

## February 22, 2012 - System Issues and Status

**Table 1: Process Strategy/Coleman as of 02/22/12**  
**Active Requests in order of priority as of 02/21/12**

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
The PRs that follow are the Standing PRs						
M-PR 1-09		NSIDC-NESDIS	EICE ESNOW 16 <sup>th</sup> mesh	4.1-4.0P2	Standing Request	
PRs NPP 6-11 through 14-11	NPP	AtLaunch	BDS/ ERBELike (SS1-3)	1.0P2, 1.1P8, 1.2P1, 1.4P1, 1.4P2, 2.2P1, 2.3P1, 2.3P2, 3.1P1	Standing Request	
PRs NPP 1-11 through 5-11	NPP	Baseline1-QC	BDS/ ES8	1.0P2, 1.1P8, 1.2P1, 1.4P1, 2.2P1	Standing Request	
AM 8-11 thru 11-11	Terra	Baseline1-QC	BDS/ES8	1.1P8, 1.2P1, 1.4P1, 2.2P1	Standing Request	
PM 8-11 thru 11-11	Aqua					
AM 12-11 thru 19-11	Terra	Edition1-CV	BDS/ ERBELike (SS1-3)	1.1P8 1.2P1 1.4P1 1.4P2 2.1P1 2.2P1 2.3P1 2.3P2 3.1P1	Standing request	
PM 12-11 thru 19-11	Aqua					

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AM 1-11 to 7-11 PM 1-11 to 7-11	Terra Aqua	Edition1-CV	SSF Clouds and Inversion	4.1-4.1P4/5 4.1-4.2P2/3 4.1-4.3P2 4.5-6.1P2/3 4.5-6.2P2 4.5-6.4P1	Standing Request	
PR M 3-11 SCCR 858	CERES	DAO-G5-CERES	MOA	12.1P1	Standing request	New PR for AMI processing
PR M 2-11 SCCR 753	CERES	DAO-G5-CERES	PMOA	9.1P1	Standing request	New PR to coordinate with new standing PR M 3-11
The PRs that follow are the Non-Standing PRs that can be processed						
PR 214-11  SCCR 804	Terra, Terra +Aqua	ValR1	SYNi	7.2.1P1	7/01 1/04 10/05 1/08 4/10	Ready  Priority 1
PR 213-11  SCCR 795	Terra, Terra +Aqua	ValR1	SYN1deg	8.1.P1	7/01 1/04 10/05 1/08 4/10	Ready  Priority 1
PRs 179-10 thru181-10  SCCR 789	Terra	Edition3A	SFC	9.2P2, 9.3P2 9.4P2	3/00 – 10/05	In Progress  Priority level 1
* PRs 111-10 thru 113-10 (partial – remainder) SCCR 789	Aqua XTrk	Edition3A	SFC	9.2P2 9.3P2 9.4P2	7/02 – 4/06 NOTE: Dates 7/02 thru 3/05 should only need to be processed at this point	In Progress – 4/05 thru 4/06 already processed  Priority Level 1
PR 100-10  SCCR 794	FM3, FM4	Edition3A	SAH	5.0P2	7/02 – 3/05	Ready  Priority Level 1

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PR 182-10  SCCR 794	Terra	Edition3A	SAH	5.0P2	3/00 – 10/05	Ready  Priority Level 1
PRs 17-12 thru 26-12  SCCRs 716, 863, 740	Terra, Aqua	Edition3	BDS/IES ES8/4/9	1.2P1, 1.3P3 2.2P1, 2.3P1&2 2.4P1	6/2/11 – 9/1/11	Ready  Priority Level 1
PRs 73-11 thru 75-11  SCCRs 811, 791, 690	FM1, FM2	Edition3A	SSF	4.5-6.5P4 4.5-6.2P4 4.5-6.4P1	12/2/2010 – 1/1/11	Ready Complete thru 12/31/10  Priority Level 2
PRs 70-11 thru 72-11  SCCR 789	Terra Xtrk	Edition3A	SFC	9.2P2 9.3P2 9.4P2	12/2/2010 – 1/1/11	Ready Complete thru 12/31/10  Priority Level 2
PRs 58-11 thru 56-11  SCCRs 812, 791, 690	FM3, FM4	Edition3A	SSF	4.5-6.5P5 4.5-6.2P4 4.5-6.4P1	6/30/10 – <del>12/4/10</del> 11/1/11	Ready FM3 Complete thru 12/31/10  Priority Level 2
PRs 62-11 thru 64-11  SCCR 789	Aqua Xtrk	Edition3A	SFC	9.2P2 9.3P2 9.4P2	6/30/10 – <del>12/4/10</del> 11/1/11	Ready Complete thru 12/31/10  Priority Level 2
PRs 161-11 thru 163-11	Terra	Edition3A	SFC	9.2P2, 9.3P2 9.4P2	1/06, 5/06, 6/06	Ready  Priority Level 2
PR 6-11  SCCR 749	CERES	GMAO-G541-Ed4	MOA	12.1P2	2/28/2000 – 3/1/2010	In Progress  Priority Level 2
PR 65-11  SCCR 794	FM1 FM2	Edition3A	SAH	5.0P2	7/10 – 11/10	Ready  Priority Level 2

