December 15, 2004 - System Issues and Status

Table 1: Process Strategy/Geier as of 12/15/04
Active Requests in order of priority (1 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 110-04	Aqua	ValR3	SSF (SS4) Inversion	4.5-6.3P3 4.5-6.2P2	6/30/03	Hourly Inversion-only (alternate main) - fixes problem of FM4 unfiltered using wrong SCC.
PR 111-04	Aqua	ValR4	SSF (SS4) Inversion	4.5-6.6P3 4.5-6.2P2	6/30/03	Daily Inversion-only (alternate main).
PR 114-04 to 121-04	Terra	ValR4	BDS/ ERBElike (SS1-3)	1.3P3 1.2P1 2.4P1 2.2P1 2.3P1 2.3P2 3.1P1 3.2P1	For selected dates during 1/04 - 5/04 period	
PR 100-04	Terra	Edition2C	SFC (SS 9)	9.3P1 9.4P1	3/00 - 10/03	Run only 9.3 & 9.4.
PR 108-04	Terra	Edition2C	SFC (SS 9)	9.2P1 9.3P1 9.4P1	11/03 - 12/03	
PR 99-04	Terra	Edition2C	SRBAVG (SS10)	10.1P1	3/00 - 2/03	
PR 113-04	Terra	ValR7	SFC (SS 9)	9.2P1 9.3P1 9.4P1	7/00	**Do not promote until PRs 100-04/ 108-04 complete through 12/03. May end up cancel-ling this request.**
PR 112-04	Terra	ValR7	FSW (SS6)	6.1P1 6.2P1 6.3P1	7/00	**Do not promote until PRs 100-04/ 108-04 complete through 12/03. May end up cancel-ling this request.**

Table 1: Process Strategy/Geier as of 12/15/04
Active Requests in order of priority (2 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 106-04	Aqua	ValR2	SSF (SS4) Inversion	4.5-6.1P3 4.5-6.2P2	6/30/03	Done 12/3/04.
PR 107-04	Aqua	ValR3	Clouds	4.1-4.1P3	6/30/03	Process single day with CloudVIS on. All other outputs should be identical to Edition1A.
PR 109-04	Aqua	Edition1B	SSF (SS4) Inversion	4.5-6.3P3 4.5-6.2P2 4.5-6.4P1	7/02 - 6/03	**Hold until ValR3 or ValR4 verified.**
PR 74-04	Terra	Edition2B	SSF (SS4) Inversion	4.5-6.3P2 4.5-6.2P2 4.5-6.4P1	2/25/00 - 12/03	Done 12/1/04.
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	11/00 - 2/01	Done 12/6/04.
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	9/00 - 2/01	Cancelled 12/10/04 TISA gridding to redeliver for Edition2C FSW immediately after OS upgrade.
Standing requests AM-PR 1-00 to 7-00	Terra	Edition1	BDS/ ERBElike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.1P1 2.2P1 2.3P1 2.3P2 3.1P1 ~~3.2P2~~	For 11/04 - present	DO NOT PROCESS 3.2P2 - it is on hold. **ON HOLD starting with 2/1/05 data. Requires Instrument delivery to handle uploaded patch.**

Table 1: Process Strategy/Geier as of 12/15/04
Active Requests in order of priority (3 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
Standing requests PM-PR 7-03A to 10-03	Aqua	Edition1	BDS/ ERBElike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1 ~~3.2P2~~	For 11/04 - present	DO NOT PROCESS 3.2P2 - it is on hold. **ON HOLD starting with 1/1/05 data. Requires Instrument delivery to handle uploaded patch.**
Standing requests AM-PR 8A-02 to 11-02	Terra	Edition2	BDS/ ERBElike (SS1-3)	1.2P1 1.3P3 2.2P1 2.3P1 2.3P2 2.4P1 3.1P1 ~~3.2P2~~	For 1/04 - present	**HOLDING - waiting for associated ValR4 to run.** DO NOT PROCESS 3.2P2 - it is on hold.
Standing requests PM-PR 11-03, 13-03 to 17-03	Aqua	Edition2	BDS/ ERBElike (SS1-3)	1.3P3 1.2P1 2.2P1 2.3P1 2.3P2 2.4P1 3.1P1 ~~3.2P2~~	For 8/04 - present	**HOLDING - waiting for associated ValRx to run.** DO NOT PROCESS 3.2P2 - it is on hold.
Standing request PM-PR 12-03	Aqua/ Terra	Edition2	ES4/ES9 (SS3)	3.2P1	For 1/04 - present	**HOLDING - waiting for both Terra and Aqua to have processed Edition2 data beyond 1/04.**
PRs 60-04, 61-04	Aqua	Edition1A	SSF (SS4) Clouds	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1 ~~4.5-6.1P3~~ ~~4.5-6.2P2~~ ~~4.5-6.4P1~~	7/03 - 6/04	Inversion cancelled. When ValR2 is approved, Edition1B Inversion processing will begin.
PR 105-04	Aqua	Edition1B	SSF (SS4) Inversion	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	7/03 - 6/04	

