December 29, 2004 - System Issues and Status

Table 1: Process Strategy/Geier as of 12/29/04
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	done 12/10/04
PR 111-04	Aqua	ValR4	SSF (SS4) Inversion	4.5-6.6P3 4.5-6.2P2	6/30/03	Daily Inversion-only (alternate main) done 12/22/04
PR 114-04 to 121-04	Terra	ValR4	BDS/ ERBE-like (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	cancelled 1/3/05
PR 100-04	Terra	Edition2C	SFC (SS 9)	9.3P1 9.4P1	3/00 - 10/03	run only 9.3 & 9.4 Done 12/13/04
PR 108-04	Terra	Edition2C	SFC (SS 9)	9.2P1 9.3P1 9.4P1	11/03 - 12/03	Done 12/23/04
PR 99-04	Terra	Edition2C	SRBAV G (SS10)	10.1P1	3/00 - 2/03	Done 12/13/04
PR 113-04	Terra	ValR7	SFC (SS 9)	9.2P1 9.3P1 9.4P1	7/00	cancelled 12/13/04
PR 112-04	Terra	ValR7	FSW (SS6)	6.1P1 6.2P1 6.3P1	7/00	cancelled 12/13/04

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Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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	in production
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	Edition1A Inversion cancelled. Inversion will run as Edition1B.
PR 105-04	Aqua	Edition1B	SSF (SS4) Inversion	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	7/03 - 6/04	in production
standing requests AM-PR 1-00 to 7-00	Terra	Edition1	BDS/ ERBE-like (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 12/29/04
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/ ERBE-like (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/ ERBE-like (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/ ERBE-like (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.**
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.

Table 1: Process Strategy/Geier as of 12/29/04
Active Requests in order of priority (4 of 4)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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
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 12/29/04
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 Will also need ValRx files for Terra gains/SRF delivery.
	Terra	Edition2B	SSF (SS 4.5-6)	1/04 - ??	As soon as IES available, run SSF.
	Terra	ValR7	SFC (SS 9)	?	Test delta delivery to split environment variables scripts
	Terra	ValR7	FSW (SS 6)	?	Test delta delivery to split environment variables scripts and delivery that adds parameters to FSW
	Terra	Edition2C	FSW (SS 6)	3/00 - 3/03	Added parameters to FSW
	Terra	Edition2C	SFC (SS 9)	1/04 - ??	Once delivery cleared and SSF inputs available, run.
	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 to 6/03	requires redelivery to handle GOES-9 and GOES-12; requires coefficients

Table 2: Process Strategy/Geier as of 12/29/04
Coming Soon (2 of 2)

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
	Aqua	ValR1	SRBAVG (SS10)	3/03 - 6/03	
4/05		Edition2A	GGEO (SS11)	3/03 to 6/03	ValR11 must be approved
	Aqua	Edition1B	SRBAVG (SS10)	3/03 - 6/03	
unkn		ValR11	GGEO (SS11)	? months	7/03 - 6/04; requires coeffi-cients
		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
	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 29, 2004 - System Issues and Status

Activity	Lead	Status
CM	Ayers	• See Table 4 for the current CERES Subsystem Delivery Schedule. (Ayers) • There was no SCCR activity during the last two weeks. (Ayers) • Updated the Instrument Operator's Manual and delivered it 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 - December 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	February			Terra gains for January - May 2004.		
ERBE-like	February			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	February 18 - March 18			Terra Edition2D SRBAVG needed for Science Team Meeting.		
Clouds	Spring			Support TRMM VIRS-only processing of August 2001 forward.		
Clouds	???			To process MODIS V005. Delivery needs to be made just before delivery of July 2005 Terra gains and spectral response function files.		

Table 5: December 29, 2004 - Subsystem Issues and Status (1 of 4)

