

## April 15, 2009 - System Issues and Status

**Table 1: Process Strategy/Coleman as of 4/13/2009  
Active Requests in order of priority**

<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 14-09 through 20-09	FM1, FM2, FM3, FM4	ValR12	BDS, ES-8, ES-4, ES-9	1.3P3, 1.2P1, 2.4P1, 2.2P1, 2.3P1, 2.3P2, 3.1P1	9/07, 5/08, 2/08	Process immediately upon delivery and promotion of gains and SRF
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 40-09	CERES	ValR2	MOA	12.1P2	12/97	Done. 4/10/09
PR 2-09	FM3 or FM4	Edition2B	SYNI	7.2.1P1	7/1/2002 – 10/31/05	In progress
PR 1-09	FM3 or FM4	Edition2B	SYN/AVG /ZAVG	8.1P1	7/1/2002 – 10/31/05	In progress
PR 5-09	FM1 or FM2	Edition2C	SYNI	7.2.1P1	3/1/2000 – 10/31/05	In progress
PR 4-09	FM1 or FM2	Edition2C	SYN/AVG /ZAVG	8.1P1	3/1/2000 – 10/31/05	In progress
PR13-09	CERES	DAO-G5- CERES	MOA	12.1P1	1/1/08 – 1/1/09	In progress

**Table 1: Process Strategy/Coleman as of 4/13/2009**  
**Active Requests in order of priority**

<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 12-09	CERES	DAO-G5-CERES	PMOA	9.1P1	1/08 – 12/08	In progress
PR 64-08	FM3, FM4	Edition1B-IGBP	SSFI Clouds	4.1-4.1P5 4.1-4.2P3 4.1-4.2P2 4.1-4.3P2	01/01/2004 – 12/31/2005	In progress - IN THE BACKGROUND PRIORITY
PR 63-08	FM3, FM4	Ed2C-MOD-C4-Land-IGBP	SSF Inversion	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	01/01/2004 – 12/31/2005	In progress
PR 7-09	FM1	ValR12	CRS Inst SARB	5.0P1 5.1P1 5.4P1	5/1/07 – 5/31/07	Done. 3/31/09
PR 29-09		ValR14	EICE ESNOW (SS4.1)	4.1-4.0P2	6/17/08	Pending promotion
PR 38-09		ValR14-Mesh16	EICE ESNOW (SS4.1)	4.1-4.0P2	6/17/08 8/07	Pending promotion
PR 37-09	FM1, FM2	ValR14	SSFI	Clouds delivery to <i>magneto</i>	8/07	Pending promotion
PR 36-09	FM1, FM2	ValR14	SSF	Inversion delivery to <i>magneto</i>	8/07	Pending promotion
PR 35-09	FM3, FM4	ValR14	SSFI	Clouds delivery to <i>magneto</i>	8/07	Pending promotion
PR 34-09	FM3, FM4	ValR14	SSF	Inversion delivery to <i>magneto</i>	8/07	Pending promotion
PR 11-09	FM3	ValR10	FSW TISA-Grid	6.1P1 6.2P1 6.3P1	6/30/07 – 8/1/07	Pending promotion
PR 10-09	FM3	ValR10	SFC TISA-Grid	9.2P1 9.3P1 9.4P1	6/30/07 – 8/1/07	Pending promotion
PR 09-09	FM1	ValR10	FSW TISA-Grid	6.1P1 6.2P1 6.3P1	4/30/07 – 6/1/07	Pending promotion
PR 08-09	FM1	ValR10	SFC TISA-Grid	9.2P1 9.3P1 9.4P1	4/30/07 – 6/1/07	Pending promotion

