

## January 26, 2005 - System Issues and Status

**Table 1: Process Strategy/Geier as of 01/26/05**  
**Active Requests in order of priority (1 of 3)**

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 110-04	Aqua	ValR3	SSF (SS4)  Inversion	4.5-6.3P3 4.5-6.2P2	6/30/03	Done 12/10/04.
PR 111-04	Aqua	ValR4	SSF (SS4)  Inversion	4.5-6.6P3 4.5-6.2P2	6/30/03	Daily Inversion-only (alternate main). Done 12/22/04.
PR 114-04 to 121-04	Terra	ValR4	BDS/ ERBELike (SS1-3)	1.3P3 1.2P1 2.4P1 2.2P1 2.3P1 2.3P2 3.1P1 3.2P1	For selected dates during 1/04 - 5/04 period.	Cancelled 1/3/05.
PR 100-04	Terra	Edition2C	SFC (SS 9)	9.3P1 9.4P1	3/00 - 10/03	Run only 9.3 & 9.4. Done 12/13/04.
PR 108-04	Terra	Edition2C	SFC (SS 9)	9.2P1 9.3P1 9.4P1	11/03 - 12/03	Done 12/23/04.
PR 99-04	Terra	Edition2C	SRBAVG (SS10)	10.1P1	3/00 - 2/03	Done 12/13/04.
PR 113-04	Terra	ValR7	SFC (SS 9)	9.2P1 9.3P1 9.4P1	7/00	Cancelled 12/13/04.
PR 112-04	Terra	ValR7	FSW (SS6)	6.1P1 6.2P1 6.3P1	7/00	Cancelled 12/13/04.
PR 107-04	Aqua	ValR3/ValR4	Clouds	4.1-4.1P3	6/30/03	Done 1/21/04.
PR 109-04	Aqua	Edition1B	SSF (SS4)  Inversion	4.5-6.3P3 4.5-6.2P2 4.5-6.4P1	7/02 - 6/03	Done 1/16/05.

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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>
PRs 60-04, 61-04	Aqua	Edition1A	SSF (SS4)  Clouds	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1 <del>4.5-6.1P3</del> <del>4.5-6.2P2</del> <del>4.5-6.4P1</del>	7/03 - 6/04	Done 12/30/04.
PR 105-04	Aqua	Edition1B	SSF (SS4)  Inversion	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	7/03 - 6/04	Done 12/30/04.
Standing requests AM-PR 1-00 to 7-00	Terra	Edition1	BDS/ ERBElke (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 on hold.  <b>ON HOLD starting with 1/1/05 data. Subsystem requests that Instrument delivery to handle uploaded patch be promoted before any 2005 data processed.</b>
Standing requests PM-PR 7-03A to 10-03	Aqua	Edition1	BDS/ ERBElke (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 on hold.  <b>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.</b>

**Table 1: Process Strategy/Geier as of 01/26/05**  
**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 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 for associated ValR5 to run.</b>  DO NOT PROCESS 3.2P2 - it is on hold.
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 on hold.
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>
M-PR 3-02		NSIDC- NESDIS	EICE ESNOW (SS4.1)	4.1-4.0P1	Standing request	
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	3/01 - 2/02 4/02 - 2/03	Done 1/17/05.
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 01/26/05**  
**Coming Soon (1 of 2)**

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
3/05	Aqua/ Terra	ValR5	BDS (SS 1)	?	Test out delivery that handles instrument patch. Will also need ValRx files for Terra gains/SRF delivery.
	Terra	Edition2B	SSF (SS 4.5-6)	1/04 - ??	As soon as IES available, run SSF.
	Terra	ValR7	SFC (SS 9)	?	Test delta delivery to split environment variables scripts.
	Terra	ValR7	FSW (SS 6)	?	Test delta delivery to split environment variables scripts and delivery that adds parameters to FSW.
	Terra	Edition2C	FSW (SS 6)	3/00 - 3/03	Added parameters to FSW.
	Terra	Edition2C	SFC (SS 9)	1/04 - ??	Once delivery cleared and SSF inputs available, run.
	Aqua	ValR3	SFC (SS 9)	7/02 - 6/03	Correct region numbers; need Edition1B SSF as input.
	Aqua	ValR3	SRBAVG (SS10)	7/02 - 2/03	
	Aqua	Edition1B	SFC (SS 9)	7/02 - 6/03	Correct region numbers; need Edition1B SSF as input.
	Aqua	Edition1B	SRBAVG (SS10)	7/02 - 2/03	
	Aqua	Beta1	CRS (SS 5)	7/02 - 6/03	
	Aqua	Beta1	FSW (SS 6)	7/02 - 6/03	
		ValR11	GGEO (SS11)	3/03 - 6/03	Requires redelivery to handle GOES-9 and GOES-12; requires coefficients.
	Aqua	ValR1	SRBAVG (SS10)	3/03 - 6/03	
4/05		Edition2A	GGEO (SS11)	3/03 - 6/03	ValR11 must be approved.
	Aqua	Edition1B	SRBAVG (SS10)	3/03 - 6/03	

