03/23/05**  
**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	
		ValR11	GGEO (SS11)	3/03 to 6/03	Requires redelivery to handle GOES-9 and GOES-12; requires coefficients.
	Terra	ValRx	SRBAVG (SS10)	3/03 to 6/03	Waiting on GGEO and TISAavg deliveries.
	Aqua	ValRx	SRBAVG (SS10)	3/03 to 6/03	
		Edition2A	GGEO (SS11)	3/03 to 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.
	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.

**Table 2: Process Strategy/Geier as of 03/23/05  
Coming Soon (2 of 2)**

<b>Active Month</b>	<b>Satellite</b>	<b>Processing Strategy</b>	<b>Data Product (SS#)</b>	<b>Data Dates</b>	<b>Comments</b>
	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: March 23, 2005 - System Issues and Status**

<b>Activity</b>	<b>Lead</b>	<b>Status</b>
CM	Ayers	<ul style="list-style-type: none"><li>• See Table 4 for the current CERES Subsystem Delivery Schedule. (Ayers)</li><li>• See Table 5 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 5. (Ayers)</li><li>• Tested the following deliveries and released them to the ASDC: Instrument (SCCR 579), Instantaneous SARB (SCCR 580), and Inversion (SCCR 578). (Saunders, Ayers)</li><li>• Delivered updated TISA Gridding and Inversion files to the ASDC. (Ayers, Saunders)</li><li>• Currently testing the GGEO delivery (SCCR 553). (Saunders, Ayers)</li><li>• Updated the CERES Subsystem Delivery Schedule and posted it on the CERES CM Web site. (Ayers, Saunders)</li></ul>

**Table 4: CERES Subsystem Delivery Schedule - March 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)
GGEO (SCCR 553)	March 4	March 18	March 25	Delivery to handle GOES-9 and GOES-12, new McIDAS format and processing data beyond March 2003.		X
TISA Averaging	April			Terra Edition2D SRBAVG needed for Science Team Meeting.		X
Inversion	April			Delivery of Terra alternate main PGE, CER4.5-6.3P2, to make the hourly and daily processing equivalent.		
Instrument	Mid-April			Aqua gains.		
ERBE-like	Mid-April			Aqua spectral response function files.		
Clouds	April			To process MODIS V005. Delivery needs to be made just before delivery of July 2005 Terra gains and spectral response function files.		
Clouds	Spring			Support TRMM VIRS-only processing of August 2001 forward.		

**Table 5: SCCR Activity March 7 at 5:00 p.m. - March 21 at 12:30 p.m.**

SCCR	S	U	A	C	D	SS	Page No.	Comments
571				X		6 & 9		
574				X		6 & 9		
575				X		6		
576				X		CERESlib		
577				X		12		
579				X		1		
580	X		X	X		5	8	

**CERES Software Configuration Change Request Submittal**

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Subsystem: InstSARB

SCCR Date & TIME: 2005-03-09 11:07:17

SCCR No.: 580

Description of Change (Science):

None

Reason for Change (Science):

None

Description of Change (non-Science):

Modified HDF to CRSB conversion code in PGE 5.4

Reason for Change (non-Science):

The conversion process was not executing correctly for Aqua runs.

Affected PGEs : 5.4P1

Est. Time to Complete Changes: 2 days

Planned Delivery Date : March 11, 2005

Impact : None

Originator: CALDWELL, THOMAS E. (SAIC)



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

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
1.0	Cooper	<ul style="list-style-type: none"> <li>Continued monitoring receipt of Aqua and Terra Level-0, Ephemeris, and Attitude data at the ASDC. (Cooper &amp; Snyder)</li> <li>Completed Sun-in-FOV tests using ToolKit for entire Terra and Aqua mission dataset. (Hess &amp; Matthews)</li> <li>Executed a whole day of trueAT with Aqua on 03/22. (Szewczyk)</li> <li>Completed a draft of a paper on TRMM-Terra shortwave recovery and comparison; Lou Smith is reviewing the draft. (Szewczyk)</li> <li>A JGR paper on the Terra-AQUA comparison is out in print. (Szewczyk)</li> </ul>	
2.0	Walikainen	<ul style="list-style-type: none"> <li>Checking ValR5s and ValR6s for recent Terra delivery. SS2 is valid. (Walikainen)</li> <li>Checking FM2's response to increased solar calcs. Normally done bi-weekly, now every orbit starting 3/1/2005. The first 10 days showed no loss of performance. (Walikainen)</li> <li>Applying solar zenith correction to direct compare short wave flux. This may be our new standard. (Walikainen)</li> <li>Determining spectral response functions for Edition 2 Aqua Aug-Dec 04. (Walikainen)</li> <li>Continuing to examine the production email generated by the QC checker software. (Walikainen)</li> <li>Continuing to inspect ERBE-like Aqua and Terra output plots and QC reports on the Web. (Walikainen)</li> </ul>	
3.0	Walikainen	Combined with above.	

