

August 19, 2009 - System Issues and Status

Table 1: Process Strategy/Coleman as of 8/14/09

Active Requests in order of priority

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	
M-PR 3-09	CERES	DAO-G5-CERES	MOA	12.1P1	Standing request	
M-PR 2-09	CERES	DAO-G5-CERES	PMOA	9.1P1	Standing request	
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 72-09	FM1, FM2	ValR13	BDS, IES	1.3P3	April, October 2000 – 2004 April 2005	Terra Ed3 Gains delivered
PR 71-09	FM1, FM2	ValR13	BDS, IES	1.2P1	April, October 2000 – 2004 April 2005	Terra Ed3 Gains delivered

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PR 70-09	FM1, FM2	ValR13	ES8	2.4P1	April, October 2000 – 2004 April 2005	Terra Ed3 Gains delivered
PR 69-09	FM1, FM2	ValR13	ES8	2.2P1	April, October 2000 – 2004 April 2005	Terra Ed3 Gains delivered
PR 68-09	FM1, FM2	ValR13	ES8	2.3P1	April, October 2000 – 2004 April 2005	Terra Ed3 Gains delivered
PR 67-09	FM1, FM2	ValR13	ES8	2.3P2	April, October 2000 – 2004 April 2005	Terra Ed3 Gains delivered
PR 66-09	FM1, FM2	ValR13	ES4, ES9	3.1P1	April, October 2000 – 2004 April 2005	Terra Ed3 Gains delivered
PR 63-09		Beta10	GGEO	11.10P1	1/1/06 7/1/06 1/1/07 7/07 10/07 12/08	Pending Promotion
PR 62-09		Beta10	GGEO	11.2P2	1/1/06 7/1/06 1/1/07 7/07 10/07 12/08	Pending Promotion
PR 61-09		Beta10	GGEO	11.4P1	1/1/06 7/1/06 1/1/07 7/07 10/07 12/08	Pending Promotion
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 – 9/1/07 1/01/08	In Progress
PR 56-08	FM1, FM2	Edition2F	SSF Inversion	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	1/1/07 – 9/1/07 1/01/08	In Progress

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PR 55-08	FM1, FM2	Edition2F	SFC TISA-Grid	9.2P1 9.3P1 9.4P1	12/31/06 hr 12 – 9/1/07 hr 11 1/1/08 hr 11	In Progress
PR 54-08	FM1 V005 MOD08	Edition2F	CRS Inst SARB	5.0P1 5.1P1 5.4P1	1/1/07 – 8/31/07 12/31/07	In Progress
PR 53-08	FM1	Edition2F	FSW TISA-Grid	6.1P1 6.2P1 6.3P1	1/1/07 – 8/31/07 12/31/07	Ready
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	Ready
PR 32-09	FM3, FM4	Edition2C/ NoSW	SSF	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	9/1/07 – 1/01/08	Ready
PR 31-09	FM3, FM4	Edition2C/ NoSW	SFC	9.2P1 9.3P1 9.4P1	12/31/06 hr 12 – 9/1/07 hr 11 1/1/08 hr 11	Ready
PR 30-09	FM3	Edition2C	CRS	5.0P1 5.1P2 5.4P2	9/1/07 – 12/31/07	Ready
PR 29-09	FM3	Edition2C	FSW	6.1P1 6.2P1 6.3P1	9/1/07 – 12/31/07	Ready
PR 65-09	FM1, FM2	Edition3	BDS, IES	1.3P3	2/28/00 – 5/1/05	Pending ValRx processing and approval
PR 64-09	FM1, FM2	Edition3	BDS, IES	1.2P1	2/28/00 – 5/1/05	Pending ValRx processing and approval
PR 60-09		Edition2A	GGEO	11.1P10	11/05 – 6/09	Pending ValRx processing and approval
PR 59-09		Edition2A	GGEO	11.2P2	11/05 – 6/09	Pending ValRx processing and approval
PR 58-09		Edition2A	GGEO	11.6P1	11/05 – 6/09	Pending ValRx processing and approval

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PR 57-09	FM5	PreLaunch-Beta1	Instrument	1.0P2	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion
PR 56-09	FM5	PreLaunch-Beta1	Instrument	1.1P7	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion
PR 55-09	FM5	PreLaunch-Beta1	Instrument	1.2P1	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion
PR 54-09	FM1, FM2	PreLaunch-Beta1	Instrument	1.1P8	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion
PR 53-09	FM1, FM2	PreLaunch-Beta1	Instrument	1.2P1	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion
PR 52-09	FM3, FM4	PreLaunch-Beta1	Instrument	1.1P8	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion
PR 51-09	FM3, FM4	PreLaunch_Beta1	Instrument	1.2P1	2/28/03 3/1/03 3/2/03 3/19/03	Pending Promotion
PR 50-09	FM5	PreLaunch-Beta1	Instrument	1.1P8	3/1/03	Pending Promotion
PRs 40-09 thru 49-09	FM1, FM2, FM3, FM4	Edition2G (Terra) Edition2D/Ed 2D-NoSW (Aqua)	SSF, SFC, CRS, FSW		1/1/08 – 12/31/08	Pending input, code promotions, ValRx approvals, etc