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PR 69-11  SCCR 794	FM1 FM2	Edition3A	SAH	5.0P2	12/2010	Ready  Priority Level 2
PR 68-11  SCCR 794	FM3 FM4	Edition3A	SAH	5.0P2	3/10 – 6/10	3 / In Progress. FM3 Complete  Priority Level 2
PRs 14-12 thru 16-12  SCCRs 870, 791, 690	Terra	Edition3A	SSF	4.5-6.5P4 4.5-6.2P4 4.5-6.4P1	12/31/10 – 9/1/11	Ready  Priority Level 3
PRs 9-12, 10-12, 13-12  SCCR 789	Terra	Edition3A	SFC	9.2P2, 9.3P2 9.4P2	12/31/10 – 9/1/11	Ready  Priority Level 3
PR 8-12  SCCR 794	Terra	Edition3A	SAH	5.0P2	1/11 – 8/11	Ready  Priority Level 3
PRs 5-12 thru 7-12  SCCRs 871, 791, 690	FM3, FM4	Edition3A	SSF	4.5-6.5P5 4.5-6.2P4 4.5-6.4P1	12/31/10 – 9/1/11	Ready  Priority Level 3
PRs 2-12 thru 4-12  SCCR 789	Aqua Xtrk	Edition3A	SFC	9.2P2 9.3P2 9.4P2	12/31/10 – 9/1/11	Ready  Priority Level 3
PR 1-12  SCCR 794	Aqua	Edition3A	SAH	5.0P2	1/11 – 8/11	Ready  Priority Level 3
PR 137-09  SCCR 746	FM1, FM2	Edition2A	ISCCP-D2like-Day/Nit	9.0P1	Launch thru 10/02	In Progress  Priority Level 3
PR 136-09  SCCR 746	FM3, FM4	Edition2A	ISCCP-D2like-Day/Nit	9.0P1	Launch thru 10/02	Ready.  Priority Level 3

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PR 46-09	FM3 V005 MYD08	Edition2D	CRS	5.0P1 5.1P1 5.4P1	12/1/07 - 6/30/10	Ready. Process 1 <sup>st</sup> month and wait for SS checkout  Priority Level 3
PR 45-09  SCCR 685	FM3	Edition2D	FSW	6.1P1 6.2P1 6.3P1	12/1/07 - 6/30/10	Ready.  Priority Level 3
PRs 164-11 thru 166-11	Terra	Edition3A	SSF	4.5-6.5P4 4.5-6.2P4 4.5-6.4P1	1/06, 5/06, 6/06	Complete. 2/21/12  Priority Level 2
PRs 185-10 thru 187-10  SCCR 782	Terra	ValR15 (for Ed1-CV)	SSF	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	12/07	Cancel. 2/21/12
<p align="center">***** The PRs that follow are on HOLD. They cannot be processed until the associated ValRx processing is approved. *****</p>						
PRs 208-11, 207-11  SCCR 801	Terra +Aqua	Edition3A	TSI	10.0P3, 7.3.1P1	7/2002 – 4/2006	HOLD – PreProd-Pending ValRx App  Priority 2
PRs 204-11, 203-11  SCCR 801	Terra +Aqua	Edition3A	TSI	10.0P3, 7.3.1P1	1/2006 5/2006 – 12/2007	HOLD – PreProd-Pending ValRx App  Priority 2
PRs 200-11, 199-11  SCCR 801	Terra +Aqua	Edition3A	TSI	10.0P3, 7.3.1P1	12/ 2007 – 6/2010	HOLD – PreProd-Pending ValRx App  Priority 2
PRs 196-11, 195-11  SCCR 801	Terra +Aqua	Edition3A	TSI	10.0P3, 7.3.1P1	7/2010 - 12/2010	HOLD – PreProd-Pending ValRx App  Priority 2

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PR 206-11  SCCR 804	Terra +Aqua	Edition3A	SYNi	7.2.1P1	7/2002 – 4/2006	HOLD – PreProd- Pending ValRx Approval  Priority 2
PR 202-11  SCCR 804	Terra +Aqua	Edition3A	SYNi	7.2.1P1	1/2006 5/2006 – 12/2007	HOLD – PreProd- Pending ValRx Approval  Priority 2
PR 198-11  SCCR 804	Terra +Aqua	Edition3A	SYNi	7.2.1P1	12/ 2007 – 6/2010	HOLD – PreProd- Pending ValRx Approval  Priority 2
PR 194-11  SCCR 804	Terra +Aqua	Edition3A	SYNi	7.2.1P1	7/2010 - 2/2010	HOLD – PreProd- Pending ValRx Approval  Priority 2
PR 207-11  SCCR 795	Terra +Aqua	Edition3A	SYN1deg- 3Hour/ M3Hour/ Month	8.1P1	7/2002 – 4/2006	HOLD – Prod- Pending ValRx Approval  Priority 2
PR 201-11  SCCR 795	Terra +Aqua	Edition3A	SYN1deg- 3Hour/ M3Hour/ Month	8.1P1	1/2006 5/2006 – 12/2007	HOLD – Prod- Pending ValRx Approval  Priority 2
PR 197-11  SCCR 795	Terra +Aqua	Edition3A	SYN1deg- 3Hour/ M3Hour/ Month	8.1P1	12/ 2007 – 6/2010	HOLD – Prod- Pending ValRx Approval Priority 2
PR 193-11  SCCR 795	Terra +Aqua	Edition3A	SYN1deg- 3Hour/ M3Hour/ Month	8.1P1	7/2010 - 12/2010	HOLD – Prod- Pending ValRx Approval  Priority 2

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**** The PRs that follow are on HOLD. They cannot be processed until the PGEs have completed pre-operational testing and been promoted ****						
PRs 29-11 thru 31-11  SCCR 763	Terra, Aqua	Beta1	ISCCP-D2like-Mrg	9.0P2 9.0P3	200107 200401 200404 200407 200410	HOLD –PreProd- Waiting for Promotion  Priority Level 3
PRs 139-11 thru 142-11  SCCR 809	FM1, FM2	Beta1-Ed4	SSFI	4.1-4.1P6 4.1-4.2P4 4.1-4.2P5 4.1-4.3P3	2/28/2000 – 6/1/2005	HOLD –PreProd- Waiting for Delivery  Priority Level 3
PRs 143-11 thru 146-11  SCCR 809	FM3, FM4	Beta1-Ed4	SSFI	4.1-4.1P6 4.1-4.2P4 4.1-4.2P5 4.1-4.3P3	6/30/2002 – 3/30/2005	HOLD –PreProd- Waiting for Delivery  Priority Level 3

