

February 9, 2005 - System Issues and Status

Table 1: Process Strategy/Geier as of 02/09/05
Active Requests in order of priority (1 of 2)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
2-05	Terra	Edition2C	SFC (SS9)	9.4P1	2/03 FM1, FM2 4/03 FM2	hdf conversion originally run without all binary zones staged.
1-05	Aqua	Beta1	CRS (SS5)	5.0P1 5.1P1 5.4P1	7/02 - 3/03	Process months for which MATCH data available.
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 1/05 - present	DO NOT PROCESS 3.2P2 - it is on disabled. ON HOLD starting with 1/1/05 data. Subsystem requests that Instrument delivery to handle uploaded patch be promoted before any 2005 data processed.
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 disabled. ON HOLD starting with 1/1/05 data. Subsystem requests that Instrument delivery to handle uploaded patch be promoted before any 2005 data processed. Patch to FM3 to go in 2/1/05; all other patches in 3/1/05.

Table 1: Process Strategy/Geier as of 02/09/05
Active Requests in order of priority (2 of 2)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
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 - 11/04	HOLDING - waiting for associated ValR5 to run. DO NOT PROCESS 3.2P2 - it is on disabled.
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 disabled.
Standing request PM-PR 12-03	Aqua/ Terra	Edition2	ES4/ES9 (SS3)	3.2P1	For 1/04 - 7/04	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	
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 02/09/05
Coming Soon (1 of 2)**

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
3/05	Aqua/ Terra	ValR5	BDS/ERBELike (SS 1)-3	?	Test out delivery that handles instrument patch. Will also need ValRx files for Terra gains/SRF delivery.
	Terra	Edition2B	SSF (SS 4)	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)	Jan'02 & July'02	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	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.
	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 coefficients.

**Table 2: Process Strategy/Geier as of 02/09/05
Coming Soon (2 of 2)**

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
		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: February 9, 2005 - System Issues and Status

Activity	Lead	Status
CM	Ayers	<ul style="list-style-type: none">• 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: Instrument (SCCR 573) and CERESlib (SCCR 576). (Saunders, Ayers)• Testing the TISA Gridding (SCCR 575) delivery. (Saunders, Ayers)• Delivered the December 2004 Clouds S'COOL data file to the ASDC. (Ayers)• Updated the CERES Subsystem Delivery Schedule and posted it on the CERES CM Web site. (Ayers, Saunders)

Table 4: CERES Subsystem Delivery Schedule - January 2005
(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 - November 2004.		
ERBE-like	February			Terra spectral response function files for January - November 2004.		
TISA Gridding (SCCR 575)	January 28	February 11	February 18	To add parameters to FSW.		
Inversion (SCCR 568)	February 4	February 11	February 18	To run Terra alternate main on a daily basis.		X
TISA Averaging	February 18 - March 18			Terra Edition2D SRBAVG needed for Science Team Meeting.		
GGEO (SCCR 553)	February 11	February 25	March 4	Delivery to handle GOES-9 and GOES-12, new McIDAS format and processing data beyond March 2003.		X
Instrument	Mid-April			Aqua gains.		
ERBE-like	Mid-April			Aqua spectral response function files.		
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: SCCR Activity January 10 at 3:00 p.m. - February 7 at 3:30 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
573	X		X			1	8	
574	X		X			6 & 9	10	CERESlib modifications.
575	X		X			6	11	
576	X		X			CERESlib	12	

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

CERES Software Configuration Change Request Submittal

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Subsystem: Instrument

SCCR Date & TIME: 2005-01-26 15:13:10

SCCR No.: 573

Description of Change (Science):

PGE CER1.3P3

1) updated to use spaceclamp samples defined by the Used_In_Spaceclamp flag, instead of the default.

