

## January 10, 2007 - System Issues and Status

**Table 1: Process Strategy/Geier as of 01/10/07  
Active Requests in order of priority (1 of 2)**

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	
PR 127-06	FM1	Beta3	Synoptic (SS7.2)	7.2.1P1	2002 seasonal months	Done 12/9/06.
PR 115-06	FM1, FM2	Beta9	SRBAVG (SS 10)	10.1P2 10.1P1	6/04 - 12/05	Done 12/11/06.
PR 126-06	FM1	Beta3	Synoptic (SS7.2)	7.2.1P1	Remaining 2002 months	Done 12/20/06.
PR 129-06	FM3, FM4	Beta6	TISA avg (SS10)	10.1P5 10.1P4	7/02 - 5/04	<b>Waiting on promotion.</b>
PR 131-06	FM1 or FM2	Beta3	Synoptic (SS7.2)	7.2.1P1	3/00 - 12/01 2/03	
PR 130-06	FM1, FM2	ValR8	TISA avg (SS10)	10.1P2 10.1P1	5/04	<b>Waiting on promotion.</b>
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.

**Table 1: Process Strategy/Geier as of 01/10/07**  
**Active Requests in order of priority (2 of 2)**

<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 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 117-06		Beta9	GGEO (SS11)	11.4P1	6/04 - 12/05	If problems can be resolved prior to OS upgrade, please run. Otherwise this PR will be cancelled.
M PR 2-06		GEOS4	MOA (SS12)	12.1P1	Standing request	
M PR 1-06		GEOS4	PMOA (SS9.1)	9.1P1	Standing request	

**Table 2: January 10, 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>• Compiled and tested the TISA Averaging delivery associated with SCCR 637 and released it to the ASDC. (Ayers)</li> <li>• Successfully recompiled and tested GGEO PGE CER11.4P1 as requested in SCCR 642. (Saunders)</li> <li>• Delivered the November 2006 Clouds S'COOL data file to the ASDC. (Saunders)</li> <li>• Delivered the updated Synoptic SARB Operator's Manual associated with SCCR 634 to the ASDC. (Saunders)</li> <li>• Testing the Inversion delivery associated with SCCR 638. (Saunders)</li> <li>• Reviewed the CERES CM Web Application document for accuracy and completeness. (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 - January 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>
Synoptic SARB (SCCR 643)	December 29	January 12	January 19	Modification to PCF generator to allow for change in naming convention of NOAA SnowIce input files.			<i>warlock &amp; magneto</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 - January 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	Spring 2007		Terra Edition3 gains and spectral response function files for February 2000 - June 2005.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	N/A	Spring 2007		Aqua Edition3 gains and spectral response function files for June 2002 - March 2005.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	N/A	Summer 2007		Terra Edition3 gains and spectral response function files for July 2005 - December 2005.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	N/A	Summer 2007		Aqua Edition3 gains and spectral response function files for April 2005 - December 2005.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	???			TRMM gains and spectral response function files for December 1997 - April 2000.	<i>warlock/ magneto</i>

**Table 5: SCCR Activity December 11 at 12:00 p.m. - January 8 at 4:00 p.m.**

SCCR	S	U	A	C	D	SS	Page No.	Comments
642			X			11		
643	X					7.2	6	

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

**CERES Software Configuration Change Request Submittal**

Subsystem: SynSARB      SCCR Date & TIME: 2007-01-08 15:35:15      SCCR No.: 643

Parameter Change: ( ) YES (X) NO

Description of Change (Science):  
N/A

Reason for Change (Science):  
N/A

Description of Change (non-Science):

Req Log #7.2-1.10

Modification to PCF generator for Synoptic SARB to allow for change in naming convention of NOAA SnowIce input files.

Reason for Change (non-Science):

Req Log #7.2-1.10

NOAA filenames used an underscore where a period was previously expected.

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: 7.2.1P1

Estimated Time to Complete Change : 2 days

Planned Delivery Date : January 12, 2007

List Affected Subsystems and PGE Names: 7.2.1P1

Originator: CAL DWELL, THOMAS E. (SAIC)