**Table 2. February 22, 2012 - System Issues and Status**

Activity	Lead	Status
SEC	Miller	<ul style="list-style-type: none"> <li>Nothing to report. (Miller)</li> </ul>
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>Installed the Edition3 gains for Terra FM1 and FM2 for May 31, 2011, through Sept. 1, 2011, on <i>AMI-P</i> and provided them to the ASDC on February 7. (Ayers)</li> <li>SCCR 876 – Installed and tested Perl_Lib on <i>AMI-P</i> and released it to the ASDC on February 8. (Ayers)</li> <li>SCCR 804 – Provided the updated Synoptic SARB PCF generator to the ASDC on February 8 to resolve the formatting problems in the PCF. (Ayers)</li> <li>Installed the Edition3 spectral response function files for Terra FM1 and FM2 for June 1, 2011, through August 31, 2011, on <i>AMI-P</i> and provided them to the ASDC on February 8. (Ayers)</li> <li>SCCR 883 – Installed this TISA Gridding delta delivery on <i>magneto</i> and released it to the ASDC on February 9. (Ayers)</li> <li>SCCR 763 – Added the Terra and Aqua crosstrack files for 2011 and 2012 to this delivery on <i>AMI-P</i>. These are the same files that were delivered to <i>magneto</i> under SCCR 883. (Ayers)</li> <li>SCCR 804 – Provided the updated Synoptic SARB Operator’s Manual to the ASDC on February 8, 10, and 21. (Saunders)</li> <li>Updated the Promoted Directory document to include information for promoting Synoptic SARB on <i>AMI-P</i>. (Ayers, Caldwell)</li> </ul>
<i>AMI</i> Job Submission Scripts (AJSS)	Ayers (Grepitotis)	<ul style="list-style-type: none"> <li>Development continues on the scripts for the upcoming Clouds and Inversion deliveries. (Grepitotis, Hillyer)</li> </ul>



**Table 3. CERES Subsystem Delivery Schedule – February 2012**

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)
CERESlib (SCCR 875)	February 10	February 24	March 2	Edition4 updates for Inversion.			<i>magneto-P4, AMI-P6 &amp; AMI-x86</i>
Instrument (SCCR 882)	February 10	February 24	March 2	Correct time conversion of eph/att records and include leap secs. Incorporate standard exit codes. PGE CER1.0P2.			<i>AMI-P6 &amp; AMI-x86</i>
Clouds (SCCR 809)	N/A	March 2	March 9	Redelivering the <b>Edition4</b> code to <i>AMI-P</i> .			<i>AMI-P6</i>
Inversion (SCCR 814)	March 2	March 16	March 23	Terra and Aqua <b>Beta1-Edition4</b> . PGEs CER4.5-6.1P4, CER4.5-6.1P5, CER4.5-6.2P3 and CER4.5-6.4P2.	X		<i>AMI-P6</i>
ERBE-like (SCCR 867)	April 13	April 27	May 4	Porting all ERBE-like PGEs to x86 platform and standardizing exit codes.			<i>AMI-x86</i>
TISA Averaging		Spring 2012		Delivering the Flux-by-Cloud-Type code to <i>AMI-P</i> .			<i>AMI-P6</i>
Instrument (SCCR 877)		July 2012		Converting PGE CER1.3P3 to C++ creating new PGE CER1.4P3.		X	<i>AMI-P6 &amp; AMI-x86</i>
Instrument (SCCR 878)		July 2012		Update CER1.1P8 to fix any issues found after NPP launch. Also include any fixes for issues which arise with TRMM/Terra/Aqua for this PGE.			<i>AMI-P6 &amp; AMI-x86</i>

**Table 3. CERES Subsystem Delivery Schedule – February 2012**

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 641)		???		Delivery of simulated IES PGE to support TRMM VIRS-only processing. New PGE: CER1.0P1.		X	<i>magneto-P4</i>

**SCF Processing**

Subsystem	Reason for Delivery	SCF Platform
TISA Averaging (SCCR 766)	SRBAVG-nonGEO <b>Beta2-Edition3</b> . New PGE CER10.1P1 for the subsetter code.	<i>AMI-P6</i>

**Table 4. CERES Coefficients Delivery Schedule – February 2012**

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	Certified Platform(s)
There are no deliveries planned at this time.					

**Table 5. SCCR Activity February 7 at 12:00 p.m. – February 21 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>
804				X		Synoptic SARB		
876			X	X		Perl_Lib		Complete SCCR can be reviewed on CERES CM Website.
882			X			Instrument		
883			X			TISA Gridding		
884	X					Perl_Lib	12	

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

## CERES Software Configuration Change Request Submittal

=====

Subsystem: Perl\_Lib                      SCCR Date & TIME: 2012-02-09 09:06:31                      SCCR No.: 884

Parameter Change: ( ) YES (X) NO

Description of Change (Science):

N/A

Reason for Change (Science):

N/A

Description of Change (non-Science):

Adding System::Call module to provide an interface to Perl's "system()" subroutine to properly capture OS return codes and user's return codes.

Adding new PGE class to CERES::AJSS\_PGE for paired daily instances, called "daily\_pair". Option will be provided to specify the maximum number of pairs that can exist during a submission, only in the event that it is needed.

Adding statement to the end of the AJSS\_PGE interactive session to print the location of the summary file to STDOUT.

