

October 3, 2007 - System Issues and Status

Table 1: Process Strategy/Geier as of 10/03/07
Active Requests in order of priority (1 of 5)

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 118-07	FM3, V005	Test-MERRA2	Clouds (SS4.1-4)	4.1-4.1P5 4.1-4.2P3 4.1-4.2P2 4.2-4.3P2	1/06	Done 9/20/07.
PR 117-07	FM3	Test-MERRA2	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	1/06	Done 9/20/07.
PR 116-07	FM2, V005	Test-MERRA2	Clouds (SS4.1-4)	4.1-4.1P4 4.1-4.2P3 4.1-4.2P2 4.2-4.3P2	1/06	Done 9/19/07.
PR 115-07	FM2	Test-MERRA2	Inversion (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	1/06	Done 9/19/07.
PR 119-07	FM2	Test_MERRA2	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	1/06	Done 9/20/07.
PR 120-07	FM3	Test_MERRA2	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	1/06	Done 9/21/07.
PR 123-07	FM1, V005	Test-MERRA2	Clouds (SS4.1-4)	4.1-4.1P4 4.1-4.2P3 4.1-4.2P2 4.2-4.3P2	7/04	Done 9/28/07.
PR 122-07	FM1	Test-MERRA2	Inversion (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	7/04	Done 9/28/07.
PR 121-07	FM1	Test_MERRA2	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	7/04	Done 9/28/07.
PR 111-07	FM1, FM2	ValR9	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	7/02, 1/03	Waiting on delivery.

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PR 113-07	FM3, FM4	ValR9	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	7/02, 1/03, 10/04	Waiting on delivery.
PR 112-07	FM3, FM4	ValR10	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	7/02, 1/03	Waiting on delivery.
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 92-07	FM1, FM2, V005	Edition2A- QC	Clouds (SS4.1-4)	4.1-4.1P4 4.1-4.2P3 4.1-4.2P2 4.2-4.3P2	1/06	ValR13B approved 9/7/07.
PR 91A-07	FM2	Edition2F	Inversion (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	1/06	
PR 90A-07	FM2	Edition2F	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	1/06	

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 101-07	FM3, FM4, V005	Edition1B	Clouds (SS4.1-4)	4.1-4.1P5 4.1-4.2P3 4.1-4.2P2 4.2-4.3P2	1/06	ValR13B approved 9/7/07.
PR 100-07	FM3, V005	Edition2C	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	1/06	
PR 99-07	FM4, V005	Ed2C-NoSW	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	1/06	
PR 98-07	FM3	Edition2C	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	1/06	
PR 97-07	FM4	Ed2C-NoSW	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	1/06	
PR 74-07 to 76-07	FM2	Edition2B	SARB (SS5)	5.0P1 5.1P1 5.4P1	12/31/05 - 3/1/06	Terra CRS approved 8/2/07.
PR 72-07	FM2	Edition2C	TISAgid (SS6)	6.1P1 6.2P1 6.3P1	12/31/05 - 3/1/06	
PR 77-07 to 79-07	FM1	Edition2B	SARB (SS5)	5.0P1 5.1P1 5.4P1	3/06 - 6/06	Terra CRS approved 8/2/07.
PR 73-07	FM1	Edition2C	TISAgid (SS6)	6.1P1 6.2P1 6.3P1	3/06 - 6/06	
PR 81-07 to 83-07	FM3	Edition2B	SARB (SS5)	5.0P1 5.1P2 5.4P2	12/31/05 - 5/1/06	Aqua CRS approved 7/13/07.
PR 80-07	FM3	Edition2B	TISAgid (SS6)	6.1P1 6.2P1 6.3P1	12/31/05 - 4/06	
PR 92-07	FM1, FM2, V005	Edition2A- QC	Clouds (SS4.1-4)	4.1-4.1P4 4.1-4.2P3 4.1-4.2P2 4.2-4.3P2	4/30/06 - 1/1/07	

