

## July 27, 2005 - System Issues and Status

**Table 1: Process Strategy/Geier as of 07/27/05**  
**Active Requests in order of priority (1 of 3)**

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	
83-05	Aqua	ValR5	ERBELike (SS2)	2.4P1	8/04 - 3/05	Run when gains re-deliver.
82-05, 81-05	Aqua	ValR5	BDS/ ERBELike (SS1-2)	1.3P3 1.2P1 2.2P1	Select days between 8/1/04 and 3/31/05	Run when gains re-deliver.
78-05 to 80-05	Aqua	ValR5	ERBELike (SS2-3)	2.3P1 2.3P2 3.1P1 3.2P1	10/04	Run when gains re-deliver.
70-05	Aqua	ValR5	ERBELike (SS2)	2.4P1	8/04 - 3/05	Done 7/13/05.
68-05, 69-05	Aqua	ValR5	BDS/ ERBELike (SS1-2)	1.3P3 1.2P1 2.2P1	Select days between 8/1/04 and 3/31/05	Done 7/19/05.
65-05 to 67-05	Aqua	ValR5	ERBELike (SS2-3)	2.3P1 2.3P2 3.1P1 3.2P1	10/04	Done 7/20/05.
60-05 to 64-05	Aqua	Edition2	BDS/ ERBELike (SS1-3)	1.3P3 1.2P1 2.4P1 2.2P1 2.3P1 2.3P2 3.1P1	8/04 - 3/05	<b>Wait for ValR5 approval before running Edition2.</b>
59-05	FM1+ FM4	Edition2	ERBELike (SS3)	3.2P1	8/04 - 10/04	<b>Wait for Edition2 Aqua.</b> Terra available through 10/04 (11/04 not run because 12/1/04 overlap missing).

**Table 1: Process Strategy/Geier as of 07/27/05**  
**Active Requests in order of priority (2 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>
77-05	Aqua	ValR6	BDS (SS1)	1.1P5 1.3P1 1.3P2 1.2P1	3/05	<b>Do NOT promote Instrument delivery until Aqua Edition2 BDS for 3/05 has completed.</b>
76-05	Aqua	ValR6	ERBELike (SS2)	2.2P1 2.3P1 2.3P2	3/05	
75-05	Terra	ValR6	BDS (SS1)	1.1P3 1.3P1 1.3P2 1.2P1	3/05	<b>Do NOT promote Instrument delivery until Aqua Edition2 BDS for 3/05 has completed.</b>
74-05	Terra	ValR6	ERBELike (SS2)	2.2P1 2.3P1 2.3P2	3/05	
73-05	FM4	ValR6	BDS (SS1)	1.1P5 1.2P1	4/05	<b>Do NOT promote Instrument delivery until Aqua Edition2 BDS for 3/05 has completed.</b>
72-05	FM4	ValR6	ERBELike (SS2)	2.2P1 2.3P1 2.3P2	4/05	
71-05	FM4	ValR6	ERBELike (SS3)	3.1P1	4/05	
58-05	Aqua	Edition1A	Clouds (SS4.1-4)	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	8/04 - 3/05	<b>Waiting on Edition2 IES to be available.</b>
57-05	Aqua	Edition1B	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	8/04 - 3/05	<b>Waiting on Edition2 IES to be available.</b>
56-05	Aqua	Edition1B	TISAggrid (SS9)	9.2P1 9.3P1 9.4P1	7/04 - 2/05	<b>Waiting on Edition1B SSF to be available.</b> One month behind due to overlap requirements.

**Table 1: Process Strategy/Geier as of 07/27/05**  
**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>
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 5/05 - present	DO NOT PROCESS 3.2P2 - it is disabled.  <b>Hold until ValR6 approved.</b>
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	<b>Hold until ValR6 approved.</b>
PR 52-05	Aqua	Beta1	CRS (SS5)	5.0P1 5.1P1 5.4P1	4/03 - 12/04	Extended processing through 12/04 where MATCH ends and in anticipation of SSF.
PR 51-05	Aqua	Beta1	FSW (SS6)	6.1P1 6.2P1 6.3P1	4/03 - 12/04	Extended processing through 12/04 in anticipation of CRS.
M PR 2-04		GEOS4	MOA (SS12)	12.1P1	Standing request	
M PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	Standing request	

**Table 2: Process Strategy/Geier as of 07/27/05**  
**Coming Soon (1 of 2)**

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
8/05	FM4	Ed1-NoSW	BDS/ERBE-like (SS1-3)	4/05 forward	Waiting on ValR6 approval and final decision on PS.
9/05	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	
		ValR13	GGEO (SS11)	3/03 - 6/03	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		ValR13	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	