Reason for Change (non-Science):

System::Call module is needed because bitwise right-shifting the return code from Perl's "system()" subroutine by 8-bits strips return codes that originate from the OS, such as SIGSEGV (segmentation fault). The proper method is to first record the OS return value; if the OS return code is 0, then it is safe to bitwise right-shift by 8 to obtain the user defined exit code.

PGEs that need to be processed as pairs of days (such as CER4.1-4.2P5) need a representation in CERES::AJSS\_PGE so the date pairs are properly validated.

For the user's convenience, the AJSS\_PGE's submission session's summary file should be printed to STDOUT. This file's path can be captured and used by coarse-grained AJSS chaining scripts to identify synchronization barriers.

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 in this Subsystem:

N/A

Estimated Time to Complete Change: 1 Day

Planned Delivery Date: 2/24/2012

List Affected Subsystems and PGE Names: All AMI PGEs

Originator: HILLYER, THOMAS N. (SSAI)

**Table 6. February 22, 2012 - Subsystem Issues and Status**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
Toolkit Issues	Hillyer (Grepitotis)	<ul style="list-style-type: none"> <li>• Toolkit 18 has been released. Will be making test version available. (Hillyer)</li> <li>• Debugging issue with file reads in NetCDF-4 on Power 6. (Hillyer)</li> </ul>	
CERES-lib	Grepitotis (Hillyer)	<ul style="list-style-type: none"> <li>• SCCR 875 – Added optional arguments to FINUTL and ExitStatus. (Hillyer)</li> </ul>	
Perl_Lib	Hillyer (Grepitotis)	<ul style="list-style-type: none"> <li>• SCCR 876 – Added System::Call module to capture OS and user exit statuses from system calls. Added “daily_pair” type to AJSS Framework. Added final statement for listing summary file at the end of the SGE_Driver session. (Hillyer)</li> </ul>	
CERES Proc. System	Hillyer (Grepitotis)	<ul style="list-style-type: none"> <li>• Attended meetings to discuss requirements, schedule, and implementation. (Hillyer, Grepitotis)</li> <li>• Working on weight-based scheduling algorithm for DRMAA process scheduler. (Hillyer)</li> <li>• Testing Apache Java XML-RPC libraries for use in processing system. (Wilkins)</li> <li>• Tested Java JSch libraries for port forwarding over an SSH connection. Test code was successful. (Wilkins)</li> </ul>	
1.0	Cooper (Grepitotis)	<ul style="list-style-type: none"> <li>• SCCR 882 – Updates to fix the geolocation and update to the CERES Standard Exit Codes will be delivered on Friday. (Spivak)</li> <li>• SCCR 878 - Continue updating CER1.1P8; a possible issue with the count conversion algorithm discovered during the NPP Pitch Back maneuver is being investigated. (Grepitotis, Timcoe)</li> <li>• SCCR 877 – Convert the remaining Ada PGE CER1.3P3 to C++ (CER1.4P3). Work continues as time permits as processing and analysis of NPP data is the top priority at this time. (Grepitotis, Timcoe)</li> <li>• Continued monitoring the receipt of RDRs at the ASDC. (Cooper, Spivak)</li> <li>• Problem reports #78 &amp; #184 for CER1.0P2 are still open. Updates being delivered on Friday should address both of these Problem Reports. (Hillyer, Spivak)</li> </ul>	

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SS No.	SS Lead	Status	Problems
2.0	Walikainen (Lande)	<ul style="list-style-type: none"> <li>• SCCR 867 - Resolved differences between <i>P6</i> and <i>x86</i> ES8N data: nadir data is being rounded up or down on the last digit based on the next 2 (i.e., .0249 rounds to .02, .0250 rounds to .03). Hence actual differences are of magnitude 0.0001 W/m<sup>2</sup>, not 0.01. Dale plotted LW/SW flux differences for January 26 FM5 data, showing difference never reached 0.0002 W/m<sup>2</sup>. Came up with and verified test case via hdiff utility to confirm this in the Test Plan. Resolved differences between output ES8 plots as due to different input data versions. (Lande)</li> <li>• SCCR 867 - Resolved problems with CER2.2P1 compilation by redefining F90COMP in compilation script based on value of CPUTYPE. Extended this to CER2.3P1/2 and CER3.1P1 by recompiling them on <i>x86</i> except for ES4 graphics code. Updated 2.3P1 to <i>x86</i>, but problems encountered with ddbint execution. Reviewed/Edited exit code updates for CER2.2P1 as part of compiling new 'Robust' test cases. (Lande)</li> <li>• SCCR 867 - Came up with schedule for PGE completion: CER2.2P1 (3/2); CER2.3P1, CER2.3P2 and CER2.4P1 (3/16); CER3.1P1 (4/6) and CER3.2P1 (4/20). (Walikainen)</li> <li>• Provided Science Team with ES8s for FM5 Coastline Detection. We need at least a full month. However, the partial month of data shows we are accurately identifying the coasts. (Walikainen)</li> <li>• Delivered Edition3 spectral responses for June, July, and August 2011. (Walikainen)</li> <li>• Provided Science Team with Edition3 analysis of proposed June, July, and August 2011 FM3 spectral responses. (Walikainen)</li> <li>• Provided ES8s for 'First Light' movie. (Walikainen)</li> <li>• Examined five shortwave and total channels bands. This gives an idea of the level of Edition3 spectral tweaking needed to remove or at least reduce Land versus Ocean bias that was introduced when FM3 became the primary science instrument for Aqua. (Walikainen)</li> </ul>	