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Active Requests in order of priority (4 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 91-07	FM1, FM2	Edition2F	Inversion (SS4.5-6)	4.5-6.1P2 4.5-6.2P2 4.5-6.4P1	4/30/06 - 1/1/07	
PR 90-07	FM1, FM2	Edition2F	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	5/06 - 12/06	
PR 101-07	FM3, FM4, V005	Edition1B	Clouds (SS4.1-4)	4.1-4.1P5 4.1-4.2P3 4.1-4.2P2 4.2-4.3P2	4/30/06 - 1/1/07	
PR 100-07	FM3, V005	Edition2C	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	4/30/06 - 1/1/07	
PR 99-07	FM4, V005	Ed2C-NoSW	Inversion (SS4.5-6)	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	4/30/06 - 1/1/07	
PR 98-07	FM3	Edition2C	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	5/06 - 12/06	
PR 97-07	FM4	Ed2C-NoSW	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	5/06 - 12/06	
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 12/31/05 hr 11	
PR 9-07	FM3	Edition2B	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	7/2/02 hr 15 to 1/1/06 hr 11	
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	
PR 8-07	FM4	Edition2B	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	7/2/02 to 3/30/05 hr 17	
PR 84A-07 to 84C-07	FM3 or FM4	Edition2B	SARB (SS5)	5.0P1 5.1P2 5.4P2	7/02 - 12/05	Aqua CRS approved 7/13/07.

Table 1: Process Strategy/Geier as of 10/03/07
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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 84D-07	FM3 or FM4	Edition2B	TISAgrid (SS6)	6.1P1 6.2P1 6.3P1	7/02 - 12/05	
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 12/31/05 hour 11	
PR 7-07	FM4	Ed2B-NoSW	TISA grid (SS9)	9.2P1 9.3P1 9.4P1	3/31/05 hr 12 to 1/1/06 hr 11	
PR 108-07	FM1, FM2	Edition2E	TISA avg (SS 10)	10.0P1 10.0P2 10.0P3	3/00 - 10/05	Waiting on ValR9 approval.
PR 110-07	FM3	Edition2B	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	7/02 - 10/05	Waiting on ValR10 approval.
PR 109-07	FM4	Edition2B	TISA avg (SS10)	10.0P1 10.0P2 10.0P3	7/02 - 3/05	Waiting on ValR10 approval.
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: October 3, 2007 - 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 and Table 4 for the current CERES Coefficients Delivery Schedule. (Ayers)• See Table 5 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 5. (Ayers)• Modified CERES Web sites to be compliant with the AWRS checklist. (Saunders)• Began FrameMaker to Word conversion effort. (Saunders)• Began reviewing Word versions of TISA Averaging and SARB Test Plans and Operator's Manuals. (Ayers)• Provided Lindsay Parker with information regarding the URLs in the README files from the sample read packages. (Ayers)• Updated the CERES Subsystem and Coefficients Delivery Schedules and posted them on the Web. (Ayers, Saunders)

Table 3: CERES Subsystem Delivery Schedule - October 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)
SARB		Fall		MATCH (collection 5) data files for May - December 2006.			<i>warlock & magneto</i>
SARB		Fall		MATCH (collection 5) data files for January - June 2007.			<i>warlock & magneto</i>
Instrument (SCCR 641)		October		Delivery of simulated IES PGE to sup- port TRMM VIRS-only processing.			<i>warlock & magneto</i>
CERESlib		October		New ADACOMP environment vari- able. 32-bit version of CERESlib for <i>magneto</i> .			<i>warlock & magneto</i>
Instrument (SCCR 610)		October		To allow processing of both Edition2 and Edition3 data through PGE CER1.3P3	X		<i>warlock & magneto</i>
TISA Averaging (SCCR 660)		October		To support Terra Beta4 and Aqua Beta1 TSI processing.			<i>warlock</i>
GGEO (SCCR 653)		October		Final coefficient delivery for 11/05 - 12/05. Initial coefficient delivery for 1/ 06 - 12/06. Code delivery to support Beta10 GGEO processing.			<i>warlock</i>
Synoptic SARB		November (month after TSI delivery)		To support Terra Beta4 and Aqua Beta1 SYNI processing.			<i>warlock & magneto</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)
TISA Averaging (SCCR 650)		November		Support Terra Edition2E and Aqua Edition2B SRBAVG1-3 and Daily pro- cessing.		X	<i>warlock & magneto</i>
Clouds		November		Terra/Aqua Beta1 Edition3 SSF pro- cessing.			<i>warlock</i>
Inversion		Two weeks after Clouds		Terra/Aqua Beta1 Edition3 SSF pro- cessing.	X		<i>warlock & magneto</i>
TISA Gridding		Two weeks after Inversion		Support Terra/Aqua Beta Edition3 SFC processing.			<i>warlock & magneto</i>
TISA Averaging		January 2008		To support Terra Beta4 and Aqua Beta1 AVG, ZAVG, and SYN process- ing.			<i>warlock</i>
Clouds		Spring 2008		Support TRMM VIRS-only process- ing of August 2001 forward.			<i>warlock</i>
Inversion		Two to four weeks after Clouds		Support TRMM VIRS-only process- ing.			<i>warlock</i>
TISA Gridding		???		PMOA delta delivery dealing with overlap file checking.			<i>warlock</i>