Table 2. August 19, 2009 - System Issues and Status

Activity	Lead	Status
CM/Documentation	Ayers (Saunders)	<ul style="list-style-type: none"> • See Table 3 for the current CERES Subsystem Delivery Schedule, Table 4 for the current CERES Coefficients Delivery Schedule, and Table 5 for the current DPC Update Schedule. (Ayers) • See Table 6 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 6. (Ayers) • Installed, compiled, and tested the Instantaneous SARB (SCCR 718) delivery and released it to the ASDC on August 6. The associated Test Plan and Operator’s Manual were also updated, posted on the Web, and provided to the ASDC. (Ayers, Saunders) • Provided the updated Promoted Directories document to the ASDC. The information for Instantaneous SARB PGE 5.0P2 and GGEO PGEs 11.1P10, 11.2P2, and 11.4P1 was added to the document. Also, the Inversion information was updated to include additional directories that need to exist but not be promoted. (Ayers) • Established and populated the CERES Document Repository on <i>xsan</i>. (Ayers, Saunders) • The CERES Subsystem and Coefficients Delivery Schedules were updated and posted on the Web. (Ayers, Saunders)

Table 3. CERES Subsystem Delivery Schedule – August 2009
(Next Science Team Meeting – November 3 – 5, 2009 in Ft. Collins, CO)

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	August 7	August 21	August 28	Clouds and ceres-env modifications. (Maybe TK5.2.16 version, also.)			<i>magneto-P4</i>
Clouds (SCCR 719)	August 7	August 21	August 28	Terra and Aqua Beta2-Edition3.	X		<i>magneto-P4</i>
TISA Averaging (SCCR 650)	August 7	August 21	August 28	Support Terra Edition2E and Aqua Edition2B SRBAVG1-3 and Daily processing. New PGEs: CER10.0P1, CER10.0P2, & CER10.0P3.		X	<i>magneto-P4</i>
ERBE-like (SCCR 696)	August 14	August 28	September 4	To process everything including all of Edition3 on <i>magneto</i> .			<i>magneto-P4</i>
Synoptic SARB	September 11	September 25	October 2	Update PGE 7.2.1P1 to use new names of surface albedo history files produced by PGE 5.0P2. Port Synoptic SARB to new directory structure.			<i>magneto-P4</i>
Inversion	September 11	September 25	October 2	In case Clouds doesn't make the Edition3 schedule.		X	<i>magneto-P4</i>
Inversion (SCCR 704)	September 11	September 25	October 2	Terra and Aqua Beta2-Edition3.		X	<i>magneto-P4</i>
CERESlib	September 18	October 2	October 9	Instrument updates – C version of metadata.			<i>magneto-P4 & ami-P6</i>

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Instrument	September 18	October 2	October 9	Build that runs full Terra/Aqua Baseline1-QC and Edition1-CV as well as NPP.	X		<i>magneto-P4 & ami-P6</i>
TISA Gridding	October 2	October 16	October 23	Edition2 & Beta2-Edition3 ISCCP-D2like-Day/Nit.			<i>magneto-P4</i>
TISA Gridding	October 16	October 30	November 6	SFC Terra and Aqua Beta2-Edition3.			<i>magneto-P4</i>
Regrid MOA		November		Edition3 delivery.			<i>magneto-P4 & ami-P6</i>
TISA Averaging	November 6	November 20	November 27	SRBAVG-nonGEO Beta2-Edition3.			<i>magneto-P4</i>
Instrument (SCCR 715)		Fall		Updates to PGE CER1.1P7.			<i>warlock</i>
Instrument (SCCR 716)		Fall		Delivery of all Ada PGEs except CER1.1P7 to X86 platform.			<i>ami-X86</i>
GCEO		Fall		Edition2 & maybe Beta2-Edition3 ISCCP-D2like-GEO. [All ISCCP-D2like HDF products will have the same format.]			<i>magneto-P4</i>
GCEO		Fall		Beta1–Edition2 delivery of new PGE CER11.7P2 (?) for new ISCCP-D2like-Merge (?) product. [All ISCCP-D2like HDF products will have the same format.]		X	<i>magneto-P4</i>