Table 1: Process Strategy/Geier as of 12/15/04
Active Requests in order of priority (4 of 4)

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	Oct'04 naming problem fixed. Nov'04 data didn't have naming problem.
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	3/01 - 2/02 4/02 - 2/03	Process crosstrack Instrument only.
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	3/01 - 2/02 4/02 - 2/03	Cancelled 12/10/04 TISA gridding to redeliver for Edition2C FSW immediately after OS upgrade.
M PR 2-04		GEOS4	MOA (SS12)	12.1P1	11/04 - present	
M PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	11/04 - present	

Table 2: Process Strategy/Geier as of 12/15/04
Coming Soon (1 of 2)

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
3/05	Aqua/ Terra	ValR5	BDS (SS 1)	?	Test out delivery that handles instrument patch.
	Terra	ValRx	FSW (SS 6)	?	Added parameters to FSW.
	Terra	Edition2C	FSW (SS 6)	3/00 - 3/03	Added parameters to FSW.
	Aqua	ValR3	SFC (SS 9)	7/02 - 6/03	Correct region numbers; need Edition1B SSF as input.
	Aqua	ValR3	SRBAVG (SS10)	7/02 - 2/03	
	Aqua	Edition1B	SFC (SS 9)	7/02 - 6/03	Correct region numbers; need Edition1B SSF as input.
	Aqua	Edition1B	SRBAVG (SS10)	7/02 - 2/03	
	Aqua	Beta1	CRS (SS 5)	7/02 - 6/03	
	Aqua	Beta1	FSW (SS 6)	7/02 - 6/03	
		ValR11	GGEO (SS11)	3/03 - 6/03	Requires redelivery to handle GOES-9 and GOES-12; requires coefficients.
	Aqua	ValR1	SRBAVG (SS10)	3/03 - 6/03	
4/05		Edition2A	GGEO (SS11)	3/03 - 6/03	ValR11 must be approved.
	Aqua	Edition1B	SRBAVG (SS10)	3/03 - 6/03	
unkn		ValR11	GGEO (SS11)	? months	7/03 - 6/04; requires coefficients.
		Edition2A	GGEO (SS11)	7/03 - 6/04	
	Aqua	Edition1A	SRBAVG (SS10)	7/03 - 6/04	
	TRMM	Beta4	TSI (SS7.1)	9 months	Not on Bruce's schedule.
	Terra	Beta3	TSI (SS7.1)	12 months	Not on Bruce's schedule.

Table 2: Process Strategy/Geier as of 12/15/04
Coming Soon (2 of 2)

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
	TRMM	Beta4	Synoptic SARB (SS7.2)	9 months	Not on Bruce's schedule.
	Terra	Beta3	Synoptic SARB (SS7.2)	12 months	Not on Bruce's schedule.
	TRMM	Beta4	SYN/AVG/ ZAVG (SS8)	9 months	Not on Bruce's schedule.
	Terra	Beta3	SYN/AVG/ ZAVG (SS8)	12 months	Not on Bruce's schedule.
	Aqua	Beta1	TSI (SS7.1)		Not on Bruce's schedule.
	Aqua	Beta1	Synoptic SARB (SS7.2)		Not on Bruce's schedule.
	Aqua	Beta1	SYN/AVG/ ZAVG (SS8)		Not on Bruce's schedule.

Table 3: December 15, 2004 - System Issues and Status

Activity	Lead	Status
CM	Ayers	• See Table 4 for the current CERES Subsystem Delivery Schedule. (Ayers) • See Table 5 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 5. (Ayers) • Tested the following subsystem deliveries and released them to the ASDC: TISA Gridding (SCCR 571) and Inversion (SCCRs 570 & 572). (Ayers, Saunders) • Delivered the September 2004 Clouds S'COOL data file to the ASDC. (Saunders) • Updated the CERES Subsystem Delivery Schedule and posted it on the CERES CM Web site. (Ayers, Saunders)

Table 4: CERES Subsystem Delivery Schedule - November 2004
(Next CERES Science Team Meeting - May 3 - 5, 2005 in Princeton, NJ)

