

Table 1: September 12, 2001 - System Issues and Status

Activity	Lead	Status
Processing Strategy	Geier	<ul style="list-style-type: none">• Active processing requests in order of priority are:<ul style="list-style-type: none">- Terra Edition1 Instrument and ERBELike processing for 2001 (outputs from 8/01 set of these runs had bad count conversion and were deleted from archive)- Terra Beta1 and Beta1-overARM CRS using input SSF with same production strategy- TRMM Edition2-VIROnly SSF using simulated IES input- TRMM Edition1/Transient-Ops2/Failing Sensor Instrument and ERBELike processing• Processing requests expected to be active within 3 weeks are:<ul style="list-style-type: none">- TRMM Edition2 SSF using Inversion-only PGE and TRMM Edition2-QC SSF as input- Terra Beta2 SSF and CRS (using MODIS V003 as input) for April and May 2001• Simmering issues:<ul style="list-style-type: none">- ECMWF MOA vs. DAO MOA- Incorporating MODIS aerosols (10 km and gridded) into CERES Terra products- Naming convention and related issues for GGEO and Instrument outputs which will be produced twice, initially without correction and then with correction.

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Activity	Lead	Status
CM	Ayers	<ul style="list-style-type: none"> • See Table 2 for SCCR activity since the last DMT meeting. SCCRs for Subsystems 1-4 that need to be reviewed follow Table 2. (Ayers) • Tested and released the following software packages to the ASDC: TISA Gridding and Instrument. (Ayers) • Delivered latest CRS Sample Read Package to the ASDC. (Ayers) • Posted Delivery Memos on the CERES Configuration Management System Delivery Memos Web page (http://earth-www.larc.nasa.gov/cerescm/DeliveryMemos/) for each of the packages released to the ASDC. (Saunders, Ayers) • Updated the Delivery Schedule to include CERESlib and Instrument deliveries and posted it on the CERES Configuration Management Schedules Web page (http://earth-www.larc.nasa.gov/cerescm/schedules/). (Ayers, Franklin) • Removed Jim Kibler's name from the SCCR approver list and from the SCCR email alias due to his retirement. Added Tom Caldwell and Ricky Brown to the SCCR email alias. (Franklin) • Modified the cm_stats.csh script to include the date as part of the output file name which contains the PGE file sizes information gathered during the SSI&T process. (Franklin) • Corrected a problem with the SCCRs being displayed in the Approve/Disapprove option. (Franklin) • Removed obsolete files used in testing modifications to the cm_stats.csh script. (Franklin) • Initiated modifications to the SCCR viewing code to only display those CERESlib SCCRs submitted by the CERESlib administrator when viewing the CERESlib SCCRs. Currently, the SCCRs submitted by Subsystem Personnel for CERESlib module updates/additions are also listed. (Franklin) • The status flag for SCCR 293 was changed from "approved" to "submitted" via the database, so it could be "disapproved", since it was submitted incorrectly. It should not have been a CERESlib SCCR. (Franklin)

Table 2: SCCR Activity August 27 at 2:00pm - September 10 at 11:30am

SCCR	S	U	A	C	D	SS	Page No.	Comments
284		X				4.1	3	

Table 2: SCCR Activity August 27 at 2:00pm - September 10 at 11:30am

SCCR	S	U	A	C	D	SS	Page No.	Comments
286			X			4.6		Inversion changes in CERESlib
288				X		9.0		
290			X			4.5		
291	X		X	X		5.0		
292	X		X			9.0		
293	X	X	X		X	CERESlib		
294	X					4.4	5	Cloud changes in CERESlib
295	X		X	X		1.0	6	

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

CERES Software Configuration Change Request Submittal

Subsystem: Clouds4.1

SCCR Date: 08/07/2001

SCCR Number: 284

Description of Change (Science):

None

Reason for Change (Science):

None

Description of Change (non-Science):

New MCF files are delivered for SSFI, FQC, and FQCI to handle GRings with more than 72 points.

Reason for Change (non-Science):

Due to the complicated pattern of a polar orbiting satellite, more GRing points are required then TRMM. The SSF header information is being corrupted for Terra processing.

Est. Time to Complete Changes: 2 hours

Planned Delivery Date : 08/07/2001

Impact : Allow VIRS Only processing to start, prevent problems in SS4.5-4.6.

Date: 08/07/2001

Status: APPROVED

Originator: MILLER, WALTER F. (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 284:

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Description of Change (Science):

None

Reason for Change (Science):

None

Description of Change (non-Science):

Implement new GRing module from CERESlib (SCCR 294)

Reason for Change (non-Science):

The CERESlib module contains the latest corrections.

Date & Time: 2001-08-31 12:34:57

Originator : MILLER, WALTER F. (SAIC)

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Description of Change (Science):

Use the MODIS 0.47 micrometer channel when available on even days.

Reason for Change (Science):

Provide scientists with some experience using this channel.

Description of Change (non-Science):

Implement MODIS subset reader (2x2) for Version 1 and 3.

Reason for Change (non-Science):

Version 1 (before April 2001) and Version 3 data needs to be processed.

