

Table 1: October 24, 2001 - System Issues and Status

Activity	Lead	Status
Processing Strategy	Geier	<p>As of 10/22/01</p> <p>Active processing requests in order of priority are:</p> <ul style="list-style-type: none"> • TRMM Beta2 CRS (SCCR# 299) • TRMM FailingSensor BDS (SCCR# 295) <p>Processing requests expected to be active within 3 weeks are:</p> <ul style="list-style-type: none"> • TRMM Beta2 SFC for all months and SRBAVG for Feb 1998 only (waiting on TISA gridding delivery, SCCR# 298) • TRMM Beta2 FSW (waiting on SARB and TISA gridding delivery, SCCR# 298) • TRMM Edition2-VIROnly for Sept '98 through July '01 (waiting on Inversion delivery, SCCR# 302) • Terra Beta1 FSW for March 2001 (waiting on TISA gridding delivery, SCCR# 298) • Terra Beta2 SSF, CRS, and FSW for April and May 2001 (waiting on Inversion and TISA gridding deliveries, SCCR# 302 and SCCR# 298) <p>Simmering issues:</p> <ul style="list-style-type: none"> • ECMWF MOA vs. DAO MOA • Incorporating MODIS aerosols (10 km and gridded) into CERES Terra products • Terra Instrument and ERBElke processing including gain correction, daily spectral response/correction files, and generating baseline and Edition2 output products. • TISA averaging scenario to include intercalibration between geostationary satellites and imager and rerunning GGEO using recalibrated input coefficients and turning on cloud code

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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: Clouds, CERESlib, and Inversion. (Ayers)• Updated the Delivery Schedule and posted it on the CERES Configuration Management (CM) Schedules Web page (http://earth-www.larc.nasa.gov/cerescm/schedules/). (Ayers, Franklin)• Added three fields to the form for modifying SCCRs to match what is on the form for submitting SCCRs: 'Est. Time to Complete Changes', 'Planned Delivery Date', and 'Impact'. Added the fields to the database and changed the code to read in and write out the new fields. (Franklin)• Re-initiated work to add a comments field to the Approve/Disapprove and Close options. (Franklin)• Closed SCCR 299. (Franklin)

Table 2: SCCR Activity October 9 at 12:00pm - October 22 at 12:00pm

SCCR	S	U	A	C	D	SS	Page No.	Comments
284				X		4.1-4.4		
299				X		5		
300				X		4.1-4.4		
301			X			4.5-4.6		
302	X		X			4.5-4.6	4	
303	X		X			CERESlib		
304	X		X			CERESlib		

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

CERES Software Configuration Change Request Submittal

Subsystem: Inversion

SCCR Date & TIME: 2001-10-12 09:34:05

SCCR No.: 302

Description of Change (Science):

1. Modify PGE CER4.5-6.1P1 to use Edition2A SW, LW and WN TRMM ADMs and associated TOA flux modules.
2. PGE CER4.5-6.1P1 will use updated surface flux CERESlib modules including the definition of clear-sky as less than 0.1% clouds.

Reason for Change (Science):

To provide latest code for Terra and VIRS-only SSF processing

Description of Change (non-Science):

n/a

Reason for Change (non-Science):

n/a

Est. Time to Complete Changes: 1 week

Planned Delivery Date : October 19, 2001

Impact : Software for Terra and VIRS-only SSF processing

Originator: NOLAN, SANDY K. (SAIC)

Table 3: October 24, 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. June 2000 data has been processed through ERBE-Like and is being reviewed by Martial. (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 automation to aid in determining gains and spectral correction information in a more timely manor. (Spence)• Continue work tracking CERES Terra data arrival at ASDC. (Cooper)• Attended the NPOESS meeting to discuss what changes are foreseen for the CERES subsystems to process this data. Wrote up an estimate based on the code staying in Ada vs. changing the code to C/F90. Changes in input, output and Toolkit type are foreseen along with updates to handle any changes in the CERES-Like instrument from the current instrument design. The estimates were sent on to John Robbins. (Cooper, Escuadra, Hess)	

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2.0	Kizer	<ul style="list-style-type: none">• Meet with Instrument group and followed up with a meeting with ASDC to discuss time dependent spectral response functions. Spectral correction coefficient code is to be made a PGE. Modifications began to conform the software to production coding rules. Sample input files were sent to Kory Priestly. (Walikainen, Kizer)• Generated June 2 thru June 13, 2000 TRMM data containing corrected SW data supplied by Peter Szewczyk. The data was made available to the Science Team. (Kizer)• Modifications are being made to a test version of SS2 and SS3 software to produce the ES-9 and ES-4 data products on the CERES 1-deg grid. (Kizer)• TRMM-PFM 21 Feb 1998 was reprocessed at the ASDC and found to contain bad data. Problem found with using wrong input file. (Walikainen, 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)• Modification to IDL graphics software to define a satellite view for mapping purposes. (Kizer)• 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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4.1	Sun-Mack	<ul style="list-style-type: none">Continued to work on visualizing TRMM-VIRS Edition2 CloudVis data using DX for ARM SGP site. (R. Brown)Worked on modifying web scripts for generating web pages for Edition2 data. (R. Brown)Implemented MODIS Welch Classifier into the production code. This was coded, debugged, and tested. During the validation stage, lots effort was made trying to figure out why the classifier results didn't look right. Lots testing and communications with Todd. The problem was finally found that the Welch Classifier was trained under a channel (MODIS Chan 22) that does not exist in our 19 channel MODIS file (MOD02SS1). (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">Provided inputs to SSF Edition2A Description Page. (Miller)Developed estimates for NPOESS processing scenario. (Miller)	