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Delivery to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)
Instrument	N/A	December 15	December 15	Terra gains for January - May 2004.		
ERBE-like	N/A	December 15	December 15	Terra spectral response function files for January - May 2004.		
Inversion (SCCR 568)	February			To run Terra alternate main on a daily basis.		X
TISA Gridding	February			To add parameters to FSW and change SFC (PGE 9.4) HDF files.		
Instrument	February			Update code to support satellite patch. (Terra & Aqua)		
GGEO (SCCR 553)	January 28	February 11	February 18	Delivery to handle GOES-9 and GOES-12, new McIDAS format and processing data beyond March 2003.		X
Instrument	Late February			Aqua gains.		
ERBE-like	Late February			Aqua spectral response function files.		
TISA Averaging	March			Terra Edition2D SRBAVG needed for Science Team.		
Clouds	Spring			Support TRMM VIRS-only processing of August 2001 forward.		

Table 5: SCCR Activity November 29 at 2:45 p.m. - December 13 at 2:30 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
570			X	X		4.5 & 4.6		
572	X		X			4.5 & 4.6	9	

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

CERES Software Configuration Change Request Submittal
==========

Subsystem: Inversion SCCR Date & TIME: 2004-12-01 12:23:53 SCCR No.: 572

Description of Change (Science):
New PGE CER4.5-6.6P3 which will create 1 day (24 hours) of Aqua Edition1B SSF data. The only difference between the data created by hourly PGE CER4.5-6.3P3 and the new daily PGE is that metadata values CERHrofDay and CERHrOfMonth will not be created using the new PGE.

Reason for Change (Science):
Metadata parameters CERHrofDay and CERHrOfMonth are read from a fixed location (ID) the PCF file by the metadata software in CERESlib and the new PGE would need different IDs for each of the 24 hours processed in order to create these metadata parameters.

Description of Change (non-Science):
New PGE CER4.5-6.6P3 which will create 1 day (24 hours) of Aqua Edition1B SSF data (this PGE will include unfiltering radiances). The SSF results of this PGE will be the same as running hourly PGE CER4.5-6.3P3 for 24 hours.

Reason for Change (non-Science):
To allow the creation of more SSF data each day by using fewer jobs at the ASDC.

Affected PGEs : None
Est. Time to Complete Changes : 2 weeks
Planned Delivery Date : December 10, 2004
Impact : None
Originator : NOLAN, SANDY K. (SAIC)

Table 6: December 15, 2004 - Subsystem Issues and Status (1 of 5)

SS No.	SS Lead	Status	Problems
1.0	Cooper	• Investigating cause of low albedo found in ERBE-Like processing. At this point all the days for FM3 and FM4 that show low albedo are days with special operations (Lunar Scan, etc.). Initialization errors were discovered in the SS1 code that seem to be the cause of the low albedo data. Tests are being run on all of the days that showed low albedo and for an entire month to determine the significance of the affect on the CERES data. (Cooper, Hess, Spence, & Walikainen) • A true alongtrack scan was tested on 12/07. Analysis shows the width is just one pixel all way through. Our European collaborators congratulated us on that; but now, they all would like to see a true alongtrack anytime we do alongtrack! (Szewczyk) • Began winter solstice data collection for CERES/ GERB (12/10) with FM2. (Szewczyk) • Continued tracking receipt of Terra/Aqua Level-0, Ephemeris and Attitude data at ASDC. (Cooper & Snyder)	
2.0	Walikainen	• Validating SS1.0's code changes to eliminate negative short wave filtered radiances. These negative radiances force the calculated albedos to be negative. Measurements with a low albedo are rejected by ERBE-like and their daily count is recorded in the QC report. Note: the low albedo rejects were originally reported at 11/17/04 DMTM. (Walikainen) • Created a script that detects new SSF ValRs. Any new ValR met files are checked to insure that the proper spectral correction coefficient files are listed as inputs. (Walikainen) • Continuing to examine the production email generated by the QC checker software. (Walikainen) • Continuing to inspect ERBE-like Aqua and Terra output plots and QC reports on the Web. (Walikainen)	
3.0	Walikainen	Combined with above.	