**Table 2: Process Strategy/Geier as of 01/26/05**  
**Coming Soon (2 of 2)**

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
unkn		ValR11	GGEO (SS11)	? months	7/03 - 6/04; requires coefficients.
		Edition2A	GGEO (SS11)	7/03 - 6/04	
	Aqua	Edition1A	SRBAVG (SS10)	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.
	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: January 26, 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>• There has been no SCCR activity in the last two weeks. (Ayers)</li><li>• Based on input gathered by the SEC, the Clouds and Inversion Operator's Manuals were updated and delivered to the ASDC. The File Management Policy was also updated accordingly. (Ayers, Saunders)</li><li>• CM and Documentation Web pages were updated to reflect the change from Atmospheric Sciences Competency to Science Directorate. (Ayers, Saunders)</li></ul>

**Table 4: CERES Subsystem Delivery Schedule - January 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)
Instrument	February			Terra gains for January - May 2004.		
ERBE-like	February			Terra spectral response function files for January - May 2004.		
Inversion (SCCR 568)	February			To run Terra alternate main on a daily basis.		X
TISA Gridding	February			To add parameters to FSW and change SFC (PGE 9.4) HDF files.		
Instrument	February			Update code to support satellite patch. (Terra & Aqua)		
GGEO (SCCR 553)	January 28	February 11	February 18	Delivery to handle GOES-9 and GOES-12, new McIDAS format and processing data beyond March 2003.		X
Instrument	Late February			Aqua gains.		
ERBE-like	Late February			Aqua spectral response function files.		
TISA Averaging	February 18 - March 18			Terra Edition2D SRBAVG needed for Science Team Meeting.		
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: January 26, 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>The Instrument Subsystem held a code review of the Count Conversion portion of the subsystem code. Several comments on possible problem areas in the code were revealed and are being evaluated. No problems with the algorithms being used were discovered, however, reviewers did uncover areas where flags were being overwritten. These overwritten flags do not affect the science results. The instrument team would like to thank the reviewers for their time in this endeavor. (Cooper, Hess, &amp; Spence)</li> <li>Implementation of a true AT (accounting for the Earth rotation) is under way. The most recent test (01/16/05) of the AT run on FM3 showed a very narrow &lt;10km swath. Prediction codes for Terra and Aqua are being revised to start a new implementation on 02/08/05, and then every 2 weeks. (Szewczyk)</li> </ul>	
2.0	Walikainen	<ul style="list-style-type: none"> <li>Comparing ES4 and Direct-compare monthly trends. [FM2-FM1] SW flux shows different trends. [FM2-FM1] LW flux shows the direct-compare is about 0.4 Watts/m<sup>2</sup> greater than the ES4 results. Presented to the Science team. (Walikainen)</li> <li>Continuing next round of spectral response function testing for Terra edition2 Jan-Nov 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 5: January 26, 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 VIRSonly Edition2 from January 2000 through April 2000 for the Kaashidhoo region. Completed processing Terra MODIS Edition2-QC from February 2000 through December 2000 for the Kaashidhoo region. Also processed CloudVis images for Aqua MODIS Edition1A from July 2002 through December 2003 for the Paliseau, France (SIRTA) and Pacific ITCZ regions. (R. Brown)</li> <li>Working on removing, archiving and cleaning up data results on web server in order to make room for new results. Currently out of disk space. (R. Brown)</li> <li>Modified Cloudvis Viewer and QC Viewer web scripts to produce latest version of NASA footer and header on web pages. (R. Brown)</li> <li>Working on CERES multilayer improvements and validations with lidar ER2 data. (Chen &amp; Sun-Mack).</li> <li>Working on EGU 2005 abstract. (Minnis &amp; 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>Tested Terra and Aqua production executables (hourly through monthly) under the new Operating System. All differences were resolved to be external to the executable. Snow and Ice processor also was successfully tested. (Miller)</li> <li>Tested Terra code using new SGI FORTRAN compiler, 7.4.3. There are differences in the Monthly QC files. We still see differences from the main processor. The differences under the previous processor were scientifically insignificant. The Snow and Ice processor had no differences. (Miller)</li> <li>Reviewed instrument radiance conversion code and attended code review. (Miller)</li> <li>Continued moving daily SSF QC files to nearline storage. (Miller)</li> </ul>	