Table 4: CERES Coefficients Delivery Schedule - October 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	Early Fall 2007		Terra Edition3 gains and spectral response function files for February 2000 - June 2005.	<i>warlock/magneto</i>
Instrument/ERBE-like	N/A	Early Fall 2007		Aqua Edition3 gains and spectral response function files for June 2002 - March 2005.	<i>warlock/magneto</i>
Instrument/ERBE-like	N/A	Fall 2007		Terra and Aqua Edition2 gains and spectral response function files January 2007 - ???.	<i>warlock/magneto</i>
GGEO	Fall	Fall 2007		Final coefficients for 1/06 - 4/06.	<i>warlock</i>
Instrument/ERBE-like	N/A	2008		Terra Edition3 gains and spectral response function files for July 2005 - December 2005.	<i>warlock/magneto</i>
Instrument/ERBE-like	N/A	2008		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 September 17 at 12:00 p.m. - October 2 at 3:00 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
660	X	X				7.1	10	

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

CERES Software Configuration Change Request Submittal

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Subsystem: TISAavg7.1 SCCR Date & TIME: 2007-09-21 09:33:46 SCCR No.: 660

Parameter Change: () YES (X) NO

Description of Change (Science):

Req#7 - 67 Make TSI hourbox center to be the same with FSW hourbox center

Req#7 - 68 Replace old code in computing CSZA, solar incidence and AM, PM times

Req#7 - 69 Update code to use the new csza, solar incidence, am and pm times.

Req#7 - 70 Update code to change the interpolation of aerosol optical depths to meet SYNI requests.

Reason for Change (Science):

To support the process of Beta4 TSI

Description of Change (non-Science):

N/A

Reason for Change (non-Science):

N/A

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:

CER7.1.1P1

Estimated Time to Complete Change : 2 weeks

Planned Delivery Date : October 5, 2007
List Affected Subsystems and PGE Names: Subsystem 7.2

Originator: NGUYEN, CATHY (SSAI)

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ADDITIONAL CHANGES TO SCCR NO. 660:

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Parameter Change: () YES (X) NO

Description of Change (Science):

Req7-71+Rescale TOA SW fluxes using correction factors based on year, month and instrument.

Req7-72+Include the TOA daytime LW correction ratios

Reason for Change (Science):

Improve Beta4 TSI

Description of Change (non-Science):

N/A

Reason for Change (non-Science):

N/A

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:

CER7.1.1P1

Estimated Time to Complete Change : Complete

Planned Delivery Date : October 5, 2007

List Affected Subsystems and PGE Names: Subsystem 7.2

Date & Time: 2007-10-02 15:07:10

Originator: NGUYEN, CATHY (SSAI)

Table 6: October 3, 2007 - Subsystem Issues and Status (1 of 4)

SS No.	SS Lead	Status	Problems
1.0	Cooper (Walikainen)	<ul style="list-style-type: none"> Waiting to hear that the necessary Toolkit and CERESlib have been re-setup on <i>mag501-mag503</i> to continue testing of Instrument on the <i>magneto</i> cluster. (Cooper) All of the new Perl scripts have been checked out on <i>thunder</i>, waiting for the <i>magneto</i> configurations to be completed to test the scripts in the Linux environment. (Cooper) The next set of Edition3 gains are now available for validation. A subset of data has been processed on the Mac cluster to help determine if these results vary greatly from the previous set of provided gains. Studies continue on Edition3 gain and SRF updates. (Cooper, Snyder) Began working on a table of all Logical IDs used by SS1 for automation. A draft version of this table has been sent out to the SEC and Jeff Walter of the Automation Team to see if this is what is needed by that team to facilitate their efforts to generate PCFs for production. As soon as the proper format for this table is determined, it will be sent out to the entire DMT so that they can begin creating this table for each subsystem. This could be a major effort, or it may be that the extent of information that I put in the current table for SS1 is not necessary. This will be discussed at the SEC meeting to be held after the DMT. (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) Preparing graphs for Edition3 Instrument meeting (10/2). (Walikainen) 	
3.0	Walikainen (Cooper)	Combined with above.	