PGE CER1.1P3/CER1.1P5

- 1) Set all channels to fill-value when any channel has counts of exactly 0. This is a saturation condition.
- 2) Fix the radiance conversion to check the 16-bit value against a fill-value before moving into a 64-bit value for calculations.
- 3) Specifically set Drift Corrected Counts to fill-value when an error is detected in the spaceclamp.
- 4) Update Instrument code to properly handle the new patch uploaded for the WN Bridge Balance.
- 5) Fix spaceclamp code, a local flag is being overwritten with GOOD, which allows the spaceclamp to be calculated when it is actually BAD.
- 6) Change the Solar Eclipse tolerance angle to 0.65 from 0.75 to take care of footprints mistakenly being flagged as Solar Eclipse.

Parameters affected by the above changes:

SW, WN and TOTAL radiances upwards, drift corrected counts, slow mode and double drift corrected counts, and SW, WN and TOTAL spaceclamp values.

Reason for Change (Science):

CER1.3P3

1) Spaceclamp region was previously being determined using the default scan positions given in the ancillary data file for Count Conversion parameters. Although this is usually the same as was used, it is often off by 1 or 2 positions. This will make the spaceclamp calculations between CER1.1Px and CER1.3P3 consistent. It has no significant affect on the Science Data values.

CER1.1P3/CER1.1P5

- 1) A value of exactly Zero in the radiance counts is an indication of a problem with the data. This is similar in nature to a saturation of the value, which also sets all values to fill-value when it is detected. This mainly affects science data during a reset of one or more of the radiance channels. The maximum effect is for 25 scans out of 13091 scans for a given data date.
- 2) The 16-bit value was being moved into a 64-bit value and then the 64-bit value was being checked against the 64-bit fill-value to see if the value was good. Since the 64-bit fill-value will never match the 16-bit fill-value, the 16-bit fill-value was getting used in computations of the spaceclamp and radiances. This only occurred during certain special ops events. This was part of the cause for the ERBE-Like low albedos. This had a significant effect on Science Data, but only for a limited number of scans, making the total effect on the science data negligible.
- 3) This was done to make certain that values were being properly set to a fill-value when the error condition was flagged. It was not a problem, the values were preset to a fill-value, but it makes it clearer to the reader that the values have been properly filled. This had no affect on the Science Data.
- 4) A patch will be uploaded to the CERES instruments that will set the Bridge Balance separately for each of the three radiance channels, to allow a broader range for the WN channel. Since in the past all three channels had the same Bridge Balance limit, the code had to be updated to allow for the different values. The affect here is on future Science Data, this will eliminate the need to correct the WN channel based on the SW channel in the existing code. This will not affect the Science Data, as we are currently correcting the values in the software.
- 5) The spaceclamp calculation was setting a flag that was then overwritten with a GOOD value, this allowed bad spaceclamp values to be calculated. This has a minimal effect on the Science Data, as the problem only occurs in a small number of scans in any one data day.

6) For 5/19/2004 and 11/12/2004, a small number of footprints were being flagged as being during a Solar Eclipse. This was not the case and so the tolerance angle checked to determine if we had a Solar Eclipse is being updated to correct this problem. This will have a minimal effect on the Science Data, this is a flagging issue and does not affect the value of the radiance data itself.

Description of Change (non-Science):

- 1) Add a new QC report comparison for CERES CM testing for PGEs CER1.1Px and CER1.3P3.
- 2) Update QC report generators to always print out a 2-digit month, day, hour, minute and second. PGEs CER1.1Px and CER1.3P3.
- 3) Update the compare scripts to use the new QC comparison script. PGE CER1.1Px and CER1.3P3.
- 4) CER1.3P3 - update to report gain and offset files used in the QC report.
- 5) Update the Remove_Offsets procedure to first see if the drift corrected count is a fill-value, then to read the offset if it is not a fill-value.
- 6) Update the Time_Constant_Adjust to not overwrite the flag when it is set to RECALCULATED.
- 7) Update the Time_Constant_Adjust for all 3-channels to use the Temp_Chi array, which has already been defined.
- 8) Update the scripts to automatically turn off the WN channel fix flag after the patch is uploaded. PGE CER1.1Px and CER1.3P3.