**Table 2: Process Strategy/Geier as of 07/27/05  
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>
	TRMM	Beta4	SYN/AVG/ ZAVG (SS8)	9 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: July 27, 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>• Updated the following documents and delivered them to the ASDC: Instrument Test Plan (SCCR 589), Inversion Test Plan (SCCR 587), and Instrument Operator's Manual (SCCR 589). (Saunders)</li><li>• Installed the ERBE-like delta delivery (SCCR 590) on warlock and released it to the ASDC. (Ayers)</li><li>• Re-delivered the Instrument FM3 and FM4 updated gains files for August 1, 2004 through March 31, 2005 to the ASDC. (Saunders)</li></ul>

**Table 4: CERES Subsystem Delivery Schedule - July 2005**  
**(Next Science Team Meeting - November 2005 in Hampton, VA)**

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 587)	May 13	May 27	August	Delivering PGE CER4.5-6.2P2 to add S'COOL validation products.		
ERBE-like (SCCR 590)	July 22	July 22	July 29	Delta delivery to turn on debug mode for the QC checker.		
GGEO	July 22	July 29	August 5	Delta delivery of ancillary input for PGE CER11.6P1.		
GGEO	July 22	July 29	August 5	Delivering the MeteoSat time correction.		
GGEO	August 12	August 26	September 2	Deliver coefficients so GGEO can be run for March 2003 - December 2004.		
TISA Gridding	late August			Delta delivery of modified scripts that will count the number of SFC hourly files available before monthly processing will run.		
TISA Averaging (SCCR 583)	September 2	September 16	September 23	Process Terra Edition2D SRBAVG.		X
Clouds	September			To process MODIS V005. Delivery needs to be made just before delivery of July 2005 Terra gains and spectral response function files.		
TISA Averaging	October 7	October 21	October 28	SS 7.1 Terra Beta TSI		
Clouds	???			Support TRMM VIRS-only processing of August 2001 forward.		

**Table 5: SCCR Activity July 11 at 2:30 p.m. - July 25 at 3:00 p.m.**

SCCR	S	U	A	C	D	SS	Page No.	Comments
590	X					2	3	

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

**CERES Software Configuration Change Request Submittal**

Parameter Change: ( ) YES (X) NO

Subsystem: ERBElke2.0      SCCR Date & TIME: 2005-07-25 09:39:49      SCCR No.: 590

Description of Change (Science):  
None

Reason for Change (Science):  
N/A

Description of Change (non-Science):  
Turn on QC checker debug mode.  
Script argument changed from 0 to 1.

Reason for Change (non-Science):  
A recent run of ValR5s at the ASDC produced error code 204 (failed in QC checker). Running at SCF no error codes were produced. To determine the failure point a “debug” run at the ASDC produced no errors.

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: CER2.2P1  
Estimated Time to Complete Change: less than a day  
Planned Delivery Date: 7/25/05  
List Affected Subsystems and PGE Names: CER2.2P1  
Originator: WALIKAINEN, DALE R. (SAIC)



**Table 6: July 27, 2005 - Subsystem Issues and Status (1 of 4)**

<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. (Cooper, Snyder)</li> <li>Updated Aqua gains found to be in error for FM4. Updating with correct values and testing to insure that these are the correct values. Will be delivered to CERES CM by July 27, 2005. (Cooper)</li> <li>Continue running the FM4 data at the SCF. This will continue until the updates to the software are promoted into production. (Cooper, Snyder)</li> <li>Continue to monitor FM4 anomaly. (Team)</li> </ul>	
2.0	Walikainen	<ul style="list-style-type: none"> <li>Preparing delta Delivery (SCCR 590) for CER2.2P1. Changing command option (0 to 1) for debug mode. ValR5s produced error messages at ASDC, SCF ran without error. Debug mode allows ASDC to run without error. (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> <li>Investigating difference in night time total radiance; cross track instrument has a higher radiance than the along track instrument. Showed that total channel space clamp shows a peak when going into night. (Walikainen)</li> <li>Investigating Nadir direct compare for Terra's LW flux. Discovered that increasing or decreasing solar zenith versions show a strong seasonal or beta angle dependence. (Walikainen)</li> </ul>	
3.0	Walikainen	Combined with above.	
4.1	Sun-Mack	<ul style="list-style-type: none"> <li>Worked on MCRS-IR algorithm development. The first look was produced and it seems to be much better than MCRS-VIS. Pat seems to be happy with it. (S. Sun-Mack).</li> </ul>	
4.2	Sun-Mack	Combined with above.	

