

## February 7, 2007 - System Issues and Status

**Table 1: Process Strategy/Geier as of 02/7/07  
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	
PRs 2-07 to 4-07		Edition2A	GGEO/ GGEOW (SS11)	11.1P10 11.2P2 11.6P1	6/04 - 10/05	Done 1/20/07.
PR 1-07	FM1, FM2	Edition2D	TISA avg (SS10)	10.1P2 10.1P1	6/04 - 10/05	Done 1/20/07.
PR 1-OS7 to 118-OS7	FM1, FM2, FM3, or FM4	ValR2OS*	All sub-systems	All active PGEs	See individual PRs	Attempt to get as many CERES PGEs validated on new OS and TK 5.2.12 as quickly as possible.
PR 129-06	FM3, FM4	Beta6	TISA avg (SS10)	10.1P5 10.1P4	7/02 - 5/04	
PR 131-06	FM1 or FM2	Beta3	Synoptic (SS7.2)	7.2.1P1	3/00 - 12/01 2/03	Waiting on 12/00 problem resolution from SARB.
PR 17-07 to 18-07	FM3 or FM4	ValR10/ ValR10- NoSW	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2	12/31/05	
PR 15-07 to 16-07	FM3 or FM4	ValR11/ ValR11- NoSW	Inversion (SS4.5-6)	4.5-6.3P3 4.5-6.2P2	12/31/05	
PR 13-07 to 14-07	FM3 or FM4	ValR12/ ValR12- NoSW	Inversion (SS4.5-6)	4.5-6.6P3 4.5-6.2P2	12/31/05	
PR 130-06	FM1, FM2	ValR8	TISA avg (SS10)	10.1P2 10.1P1	5/04	Cancelled 1/22/07.

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Standing requests AM-PR 1-05 to 7-05	Terra	Edition1-CV	BDS/ ERBELike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.1P1 2.2P1 2.3P1 2.3P2 3.1P1	Standing request	These PRs replace standing requests AM- PR 1-00 to 7-00.
Standing requests PM-PRs 15-05 to 18-05	FM3	Edition1-CV	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	Standing request	These PRs replace standing requests PM-PRs 1-05 to 4-05.
Standing requests PM-PRs 11-05 to 14-05	FM4	Ed1-CV- NoSW	BDS/ ERBELike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1	Standing request	These PRs replace standing requests PM-PRs 7-05 to 10-05.
PR 12-07	FM3	Edition2B	Inversion (SS4.5-6)	4.5-6.6P3 4.5-6.2P2 4.5-6.4P1	7/2/02 hr 15 to 1/1/06 hr 11	<b>Wait for ValR11 and ValR12 approval.</b>
PR 9-07	FM3	Edition2B	TISA grid (SS 9)	9.2P1 9.3P1 9.4P1	7/2/02 hr 15 to 1/1/06 hr 11	<b>Wait for input from PR 12-07.</b>
PR 11-07	FM4	Edition2B	Inversion (SS4.5-6)	4.5-6.6P3 4.5-6.2P2 4.5-6.4P1	7/2/02 to 3/30/05 hr 17	<b>Wait for ValR11-NoSW and ValR12-NoSW approval.</b>
PR 8-07	FM4	Edition2B	TISA grid (SS 9)	9.2P1 9.3P1 9.4P1	7/2/02 to 3/30/05 hr 17	<b>Wait for input from PR 11-07.</b>
PR 10-07	FM4	Ed2B-NoSW	Inversion (SS4.5-6)	4.5-6.6P3 4.5-6.2P2 4.5-6.4P1	3/30/05 hr 18 to 1/1/06	<b>Wait for ValR11-NoSW and ValR12-NoSW approval.</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>
PR 7-07	FM4	Ed2B-NoSW	TISA grid (SS 9)	9.2P1 9.3P1 9.4P1	3/31/05 hr 12 to 1/1/06 hr 11	<b>Wait for input from PR 10-07.</b>
PR 6-07	FM1 or FM2	Beta3	TISA avg (SS 7.1)	7.1.1P1	6/01, 3/03 - 10/05	Extend the TSI/SYNI data set out as far as possible to determine effects of GGEO satellite changes.
PR 5-07	FM1 or FM2	Beta3	Synoptic SARB (SS 7.2)	7.2.1P1	6/01, 3/03 - 10/05	
M PR 2-06		GEOS4	MOA (SS12)	12.1P1	Standing request	
M PR 1-06		GEOS4	PMOA (SS9.1)	9.1P1	Standing request	
PR 131-06	FM1 or FM2	Beta3	Synoptic (SS7.2)	7.2.1P1	3/00 - 12/01 2/03	