**Table 1: Process Strategy/Coleman as of 4/13/2009**  
**Active Requests in order of priority**

<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 21-09 through 28-09	FM1, FM2, FM3, FM4	Edition2	BDS, ES-8, ES-4, ES-9	2.4P1, 1.3P3, 1.2P1, 2.2P1, 2.3P1, 2.3P2, 3.1P1, 3.2P1	9/2/07 – 1/1/09	Pending promotion. Need to process 8/2/07 – 1/1/08 at high priority, then lower priority on 2008 dates.
PR 57-08	FM1, FM2	Edition2A-QC	SSFI Clouds	4.1-4.1P4 4.1-4.2P3 4.1-4.2P2 4.1-4.3P2	1/1/07 – <del>9/1/07</del> 1/01/08	Extended to 12/31/07 Pending input
PR 56-08	FM1, FM2	Edition2F	SSF Inversion	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	1/1/07 – <del>9/1/07</del> 1/01/08	Extended to 12/31/07 Pending input
PR 55-08	FM1, FM2	Edition2F	SFC TISA-Grid	9.2P1 9.3P1 9.4P1	12/31/06 hr 12 – <del>9/1/07 hr 11</del> 1/1/08 hr 11	Extended to 12/31/07 Pending input
PR 54-08	FM1 V005 MOD08	Edition2F	CRS Inst SARB	5.0P1 5.1P1 5.4P1	1/1/07 – <del>8/31/07</del> 12/31/07	Extended to 12/31/07 Pending Input
PR 53-08	FM1	Edition2F	FSW TISA-Grid	6.1P1 6.2P1 6.3P1	1/1/07 – <del>8/31/07</del> 12/31/07	Extended to 12/31/07 Pending input
PR 84-08	FM1 or FM2	Beta1	ISCCP-D2like-Day/Nit	9.0P1	03/2000 – <del>08/2007</del> 12/2007	Done. 4/7/09
PR 33-09	FM3, FM4	Edition1B	SSFI	4.1-4.1P5 4.1-4.2P3 4.1-4.2P2 4.1-4.3P2	9/1/07 – 1/01/08	Pending input
PR 32-09	FM3, FM4	Edition2C/N oSW	SSF	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	9/1/07 – 1/01/08	Pending input
PR 31-09	FM3, FM4	Edition2C/N oSW	SFC	9.2P1 9.3P1 9.4P1	12/31/06 hr 12 – <del>9/1/07 hr 11</del> 1/1/08 hr 11	Pending input
PR 30-09	FM3	Edition2C	CRS	5.0P1 5.1P2 5.4P2	9/1/07 – 12/31/07	Pending input
PR 29-09	FM3	Edition2C	FSW	6.1P1 6.2P1 6.3P1	9/1/07 – 12/31/07	Pending input

**Table 2. April 15, 2009 - System Issues and Status**

Activity	Lead	Status
CM/Documentation	Ayers (Saunders)	<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>• Received updated code for PGE CER4.5-6.3P3 along with script updates for all eight PGEs associated with SCCR 690. The files were installed on <i>magneto-P4</i>, PGE CER4.5-6.3P3 was recompiled, and all of the PGEs were retested. The delivery was released back to the ASDC on April 10. (Ayers)</li> <li>• The Inversion Operator’s Manual was updated, posted on the Web, and provided to the ASDC. (Saunders)</li> <li>• The first phase of updates to the CERES process plans was completed. (Saunders, Ayers)</li> <li>• The CERES Subsystem and Coefficients Delivery Schedules were updated and posted on the Web. (Ayers, Saunders)</li> </ul>

**Table 3. CERES Subsystem Delivery Schedule – April 2009**

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)
Instrument (SCCR 702)	March 20	April 10	April 17	NPP-enabled PGE CER1.1P7, possibly CER1.2P1 (preES-8). Add NPP as a satellite option and FM5 as an instrument option to the existing Instrument subsystem code.		X	<i>warlock</i>
Instrument (SCCR 703)	March 27	April 24	May 1	NPP C++ Build 1 (CER1.1P8).		X	<i>magneto-P4</i>
ERBE-like (SCCR 696)	April 10	April 24	May 1	To process everything including all of Edition3 on <i>magneto</i> .			<i>magneto-P4</i>
GGEO (SCCR 653)	April 17	May 1	May 8	Initial coefficient delivery for 11/05 - 8/07. Code delivery to support Beta10 GGEO processing.			<i>magneto-P4</i>
Clouds	April 17	May 1	May 8	Terra and Aqua Beta2-Edition3.			<i>magneto-P4</i>
Instrument (SCCR 709)	April 24	May 8	May 15	Delivery of PGE 1.0P2 (pre-processor) for NPP to correct the problems identified in the first delivery.			<i>magneto-P4</i>
Inversion (SCCR 704)	May 1	May 15	May 22	Terra and Aqua Beta2-Edition3.		X	<i>magneto-P4</i>