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<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
3.0	Walikainen (Lande)	<ul style="list-style-type: none"> <li>Combined with above.</li> </ul>	
4.1	Sun-Mack (Brown)	<ul style="list-style-type: none"> <li>Processed QC global images and statistics for Terra Edition2B-QC (201111) and Aqua Edition1C (201110 - 201111). Also processed 2011 Fall Edition2 Terra and Aqua results and posted them on the Web. (R. Brown)</li> <li>ClearSky results for Edition2 Terra and Aqua from 201107 through 201111 were processed and global images were posted on the Web. (R. Brown)</li> <li>SCCR 809 - Generated plots and stats with Ed4 MaskV2, MASKV3 and MASKV4 CERES cloud retrievals of selected MODIS data. Comparisons among MODIS-ST, CERES Del Ed2, and MaskV2 were done and all the results were posted on the Website. Images from pixel level on the fifteenth day of each month were on the Website too. (Chen)</li> <li>SCCR 809 - Wrote a C code to process two days of CloudVis data to calculate the difference between the new and old cloud retrievals before final Ed4 Delivery. (Chen)</li> <li>SCCR 809 - Wrote a perl script to list the MODIS files missing (MOD or MYD 02, 03, and 04) on DPO but on archive. File lists for 2000 to 2011 of Terra and 2002 to 2011 of Aqua were produced. (Chen)</li> <li>SCCR 809 - Wrote a code to find out mismatch MODIS aerosol data while MODIS GEO and RAD data matches. List of those aerosol data for 2000 - 2011 of Terra were produced. (Chen)</li> <li>Continue checking the daily ingest completion of VIMD and VAOT data on /ASDC_archive. (Chen)</li> <li>Completed code changes to Instrument Web tools (perl scripts) for security purposes; awaiting re-scan. (Heckert)</li> <li>Began work on developing the code for the new SCCR Dashboard application along with Nelson Hillyer and Tammy Ayers. (Heckert)</li> <li>SCCR 809 - Continued Clouds robust testing. (Smith)</li> </ul>	



**Table 6. February 22, 2012 - Subsystem Issues and Status**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
4.1 (Cont'd)	Sun-Mack (Brown)	<ul style="list-style-type: none"> <li>• SCCR 809 - Completed PR Tool testing for Clouds PGE 1P6. (Smith)</li> <li>• SCCR 809 - Testing Clouds PGE Ed4 scripts. (Smith)</li> <li>• Added the South Pole Orthographic projection to the CloudVis Daily product, and began work on the user interface to the package. (Gibson)</li> <li>• Communicated with Goddard MODIS group and received the MODIS-subsetter that LaRC had lost. (Sun-Mack)</li> <li>• SCCR 809 - Found one of the causes for mask cloud fraction lines over twilight. (Sun-Mack)</li> <li>• SCCR 809 - Made the MODIS-subsetter an independent code. Successfully worked to actually subsetted the full resolution MODIS granules. Further validations are needed. (Chen, Sun-Mack)</li> <li>• SCCR 809 - Worked on new parameterizations for 1.24 <math>\mu\text{m}</math> optical depth, and 1.24/2.1 <math>\mu\text{m}</math> particle sizes. (Sun-Mack)</li> <li>• SCCR 809 - Modified the cloud retrieval code to implement new particle sizes models, liquid water paths, and ice water path. (Sun-Mack)</li> <li>• SCCR 809 - Implemented snow/ice-free ocean reflectances for 0.6, 1.6, 1.24, 2.1, and 3.7 <math>\mu\text{m}</math>. Also implemented diffused albedos for 1.6, 2.1, and 1.24 <math>\mu\text{m}</math>. (Sun-Mack)</li> <li>• SCCR 809 - Implemented Fu-Lung's new CO2 and Multi algorithms. 20% of data were core-dumped. Worked and found the cause. Notified Fu-Lung. (Sun-Mack)</li> <li>• SCCR 809 - Worked on 1.24 cloud particle size retrieval. Discovered the spline fits sometimes pass asymptote, and return wacky sizes or many times core-dump. Added a fix. Significantly reduced core-dump hours. (Sun-Mack)</li> </ul>	

**Table 6. February 22, 2012 - Subsystem Issues and Status**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
4.1 (Cont'd)	Sun-Mack (Brown)	<ul style="list-style-type: none"> <li>• SCCR 809 - Worked with the ASDC archive personnel to copy missing MODIS aerosol files to DPO. Worked with Trisha to have her order aerosol samples to see if new orders are the matches. When that failed, worked with Trisha to have her order geolocation and radiances MODIS to see if we could subset them, and to see if newly subsetted MODIS are the matches with MODIS AOT. (Chen, Sun-Mack)</li> </ul>	
4.2	Sun-Mack	<ul style="list-style-type: none"> <li>• Combined with above.</li> </ul>	
4.3	Sun-Mack	<ul style="list-style-type: none"> <li>• Combined with above.</li> </ul>	
4.4	Miller (Antropov)	<ul style="list-style-type: none"> <li>• SCCR 809 - Updated exit codes in convolution. (Miller)</li> <li>• Supported CERES Processing Tool meetings. (Miller)</li> <li>• Started testing new GRing smoothing algorithm into GRing module. (Miller)</li> <li>• Created the program that reads NetCDF files and produces 3D Tecplot data files. Working on 3D animations in Tecplot. (Antropov)</li> <li>• Working on the program to read NetCDF files and to produce 2D Tecplot data files. Importing 2D data images created with Tecplot to Google Earth to produce 3D animations. (Antropov)</li> <li>• Working on the program to read binary SSFB and SSFA files and to write HDF5 SSF file. (Antropov)</li> </ul>	
4.5	Sothcott	<ul style="list-style-type: none"> <li>• SCCR 814 - Completed installation and testing of the new SW Model B algorithm using daily MATCH files. Awaiting final approval to deliver the CERESlib items. (Sothcott)</li> <li>• SCCR 814 - Working Test Plan and Operator's Manual for the delivery. (Sothcott)</li> <li>• Created code for generating and reading a binary version of the SSFS-DAY files for the ADM group. (Sothcott)</li> </ul>	
4.6	Sothcott	<ul style="list-style-type: none"> <li>• Combined with above.</li> </ul>	
5.0	Caldwell (Coleman)	<ul style="list-style-type: none"> <li>• No new updates. (Caldwell)</li> </ul>	