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

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
4.1	Sun-Mack	<ul style="list-style-type: none"> <li>Completed processing CloudVis images for TRMM VIRS Edition2 VIRS only from May 2000 through December 2000 for the San Nicolas Islands and Bermuda regions. Also completed processing CloudVis images for the Pacific ITCZ region for Terra MODIS Edition2 from February 2000 through December 2003. Completed processing CloudVis images for Aqua MODIS Edition1A for the Marie Byrd Land region from July 2002 through June 2004. (R. Brown)</li> <li>Worked on updating all offline QC Read code as well as updating all QC Viewer code to incorporate the changes and additions. Reprocessed all Terra MODIS Edition2 global images to include changes made to the QC code. (R. Brown)</li> <li>MOD08 global images were incorporated into the QC Web Viewer for comparison with Terra MODIS Edition2. (R. Brown)</li> <li>Worked on BTD (brightness temperature difference) stats, requested from Pat Minnis/Helene Chepfer. (Chen, R. Brown, &amp; Sun-Mack)</li> <li>Study and implementing updated CO2 slicing algorithm. (Sun-Mack)</li> </ul>	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	<ul style="list-style-type: none"> <li>Processed a day of combined CERES/MODIS/MISR data. Investigated problems in the data without resolving. (Miller)</li> <li>Modified software to determine mean bias and standard deviation between MISR camera and the other. Also, modified regression software to work between MISR data and CERES shortwave radiance. (Miller)</li> <li>Created subdirectory structure for SSF daily binary QC. Started archiving files in new location. (Miller)</li> </ul>	

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

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
4.4	Miller (Cont'd)	<ul style="list-style-type: none"> <li>Created daily SSF binary QC files for Aqua FM3 and FM4 Edition1B from Jul 1, 2003 to June 30, 2004. Pulling QC files for Aqua FM-4 for first year processed. (Miller)</li> </ul>	
4.5	Nolan	<ul style="list-style-type: none"> <li>Reviewed Draft SSF Description Abstract and sent corrections to Tomeka Watkinson at the ASDC. (Nolan &amp; Sothcott)</li> <li>Continued work to extract Aqua FM4 daytime and nighttime SSF subsets from the ASDC archive and place the files in the CERES archive using NLstore. Five months of FM4 Edition1B SSF subsets were archived. (Snyder)</li> <li>Corrected environment variable in CER4.5-6.6P2 PCF generator and delivered to CERES CM on March 16, 2005. (Nolan)</li> <li>Initiated work to add spectral correction to PGE CER4.5-6.3P2 and add a second test case for the PGE using FM2 data. Updated Inversion Test Plan to include Spectral Correction Coefficient input files and the second test case for CER4.5-6.3P2. (Nolan)</li> </ul>	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> <li>Completed modifications to be consistent with Jim Donaldson's version of the SARB library and the Instantaneous SARB Subsystem. (Caldwell &amp; Zentz)</li> <li>Delivered PGE 5.4P1 to correct mail message error. (Caldwell)</li> </ul>	
7.2	Coleman	<ul style="list-style-type: none"> <li>Verified success of Synoptic SARB Subsystem using version of SARBlib with Jim Donaldson's changes. (Caldwell &amp; Zentz)</li> <li>Building logic to determine closest hour with CERES Clouds observations for each region. (Zentz)</li> </ul>	
12.0	Coleman	<ul style="list-style-type: none"> <li>Verified success of ValRx testing of latest Regrid MOA delivery. (Caldwell)</li> </ul>	
7.1	Nguyen	<ul style="list-style-type: none"> <li>No new updates.</li> </ul>	
8.0	Nguyen	<ul style="list-style-type: none"> <li>No new updates.</li> </ul>	

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

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
10.0	Nguyen	<ul style="list-style-type: none"> <li>• Creating a new PGE to take the daily snow and ice data from clouds to create a monthly snow data and a new IGBP map with the most updated snow and ice information for each month. (Nguyen)</li> <li>• Ran 4 months of SRBAVG to output CERES, GGEO data for the exact match and the closest match times of the CERES and GGEO data. The output files were given to Dave Doelling for further studies. (Nguyen)</li> <li>• Working on documentations for the new PGE. (Nguyen)</li> <li>• Preparing to run July 2002 SRBAVG with the one-hour GGEO data. Tested to run SRBAVG with the July 2004 one-hour GGEO files. (Nguyen)</li> </ul>	
6.0	Raju	<ul style="list-style-type: none"> <li>• Checked production version of Terra ValR7 FSW data and found no problems. As part of validations, a FORTRAN program was set up to process a day of hourly FSW files, and to output TOA fluxes, Total Cloud Percent in an HDF format, and to create *gif images using view_hdf software. Processed July 2002, day 1 - 11 FM1 ValR7 FSW data and provided generated images to Dave Doelling for validations. (Raju)</li> <li>• Started testing PGE CER6.3P1 process at SCF to see if there are any improvements that can be done to the code to reduce the process time. (Raju)</li> </ul>	
9.0	Raju	<ul style="list-style-type: none"> <li>• Checked production version of Aqua ValR7 SFC data and found no problems. A FORTRAN program was set up to process a day of hourly SFC files, and to output TOA fluxes, Total Cloud Percent in an HDF format, and to create *gif images using view_hdf software. Processed July 2002, day 11 FM4 ValR7 SFC data &amp; July 2002, day 11 FM1 Edition2B SFC data. Provided generated *gif images to Dave Doelling for FSW Vs. SFC comparisons. (Raju)</li> </ul>	

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

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
11.0	Stassi	<ul style="list-style-type: none"> <li>Updated the GGEO test suites to include tests for the new PGEs: CER11.1P10 and CER11.6P1. Updated the Test Plan document to reflect these changes. (Stassi)</li> <li>Modified the GGEO tar scripts to include input and expected output files for the new PGEs. Because of the increased volume of data, the input and expected output tarfiles were each split into three different tarfiles. (Stassi)</li> <li>Delivered the GGEO subsystem to CERES CM. (Stassi)</li> <li>Ran the July 2002 one-hourly data through the GGEO main processor for all five satellites. Currently running the post processor to create the final GGEO output. (Stassi)</li> </ul>	
CERESlib Stassi/Ayers		<ul style="list-style-type: none"> <li>No updates.</li> </ul>	