SS No.	SS Lead	Status	Problems
1.0	Cooper	• Continued testing of the Instrument Subsystem. Errors have been found for very special cases of the CERES Instrument operations. The Instrument Subsystem is being thoroughly tested before deliveries can resume. (Cooper, Hess, Spence) • Galley proofs were sent back to JGR on December 14 meaning that the Terra-Aqua comparison paper is getting published electronically and also in a hard copy version. (Szewczyk) • A new link on the CERES special operations Web-site was added to implement true-along-track scanning (accounting for Earth rotation) for the Terra and Aqua CERES instruments. Successful tests for Terra (FM2) were completed on December 07 and 25. Tests for Aqua will take place during the week of 01/09. (Szewczyk) • Investigating possible Sun impingement on SW and WN filters of the CERES instruments. (Matthews (AS&M), Hess)	
2.0	Walikainen	• Produced comparison plots for Dr. Grant Matthews' filter degradation studies. (Walikainen) • Developed a script that examines SS1.0 QC reports. It detects data extremes; for example, bad count converted science data that exceeds 5% for the most recent SS1.0 data products. This script is run daily and tests will be added when time permits. (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 5: December 29, 2004 - Subsystem Issues and Status (2 of 4)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	• QC global images and statistics for December 2003 through May 2004 for Aqua MODIS Edition1A monthly data sets were generated and posted on the Web. (R.Brown) • CloudVis images for TRMM Edition2 and TRMM Edition2_VIRSonly data for January 2000 through December 2000 were generated and posted on the Web for the Dry Tortugas and Northern Brazil regions. CloudVis images for Terra Edition2-QC data from February 2000 through December 2003 for the Tropical Western Pacific ARM and Nauru ARM sites were generated and posted on the Web. CloudVis images for Aqua MODIS Edition1A data from September 2003 through December 2003 for the Central Australian and Oklahoma ARM site were also generated and posted. In addition, CloudVis images for Aqua MODIS Edition1A data from July 2002 through December 2003 for the Tropical Western Pacific ARM site were generated and posted on the Web. (R.Brown) • The CloudVis Web Viewer was restructured to improve the calendar search utility. Web pages were regenerated for all Edition data from TRMM VIRS Edition2 and Edition2 VIRSOnly, Terra MODIS Edition2-QC, and Aqua MODIS Edition1A. Web Viewer code was modified to incorporate changes. (R.Brown) • Continued to work on SIRTA case studies. (Sun-Mack, Marjolaine Chiriaco)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	

Table 5: December 29, 2004 - Subsystem Issues and Status (3 of 4)

SS No.	SS Lead	Status	Problems
4.4	Miller	• Aqua MODIS Edition1A data were monitored. The number of hours not processed for June 2003 through March 2004 are four, one, two, zero, two, three, two, six, five and three hours, respectively. One hour failed due to a segmentation fault in January. Three hours were missing MODIS data in February 2004. The remaining hours did not have IESs. (Miller) • Migration of daily SSF QC files to nearline storage was started. (Miller) • The MISR data format was studied and a new proposal on how to set up the MISR binary file was made to Dr. Wenbo Sun, CSB. (Miller)	
4.5	Nolan	• Updates to the SSF Description/Abstract to include information on changes in the latest Clouds and Inversion software deliveries were completed. (Sothcott) • Work continued on the modification of PGE CER4.5-6.2P2 to include 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 processing. (Sothcott) • Validated Aqua FM3 ValR4 SSF data for 06/30/2003. Reviewed Aqua FM4 ValR4 SSF data for 06/30/2003 and found unexpected differences between ValR3 and ValR4. Working to determine the cause of these differences. (Sothcott)	
4.6	Nolan	Combined with above.	
5.0	Coleman	• Continuing to study and test Fred's software to plot FSW data relevant to SARB's QC needs. (Zentz)	
7.2	Coleman	• No new updates.	
12.0	Coleman	• Continuing to study problems with the 64-bit ECMWF library and experiment with solutions. Have determined that we can compile and run GMOA data in the 64-bit mode, and ECMWF in the 32-bit mode on the CERES test bed. (Caldwell, Zentz)	
7.1	Nguyen	• No new updates.	

Table 5: December 29, 2004 - Subsystem Issues and Status (4 of 4)

SS No.	SS Lead	Status	Problems
8.0	Nguyen	• No new updates.	
10.0	Nguyen	• No new updates.	
6.0	Raju	• Added Clear-Sky WN flux type structure to FSW record. Modified CER 6.1P1 PGE code to process and write clear footprints mean,std values to type structure. Ten days of February 2001 Terra FM2 data was processed through PGEs CER6.1 & CER6.2P1 at SCF. Checked binary FSW files and found no problems. (Raju) • Modified CER6.3P1 code to include new SDSs in the FSW HDF product. (Raju)	
9.0	Raju	• No new updates.	
11.0	Stassi	• Writing a Perl script to read the McIdas flat file input and determine which to use for GGEO processing. (Stassi)	
CERESlib Stassi/Ayers		• No new updates.	