**Table 2: February 7, 2007 - System Issues and Status**

Activity	Lead	Status
CM	Ayers	<ul style="list-style-type: none"><li>• See <a href="#">Table 3</a> for the current CERES Subsystem Delivery Schedule and <a href="#">Table 4</a> for the current CERES Coefficients Delivery Schedule. (Ayers)</li><li>• See <a href="#">Table 5</a> for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow <a href="#">Table 5</a>. (Ayers)</li><li>• Testing the Inversion delivery associated with SCCR 638. (Saunders)</li><li>• Delivered the December 2006 Clouds S'COOL data file to the ASDC. (Saunders)</li><li>• Executed the smfcompile_all script according to each subsystem's Test Plan to populate the include and message directories for Toolkit version 5.2.12. (Ayers)</li><li>• Reviewed the new version of the CERES CM system and provided comments/corrections to Beth Flug. (Ayers, Saunders)</li><li>• Provided updated PGE size information to John Robbins. (Ayers)</li><li>• Updated the CERES Subsystem and Coefficients Delivery Schedules and posted them on the Web. (Ayers, Saunders)</li></ul>

**Table 3: CERES Subsystem Delivery Schedule - February 2007**

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)	Certified Platform(s)
Inversion (SCCR 638)	December 8	December 22	After Upgrades	Aqua Inversion Edition2B to fix SW Model B errors.			<i>warlock</i>
TISA Averaging (SCCR 639)	February 2	February 16	February 23	Support Terra/Aqua Beta3 SYN/AVG/ZAVG processing.			<i>warlock</i>
Clouds (SCCR 603)	March 2007			To process MODIS V005. Delivery needs to be made prior to processing Collection 5. To run Terra/Aqua Beta1-Ed3 SSF.	X	X	<i>warlock</i>
TISA Averaging	Spring 2007			Support Edition2D SRBAVG Daily & ISCCP-like processing.			<i>warlock</i>
Instrument	Spring 2007			Delivery of simulated IES PGE to support TRMM VIRS-only processing.			<i>warlock</i>
Clouds	Spring 2007			Support TRMM VIRS-only processing of August 2001 forward.			<i>warlock</i>
Instrument (SCCR 627)	Spring 2007			To allow processing of both Edition2 and Edition3 data through PGE CER1.3P3			<i>warlock</i>
Inversion	Two weeks after Clouds			Terra/Aqua Beta1 Edition3 SSF processing.	X		<i>warlock &amp; magneto</i>
TISA Gridding	Two weeks after Inversion			Support Terra/Aqua Beta Edition3 SFC processing.			<i>warlock &amp; magneto</i>
TISA Gridding	???			PMOA delta delivery dealing with overlap file checking.			<i>warlock</i>

**Table 4: CERES Coefficients Delivery Schedule - February 2007**

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	Certified Platform(s)
Instrument/ ERBE-like	N/A	February 23	February 23	Terra and Aqua Edition2 gains and spectral response function files for January 1, 2006 - January 1, 2007.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	N/A	Early Summer 2007		Terra Edition3 gains and spectral response function files for February 2000 - June 2005.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	N/A	Early Summer 2007		Aqua Edition3 gains and spectral response function files for June 2002 - March 2005.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	N/A	Late Summer 2007		Terra Edition3 gains and spectral response function files for July 2005 - December 2005.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	N/A	Late Summer 2007		Aqua Edition3 gains and spectral response function files for April 2005 - December 2005.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	???			TRMM Edition3 gains and spectral response function files for December 1997 - April 2000.	<i>warlock/ magneto</i>

**Table 5: SCCR Activity January 22 at 12:00 p.m. - February 5 at 12:00 p.m.**

<b>SCCR</b>	<b>S</b>	<b>U</b>	<b>A</b>	<b>C</b>	<b>D</b>	<b>SS</b>	<b>Page No.</b>	<b>Comments</b>
637				X		10		
643				X		7.2		