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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)
Instantaneous SARB		Fall		New PGE to produce MATCH input files.		X	<i>magneto-P4</i>
TISA Averaging		Late Fall		SRBAVG-GEO Beta2-Edition3. Adding Model C surface fluxes and solar insulation.			<i>magneto-P4</i>
Instrument (SCCR 717)		Late Fall		Delivery of PGE CER1.1P7 to X86 platform.			<i>ami-X86</i>
GGEO	November 20	December 4	December 11	Beta1-Edition3 delivery.			<i>magneto-P4</i>
Instrument		Winter		Pre-processor updates.			
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		Beta1-Edition2 delivery of new PGE CER9.0P2 (?) for new ISCCP-D2like-Flux (?) product. [All ISCCP-D2like HDF products will have the same format.]		X	<i>magneto-P4</i>
TISA Gridding		February 2010		Edition2 ISCCP-D2like-Flux.			<i>magneto-P4</i>
Instrument		February 2010		Build corrects NPP-related errors discovered in NCT3 testing.			<i>ami-P6</i>

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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		May 2010		Build corrects all NPP errors found so far. Last Build before launch freeze date.			<i>ami-P6</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		???		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 – August 2009

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Release to Langley DAAC	Reason for Delivery	Certified Platform(s)
ERBE-like	N/A	Fall		Terra Edition3 spectral response function files for Launch – April 2005.	<i>warlock/ magneto</i>
Instrument	N/A	Early Winter		Aqua Edition3 gain files for Launch – December 2006.	<i>warlock/ magneto/ ami</i>
ERBE-like	N/A	Winter		Aqua Edition3 spectral response function files for Launch – December 2006.	<i>warlock/ magneto/ ami</i>
Instrument/ ERBE-like	N/A	???		TRMM Edition3 gains and spectral response function files.	<i>warlock/ magneto/ ami</i>

Table 5. Data Products Catalog Update Schedule – August 2009

DPC Section	Due Date	Comments
SFC	May	Adding a few new parameters for Edition3
SRBAVG-nonGEO	Draft by July	Complete rework of DPC pages
SRBAVG-GEO	Draft by July	Complete rework of DPC pages
TSIB-SSF	September 15	New intermediate product
TSIB-GEO	September 15	New intermediate product
SYNI	September 15	Unknown severity of Edition3 DPC changes
SYN/AVG/ZAVG	September 15	Unknown severity of Edition3 DPC changes
FSW	September 15	Given CRS won't even be in draft mode yet, this date is probably incorrect. Given that CRS and FSW are decoupled from rest of processing, pressure to document & produce these products will not be as great as pressure on the other products.
CRS	December	Draft for science review
ISCCP-D2like products	???	There will be no differences between Edition2 & Edition3 DPC. Don't know the Edition2 DPC schedule.
MOA	???	Unknown if there are Edition3 changes.
GGEO	???	Unknown if there are Edition3 changes.

Table 6. SCCR Activity August 3 at 4:00 p.m. – August 17 at 2:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
721	S					7.1	12	

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

CERES Software Configuration Change Request Submittal

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Subsystem: SynSARB SCCR Date & TIME: 2009-08-18 12:06:19 SCCR No.: 721

Parameter Change: () YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
(Req# 7.2-1.25)
Modify scripts to use new names of surface albedo history files produced by PGE 5.0P2

(Req# 7.2-1.26)
Port Synoptic SARB to new directory structure

Reason for Change (non-Science):
(Req# 7.2-1.25)
The new names must be used for Synoptic processing for dates after Dec 2005

(Req# 7.2-1.26)
Delivering the software in the old directory structure could cause confusion

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:
7.2.1P1

Estimated Time to Complete Change: 5 weeks
Planned Delivery Date: September 25, 2009
List Affected Subsystems and PGE Names: None

Originator: CALDWELL, THOMAS E. (SSAI)