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4.5	Nolan	<ul style="list-style-type: none"> Corrected SSF type definition and sent correction to SSF subset users. Submitted this change for the CERES Inversion Web page. (Nolan) Completed modifications described in SCCR 302 for PGE CER4.5-6.1P1. Prepared and sent PGE delivery package to CERES CM on October 19, 2001. (Nolan) Updated Inversion Test Plan and delivered to CERES Documentation on October 19, 2001. (Franklin and Nolan) Updated CERES Delivery Memo for SCCR 302. (Franklin) Completed LOC estimates for modifications for NPOESS processing. (Nolan) Attended conference call meeting for LW model A surface flux algorithm on October 18,2001. (Nolan) Continued modifying the subsetting processor to search for CERES validation regions. (Hoppe) Planned for placing all modifications for CERES validation regions into one module. (Hoppe) 	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Making test runs with corrections to algorithms using the ice particle size. (Coleman) Investigating cause of 2001/03/01 hour 06 failure during production processing. (Coleman) Verifying that variables identified as possibly no longer necessary are indeed no longer necessary. (Caldwell) 	
7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none"> Generated plots of skin temperature data, converted to local time, over 10-deg regions of the western Pacific Ocean from ECMWF-based MOA files in an effort to assist Lin Chambers in identifying a problem in a study she was performing. She later identified the problem as something unrelated to MOA data. (Caldwell) 	

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7.1	Nguyen	<ul style="list-style-type: none"> • Learning tisa algorithms and data products. (Boghosian) • Learning time interpolation methods and directional models. (Boghosian) 	
8.0	Nguyen	<ul style="list-style-type: none"> • No new updates. 	
10.0	Nguyen	<ul style="list-style-type: none"> • Learning time interpolation methods and directional models. (Boghosian) • Modified code to eliminate the GGEO cloud for clear-sky SW TOA flux. (Nguyen) • Validating total-sky SW TOA flux for some of the ARM sites. (Nguyen) • Validating clear-sky LW TOA flux for region 35854. (Nguyen) • Re-read SSF Edition2 QC and output the requested parameters from Anand Inamdar. (Nguyen) • Re-read SSF Edition2 QC and output requested parameters from Anne Wilber. Writing code to compare the SW surface flux model A of SSF and ARM ground data. For every matched point, write out the time and the requested parameters. (Nguyen) • Modified code and re-plotted the scatter plots for the Central facility, the Extended ARm sites and CMDL, BSRN using the new method of 60 minute averaging data. (Nguyen) 	
6.0	Raju	<ul style="list-style-type: none"> • No new updates. 	
9.0	Raju	<ul style="list-style-type: none"> • Looking into SFC HDF design to generate SFC products in ERBE-like ES-9 format This format change was suggested by TISA science members. (Raju) 	

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11.0	Stassi	<ul style="list-style-type: none"> Ran another test through GGEO to test the correction to the clearsky LW values. This test was done on GOES-9 data where the problem had been previously observed. These tests show that the correction in the Clouds code worked. A new problem was found in test on the METEOSAT data, but it apparently is an unrelated problem. (Sun-Mack, Nguyen, Stassi) Made changes to output locations for the intercomparison processes. Studying process by drawing design diagrams. (Stassi) Updated GGEO to handle new naming scheme for Clouds Welch files. (Stassi) Modified the validation code on thunder so that it links directly to the Clouds subsystem directories rather than using a separate copy of the Clouds code. (Stassi) 	
CERESlib Stassi/Ayers		<ul style="list-style-type: none"> The NAG Fortran compiler has been loaded to the linux cluster. Compiling CERESlib there went much smoother but still waiting for the completion of the Toolkit compilation before finishing the CERESlib work. (Stassi, Loper) Added an executable file, grid_interactive.exe, to the \$CERESLIB/bin directory. This program can be used to interactively run the procedures in the reference_grid module; for instance, to find the region number associated with a certain longitude/latitude pair. (Stassi) Delivered CERESlib to CM with changes for the Inversion subsystem. (Stassi) 	
IST	Flug	<ul style="list-style-type: none"> No new updates. 	