**Table 6: January 10, 2007 - Subsystem Issues and Status (1 of 6)**

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>Began transferring data to instrument SAN disk from the existing <i>thunder/lightning</i> areas. Currently, the instrument-f and instrument-g areas can be made read-only. Other disk areas still require coordination before moving the data to the SAN and making the area read-only. This effort will not be completed until after the Edition3 processing is completed. (Cooper)</li> <li>Testing instrument PGEs on <i>darrin</i>. Currently, PGE CER1.1Px and CER1.2P1 have been tested for FM1. These PGEs were tested before and after recompilation and all data products matched exactly to existing data files. Currently creating a month of Pre-ES8s for FM1 so that ERBE-Like has the required data files to test all of its PGEs for one instrument. All other testing for other instruments will be a set of select data dates. Processing on <i>darrin</i> is considerably slower than on <i>warlock</i> or <i>thunder</i>, it is taking an average of 6 hrs. per data date to run PGE CER1.1Px, instead of the usual 3 hrs. on <i>warlock</i>. This means that it is taking much longer to complete the testing than originally anticipated. (Cooper)</li> <li>Working with Jim Donaldson to set up the instrument SAN area to restart the new Edition3 validation effort after all the files were lost from the SAN disk in December. Jim is currently making the final adjustments to the processing scripts to allow Dianne to begin running seasonal data months for Terra. Grant is still working on the gain and spectral response function updates for Aqua. Input data files for Aqua still need to be recovered; however, these files are not needed until after the seasonal months of Terra have been completed, approximately 3 wks. (Cooper, Donaldson, Snyder)</li> <li>CERES Special Ops: AlongTrack - 01/09 &amp; 01/23/2007. GERB intercomparison - 01/15 - 02/10/2007. (Szewczyk)</li> </ul>	

**Table 6: January 10, 2007 - Subsystem Issues and Status (2 of 6)**

SS No.	SS Lead	Status	Problems
2.0	Walikainen	<ul style="list-style-type: none"> <li>Converted CER2.2P1 to work on Mac cluster. There remains a component that needs modification, which can wait until Subsystem 3 is converted. (Donaldson)</li> <li>Converting CER3.1 P1 to work on Mac cluster. (Donaldson)</li> <li>Testing the new toolkit and operating system has started on <i>darrin</i>. (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>	
3.0	Walikainen	Combined with above.	
4.1	Sun-Mack	<ul style="list-style-type: none"> <li>CloudVis images for Terra Edition2-QC data from March 2000 through December 2005 were processed for the Syowa and Georg Von Neumayer, Antarctica regions. (R. Brown)</li> <li>Verified processing QC seasonal statistical results for Aqua Edition1A and Terra Edition2-QC. (R. Brown)</li> <li>Copied Clouds processing data (inputs/outputs) to clouds.san. Will do test runs once clouds.san is changed to clouds-san (or other name). (Sun-Mack)</li> <li>Worked on stratus clouds paper. (Sun-Mack, Chen)</li> <li>Creating Ed3 clear sky maps. (Chen, Sun-Mack)</li> <li>Converting Clouds scripts to perl. (Chen)</li> <li>Working on CloudSat/CERES-MODIS visualization package. (Gibson)</li> <li>Supported Minnis's AGU talk. (Gibson, Brown, Chen, Sun-Mack)</li> <li>Merry Christmas and Happy New Year :) (All).</li> </ul>	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	



**Table 6: January 10, 2007 - Subsystem Issues and Status (3 of 6)**

SS No.	SS Lead	Status	Problems
4.4	Miller	<ul style="list-style-type: none"> <li>Tested Fortran 90 code to calculate Estimated Inversion Stability (EIS). Sensitivity studies were performed that showed no significant improvements by replacing initial assumptions given in the paper with more accurate algorithm formation. Average values for cloud fraction in EIS bins were generated using both footprint and 1 degree grid data. Information was provided to Dr. Norm Loeb. (Miller)</li> <li>Completed processing October 1, 2005 data to determine ADM differences. IGBP map discrepancy and instrument misunderstanding required restart. (Miller)</li> <li>Tested clouds PGE using new OS and Toolkit on <i>darrin</i>. The existing executable (retrieval and footprint) for 1P3 cannot be run. PGE 1P1 (TRMM) and 1P2 have not been tested yet. The existing 1P2 does not have the library problem of 1P3. All other PGEs work using either existing executable or recompiled. (Miller)</li> <li>Started migration of data and code to the SAN. Validated software as it is moved. (Miller)</li> <li>Investigated problem with cloud retrieval running on SAN. The parsing algorithm used to match geolocation, radiance, and aerosols uses the period. Since the new SAN path has a period in directory structure, the code was converting characters to numbers. (Miller)</li> <li>Started producing EIS and cloud fraction for 20000911 to compare to an earlier paper using winds and SST for determining cloud cover for Dr. Norm Loeb. (Miller)</li> </ul>	
4.5	Sothcott	<ul style="list-style-type: none"> <li>Attended weekly SOFA working group meetings. (Sothcott)</li> <li>Completed testing and delivered Aqua Inversion Edition2B software to CM. (Sothcott)</li> <li>Created daily subset for 10/01/2005 for Seiji Kato. (Sothcott)</li> </ul>	