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

**Table 6: February 7, 2007 - Subsystem Issues and Status (1 of 5)**

SS No.	SS Lead	Status	Problems
1.0	Cooper	<ul style="list-style-type: none"> <li>Continued to monitor receipt of Aqua and Terra data at the ASDC. (Cooper, Snyder)</li> <li>The instrument group has been given permissions to start working from the instrument-san disk. So far no major problems have been encountered, however, not every one has made the switch yet. Problems doing an ls from <i>thunder</i> in the instrument-san area have been encountered. (Cooper)</li> <li>Verified ValR2OS data for PGEs CER1.1P3, CER1.1P5, and CER1.2P1. Working to complete the validation of PGE CER1.3P1. Permission to continue production on Baseline1-QC has been given to ASDC at this point in time. (Cooper)</li> <li>Processing Edition2 and Edition3 validation tests on the cluster. Several of the Pre-ES8 files have problems being processed by ERBE-Like. Reprocessing the files appears to clear up the issues. Still trying to figure out what is happening so that all created files will be readable by ERBE-Like. (Cooper, Donaldson, Snyder)</li> <li>CERES Special Ops: GERB intercomparison continues thru 02/10/2007. (Szewczyk)</li> </ul>	
2.0	Walikainen	<ul style="list-style-type: none"> <li>Created Edition2 spectral correction coefficients and nadir files for Terra 2006 data. Direct comparisons were generated but remain preliminary. Some nadir files are incomplete and some have stars instead of legitimate radiances. Overall we lose about 6% of the data to these two problems. This is Test0 where the gains and spectral response functions remain at December 2005 levels. (Walikainen)</li> </ul>	



**Table 6: February 7, 2007 - Subsystem Issues and Status (2 of 5)**

SS No.	SS Lead	Status	Problems
2.0	Walikainen (Cont'd)	<ul style="list-style-type: none"> <li>Created seasonal spectral correction coefficients and nadir files for Edition3 Terra. This is Test5. Direct comparisons were generated but remain preliminary. Some nadir files are incomplete and some have stars instead of legitimate radiances. Overall we lose about 6% of the data to these two problems. (Walikainen)</li> <li>Evaluating PRES8s from instrument OS upgrade testing highlighted the need for an investigation. Every nadir file generated from these PRES8s had a higher filtered WN radiance compared to archived Edition1-CV values. This bias always showed up in the first two records and rarely anywhere else. Although the effect is small, it is isolated and constant which makes it ideal for investigation. (Cooper and Walikainen)</li> <li>Created FM2 Edition1-CV QC reports for a second time constant study. The QC reports are for a month of data and are generated with an instrument thermal response that differs for our hard coded production parameters. Several new parameters were tried and some showed promise. (Szewczyk and Walikainen)</li> <li>Completed OS upgrade testing without recompile for ERBE-like. CER2.2P1 failed. This failure can be bypassed by running with TK 2.5.7 instead of TK2.5.12v1. All other PGES passed testing. (Walikainen)</li> <li>Discovered problems with TK2.5.12v1. During production CER2.3P1 failed. During code conversion to the cluster HDF-EOS2 code in TK5.2.12v1 causes problems. CER2.2P1 fails on <i>thunder</i> and this problem can be traced to a function [swwfrld()] that converts non-HDF files to HDF. (Cross, Donaldson and Walikainen)</li> <li>Continuing to examine QC checker email generated during production. Including the Edition1-CV data products. (Walikainen)</li> <li>Continuing to inspect ERBE-like Aqua and Terra output plots and QC reports on the Web. (Walikainen)</li> </ul>	