**Table 5: January 26, 2005 - Subsystem Issues and Status (3 of 5)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
4.5	Nolan	<ul style="list-style-type: none"> <li>• Set up test area for Inversion OS upgrade testing. Copied all existing production executables for the active PGEs and required ancillary, input, and comparison data into the test area. (Nolan)</li> <li>• PGEs CER4.5-6.1P2, CER4.5-6.1P3, CER4.5-6.2P2, CER4.5-6.3P2, CER4.5-6.3P3, and CER4.5-6.4P1, were successfully tested using the existing both production executables and executables created by compiling under the updated OS. (Sothcott)</li> <li>• Completed timing study comparing file access time for data stored on the inversion disks, inversion Mac disks, and CERES archive disks and sent results to Norman Loeb. (Nolan)</li> <li>• Worked with Lin Chambers on accessing SSF subset data from the CERES archive. (Nolan)</li> <li>• Continued work to modify and test PGE CER4.5-6.2P2 version which includes a flag to turn off the creation of the SSF subset files and allow only the SSF validation subsets to be created for FLASH Flux. (Sothcott)</li> <li>• Initiated work to copy Terra FM1 Edition2A SSF subsets into the CERES archive using NLstore. Nine months of Edition2A FM1 Daytime SSF subsets were archived. (Sothcott)</li> <li>• 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. Seven months of FM3 Edition1A SSF subsets were archived. Work was initiated on extracting and archiving FM3 Edition1B SSF subsets. (Snyder)</li> <li>• Continued work to create lists of SSF subset stored on the CERES archive for both daytime and nighttime subsets in FAPS, RAPS and Alongtrack modes. (Snyder)</li> <li>• Initiated review of draft SSF description/abstract. (Nolan &amp; Sothcott)</li> </ul>	
4.6	Nolan	Combined with above.	

**Table 5: January 26, 2005 - Subsystem Issues and Status (4 of 5)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
5.0	Coleman	<ul style="list-style-type: none"> <li>• Posted QC plot summaries to the Web for Terra Edition2B CRS months that completed. (Caldwell)</li> <li>• Generated plots of FSW data relevant to SARB's QC effort and made them available to the SARB Working Group. (Zentz)</li> <li>• Moving files from SARB-a disk to near-line storage as part of an overall cleanup effort. (Caldwell)</li> <li>• Met with Tom Charlock to demonstrate SARB DMT Web pages. Now implementing his suggestions. Moved pages from saisun26 to lposun. (Zentz &amp; Caldwell)</li> </ul>	
7.2	Coleman	<ul style="list-style-type: none"> <li>• Investigating Tom Charlock's request for producing SYNI data subsets over selected regions. (Coleman)</li> </ul>	
12.0	Coleman	<ul style="list-style-type: none"> <li>• Successfully tested use of the string "ValOS" in sampling strategy portion of filename. (Caldwell)</li> <li>• Investigating whether changes to Regrid MOA scripts are sufficient to allow more flexibility in production strategies. (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>• Updating the code to read the whole month of SFC and GGEO data to create CERES and GGEO clear-sky maps data files before processing the whole month of SRBAVG. (Nguyen)</li> <li>• Preparing to run 3 years of SRBAVGs. (Nguyen)</li> <li>• Waiting for Dave Doelling and Dennis Keyes to provide the science code for the clear-sky map calculations. (Nguyen)</li> </ul>	

**Table 5: January 26, 2005 - Subsystem Issues and Status (5 of 5)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
6.0	Raju	<ul style="list-style-type: none"> <li>• Provided information to Dave Doelling on how the CERES measurement is placed in the GMT hour box, along with the TOA SW flux normalization procedures. (Raju)</li> <li>• Initiated work to process full month of July 2002 FM1 data at SCF to generate FSW binary product for TISA science team. (Raju)</li> <li>• Initiated work to update documents to include new parameters' information. (Raju)</li> </ul>	
9.0	Raju	<ul style="list-style-type: none"> <li>• Processed December 2003 day 31 FM1 data through all Subsystem 9.0 PGEs using production executable at SCF after the OS upgrade. Compared generated outputs with the production outputs, and did not find any differences. (Raju)</li> <li>• Prepared documents to describe Gridding subsystems for FLASHflux group. Met with the group to discuss how to use the code and if there are any methods to speed things up in their process. (Raju &amp; Stassi)</li> </ul>	
11.0	Stassi	<ul style="list-style-type: none"> <li>• The GGEO weeder PGE source code and scripts were modified to write a metadata file for the output. (Raju)</li> <li>• The July 2004 data were processed at the SCF for all five satellites using McIDAS flat file inputs. The Web plots for this data were created and made available for TISA analysts to view. (Stassi)</li> <li>• The GGEO Main processor scripts and source code have been modified to write 1-hourly granfile outputs. Work has begun on the GGEO Post processor to read the hourly granfiles and create a 1-hourly GGEO output. (Stassi)</li> </ul>	
CERESlib Stassi/Ayers		<ul style="list-style-type: none"> <li>• The meta_write.f90 file was modified to correctly handle input filenames which are explicitly added to the metadata information. (Raju)</li> <li>• CERESlib was updated on the SCF with the modified TISA Gridding modules and the modified meta_write.f90 module. (Stassi)</li> </ul>	