Table 6: October 3, 2007 - Subsystem Issues and Status (2 of 4)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Brown)	<ul style="list-style-type: none"> Processed MERRA2 Terra 200407 and Aqua 200601 monthly QC results and posted on the Web. (R. Brown) Worked on producing Cloud Mask Zonal results for Pat Minnis and Qing. Processed Terra results for 200401, 200407, 200501, 200507, 200003. (R. Brown, Chen) Processing CloudVis images for Aqua Edition1A polar regions for 2006. Completed processing CloudVis images for Terra Edition2-QC from January 2006 through July 2006 for regions 34 and 35. (R. Brown). Worked on Ed3. (Sun-Mack). Worked on post processing MOD08 (2000 – present) and MYD08 (2002 – present). (Chen, Sun-Mack) Worked on Minnis mask paper. (Trepte, Chen, Sun-Mack) 	
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"> Refactored convolution code to ease implementation of Edition3 changes and branch for NEWS processing. (Miller) Investigated apparent S'COOL data where MODIS data was not available. It was determined that FLASHFLUX Version1B data was being displayed that had coverage, not Version2B that due to many missing MODIS granule didn't. (Miller) Provided summary of CERES clouds production checking and causes for MODIS staging problems to Ms. Geier. (Miller) Assisted SA and ASDC in testing ssh version of daacget scripts. (Miller) Monitored Terra Test-MERRA2 processing for July 2004. (Miller) Pulled Terra FM2 Edition2B 2006 GQCI reports and created daily files. (Miller) 	

Table 6: October 3, 2007 - Subsystem Issues and Status (3 of 4)

SS No.	SS Lead	Status	Problems
4.5	Sothcott	<ul style="list-style-type: none"> Continued work to determine source of differences between SGI results and MAC cluster results. (Sothcott) Reviewed all CERESlib modules and identified which modules are used by Inversion processing. Provided this information to Lisa Coleman. (Sothcott) Prepared additional months of data to support the SW Model B algorithm testing. (Sothcott) 	
4.6	Sothcott	Combined with above.	
5.0	Caldwell (Coleman)	<ul style="list-style-type: none"> No new updates. 	
7.2	Caldwell (Coleman)	<ul style="list-style-type: none"> Running Beta4 code and evaluating outputs. (Caldwell) 	
12.0	Caldwell (Coleman)	<ul style="list-style-type: none"> Provided Shashi Gupta with software to read SMOBA files in support of GEWEX/SRB work. (Caldwell) 	
7.1	Nguyen (Raju)	<ul style="list-style-type: none"> Updated code to correct the cloud top and bottom pressures and AM and PM times. (Nguyen) Modified the SW interpolation code to accommodate the changes in the cosine solar zenith angles and the AM and PM times. Ran July 2002 TSI for Fred Rose to analyze. (Nguyen) Submitted SCCR for delivery. (Nguyen) 	
8.0	Nguyen (Raju)	<ul style="list-style-type: none"> No new updates. (Nguyen) 	
10.0	Nguyen (Raju)	<ul style="list-style-type: none"> Ran January 2006 Terra FM2 and Aqua FM3 SRBAVGs using DAO and Merra2 PMOA, GGEO and SFCs for Dave Doelling to compare. (Nguyen) Ran July 2004 Terra FM1 SRBAVGs for comparison. (Nguyen) 	
6.0	Raju (Nguyen)	<ul style="list-style-type: none"> No new updates. (Nguyen) 	
9.0	Raju (Nguyen)	<ul style="list-style-type: none"> Produced July 2004 PMOA data for DAAC to create SFCs. (Nguyen) 	

Table 6: October 3, 2007 - Subsystem Issues and Status (4 of 4)

SS No.	SS Lead	Status	Problems
11.0	Raju (Nguyen)	<ul style="list-style-type: none"> Supported Kathy Bush in creating July 2004 Merra2 GGEO. (Nguyen) 	
CERESlib Zentz (Coleman)		<ul style="list-style-type: none"> No new updates. 	