**Table 6. February 22, 2012 - Subsystem Issues and Status**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
7.2	Caldwell (Coleman)	<ul style="list-style-type: none"> <li>• SCCR 804 - Updated operator's manual with SGE run examples. (Caldwell)</li> <li>• Delivered latest script corrections to SSIT. (Caldwell)</li> <li>• Continued development of Edition4 surface albedo pre-processor code. (Caldwell)</li> </ul>	
12.0	Caldwell (Coleman)	<ul style="list-style-type: none"> <li>• No new updates. (Caldwell)</li> </ul>	
7.1	Nguyen (Lock)	<ul style="list-style-type: none"> <li>• Created a routine to perform a difference on 2 TSIB files. Performed a compare between TSIB currently being generated in development and the output from the DAAC production output. Sent results to Cathy for review. (Lock)</li> <li>• Updated code to add the GMT time for output for Michele to continue to compare CERES and GERB TOA fluxes. (Nguyen)</li> </ul>	
8.0	Nguyen (Lock)	<ul style="list-style-type: none"> <li>• Reran SYN1deg data with the updated SYNI data. Prepared routines for validating the ValRX when requested. (Lock)</li> </ul>	
10.0	Nguyen (Lock)	<ul style="list-style-type: none"> <li>• Tar code and EBAF data for Norman Loeb for archive. (Nguyen)</li> <li>• Preparing 1986 nonGEO averages data from using Raja's data for Seiji. (Nguyen)</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>• SCCR 883 - Delta delivery. Created 2011, 2012 X-track files. Sent them to CERES CM. (Raju)</li> <li>• Temporary updates were made to Edition3 code to process and create SFC in GMT time as requested by Dave Doelling. Processed 07/2004 Terra/Aqua data and provided SFC inputs to Averaging. (Raju)</li> <li>• Made few changes to PCF scripts and the code to process NOAA-AVHRR data. Processed 1986 April, July, October, and December data to create SFCB as requested by Dave Doelling and provided inputs to averaging process. (Raju)</li> <li>• Work continued on Edition4 code. (Raju)</li> <li>• Added the monthly averages of fluxes and clouds data file for plotting purpose. (Nguyen)</li> </ul>	

**Table 6. February 22, 2012 - Subsystem Issues and Status**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
9.0 (Cont'd)	Raju (Nguyen)	<ul style="list-style-type: none"><li>• Updated Moguo's IDL programs to produce the scatter plots of fluxes and cloud properties. (Nguyen)</li><li>• Flux-by-Cloud (9.5) updated the netCDF file to include the parameter good Flux footprints which will now be used to determine which cloud properties have better validity. The validation portion of the code is now being revised for this parameter and to only perform validation where the new good Flux footprints match the used footprints. The scientist are still considering a change to the netCDF file format and how the read program will best assist our customers. (Lock)</li></ul>	
11.0	Raju (Nguyen)	<ul style="list-style-type: none"><li>• No new updates. (Raju)</li></ul>	

**Table 7. February 22, 2012 – DM Tasks**

Activity	Status
Production Processing Database/Automation (Coleman)	<ul style="list-style-type: none"> <li>Continuing work on the CERES PR Tool. Fixing some bugs and making some small changes to features now that some preliminary testing has begun. (Heckert, Grune)</li> <li>Performed some of the requested tisa PR testing. Found some problems and relayed them to the PR team. More testing is required for subsystems 8, 9, and 10. (Lock)</li> <li>Testing PR Generation application. (Smith)</li> </ul>
CERES Websites (Kizer)	<ul style="list-style-type: none"> <li>In another scan of Earth-www.larc.nasa.gov/ceresweb site, a few issues were found in the perl scripts. They were addressed and a new scan was requested. The site was again scanned on February 20th with clean results. The page is now able to go public. (Hess, Kizer, Heckert)</li> <li>The CERES CM site was identified as the next site to be addressed. The site files on <i>lposun</i> were copied and put on the Web cluster. (Kizer)</li> </ul>
Churngwei Chu & Cristian Mitrescu (CERES Ordering Tool)	<ul style="list-style-type: none"> <li>Assisted the ASDC to restore the Ordering Tool sites caused by the ASDC shutdown. (C. Chu &amp; C. Mitrescu)</li> <li>The request of moving CERES Web servers in DMZ behind the firewall was approved. (C. Chu &amp; C. Mitrescu)</li> <li>Assisted the ASDC to correct a configuration issue on sciflo which caused failures of subsetting Level2 data orders. (C. Chu &amp; C. Mitrescu)</li> <li>Developing and prototyping the functions of browsing Level2 scan data. (C. Chu &amp; C. Mitrescu)</li> <li>Implemented an interface in JAVA to retrieve HDF files efficiently; this module is used to generate images for level2 data in scan mode. (C. Chu &amp; C. Mitrescu)</li> <li>Generated daily AVG data and made them available on the (internal) Ordering Tool. (C. Chu &amp; C. Mitrescu)</li> <li>Investigated a netCDF file from an external source for Norman. (C. Chu &amp; C. Mitrescu)</li> <li>Developing browsing capability of level 2 data in scan mode. (C. Chu &amp; C. Mitrescu)</li> <li>Migrating CERES Web servers in DMZ behind the firewall is scheduled to take place on March 6. (C. Chu &amp; C. Mitrescu)</li> </ul>