**Table 6: July 27, 2005 - Subsystem Issues and Status (2 of 4)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
4.3	Sun-Mack	Combined with above.	
4.4	Miller	<ul style="list-style-type: none"> <li>Updated Process and Product Quality Assurance Plan. (Miller)</li> <li>Reviewed paper by Alexandar Ignatov on Terra and Aqua aerosol comparison. A second draft was received. (Miller)</li> <li>Attended Earth System Model Framework Community Meeting in Cambridge, MA on July 20-22, 2005. (Miller)</li> </ul>	
4.5	Nolan	<ul style="list-style-type: none"> <li>Continued testing of Inversion PGEs with code modifications to make Inversion code ANSI standard. (Nolan)</li> <li>Continued work to generate Web pages to correspond to the Inversion CVS repository and to maintain file links across different PGEs. (Sothcott)</li> <li>Continued work to create scripts to extract all files required for the CM delivery of each Inversion PGE. Completed scripts for both PGEs CER4.5-6.2P2, CER4.5-6.4P1, CER4.5-6.1P2, CER4.5-6.6P2, and CER4.5-6.6P3. (Sothcott)</li> <li>Met with Shashi Gupta to discuss changes to the SW surface flux model B code on July 25, 2005. (Nolan)</li> <li>Restored Edition2B SSF daytime alongtrack data from the inversion-a disk crash for K. Loukachine. (Sothcott)</li> <li>Met with Anne Wilber to discuss changes to the SW surface flux model A code on July 25, 2005. (Nolan)</li> <li>Began extracting daytime Edition2B SSF subsets from the ASDC archive and placing them on the inversion-a disk for the ADM working group. (Snyder)</li> </ul>	
4.6	Nolan	Combined with above.	

**Table 6: July 27, 2005 - Subsystem Issues and Status (3 of 4)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
5.0	Coleman	<ul style="list-style-type: none"> <li>Processed Feb 2002 Terra data twice at the SCF with minor diagnostic changes using the CRSVB (validation region subset) as input to assist SARB Working Group in evaluating cloud inhomogeneity on the current version of the code. (Zentz, Caldwell)</li> <li>Updated CRS DPC pages to reference Aqua satellite. Provided updated pages to the Documentation team. (Coleman)</li> </ul>	
7.2	Coleman	<ul style="list-style-type: none"> <li>Working with Fred to incorporate changes for PAR. (Coleman, Caldwell, Zentz)</li> <li>Provided information to Tom Charlock on impacts (rough percentage) to the size of the SYN of adding 4 PAR-related parameters. (Coleman)</li> </ul>	
12.0	Coleman	<ul style="list-style-type: none"> <li>Providing information about ingesting the GMAO input data to the CALIPSO group. (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>	
10.0	Nguyen	<ul style="list-style-type: none"> <li>Ran SRBAVG March 2000, July, October and December 2002 to write out interpolated fluxes and cloud data for Dave Doelling for further studies. (Nguyen)</li> <li>Working on the new phase of SRBAVG to create the temporary zonal binary files for the spacial interpolation of the regions. (Nguyen)</li> </ul>	
6.0	Raju	<ul style="list-style-type: none"> <li>No new updates.</li> </ul>	
9.0	Raju	<ul style="list-style-type: none"> <li>Completed July 2004 Aqua FM4 and Terra FM1 data process without applying the directional model corrections to SW fluxes through PGE CER9.2P1 &amp; PGE CER9.3P1 at SCF for regions between 60N-60S; 60E-60W to create requested outputs. Requested parameters were written to binary files. A FORTAN read program and the binary files were made available to science members. (Raju)</li> </ul>	

**Table 6: July 27, 2005 - Subsystem Issues and Status (4 of 4)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
11.0	Stassi	<ul style="list-style-type: none"> <li>Running first-pass processing for March 2003 thru June 2004. Outputs will be used to create calibration coefficients. (Stassi, Raju)</li> <li>Creating ancillary input for the GGEO Weeder program. (Raju, Stassi)</li> <li>Processing January 2002 1-hourly McIDAS data. (Raju, Stassi)</li> </ul>	
CERESlib Stassi/Ayers		<ul style="list-style-type: none"> <li>Transitioning CERESlib duties. (Stassi, Coleman)</li> </ul>	