Table 6: December 15, 2004 - Subsystem Issues and Status (2 of 5)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	• Worked restructuring the Aqua Modis CloudVis Web Viewer to improve search utility. Reprocessed all Web pages for Aqua Modis Edition1A CloudVis images to incorporate changes. (R. Brown) • Processed CloudVis images for Aqua Modis Editon1A for the Alaska ARM NSA Site, Central Australian, and the Oklahoma ARM site from July 2002 through September 2003. Processed CloudVis images for Terra MODIS Edition2-QC for the Tropical Western Pacific ARM site from July 2002 through September 2003. Completed processing TRMM VIRS Edition2 CloudVis images for the Central Australian region from January 2000 through December 2000. All results were posted on the Web. (R. Brown) • QC global images and statistics were processed and posted on the Web for Aqua MODIS Edition1A from April 2003 through November 2003. (R. Brown) • Delivered S'COOL data file for October 2004. (R. Brown) • Successfully read GLAS09/ICESat data now. Ran a day of Terra-MODIS and a day of Aqua-MODIS. Wrote matching code. Two days of data were matched with GLAS09. (Chen & Sun-Mack) • Worked on SIRTA cases --- case by case study. (Marjolaine Chiriaco & Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	• Monitored Aqua Edition1A processing for August through December 2003. Two, zero, two, three, and two hour respectively did not have IESs to process. (Miller) • Validated unfiltered radiances on new inversion processing ValR2 and ValR3. (Miller) • Updated Data Management Plan for clouds and convolution. (Miller)	

Table 6: December 15, 2004 - Subsystem Issues and Status (3 of 5)

SS No.	SS Lead	Status	Problems
4.5	Nolan	• Validated Aqua FM3 and FM4 ValR2 SSF data for 06/30/2003 by creating the same hours of SSF on warlock and comparing the HDF files to the ones created at the ASDC. (Nolan) • Completed work to modify and test PGE CER4.5-6.6P3, the daily Inversion-only processor for Aqua. New tar files were created and tested on warlock. PGE was delivered to CM on 12/08/04. (Nolan) • Completed modifications to the Inversion Operator's Manual and Test Plan. New sections for PGE CER4.5-6.6P3 were added. New tar files were created were delivered to CERES Documentation on 12/08/04. (Nolan) • Continued work to modify and test PGE CER4.5-6.2P2 version which includes a flag to turn off the creation of the SSF subset files and allow only the SSF validation subsets to be created for FLASH Flux. (Sothcott) • Completed work to run the latest versions of the daily subset PGE CER4.5-6.2P2 and the monthly validation PGE CER4.5-6.4P1 with the 9 additional CERES validation sites using Terra Edition2B SSFs. (Sothcott) • Continued work to update the SSF Description/ Abstract to include information on changes in the latest Clouds and Inversion deliveries. (Sothcott)	
4.6	Nolan	Combined with above.	
5.0	Coleman	• The cause of a failed hour of Terra Edition2B processing in SARB was determined to be an error writing a never before used warning message to the LogReport file. An error condition was encountered that should have caused only the individual FOV to be skipped, but instead the diagnostic reporting logic was erroneous. Since this logic has been in the subsystem for years and has never before been encountered, it is not seen as anything that should get in the way of current production processing. (Caldwell)	

Table 6: December 15, 2004 - Subsystem Issues and Status (4 of 5)

SS No.	SS Lead	Status	Problems
5.0	Coleman (Cont'd)	• Building scripts around Fred Rose's software that generates plots of FSW data that SARB reviews to evaluate CRS data. Plans are to make this into a new PGE. (Zentz) • Responding to questions posed by Jim Donaldson regarding the SARB Monthly Pre-Processors. (Caldwell & Coleman) • Updated modules accessing the MATCH vertical profile data according to Fred's specifications. (Zentz) • Coordinating the updates to the CERES Data Management Plan. (Coleman)	
7.2	Coleman	• No new updates.	
12.0	Coleman	• No new updates on the ECMWF library problems.	
7.1	Nguyen	• No new updates.	
8.0	Nguyen	• No new updates.	
10.0	Nguyen	• Testing and validating the new SRBAVG4. (Nguyen) • Reran July 2001 with the new SFC for Dave Doelling. (Nguyen)	
6.0	Raju	• Continued work to modify PGE CER6.3P1 code to include new parameters. (Raju) • Continued work to test new version of PGEs CER6.1P1 & CER6.2P1 which include wn flux parameters. (Raju)	
9.0	Raju	• Checked a few months of ValR6 SFC product to make sure code changes are working correctly and found no problems. (Raju) • Updated SFC Description/Abstract document to include nested grid structure, used to write SFC HDF product. (Raju & Stassi)	

Table 6: December 15, 2004 - Subsystem Issues and Status (5 of 5)

SS No.	SS Lead	Status	Problems
11.0	Stassi	• The GGEO cloudplot code was modified to treat the case where cloud amounts are default at all four layers differently from the case of zero cloud amount. The three years' of data from March 2000 through February 2003 were rerun at the SCF using the new Edition2C SFC files--which are an improvement on the Edition2A SFC files used in the production runs. The new GGEO minus CERES numbers were sent to Michele Nordeen for plotting. (Stassi)	
CERESlib Stassi/Ayers		• No updates.	