**Table 8. February 22, 2012 – NPP Issues**

Activity	Status
FM5	<ul style="list-style-type: none"><li>• NPP Pitch Back maneuver was performed over the past weekend to gather the data needed to determine the in-flight scan dependent offsets for CERES FM5. When the data was analyzed, a possible issue with the count conversion algorithm was discovered and is now being investigated. (Instrument Team)</li><li>• Continuing to monitor the receipt of CERES RDRs and tracking any related issues. An anomaly was discovered in the expected time differences between eph/att records. When it was investigated by VIIRS and OMPS, their data showed that the eph/att values were correct for the time on the data record, which means that CERES will not have any geolocation issues related to this timing discrepancy. CER1.0P2 has been updated to accept the variance in the expected time interval between eph/att data records. (Spivak)</li><li>• Provided Data Accountability Engineer spreadsheet with all CERES missing data and status. (Miller)</li><li>• Monitored Discrepancy Report Action Team (DRAT) teleconferences. (Miller)</li><li>• Reviewed inputs for the NPP FM5 commissioning report. (Miller)</li></ul>

Table 1: PGE Current Events Status Table

		Status of PGEs on Each Platform and TK Version used for Compilation <sup>1,2</sup>							Status of Misc. Item(s)	
Subsystem ID	PGE ID	SGI	P4	P4 TK Ver	P6	P6 TK Ver	X86	X86 TK Ver	"New" Wrapper Scripts for AMI Status (Y / N / Devel / SSI&T / n/a) <sup>7</sup>	Comments
Instrument - 1	CER1.0P1	N	N	N/A	N	N/A	N	N/A	n/a	Will comply with all the latest whenever delivered
	CER1.0P2	N	N	N/A	Y	16	Y	16	Y	C++ RDR Pre-Processor
	CER1.1P8	N	N	N/A	Y	16	Devel	16	Y	C++ NPP, Terra, Aqua
	CER1.2P1	N	N	N/A	Y	16	Y	16	Y	C code, NPP capable.
	CER1.3P3	N	N	N/A	N	N/A	Y	16	Y	Replace with CER1.4P3 on P6
	CER1.4P1	N	N	N/A	Y	16	Y	16	Y	
	CER1.4P2	N	N	N/A	Y	16	Devel	16	Y	
	CER1.4P3	N	N	N/A	Devel	16	Devel	16	Devel	
ERBE-like - 2	CER2.1P1	N	Y	16	Y	16	Devel	16	Y	
	CER2.2P1	N	Y	15	Y	16	Devel	16	Y	Compile HDF with TK 15, run with TK 16
	CER2.3P1	N	Y	16	Y	16	Devel	16	Y	
	CER2.3P2	N	Y	16	Y	16	Devel	16	Y	
	CER2.4P1	N	Y	16	Y	16	Devel	16	Y	
ERBE-like - 3	CER3.1P1	N	Y	16	Y	16	Devel	16	Y	
	CER3.2P1	N	Y	16	Y	16	Devel	16	Y	
Clouds 4.1-4	CER4.1-4.0P2	N	Y	15	N	N/A	N	N/A	n/a	Migration to AMI not in near future
	CER4.1-4.1P4	N	Y	16	N	N/A	N	N/A	n/a	warlock version recompiled for 2008 Edition2, Possibly use P4 for 3/10 forward
	CER4.1-4.1P5	N	Y	16	N	N/A	N	N/A	n/a	warlock version recompiled for 2008 Edition2, Use P4 for 3/10 forward
	CER4.1-4.1P6	N	N	N/A	Devel	16	N	N/A	Devel	Beta2-Ed3 (P4), Ed4 (P6), Migration to X86 not in near future
	CER4.1-4.2P2	N	Y	15	N	N/A	N	N/A	n/a	Ed2
	CER4.1-4.2P3	N	Y	15	N	N/A	N	N/A	n/a	Ed2
	CER4.1-4.2P4	N	N	N/A	Devel	16	N	N/A	Devel	Beta2-Ed3 on P4, Ed4 to be on P6, Migration to X86 not in near future
	CER4.1-4.2P5	N	N	N/A	Devel	16	N	N/A	Devel	Beta2-Ed3 on P4, Ed4 to be on P6, Migration to X86 not in near future
	CER4.1-4.3P2	N	Y	15	N	N/A	N	N/A	n/a	Ed2
	CER4.1-4.3P3	N	N	N/A	Devel	16	N	N/A	Devel	Beta2-Ed3 on P4, Ed4 to be on P6, Migration to X86 not in near future