Reason for Change (non-Science):

- 1) This will give a better check of the CM created QC reports against the expected output.
- 2) In order to allow the comparison of the QC reports it was necessary to insure the month, day, hour, minute and second were all written out as 2-digit numbers.
- 3) The existing compare scripts were updated to include the new QC compare script.
- 4) Gain and Offset files were missing from the QC report Input file section. This fix insures that the files will be included in the QC report.
- 5) During the Instrument code review it was found that we were reading the offset before checking to see if it was needed. This makes the code more efficient.
- 6) The RECALCULATED flag was being set and then overwritten with USED_PREVIOUS, this did not cause a problem, but since this is reported in the QC report, it kept analysts from being able to easily track when the Second Time Constant was restarted.
- 7) The routine was reading the values for Temp_Chi for each channel each time it was called. The values had already been defined and it was unnecessary to re-read them from the ancillary data files. This makes the routine more efficient.
- 8) The WN channel patch is set to be uploaded for FM3 2/01/05 and for FM1, FM2 and FM4 on 3/01/05. This update will allow ASDC to process data without having to worry about whether they have properly set the flag, as the script will automatically take care of it.

Affected PGEs : CER1.1P3, CER1.1P5, CER1.3P3

Est. Time to Complete Changes: 1 week

Planned Delivery Date : 2/04/2005

Impact : Edition1 processing can resume after this has been promoted.

Originator: COOPER, DENISE L. (SAIC)

CERES Software Configuration Change Request Submittal

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*** All changes described in this SCCR were made in CERESlib. ***

Subsystem: TISAGrid SCCR Date & TIME: 2005-01-28 08:32:03 SCCR No.: 574

Description of Change (Science):

Added Satellite Emulated WN fluxes and Aerosol Constituency Ratio parameters to FSW record.

Reason for Change (Science):

Science members have requested these parameters on FSW product.

Description of Change (non-Science):

TISA gridding I/O routines in the CERESlib modules were modified to determine and read different versions of SFC/FSW data product records.

Added write routines to sfc_file, fsw_file CERESlib modules.

Reason for Change (non-Science):

I/O routines were modified to provide user an easy access to different length SFC/FSW product records.

Write routines were included for validation consistency purpose.

Affected PGEs : All Subsystems 6 & 9 PGEs

Est. Time to Complete Changes: Completed

Planned Delivery Date : Friday, February 4, 2005

Impact : TISA Subsystems

Originator: RAJU, RAJA (SAIC)

CERES Software Configuration Change Request Submittal

Subsystem: TISAgid6.0

SCCR Date: 01/28/2005

SCCR Number: 575

Description of Change (Science):

Added WN fluxes and aerosol constituency ratio parameters to FSW record. Updated code to write Total Sky Noaerosol Downwelling Longwave flux values correctly on FSW product.

Reason for Change (Science):

Science members have requested these parameters on FSW product. Total Sky Noaerosol Downwelling LW flux values are written as CERES defaults in Edition2B FSW product. This delivery is to support Terra Edition2C, Aqua FSW process.

Description of Change (non-Science):

N/A

Reason for Change (non-Science):

N/A

Affected PGEs : CER6.1P1, CER6.2P1, CER6.3P1

Est. Time to Complete Changes: Completed.

Planned Delivery Date : February 11, 2005

Impact : Subsystem 6.0

Date: 01/28/2005 Status: SUBMITTED

Originator: RAJU, RAJA (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 575:

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Description of Change (Science):

The following parameters are added to FSW product. (See SCCR 574)

WN flux - satellite emulated - TOA Total-Sky

WN flux adjustment - satellite emulated - TOA Total-Sky

WN flux - satellite emulated - TOA Clear-Sky

WN flux adjustment - satellite emulated - TOA Clear-Sky

Aerosol Constituency Ratio(7)

Reason for Change (Science):

Science members have requested these parameters on FSW product.

