

## August 10, 2005 - System Issues and Status

**Table 1: Process Strategy/Geier as of 08/10/05**  
**Active Requests in order of priority (1 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>
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	Done 7/27/05.
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	Done 7/27/05.
78-05 to 80-05	Aqua	ValR5	ERBELike (SS2-3)	2.3P1 2.3P2 3.1P1 3.2P1	10/04	Done 7/27/05.
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	Done 8/3/05.
59-05	FM1+ FM4	Edition2	ERBELike (SS3)	3.2P1	8/04 - 10/04	Done 8/3/05.
77-05	Aqua	ValR6	BDS (SS1)	1.1P5 1.3P1 1.3P2 1.2P1	3/05	
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	
74-05	Terra	ValR6	ERBELike (SS2)	2.2P1 2.3P1 2.3P2	3/05	

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
73-05	FM4	ValR6	BDS (SS1)	1.1P5 1.2P1	4/05	
72-05	FM4	ValR6	ERBELike (SS2)	2.2P1 2.3P1 2.3P2	4/05	
71-05	FM4	ValR6	ERBELike (SS3)	3.1P1	4/05	
84-05		Edition2A	GGEO (SS11)	11.6P1	10 months in 2001 & 2002	
89-05, 90-05		ValR15	GGEO (SS11)	11.1P10 11.2P2	5 months	<b>Do not promote until PR 84-05 is complete.</b> Verify code delivery is working properly before running 3/03 - 12/04 as Beta4.
86-05 to 88-05		ValR16	GGEO (SS11)	11.1P5 11.1P6 11.1P7 11.1P8 11.2P2 11.4P1	7/02	<b>Do not promote until PR 84-05 is complete.</b>
85-05		ValR15	GGEO (SS11)	11.6P1	10/01	<b>Do not promote until PR 84-05 is complete.</b>
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	
57-05	Aqua	Edition1B	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	8/04 - 3/05	
56-05	Aqua	Edition1B	TISAggrid (SS9)	9.2P1 9.3P1 9.4P1	7/04 - 2/05	One month behind due to overlap requirements.

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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 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 08/10/05**  
**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; <b>DO NOT process 7/19/05 - 8/1/05.</b>
9/05		Beta4	GGEO (SS11)	3/03 - 12/04	Requires code and coefficient deliveries.
	Terra	ValR6	BDS/ERBE-like (SS1-3)	Select dates 12/04 - 6/05	Evaluate latest Terra gain/SRF delivery.
	Terra	Edition2	BDS/ERBE-like (SS1-3)	12/04 - 6/05	Run after ValR6 approved.
	Terra	Edition2B	SSF (SS 4)	12/04 - 6/05	Run after Edition2 IES available.
	Terra	Edition2C	SFC (SS 9)	11/04 - 5/05	Run after Edition2B SSF available.
	Terra	Edition2B	CRS (SS 5)	12/04	Run after Edition2B SSF available.
	Terra	Edition2C	FSW (SS 6)	11/04	Run after Edition2B CRS available.
10/05	Terra	ValRx	SRBAVG (SS10)	3/00 - 2/03	Waiting on code delivery and GGEO runs.
	Terra	Edition2D	SRBAVG (SS10)	3/00 - 2/03	
	Terra	Beta4	SRBAVG (SS10)	3/03 - 12/04	Waiting on GGEO and TISAavg deliveries.
	Aqua	Beta1	SRBAVG (SS10)	7/02 - 2/03	
11/05	Terra	Beta3	TSI (SS7.1)	3/00 - 2/03	
	Aqua	ValR5	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 ValR5 approval.
	Aqua	Edition2A	SFC (SS 9)	7/02 - 2/05	Wait on Edition2A SSF.
	Aqua	Edition2A	CRS (SS 5)	7/02 - 12/04	Wait on Edition2A SSF.