Date & Time: 2001-08-31 13:21:19

Originator : MILLER, WALTER F. (SAIC)

CERES Software Configuration Change Request Submittal

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

Subsystem: Clouds4.4 SCCR Date & TIME: 2001-08-31 12:37:21 SCCR No.: 294

Description of Change (Science):
None

Reason for Change (Science):
N/A

Description of Change (non-Science):
The module that produces the geolocation polygon (GeoPoly) for the EOS metadata will be moved to CERESlib. This module has also been modified to correct previous errors in determining GeoPoly for Terra. These changes include internally working from -180 to 180 instead of 0 to 360, slightly offsetting the longitude when -180 is needed, and better method to handle data gaps.

Reason for Change (non-Science):
Due to errors in approximately 30 percent of the Edition2-QC GeoPoly, inversion needs to recreate the GeoPoly instead of reading them from the SSFB header. ASDC works with from -180 to 180 when inputting GeoPoly. By working from this perspective, less problems should be encountered. The CERESlib wrapper was converting 360 to 0 thereby closing the GeoPoly. Other problems due to missing data were discovered with more testing.

Est. Time to Complete Changes: 80 hours
Planned Delivery Date : September 6, 2001
Impact : Needed by inversion for TRMM Edition2 processing

Originator: MILLER, WALTER F. (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: Instrument SCCR Date & TIME: 2001-09-04 09:26:54 SCCR No.: 295

Description of Change (Science):

Fix error in determining sample based offsets for count conversion.

Reason for Change (Science):

An error was discovered that caused all offsets to be set to zero, instead of the proper values.

Description of Change (non-Science):

N/A

Reason for Change (non-Science):

N/A

Est. Time to Complete Changes: Changes complete

Planned Delivery Date : 09/07/2001

Impact : All Terra 2001 data must be reprocessed

Originator: COOPER, DENISE L. (SAIC)

Table 3: September 12, 2001 - Subsystem Status

SS No.	SS Lead	Status	Problems
1.0	Cooper/ Escuadra	<ul style="list-style-type: none">• Continue working on TRMM data recovery for 2000. (Szewczyk)• Continue working on Ada HDF BDS read routines. (Escuadra)• Continue working on the new PGE to subset a BDS based on the occurrence of an Internal Calibration event. (Hess)• Working on the Three Channel Intercomparison for the Science Team Mtg. (Spence)• Continue work tracking CERES Terra data arrival at ASDC. (Cooper)• Emergency Delivery made to CERES CM to fix an error determining count conversion offsets. (Cooper)	

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SS No.	SS Lead	Status	Problems
2.0	Kizer	<ul style="list-style-type: none">• Zero values found in winter months at poles for Terra ES-4 plots. Continuing to make changes to eliminate zeroed data in ES-9 when no data is available. (Kizer)• Continuing to look into the possibilities of producing the ES-9 and ES-4 data products on the CERES 1-deg grid. (Kizer)• Rerunning ES-8 subsetted HDF files for Dr. Martial Haeffelin and the CLAMS experiment with newly created ES-8 data. Currently waiting for August 2001 Edition2 ES-8s to be completed for final processing of CLAMS data. (Kizer)• Used ES-8 subsetter software to create a 4 hour ES-8 HDF file for Kam Pui to use in a view-hdf demonstration. (Kizer)• Continuing to determine a systematic approach to validating ES-8 & ES-4 gif files. Developing off-line code to characterize and validate geo-located radiances. Found bit flips not flagged during “3 Channel Consistency Check” in Subsystem 2.0 software. (Walikainen)• Created script to aid QC Report analysis by porting data into Excel Spreadsheets. This was created to help in analyzing flagged Night-time SW averaged offsets. (Walikainen)• Continuing to examine the 'production' email generated by the QC checker software. (Walikainen)• Continuing to inspect ERBE-like Terra and TRMM output plots and QC reports on the Web. (Walikainen, Kizer)	
3.0	Kizer	Combined with above.	

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SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	<ul style="list-style-type: none"> Producing images for ModisBeta1-overARM Cloudvis Subset data. Modified IBM dx .net files and the perl scripts for batch processing to use latest version of dx. (R.Brown) Processed S'COOL data for August 2001. Modified QC code to use MODIS swath ranges and processed MODIS Beta1 results for 200103 and 20010315. (R. Brown) Ran TRMM data for all ARM SGP overpasses from Sept. 98 to Dec 98, on SCF. Averaged the cloud retrieval over ARM SGP and posted the results on the web. Used dx batch tool making gifs for all the ARM SGP overpasses and posted on the web. This is for upcoming CERES STM ARM SGP intercomparison. (Sun-Mack). Worked with Rabi on "archiving" 1x1 MODIS data (Sun-Mack). Updated and tested Clouds delivery (SCCR #284) on samantha (Sun-Mack). Summarized the "stories" for DAO and EC validations, VISST changes, Mask changes for upcoming CERES STM. (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"> Developed a new method to handle GRings that cross both poles. The 10 degree longitude bands are aggregated into larger groups that have gaps less than 40 degrees. This makes it easier to determine which pole an area is connected. Provided 10 hours of data to ASDC for test. The GRings were still not accepted. Ms. Wang provided more insight. (Miller) Provided comments on the Terra Beta1 SSF description. (Miller) Provided Mr. Lyu details on how we correct the thermal leak on the VIRS 1.6 micrometer channel. 	