**Table 3. CERES Subsystem Delivery Schedule – April 2009**

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)
TISA Averaging (SCCR 650)	May 15	May 29	June 5	Support Terra Edition2E and Aqua Edition2B SRBAVG1-3 and Daily processing. New PGEs: CER10.0P1, CER10.0P2, & CER10.0P3.	X	X	<i>magneto-P4</i>
TISA Gridding	May 22	June 5	June 12	SFC Beta2-Edition3.			<i>magneto-P4</i>
GGEO	Summer			New PGE 11.7P2 (?) for new ISCCP-D2-like-Merge (?) product. All ISCCP-D2-like HDF products will have the same format.		X	<i>magneto-P4</i>
TISA Gridding	Summer			Edition version of ISCCP-D2-like-Day/Nit. All ISCCP-D2-like HDF products will have the same format.			<i>magneto-P4</i>
GGEO	Summer			Edition version of ISCCP-D2-like-GEO. All ISCCP-D2-like HDF products will have the same format.			<i>magneto-P4</i>
Instrument	Summer			Delivery of PGE CER1.1P7 to X86 platform.			<i>magneto-X86</i>
TISA Averaging	Early Fall			SRBAVG Beta2-Edition3. Adding Model C surface fluxes and solar insolation.			<i>magneto-P4</i>

**Table 3. CERES Subsystem Delivery Schedule – April 2009**

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)
Instrument	September 18	October 2	October 9	Build that runs full Terra/Aqua Baseline1-QC and Edition1-CV as well as NPP.			<i>magneto-P4</i>
Clouds	Late 2009			Terra and Aqua Edition3			<i>magneto-P4</i>
Inversion	Late 2009			Terra and Aqua Edition3			<i>magneto-P4</i>
TISA Gridding	January 2010			New PGE 9.0P2 (?) for new ISCCP-D2-like-Flux (?) product. All ISCCP-D2-like HDF products will have the same format.		X	<i>magneto-P4</i>
Instrument	February 2010			Build corrects NPP related errors discovered in NCT3 testing.			<i>magneto-P4</i>
Instrument	May 2010			Build corrects all NPP errors found so far. Last Build before launch freeze date.			<i>magneto-P4</i>
Clouds	???			Support TRMM VIRS-only processing of August 2001 forward.			<i>magneto-P4</i>
Inversion	Two to four weeks after Clouds			Support TRMM VIRS-only processing.			<i>magneto-P4</i>
Instrument (SCCR 641)	???			Delivery of simulated IES PGE to support TRMM VIRS-only processing. New PGE: CER1.0P1.		X	<i>magneto-P4</i>

**Table 4. CERES Coefficients Delivery Schedule – April 2009**

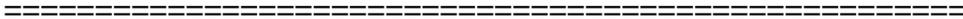
Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	Certified Platform(s)
GGEO	April 17	May 1	May 8	Final coefficients for 11/05 - 08/07.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	N/A	Spring		Edition2 gains and spectral response function files for September 2007 – December 2008.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	N/A	July		Terra and Aqua Edition3 gains and spectral response function files for Launch – December 2006. Might include TRMM, also.	<i>warlock/ magneto</i>
Instrument/ ERBE-like	N/A	???		TRMM Edition3 gains and spectral response function files.	<i>warlock/ magneto</i>

**Table 5. SCCR Activity March 30 at 2:00 p.m. – April 13 at 3:00 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>

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

**CERES Software Configuration Change Request Submittal**



**Table 6. April 15, 2009 - Subsystem Issues and Status**

SS No.	SS Lead	Status	Problems
Toolkit Issues	Coleman Zentz	<ul style="list-style-type: none"> <li>• Karen Brown built the TK for the P6 architecture of the new IBM system. The x86 version will be incoming next week sometime. (Brown)</li> <li>• Karen will also be building the test version of 5.2.15 for Dale sometime next week. (Brown)</li> </ul>	
1.0	Cooper (Walikainen)	<ul style="list-style-type: none"> <li>• Continue to monitor incoming Terra and Aqua Level-0, ephemeris and attitude data. (Snyder)</li> <li>• Working to deliver CER1.1P7 NPP-FM5 main subsystem in Ada. Delivery to <i>warlock</i> only at this time. This delivery should complete this week, as Denise was out sick all last week. (Cooper)</li> <li>• A problem with the compiler/CERESlib/Toolkit libraries may exist on <i>magneto</i>, not all libraries are available as 64-bit for GNAT on the P4s. It appears that the current version of the 32-bit GNAT compiler is for 3.4.4 and not 4.2.2. (Grepitotis)</li> </ul>	
2.0	Walikainen (Cooper)	<ul style="list-style-type: none"> <li>• Continuing to examine QC checker email generated during production. (Walikainen)</li> <li>• Continuing to inspect ERBE-like Aqua and Terra output plots. (Walikainen)</li> <li>• Conversion to <i>magneto</i>. My work around attempts for the <code>openfile()</code> problem have failed. I will need a recompile of the Toolkit to accept the APPEND option. Note: ERBE-like appears to be the only sub-system that uses APPEND. (Walikainen)</li> </ul>	
3.0	Walikainen (Cooper)	Combined with above.	