Description of Change (non-Science):

N/A

Reason for Change (non-Science):

N/A

Affected PGEs : CER6.1P1, CER6.2P1, CER6.3P1

Est. Time to Complete Changes: Completed

Planned Delivery Date : February 11, 2005

Impact : Subsystem 6.0

Date & Time: 2005-01-28 12:15:21

Originator: RAJU, RAJA (SAIC)

CERES Software Configuration Change Request Submittal

*** All changes described in this SCCR were made in CERESlib. ***

Subsystem: CERESlib

SCCR Date: 02/01/2005

SCCR Number: 576

Description of Change (Science):

see SCCR #574 (TISA Gridding modifications)

Reason for Change (Science):

see SCCR #574

Description of Change (non-Science):

see SCCR #574

Reason for Change (non-Science):

see SCCR #574

Affected PGEs : see SCCR #574

Est. Time to Complete Changes: changes are complete

Planned Delivery Date : Friday February 4, 2005

Impact : see SCCR #574

Date: 02/01/2005 Status: SUBMITTED

Originator: STASSI, JOE C. (SAIC)

ADDITIONAL CHANGES TO SCCR NO. 576:

Description of Change (Science):

none

Reason for Change (Science):

n/a

Description of Change (non-Science):

The meta_write.f90 module was modified to correctly handle input filenames which are explicitly added to the meta-data information.

Reason for Change (non-Science):

This functionality (explicitly adding input file information to metadata) has not been used much, if at all. The problem was discovered while testing a new, yet-to-be-delivered, GGEO PGE.

Affected PGEs : no known impact to existing PGEs

Est. Time to Complete Changes: ready

Planned Delivery Date : Monday February 7, 2005

Impact : see Affected PGEs

Date & Time: 2005-02-07 10:16:07

Originator: STASSI, JOE C. (SAIC)

SCCR #576 is associated with the following SCCRs: 574

Table 6: February 9, 2005 - Subsystem Issues and Status (1 of 6)

SS No.	SS Lead	Status	Problems
1.0	Cooper	<ul style="list-style-type: none"> Continued monitoring receipt of Aqua and Terra Level-0, Ephemeris, and Attitude data at the ASDC. All data for Jan. 2005 received by Feb. 1, 2005. (Cooper & Snyder) Delivered updates to the Instrument Subsystem PGEs CER1.1P1 thru CER1.1P6 and CER1.3P3. Updates consisted of those found during the SS1 code review of the Count Conversion modules along with updates that have been made since the last delivery, but did not affect any science data. (Cooper) A day's worth of targeted AT will run on 02/08 from both satellites using FM2 and FM3. A command upload is done via ODSs on Terra (fully automated), and manual keying in for AQUA to be automated later using SCS macros. Targeted AT will be done on a bi-weekly basis. (Szewczyk) 	
2.0	Walikainen	<ul style="list-style-type: none"> Found bug in new c-compiler, using fprintf to output an ASCII file with 19 columns (18 and 17 also give the error). 16 columns removes the error: <i>Signal: Segmentation fault in Code_Expansion phase. Error: Signal Segmentation fault in phase Code_Expansion - - processing aborted cc ERROR: /usr/lib32/cmplrs/ be died due to signal 4 cc ERROR: core dumped .</i> (Walikainen) O.k.'d PGEs 2.1P1, 2.2P1 and 2.4P1 for production. Continuing to validate Operating system upgrade for ERBE-like PGE outputs. (Walikainen) Continuing spectral response function testing for Terra Edition2 Jan-Nov 04. Submitted monthly products to Science Team. (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: February 9, 2005 - Subsystem Issues and Status (2 of 6)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	<ul style="list-style-type: none"> CloudVis TRMM VIRS VIRSOnly Edition2 images were generated for Cape Verde, Sub-Saharan Africa, SW African Coast and Mexico regions from January 2000 through April 2000 and for the Kashidhoo region from May 2000 through December 2000. CloudVis images for Terra Modis Edition2-QC were generated for the Kashidhoo region from January 2001 through December 2003. Also CloudVis images were generated for Aqua MODIS Edition1A for the Alaska ARM Site from September 2003 through June 2004 and for the Nauru ARM site, TWP ARM site, and the Central Australian region from January 2004 through June 2004. (R. Brown) QC global images and statistics were generated for the VALROS data set as well as Edition2-QC for hourly and daily QC files for 20031231 and hours 07, 13, and 20 as well as difference results between the two datasets. Results were posted on the web as well as a web script to allow for comparison and viewing differences. (R. Brown) Processed S'COOL dataset which included all participating schools. Provided input S'COOL file to FLASHFlux team member. The December 2004 S'COOL dataset was processed and delivered to CM. (R. Brown) Aqua MODIS Edition1A QC statistics seasonal and annual results were generated and posted on the web. Developed seasonal web viewer script for Aqua MODIS Edition1A. Continued cleaning disk space and moving files over to the archive. (R. Brown) Modified MOD06 reader to read 5km SDSs. Designed a scheme to matched 5km MOD06 SDSs to our 2km pixels. Implemented such scheme. (Sun-Mack) Worked with Marjolaine Chiriaco and Helene Chepfer on SIRTa validation paper. Worked on many case by case processing/studies.(Sun-Mack) 	