**Table 6: February 7, 2007 - Subsystem Issues and Status (3 of 5)**

SS No.	SS Lead	Status	Problems
3.0	Walikainen	Combined with above.	
4.1	Sun-Mack	<ul style="list-style-type: none"> <li>CloudVis images for the Terra Edition2-QC data July 2005 through December 2005 were processed for the Netherlands and Nigeria region as well as data from January 2001 through December 2001 for the Ny Alesund, Spitsbergen region. (R. Brown)</li> <li>Participated in Bruce's Senior Review Preparation meeting. (Sun-Mack)</li> <li>Working on two years of SGP cloud fraction study. (Chen, Sun-Mack)</li> <li>Working on Collection 5 and 4 study. This includes running all 8 days, post process QC global images, statistics, differences and standard deviations. (All: Chen, R.Brown, Trepte, and 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>Finished testing clouds PGE using new OS on <i>thunder</i>. The existing executable for 1P2 - Terra main processor and 1P3 - Aqua main processor showed scientifically equivalent results from testing. (Miller)</li> <li>Approved 0P1 - Snow and Ice Processor ValR2OS run from ASDC. (Miller)</li> <li>Migration of data and code to the SAN continued. (Miller)</li> <li>Estimated Inversion Strength (EIS) and cloud fraction for 20050929 were generated removing footprints with any high clouds. The bin data and some plots were forwarded to Dr. Robert Wood, University of Washington as requested by Dr. Norm Loeb, CSB. A linear regression equation was found to determine cloud fraction from EIS. (Miller)</li> <li>PGE 0P1 was tested on the Mac using Perl scripts. Regression testing was then performed on the SGI. The first cluster run was also performed. Results were identical. (Miller)</li> </ul>	

**Table 6: February 7, 2007 - Subsystem Issues and Status (4 of 5)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
4.5	Sothcott	<ul style="list-style-type: none"> <li>• Attended weekly SOFA working group meetings. (Sothcott)</li> <li>• Completed testing Inversion PGEs on SCF using the new OS and current toolkit. All PGEs require recompile. (Sothcott)</li> <li>• Completed update of the SOFA working group testing software. (Sothcott)</li> <li>• Continuing work with the SCF SAs to recover as much data from the inversion-a disk as is humanly possible. (Sothcott)</li> <li>• This item was done to support CM: Updated the source code line-counting script to include new PGEs CER10.1P3, CER10.1P4 and CER10.1P5. (Sothcott)</li> </ul>	
4.6	Sothcott	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> <li>• Completed testing Instantaneous SARB on SCF with new OS. (Caldwell)</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>• Working with FLASHflux team to resolve GEOS-5 related issues. (Caldwell)</li> <li>• Working with Fred Rose on implementing Edition3 ideas. (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>• Wrote code to read AVG/SYN/ZAVG to check for NaN and Inf. (Nguyen)</li> <li>• Implemented new SW interpolated code to improve the results. (Nguyen)</li> <li>• Continue testing and running July 2002 Terra SYN/AVG/ZAVG for validation. (Nguyen)</li> <li>• Preparing for delivery. (Nguyen)</li> <li>• Ran SYN web plot program using new 07/02 SYN files and created web plots for validations. Checked out of range values for flux parameters and sent the information to Cathy Nguyen. (Raju, Beth)</li> </ul>	

**Table 6: February 7, 2007 - Subsystem Issues and Status (5 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>Continued copying directories from sgi to tisa-san and tisa_avg-san. (Nguyen)</li> <li>Ran a test case in tisa_avg-san for checking. (Nguyen)</li> <li>Ran January, February, March 1998 TRMM SRBAVGs for validation. Used 3-months merged phase 2 data to run for February SRBAVG. (Nguyen)</li> </ul>	
6.0	Raju	<ul style="list-style-type: none"> <li>Checked PGE 6.1P1 code to find the reason for failed job during SSIT OS Upgrade Testing. Found this was due to missing required files in PGS directory. (Raju)</li> <li>Started looking into PGE 6.2P1 failed job at SSIT OS Upgrade Testing. (Raju)</li> </ul>	
9.0	Raju	<ul style="list-style-type: none"> <li>No new updates. (Raju)</li> </ul>	
11.0	Raju	<ul style="list-style-type: none"> <li>Ran March 2000 day 15 MCIDAS data, compared with Edition2A GGEO IR, Visible values and generated regression coefficient plots for Dave Doelling. For his requests, made temporary updates to the CER11.1P10 code to apply regression coefficients to make MCIDAS data consistent with Edition2A GGEO radiances. Ran whole month of 03/00 data through 1-hourly process and generated GGEO product for SRBAVG process. (Raju)</li> <li>Modified PCF generator scripts to handle GOES-11 satellite that replaced GOES-10 in July 2006. Ran all 5 satellites' data for a day through PGE 11.1P10. (Raju)</li> <li>Created 11/05 web plots for days 14, 15, 16 for MTSAT-1 validations for Dave Doelling. (Raju)</li> <li>Work continued on validating Edition2A GGEO product. (Raju)</li> </ul>	
CERESlib Coleman/Zentz		<ul style="list-style-type: none"> <li>No new updates.</li> </ul>	