**Table 6: January 10, 2007 - Subsystem Issues and Status (4 of 6)**

SS No.	SS Lead	Status	Problems
4.5	Sothcott (Cont'd)	<ul style="list-style-type: none"> <li>Successfully completed testing of PGEs CER4.5-6.1P2, CER4.5-6.1P3, CER4.5-6.3P3 and CER4.5-6.6P3 on <i>darrin</i> using the updated OS and toolkit. Currently testing the remaining PGE's. (Sothcott)</li> </ul>	
4.6	Sothcott	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> <li>Working with Fred Rose on Edition 3. (Caldwell)</li> <li>Working with SARB Working Group to organize the directory structure for the SARB san disk space. (Caldwell)</li> </ul>	
7.2	Coleman	<ul style="list-style-type: none"> <li>Working on script modifications to work around a change in the naming convention for the externally supplied snow and ice files accessed by the Synoptic SARB Subsystem. Most probably looking at a near-term delta delivery. (Caldwell)</li> </ul>	
12.0	Coleman	<ul style="list-style-type: none"> <li>Successfully tested existing production executable on <i>darrin</i>. (Caldwell)</li> </ul>	
7.1	Nguyen	<ul style="list-style-type: none"> <li>No new updates. (Nguyen)</li> </ul>	
8.0	Nguyen	<ul style="list-style-type: none"> <li>Ran 4 seasonal months of SYN/AVG/ZAVG for Dennis to validate. (Nguyen)</li> <li>Correcting errors found in the output data. (Nguyen)</li> </ul>	
10.0	Nguyen	<ul style="list-style-type: none"> <li>Ran March 2000 Terra FM2 with the 1-hourly GGEO and 3-hourly GGEO produced by Raja at SCF for Dave Doelling to analyze. (Nguyen)</li> <li>Tested CER10.1P5 on <i>darrin</i>. Successfully compared the outputs from <i>warlock</i> and <i>darrin</i>. (Nguyen)</li> <li>Testing CER10.1P4 on <i>darrin</i> and comparing outputs from <i>darrin</i> and from <i>warlock</i>. There are differences in SRBAVG1. Currently investigating the cause of the differences. (Nguyen)</li> <li>Ran February 1998 TRMM with the latest version of Aqua code for Dave Doelling to analyze. (Nguyen)</li> <li>Compared the cloud parts of the code for TRMM and Aqua. Reported differences to Dave Doelling. (Nguyen)</li> </ul>	

**Table 6: January 10, 2007 - Subsystem Issues and Status (5 of 6)**

SS No.	SS Lead	Status	Problems
10.0	Nguyen (Cont'd)	<ul style="list-style-type: none"> <li>Compared TRMM and Aqua code for the clear-sky LW TOA fluxes. (Nguyen)</li> </ul>	
6.0	Raju	<ul style="list-style-type: none"> <li>Tested all Subsystem PGEs on <i>darrin</i> using test_plan procedures. Evaluation procedures showed no differences between generated data files and the out_exp files. Tests will continue to run one month data through PGE 6.3P1. (Raju)</li> </ul>	
9.0	Raju	<ul style="list-style-type: none"> <li>Tested PGEs 9.1P1, 9.2P1, 9.3P1, 9.4P1 on <i>darrin</i> using test_plan procedures. Evaluation procedures showed no differences between generated data files and the out_exp files. Tests will continue to run one month data through PGE 9.4P1. (Raju)</li> </ul>	
11.0	Raju	<ul style="list-style-type: none"> <li>Processed March 2000 MCIDAS data through 1-hourly PGE and generated GGEO 1-hourly product for SRBAVG process. As per Dave Doelling's requests, generated 3-hourly GGEO product using 1-hourly files and provided inputs to Averaging. (Raju)</li> <li>Checked all Beta9 METEO-5 PCF, Logfiles, and processed 12/04 data through PGEs 11.1P10, 11.2P2, 11.P3 at SCF to find the reason for the discontinuity between Dec04 and Jan05 in Dennis Keyes's calibration time-line plots for METEO-5 satellite. Later received mail from Dennis Keys stating that the error was due to using Beta8 data in his plot programs and the time-line plots for Beta9 did not show any problems. (Raju)</li> <li>Tested 11.1P10, 11.2P2, 11.4P1, 11.6P1 PGEs on <i>darrin</i> using test_plan procedures. Evaluation procedures showed no differences between generated data files and the out_exp files. Ran 06/04 data through 11.2P2, 11.4P1 and found no problems. (Raju)</li> <li>Checked all production versions of PCF, met files from January 1998 - December 2005 and created a document including processed satellite names, IDs and their formats. Sent the requested document to Dave Doelling. (Raju)</li> </ul>	

**Table 6: January 10, 2007 - Subsystem Issues and Status (6 of 6)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
CERESlib Coleman/Zentz		<ul style="list-style-type: none"><li>• Responding to new TK version issues. (Zentz)</li></ul>	