**Table 6. April 15, 2009 - Subsystem Issues and Status**

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Brown)	<ul style="list-style-type: none"> <li>• Continued loading images from Terra Ed2 into Google Map tool. (Heckert)</li> <li>• Improved detailed display in Google Earth curtain file to place the currently selected curtain slice in context with the slices around it. (Heckert)</li> <li>• Began working on implementing Flux profile curtains into Google Earth. (Heckert)</li> <li>• Continued to work on updating CWG Web Page. (R. Brown)</li> <li>• Setup SSF web viewer scripts for Aqua Edition2B and Terra Edition2F. Modified QC Web Viewer scripts for Edition2. (R. Brown)</li> <li>• Update CERES/FlashFlux QC results through 200902 for Aqua and Terra. Working on adding CloudFractNoRet results for FLASHflux. (R. Brown)</li> <li>• Continued to work on processing SSF images for Aqua and Terra for 2005. (R. Brown)</li> <li>• Studied NetCDF and its C and Fortran callable I/O routines. (Smith)</li> <li>• Began work on software to read SSF hdf cloud properties data files and move the data into NetCDF files. (Smith)</li> <li>• Worked A-train processing --&gt; 4 seasonal months. (Sun-Mack)</li> <li>• Worked on validations between CERES, CALIPSO and CloudSat. (Chen, Sun-Mack)</li> <li>• Worked on A-train code with Ed2 CERES version. (Sun-Mack)</li> <li>• Began working on Ed3 Beta2. (Sun-Mack)</li> </ul>	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller (Sun-Mack)	<ul style="list-style-type: none"> <li>• Delivered GGEO required clouds input files to CM for use on <i>magneto</i>. (Miller)</li> </ul>	

**Table 6. April 15, 2009 - Subsystem Issues and Status**

<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>• Incorporated updated SW model B algorithms for testing. Ran two months of data each for four separate tests of the algorithm updates. Delivered results to the SOFA group for review. (Sothcott)</li> </ul>	
4.6	Sothcott	Combined with above.	
5.0	Caldwell (Coleman)	<ul style="list-style-type: none"> <li>• Working on Edition3 surface albedo pre-processor. (Caldwell)</li> </ul>	
7.2	Caldwell (Coleman)	<ul style="list-style-type: none"> <li>• No new updates. (Caldwell)</li> </ul>	
12.0	Caldwell (Coleman)	<ul style="list-style-type: none"> <li>• Resolved problem with ValRx testing of MOA data. (Caldwell)</li> </ul>	
7.1	Nguyen (Raju, Filer)	<ul style="list-style-type: none"> <li>• No new updates. (Nguyen)</li> </ul>	
8.0	Nguyen (Raju, Filer)	<ul style="list-style-type: none"> <li>• No new updates. (Nguyen)</li> </ul>	
10.0	Nguyen (Raju, Filer)	<ul style="list-style-type: none"> <li>• Creating Clarreo data for 2005. (Nguyen)</li> <li>• Validating the surface fluxes by comparing the computed monthly means from the daily averages and monthly averages from SRBAVG. (Nguyen)</li> <li>• Validating the monthly hourly averages of surface fluxes. (Nguyen)</li> <li>• Continuing to update code to produce nonGEO SRBAVGs for Edition 3. (Filer)</li> </ul>	
6.0	Raju (Nguyen)	<ul style="list-style-type: none"> <li>• No new updates. (Raju)</li> </ul>	
9.0	Raju (Nguyen)	<ul style="list-style-type: none"> <li>• No new updates. (Raju)</li> </ul>	

**Table 6. April 15, 2009 - Subsystem Issues and Status**

SS No.	SS Lead	Status	Problems
11.0	Raju (Nguyen)	<ul style="list-style-type: none"> <li>• Completed processing satellites' data except MTSAT/B1U up to 12/07 through PGEs 11.1P10, 11.2P2. Documented the images that have problems while processing through ggeo. (Raju)</li> <li>• Met with ASDC personnel and TISA science group to discuss about B1U pre-processor issue. (Raju)</li> <li>• Preparing documents and the software for upcoming ggeo delivery. (Raju)</li> <li>• GOES-11 satellite 09:00 GMT image is missing for eclipse seasons where the satellite is not taking images. Looking into possibilities to process the adjacent hour image that is not full-disk hence having less pixels per scan line than expected. (Raju)</li> </ul>	
Special Development Corner		<ul style="list-style-type: none"> <li>• No report received.</li> </ul>	