**Table 2: Process Strategy/Geier as of 08/10/05**  
**Coming Soon (2 of 2)**

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
	Aqua	Edition2A	FSW (SS 6)	7/02 - 11/04	Wait on Edition2A CRS.
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: August 10, 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>• Delivered the GGEO ancillary text files for PGE CER11.6P1 for the following months: 01/01, 02/01, 05/01, 08/01, 10/01, 12/01, 01/02, 04/02, 05/02, 07/02, 09/02, 10/02, 11/02, 01/03. (Saunders)</li><li>• Released the Inversion delivery associated with SCCR 587 to the ASDC. (Saunders)</li><li>• Testing the GGEO delivery associated with SCCR 591. (Saunders, Ayers)</li></ul>

**Table 4: CERES Subsystem Delivery Schedule - August 2005**  
**(Next Science Team Meeting - November 1 - 3, 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)
GGEO (SCCR 591)	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	Process Terra Beta TSI.		
CERESlib	October			Inversion modifications		
Inversion	Late October			Delivering Aqua ADMs and code changes (PGE CER4.5-6.3P3) to use them.		
Clouds	???			Support TRMM VIRS-only processing of August 2001 forward.		

**Table 5: SCCR Activity July 25 at 3:00 p.m. - August 8 at 2:00 p.m.**

SCCR	S	U	A	C	D	SS	Page No.	Comments
590		X	X		X	2		
591	X					11	8	

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

**CERES Software Configuration Change Request Submittal**

Subsystem: GGEO

SCCR Date & TIME: 2005-07-30 15:32:59

SCCR No.: 591

Parameter Change: ( ) YES (X) NO

Description of Change (Science):

1. Added half-hour correction to METEO-5 and METEO-7 McIDAS data
2. Modified application of the multiplying factor for 10-bit McIDAS input data.

Reason for Change (Science):

1. The nominal time on the METEOSAT McIDAS images are for the end of the scan rather than the beginning.
2. The multiplying factor was incorrectly tied to the pixel resolution. This was working correctly for the previous data but would have given wrong results for GOES-9 data.

Description of Change (non-Science):

Modified script which selects GGEO inputs to recognize different naming schemes for non-McIDAS GOES-12 data.

Reason for Change (non-Science):

The data supplier for non-McIDAS GOES-12 changed between 6/2004 and 7/2004.

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: 11.1P1-8,10

Estimated Time to Complete Change : ready to go

Planned Delivery Date : August 5, 2005

List Affected Subsystems and PGE Names: GGEO

Originator: STASSI, JOE C. (SAIC)



**Table 6: August 10, 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 delivered to CERES CM and ValR5 testing and validation completed. Aqua Edition2 is now available through March 2005. (Cooper)</li> <li>Quarterly Gimbal test data has been evaluated for all 4 instruments. All instruments continue to perform nominally. (Hess)</li> <li>Continue to monitor FM4 anomaly. (Team)</li> <li>Studying the Earth Shine paper to understand how the analysis was done. Work will be done to create our own set of geometries to give to Norm Loeb for his analysis to show that the Earth Shine conclusions are in error. (Szewczyk)</li> </ul>	
2.0	Walikainen	<ul style="list-style-type: none"> <li>Produced Flash Flux (000002) spectral correction coefficient files. (Walikainen).</li> <li>Discovered months (Aug04 and Oct04; FM1 and FM2) that had no ES8 gif files, and a month missing more than 20 daily gif files (Apr05; FM1,FM2 and FM3). (Walikainen)</li> <li>Preparing initial test results for Terra (Nov04-Jun05) Spectral Response functions. (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: August 10, 2005 - Subsystem Issues and Status (2 of 4)**

<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>• Worked on preparing poster and talk for Conference in China. (Chen, Sun-Mack).</li> <li>• Worked on GGEO problem found--&gt; Too cold for clear sky. (Sun-Mack)</li> <li>• CloudVis images for TRMM VIRS and VIRSonly Edition2 data has been processed for all available for 28 subset regions from January 1998 through July 2001. All images have been posted on the Web. Cloudvis images for Terra MODIS Edition2-QC were generated for the Greece region from February 2000 through November 2004. (Brown)</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>• Performed second review of paper by Alexandar Ignatov on Terra and Aqua aerosol comparison. (Miller)</li> <li>• Prepared slide for Bruce Wielicki for Data Fusion Conference on convolution lessons learned. (Miller)</li> <li>• Worked on poster session for Data Fusion Conference with Mike Little. (Miller)</li> <li>• Monitored Aqua Edition1A processing. Four hours missing for August 2004 all related to IES missing or small. (Miller)</li> </ul>	
4.5	Nolan	<ul style="list-style-type: none"> <li>• Completed 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>• Completed work to create scripts to extract all files required for the CM delivery of each Inversion PGE. Completed scripts included PGEs CER4.5-6.1P2, CER4.5-6.1P3, CER4.5-6.3P2, and CER4.5-6.3P3. (Sothcott)</li> </ul>	