Table 1: PGE Current Events Status Table

		Status of PGEs on Each Platform and TK Version used for Compilation <sup>1,2</sup>							Status of Misc. Item(s)	
Subsystem ID	PGE ID	SGI	P4	P4 TK Ver	P6	P6 TK Ver	X86	X86 TK Ver	"New" Wrapper Scripts for AMI Status (Y / N / Devel / SSI&T / n/a) <sup>7</sup>	Comments
Inversion/SOFA 4.5-6	CER4.5-6.1P2	N	Y	16	N	N/A	N	N/A	n/a	Ed2 Terra Main
	CER4.5-6.1P3	N	Y	15	N	N/A	N	N/A	n/a	Ed2 Aqua Main
	CER4.5-6.1P4	N	N	N/A	Devel	16	N	N/A	Devel	Terra Main Ed4 version of 1P2
	CER4.5-6.1P5	N	N	N/A	Devel	16	N	N/A	Devel	Aqua Main Ed4 version of 1P3
	CER4.5-6.2P2	N	Y	15	N	N/A	N	N/A	n/a	Ed2/Ed3 subsetter
	CER4.5-6.2P3	N	N	N/A	Devel	16	N	N/A	Devel	Subset postproc for Terra and Aqua (Ed4 version of 2P2)
	CER4.5-6.2P4	N	Y	16	N	N/A	N	N/A	n/a	Ed3 daily post-processor
	CER4.5-6.4P1	N	Y	15	N	N/A	N	N/A	n/a	Edition2 to <i>magneto</i>
	CER4.5-6.4P2	N	N	N/A	Devel	16	N	N/A	Devel	Monthly validation site (Ed4 for 4P1)
	CER4.5-6.5P2	N	N	N/A	N	N/A	N	N/A	n/a	IES-SSF Terra New PGE, Ed4 format
	CER4.5-6.5P3	N	N	N/A	N	N/A	N	N/A	n/a	IES-SSF Aqua New PGE, Ed4 format
	CER4.5-6.5P4	N	Y	16	N	N/A	N	N/A	n/a	IES-SSF Terra New PGE, Ed2 format
	CER4.5-6.5P5	N	Y	16	N	N/A	N	N/A	n/a	IES-SSF Aqua New PGE, Ed2 format
SARB - 5	CER5.0P1	N	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER5.0P2	N	Y	15	N	N/A	N	N/A	n/a	Ed2/Ed3
	CER5.1P1	N	Y	16	N	N/A	N	N/A	n/a	Ed2 only
	CER5.1P2	N	ValRx	16	N	N/A	N	N/A	n/a	Ed2 only
	CER5.1P3	N	N	N/A	Devel	16	Devel	16	<b>N</b>	New PGE - Edition4 Main for Terra and Aqua
	CER5.4P1	N	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER5.4P2	N	Y	16	N	N/A	N	N/A	n/a	Ed2 only
	CER6.1P1	N	Y	15	N	N/A	Devel	16	n/a	Ed2 only
TISA Grid - 6	CER6.2P1	N	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER6.3P1	N	Y	15	N	N/A	N	N	n/a	Ed2 only
	CER7.1.1P1	N	Y	15	N	N/A	N	N/A	n/a	
TISA Avg - 7.1	CER7.3.1P1	N	Y	16	SSI&T	16	N	N/A	SSI&T	New PGE for Edition3
SARB - 7.2	CER7.2.1P1	N	Y	16	N	N/A	SSI&T	16	SSI&T	P4 only Ed2 for now, X86 for Ed2 and Ed3
TISA Avg - 8	CER8.1P1	N	Y	15	Y	16	N	N/A	Y	Migrate to AMI for Ed3



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TISA Grid - 9	CER9.0P1	N	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER9.0P2	N	N	N/A	SSI&T	16	N	N/A	SSI&T	ISCCP-D2like-MRG Pre-processor
	CER9.0P3	N	N	N/A	SSI&T	16	N	N/A	SSI&T	ISCCP-D2like-MRG Main-processor
	CER9.1P1	N	Y	15	Devel	16	Devel	16	<b>N</b>	
	CER9.2P1	N	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER9.2P2	N	Y	16	N	N/A	N	N/A	n/a	New PGE for Edition3
	CER9.3P1	N	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER9.3P2	N	Y	16	N	N/A	N	N/A	n/a	New PGE for Edition3
	CER9.4P1	N	Y	15	N	N/A	N	N/A	n/a	Ed2 only
	CER9.4P2	N	Y	16	N	N/A	N	N/A	n/a	New PGE for Edition3
TISA Avg - 10	CER10.0P3	N	Y	16	SSI&T	16	N	N/A	Devel	New PGE for Edition3
GGEO - 11	CER11.1P10	N	Y	16	Devel	16	Devel	16	<b>N</b>	
	CER11.2P2	N	Y	16	Devel	16	Devel	16	<b>N</b>	
	CER11.4P1	N	Y	16	Devel	16	Devel	16	<b>N</b>	
	CER11.6P1	N	Y	16	Devel	16	Devel	16	<b>N</b>	
	CER11.7P1	N	Y	16	Devel	16	Devel	16	<b>N</b>	
Regrid MOA - 12	CER12.1P1	N	Y	16	Y	16	Y	16	Y	Edition 2/3
	CER12.1P2	N	N	N/A	Y	16	Y	16	Y	Edition 4

Table 1 Key:		
<sup>1</sup> Status	Y	Currently able to run in production
	Devel	PGE in development, still to be delivered for the first time to the platform.
	SSI&T	PGE delivered and in SSI&T (CM or SIT) testing prior to operational processing
	ValRx	PGE promoted to production on platform, but still undergoing ValRx testing and approving phase
<sup>2</sup> Prod. Platform	SGI	warlock
	P4	Magneto - IBM P4
	P6	AMI - IBM P6
	X86	AMI - IBM X86
<sup>7</sup> "New" Wrapper Scripts for AMI Status	Y	Scripts in production
	n/a	Not needed for this PGE
	N	Development not yet begun
	SSI&T	Delivered and in SSI&T (CM or SIT) testing prior to operational processing
	Devel	Development in progress for inclusion in next delivery

Revisions:		
Date	Affected Section or PGE/Product ID	Revision Made
1/3/2012	None	
1/23/2012	CER1.1P1,3,5,7, CER4.1-4.0P1	Moved to Table 3
	CER1.2P1, CER1.3P3	Changed SGI status from "Y" to "N"
	CER6.1P2, 2P2, 3P2	Removed from list
	CER10.0P3	Changed P6 status from "Devel" to "SSI&T"
	CER4.1-4.1P6, 2P4, 2P5, 3P3	Changed New Wrapper Script status from "SSI&T" to "Devel"
2/6/2012	CER10.0P1,2	Moved to disabled/deleted list (Table 3)
2/22/2012	No Updates	