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SS No.	SS Lead	Status	Problems
4.5	Nolan	<ul style="list-style-type: none"> Continued work to integrate new SW and LW /WN ADM module in PGE 4.5-6.3P1. Also modified module to update binary QC report and output it from this PGE. (Nolan) Updated SSF subset PGE 4.5-6.2P1 to correct scale factor for unfiltered WN radiances and to store surface colat and longitude at 4 byte integers. (Nolan) Modified an SSF dump program that produces a dump of the 5-record sample SSF HDF file for the SSF Sample Read Package and provided it to Mr. Caldwell for his use with the CRS Sample Read Package. (Franklin) Modified the Inversion Operator's Manual to add the binary QC file as input to and output from PGE CER4.5-6.3P1. (Franklin) Made modifications to the CER4.5-6.3P1 software to add in calls to the updated CERESlib GRing module. (Nolan and Franklin) Initiated testing of the Inversion delivery package to be delivered to CERES CM on September 11, 2001. (Franklin) Created a modified copy of the SSF binary read software that would read an SSF without a header. (Franklin) Updated the 'pcf' generator script to read Ms. Nguyen's subsetted SSFs and the header record from the original binary SSFs, modified the source code because there was no header on the subsetted files, and created scripts to create binary SSFs at the SCF for January-August 1998 for Ms. Nguyen using PGE CER4.5-6.3P1. (Franklin) Due to the upgrade of samantha, all input files and source code were copied to lightning, where work continued on producing SSFs for Ms. Nguyen. (Franklin) Work continued on trying to solve a problem Ms. Nguyen was getting using the June 1998 SSF output (in a modified format) from the jobs executed at the SCF. (Nolan and Franklin) Created SSF files using Edition2 ADMs at the SCF for May1-2 for SARB and SSF subset files for those days for TOA flux module validation. (Nolan) A new member of the Inversion Subsystem Team, Aaron Hoppe, joined SAIC on September 4, 2001. 	

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4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Processed two Terra SSFs at the SCF just to double check that Terra data did not have any ill effects on the SARB mechanics. (Coleman) Subsetted TRMM_Beta1 CRS files for January 1998 over the CERES Validation Regions to assist Dave Rutan with his analysis. (Coleman) Provided modifications to the CRS TRMM_Beta1 Quality Summary and Description/Abstract drafts to User Services personnel. (Coleman) Delivered CRS Sample Read package to CM, including a draft of the README file that followed the template supplied by Paula Detweiler. (Coleman) Continuing to work on Web-displayable plots of the CERES Validation Regions. (Caldwell) Processed TRMM Edition2 SSF data through SARB at the SCF for May 1, 1998 for Fred Rose and the upcoming Science Team meeting. (Caldwell, Coleman) 	
7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none"> No new updates. 	
7.1	Nguyen/Raju	<ul style="list-style-type: none"> No new updates. 	
8.0	Raju/Nguyen	<ul style="list-style-type: none"> No new updates. 	
10.0	Nguyen/Raju	<ul style="list-style-type: none"> Run SRBAVG with the use of four different cases of GGEO. Provided the output monthly mean to Dave Young. (Nguyen) Plotted and compared the TISA surface flux with the ground measured surface flux. (Nguyen) Read the latest version of Edition2 QC. Plotted and compared with ground measurement and SSF surface flux. Provided support to the scientists for the CERES Science Team Meeting. (Nguyen) 	
6.0	Raju/Stassi	<ul style="list-style-type: none"> No New Updates. 	

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SS No.	SS Lead	Status	Problems
9.0	Raju/ Stassi	<ul style="list-style-type: none">Run scripts have been updated to remove generated outputs for failed jobs during SS9.2 process. Scripts have been redelivered to CERES CM. (Raju, Stassi)Code has been updated to handle TOA TotalSky SW mean values correctly. Processed SS9 for 199802 and generated SFC binary files. (Raju)	
11.0	Stassi	<ul style="list-style-type: none">Made multiple runs of GGEO subsystem. Ran the February and July 1998 data with calibration adjustment and cloud processing turned off. Then ran the intercomparison code to create recalibration coefficients for both the February and July data. Five more full runs of the February data were run: (1) with recalibrated coeffs, (2) recalibrated coeffs + 5% SW increase, (3) recalibrated coeffs - 5% SW, (4) recalibrated coeffs + 5% LW, (5) recalibrated coeffs - 5% LW. The GGEO outputs from these runs were fed through the Tisa Averaging subsystem. Dave Young found some problems which appear to trace back to the GGEO data. Those problems are being investigated. (Stassi)	
CERESlib Stassi/Ayers		<ul style="list-style-type: none">The GRing.f90 module was added to CERESlib. This version of CERESlib will be delivered to CM as soon as I get positive word from those testing it. (Stassi)	
IST	Flug	<ul style="list-style-type: none">No New Updates.	