**Table 6: August 10, 2005 - Subsystem Issues and Status (3 of 4)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
4.5	Nolan (Cont'd)	<ul style="list-style-type: none"> <li>Modified and tested SW surface flux model A, SW surface flux model B, and surf_typdef modules to include updates provided by Anne Wilber and Shashi Gupta. (Nolan)</li> <li>Created binary SSF and SSF validation files using the updated SW surface flux models for all FM1 Edition2B SSF January 2002 data. Created a monthly FM1 January 2002 SSF validation file and provided this file to Anne Wilber and Shashi Gupta. (Nolan and Sothcott)</li> <li>Completed extracting daytime Edition2B SSF subsets from the ASDC archive and placing them on the inversion-a disk for the ADM working group. Also created files containing the primary Instrument mode for each day Instrument mode for both the FM1 and FM2 SSF subsets. (Snyder)</li> </ul>	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> <li>Incorporating changes for Aqua and making test runs for Working Group evaluation. (Zentz)</li> <li>Preparing version of code equivalent to current production version for porting and testing in OpenSource environments. (Caldwell, Zentz)</li> <li>Generated main configuration files and set up S4P environment for SARB Pre-processor at the SCF. (Zentz)</li> </ul>	
7.2	Coleman	<ul style="list-style-type: none"> <li>No new updates.</li> </ul>	
12.0	Coleman	<ul style="list-style-type: none"> <li>No new updates.</li> </ul>	
7.1	Nguyen	<ul style="list-style-type: none"> <li>Fred Rose found the unmatched solar zenith angles at observation time between TSI and FSW. Searching for the cause of this abnormality. (Nguyen &amp; Rose)</li> <li>Dave Doelling requested to add an adjustment to the input albedos from FSW. A subroutine was added to adjust the input albedos. (Nguyen &amp; Doelling)</li> </ul>	
8.0	Nguyen	<ul style="list-style-type: none"> <li>No new updates.</li> </ul>	

**Table 6: August 10, 2005 - Subsystem Issues and Status (4 of 4)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
10.0	Nguyen	<ul style="list-style-type: none"> <li>Added phase 3 to SRBAVG run to create the zonal binary files which contain the interpolated albedos and cloud properties. Ran July, October, and December 2002 for Aqua and Terra to produce binary files for Dave Doelling to use to develop a new algorithm for phase 4 SRBAVG. (Nguyen)</li> <li>Running 12 months 2002 to create the monthly and monthly averaged albedos and SW fluxes for later use. (Nguyen)</li> </ul>	
6.0	Raju	<ul style="list-style-type: none"> <li>Work started to update PGEs CER6.2P1, CER6.3P1 PCF generator scripts to check number of inputs and to exit with an error if the file count is less than the expected number of files. (Raju)</li> <li>Verified Terra Edition2C FSW order and sent mail to Erika Geier. (Raju)</li> </ul>	
9.0	Raju	<ul style="list-style-type: none"> <li>Work started to update PCF generator scripts for PGEs CER9.3P1, CER9.4P1 to check number of inputs and to exit with an error if the file count is less than the expected number of files. (Raju)</li> </ul>	
11.0	Stassi	<ul style="list-style-type: none"> <li>Ran first-pass processing for March 2003 thru June 2004 except for three failed jobs. The outputs were made available to TISA science members to create calibration coefficients. (Stassi, Raju)</li> <li>Running first-pass processing for March 2000 thru Feb. 2003. (Raju)</li> <li>Prepared and delivered GGEO subsystem to CERES CM. (Stassi, Raju)</li> <li>Completed January 2002 1-hourly McIDAS data at SCF. (Raju, Stassi)</li> </ul>	
CERESlib Coleman/Zentz		<ul style="list-style-type: none"> <li>Status report: Added ggeo_1hr modules to SCF version of CERESlib. (Coleman, Zentz)</li> </ul>	