Table 7. August 19, 2009 - Subsystem Issues and Status

SS No.	SS Lead	Status	Problems
Toolkit Issues	Zentz	<ul style="list-style-type: none"> No report received. 	
1.0	Cooper (Walikainen)	<ul style="list-style-type: none"> Continue to monitor incoming Terra and Aqua Level-0, ephemeris and attitude data. (Snyder) Ada compiler is now available on <i>asdcsm1</i>. Test of CER1.1P3 for FM1 was successful and the BDS compared exactly to one created on <i>warlock</i> for the same data date. Many thanks to Scott Zentz for working with the subsystem to get all the CERESlib environment variables set correctly and for helping get the Ada compiler figured out. (Cooper, Zentz) Waiting for ValR14 to complete to be able to analyze the data and approve Edition3. (Cooper) Updates for CER1.1P7 have been received from Phil. Work to integrate these changes into the existing PGE will be worked on both the SGI and AMI systems. (Cooper) 	
2.0	Walikainen (Cooper)	<ul style="list-style-type: none"> Continuing to examine QC checker email generated during production. (Walikainen) Continuing to inspect ERBE-like Aqua and Terra output plots. (Walikainen) CER2.4P1 "Spectral PGE" update: Updating Test Plan. (Lande) Updating Test Plan. (Walikainen) Edition3 meeting with Norm @10am 8/19/09. Producing and evaluating numerous affects from proposed gains, sw thermal corrections and spectral responses. (Walikainen) 	
3.0	Walikainen (Cooper)	Combined with above.	
4.1	Sun-Mack (Brown)	<ul style="list-style-type: none"> No report received. 	
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"> Started updating documentation on Edition3 Beta2 convolution. (Miller) Reviewed changes to Operator's Manual. (Miller) 	

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SS No.	SS Lead	Status	Problems
4.5	Sothcott	<ul style="list-style-type: none"> • Attended weekly SOFA working group meetings. (Sothcott) • Tested TK 5.2.16 on <i>magneto</i> with confusing results. The results between TK 5.2.15 and 5.2.16 are the same; however, the results between TK 5.2.15 and the just delivered tests showed differences in LW and WN TOA fluxes with many more fill values in the latest testing. Currently working with Tammy to evaluate what has happened. (Sothcott) • Evaluated the ValR14 results. There are major differences in the SOFA results that all coincide with the differences in cloud properties. The SOFA group will not approve this ValR until they have a better understanding of the cloud property differences. (Sothcott) • Ran two months of Terra and Aqua data to validate updates to Edition3 Beta2 algorithms. (Sothcott) • Updated the Inversion Operator's Manual to include the new PGEs CER4.5-6.5P2 and CER4.5-6.5P3 for the IES-SSF software. These updates were lost when my account on my local system was deleted and the backups were several days old. (Sothcott) 	
4.6	Sothcott	Combined with above.	
5.0	Caldwell (Coleman)	<ul style="list-style-type: none"> • Testing Toolkit 16 with SARB and Synoptic PGEs. (Caldwell) 	
7.2	Caldwell (Coleman)	<ul style="list-style-type: none"> • No new updates. 	
12.0	Caldwell (Coleman)	<ul style="list-style-type: none"> • Working on reading HDF5 data. (Caldwell) 	
7.1	Nguyen (Raju, Filer)	<ul style="list-style-type: none"> • Completed testing of new toolkit. Looks good. (Filer) 	
8.0	Nguyen (Raju, Filer)	<ul style="list-style-type: none"> • Testing new toolkit. (Filer) 	

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SS No.	SS Lead	Status	Problems
10.0	Nguyen (Raju, Filer)	<ul style="list-style-type: none"> • Working on SRBAVG-like at Norman Loeb's request. (Nguyen) • Preparing for the upcoming delivery. (Nguyen) • Provided Dave Doelling a list of inputs for the surface flux programs. (Nguyen) • Ran SRBAVG Edition2D code for Nov. and Dec. 2005 and March to December 2006 for GGEO Validation. (Filer) • Meeting with Data Center to demonstrate SRBAVG subsetter prototype and discuss Web interaction and handing over code to Data Center per Dave Doelling's request. (Chu) 	
6.0	Raju (Nguyen)	<ul style="list-style-type: none"> • No new updates. 	
9.0	Raju (Nguyen)	<ul style="list-style-type: none"> • As per Moguo Sun's request, worked on the ISSCP merge software to create intermediate zonal files. Sent him the test data and the read software. Preparing to run 4 seasonal months of FM1 & FM3 data through the software for him. (Raju) • Received Edition 3 SFC parameter list from Dave Doelling. Worked on the DPC document and sent the document to him for review. (Raju, Ron Parrish) • New PGEs CER9.2P2, CER9.3P2, CER9.4P2 are created to process Edition3 version of SFC. Started updating cereslib versions of SFC IO modules to handle both Edition2 and Edition3 SFC process. (Raju) • Started checking HDF routines to include new parameter list. (Ron Parrish) 	
11.0	Raju (Nguyen)	<ul style="list-style-type: none"> • Started converting main processor PCF shell scripts to perl. (Ron Parrish) 	
CERES -lib	Zentz	<ul style="list-style-type: none"> • No new updates. 	
Special Development Corner		<ul style="list-style-type: none"> • Resuming development after system maintenance of scripts to automate retrieval of pertinent data from daily ANGE archival report for Production Processing Data Base. (Coleman) 	