Table 6: February 9, 2005 - Subsystem Issues and Status (3 of 6)

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack (Cont'd)	<ul style="list-style-type: none"> Processed all Terra and Aqua Texas overpasses that ER2 had flights for. Validated and re-tuned CERES multilayer algorithm. (Chen & Sun-Mack) 	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	<ul style="list-style-type: none"> Tested Terra and Aqua ValROS results (hourly through monthly) produced by warlock under the new Operating System. Aqua has been successfully validated along with Terra monthly. Investigated difference in hourly Terra. These appear to be scientifically insignificant and involve a maximum of a few hundred footprints an hour (out of 100,000). All differences were resolved to be external to the executable. Snow and Ice processor also was successfully validated. (Miller) Processed first hour of combined CERES/MODIS/MISR data in prototype phase. Updated code to read new format of MISR data files provided by Wenbo, calculate relative azimuth, additional radiance channels, and combined all nine cameras. Updated MISR convolution code to handle new input format and additional channels. (Miller) Generated PSF grid for 1.1 km of MISR data. (Miller) Produced slides of MISR data vs. view angle for two footprints. Included MODIS and CERES radiance on same slide. (Miller) Determined representative coverage of MISR for CERES high view zenith angles. (Miller) Completed moving existing daily SSF QC files to nearline storage. Reviewed files on /clouds and /clouds-1. (Miller) 	

Table 6: February 9, 2005 - Subsystem Issues and Status (4 of 6)

SS No.	SS Lead	Status	Problems
4.5	Nolan	<ul style="list-style-type: none"> • PGEs CER4.5-6.1P2, CER4.5-6.1P3, CER4.5-6.2P2, CER4.5-6.3P2, CER4.5-6.3P3, and CER4.5-6.4P1, were successfully tested using the executables created using updated compilers. (Sothcott) • Completed 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 copy Terra FM1 Edition2A SSF subsets into the CERES archive using NLstore. (Sothcott) • Initiated work to copy Terra FM2 Edition2A SSF subsets into the CERES archive using NLstore. (Sothcott) • Continued work to extract Aqua FM3 daytime and nighttime SSF subsets from the ASDC archive and place the files in the CERES archive using NLstore. Eight months of FM3 Edition1B SSF subsets were archived. (Snyder) • Continued work to create lists of SSF subset stored on the CERES archive for both daytime and nighttime subsets in FAPS, RAPS and Along-track modes. (Snyder) • Attended meeting on 2/3/2005 with Lin Chambers and Erika to discuss creation of SSF Subsets over S'COOL sites. (Nolan & Sothcott) • Checked ValOS3 SSF files created at ASDC to be sure that the correct Spectral Correction Coefficients were used. (Nolan) • Archived over a Gig of additional Inversion data using NLstore. Sent report on Inversion disk clean-up to Mike and John. (Nolan) • Initiated work to validate ValROS, ValROS3 and ValROS4 production test runs. (Nolan and Sothcott) 	
4.6	Nolan	Combined with above.	

Table 6: February 9, 2005 - Subsystem Issues and Status (5 of 6)

SS No.	SS Lead	Status	Problems
5.0	Coleman	<ul style="list-style-type: none"> • Verified success of ValOS testing. (Caldwell & Zentz) • Cleaning up SARB disk space by moving files to NLStore and deleting old files. (Caldwell & Coleman) • Obtained Jim Donaldson's version of the Instantaneous SARB Subsystem software. (Coleman) • Moved SARB web pages to cirrus. Continuing to implement features requested by Tom Charlock. (Zentz) 	
7.2	Coleman	<ul style="list-style-type: none"> • Exchanging ideas with Fred Rose for a test version of the Synoptic SARB that uses only CERES cloud properties derived from MODIS data. (Coleman) 	
12.0	Coleman	<ul style="list-style-type: none"> • Accumulating statistics for evaluation and pursuing cause of differences in Regrid MOA results between the 7.4.3 compiler and the previous ones. (Caldwell) 	
7.1	Nguyen	<ul style="list-style-type: none"> • No new updates. 	
8.0	Nguyen	<ul style="list-style-type: none"> • No new updates. 	
10.0	Nguyen	<ul style="list-style-type: none"> • Received new GGEO code from Doelling. Putting new code into SRBAVG code. Continue running and testing for January 2001 SRBAVG. (Nguyen) • Compared ValROS SRBAVG with Edition2C SRBAVG. (Nguyen) 	
6.0	Raju	<ul style="list-style-type: none"> • Preparing for Subsystem 6.0 delivery to CERES CM. (Raju) • Continued to process full month of July 2002 FM1 data at SCF to generate FSW binary product for TISA science team. (Raju) 	
9.0	Raju	<ul style="list-style-type: none"> • Reviewed ValROS output products, and did not find any problems. (Raju) 	

Table 6: February 9, 2005 - Subsystem Issues and Status (6 of 6)

SS No.	SS Lead	Status	Problems
11.0	Stassi	<ul style="list-style-type: none"> There was a problem processing the one-hourly McIDAS flat files for the GOES-10 and GOES-12 data. When using the one-hourly data, the images do not all have the same number of pixels per scanline; but this value is critical in the initialization of the Clouds subsystem routines. Using the maximum value for all images caused an error in the Clouds code. Reinitializing the code for each image is inefficient, and it also had some problems. GGEO inputs do not need to be processed in chronological order, so to manage this, the perl script which selects input files was modified to separate the files by the pixels per scanline value. (Stassi) The July 2004 one-hourly data were processed for the entire month for all five satellites. The Post processor code is still being modified. (Stassi) 	
CERESlib Stassi/Ayers		<ul style="list-style-type: none"> Henry was able to get Toolkit on <i>thunder</i> compiled with the NAG Fortran compiler. The NAG version of CERESlib was compiled and tested on <i>thunder</i>. (Flippo & Stassi) The CERESlib test suite test for IGBP was using the water map file with problems at the pole instead of the corrected file during testing on <i>thunder</i>. This was solved when Sunny moved the problem file to the .ignore subdirectory in the Clouds ancillary directory. The expected output for this test was re-created. (Sun-Mack & Stassi) CERESlib was delivered to CERES CM with the modified TISA Gridding modules. (Stassi) 	