

Table 1: November 7, 2001 - System Issues and Status

Activity	Lead	Status
Processing Strategy	Geier	<p>As of 11/5/01</p> <p>Active processing requests in order of priority are:</p> <ul style="list-style-type: none"> • TRMM Beta2 SFC for all months and SRBAVG for Feb 1998 only (SCCR# 298) • TRMM Beta2 CRS (SCCR# 299) • TRMM Edition2-VIROnly for Sept '98 through July '01 (SCCR# 302) • 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 FSW (waiting TISA gridding delivery, SCCR# 298) • Terra Beta1 FSW for March 2001 (waiting on TISA gridding delivery, SCCR# 298; on hold due to Terra Beta1 SSF problems) • Terra Beta2 SSF, CRS, and FSW for April and May 2001 (waiting on Cloud and TISA gridding deliveries, SCCR# ??? and SCCR# 298) <p>Special Notes:</p> <ul style="list-style-type: none"> • Terra Beta2 SSF processing had started and made it through a couple weeks. However, problem in Cloud processing was discovered. All Beta2 SSFs were removed from spinning disk and archive. Cloud problem also exists in Terra Beta1 SSFs. All Terra processing using Beta1 SSFs on hold and SSFs are not publicly available at this time. Terra Beta1 SSFs have been screened to determine files with most problems. These files will permanently be removed from public view. All other Terra Beta1 SSFs will go public as soon as Bruce W. reviews Quality Summary. • TRMM Edition2-VIROnly SSF is ready to begin production, but will be held by LaTIS until TRMM Beta2 SFC processing completes. <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)• Working with TISA Gridding to determine reason for core dump that occurred during operational testing (Software Problem Report # 00092). (Ayers)• Continued work to add a comments field to the Approve/Disapprove and Close options. (Franklin)• Completed work on the problem with closing SCCRs and tested using the real CM database on lposun. (Franklin)• Initiated work to modify the cm_stats.csh script to put the 'PCF_template' files in the 'SMF/PCF' category instead of the 'Ancillary Data' category. (Franklin)• Ftp'd the TISAgird files from the latest delivery from lightning to samantha to test the updated cm_stats script. (Franklin)

Table 2: SCCR Activity October 22 at 12:00pm - November 5 at 4:55pm

SCCR	S	U	A	C	D	SS	Page No.	Comments
301				X		4.5-4.6		
302				X		4.5-4.6		
303				X		CERESlib		
304				X		CERESlib		
305	X					4.5-4.6	4	
306	X					1.0	5	

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

CERES Software Configuration Change Request Submittal

Subsystem: Clouds

SCCR Date & TIME: 2001-11-05 11:21:03

SCCR No.: 305

Description of Change (Science):
Added MODIS welch classifier.

Reason for Change (Science):
1. add new algorithm

Description of Change (non-Science):
1. Fixed bug in calculating view zenith angle bins in Binned QC code.
2. Expand the up-limit of view zenith angle bin from 50 degree to 70 degree in Binned QC code.

Reason for Change (non-Science):
1. To correct calculating view zenith angle bins in Binned QC code.
2. To allow for viewing zenith angle above 50 degrees.

Est. Time to Complete Changes: 3 weeks
Planned Delivery Date : 11/16/01
Impact :

Originator: BROWN, RICKY R. (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: Instrument

SCCR Date & TIME: 2001-11-05 16:48:24

SCCR No.: 306

Description of Change (Science):

N/A

Reason for Change (Science):

N/A

Description of Change (non-Science):

1. Update Aqua Input and PCF file generators to handle Noon to Noon ephemeris files.
2. Update QC report module to correctly report geolocation viewing (Earth, MAM, etc.)

Reason for Change (non-Science):

1. Upcoming Mission Test #2 will use the new Noon to Noon ephemeris file format and the production runs are required to run at ASDC.
2. The QC report currently shows all geolocation views as 0% -- these are internal QC reports only.

Est. Time to Complete Changes: 1 week

Planned Delivery Date : Nov. 16, 2001

Impact : None to current production processing

Originator: COOPER, DENISE L. (SAIC)

Table 3: November 7, 2001 - Subsystem Status

SS No.	SS Lead	Status	Problems
1.0	Cooper/ Escuadra	<ul style="list-style-type: none"> • Began taking over the intercalibration studies from Martial. (Szewczyk) • Began testing the Ada HDF BDS read routines by writing the start of the program to subset the BDSs creating BDSIs. (Escuadra) • Continue working on the PGE to create the gain history file from the new BDSI files. Waiting for completion of the BDSI subsetter to complete the program. (Hess) • Continue 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) 	
2.0	Kizer	<ul style="list-style-type: none"> • Efforts continued to conform the Spectral Correction Coefficient generation software to production coding rules. (Walikainen, Kizer) • Evaluated the EOS CERES Instrument Data web page containing subsetted ES-8 data and supplied suggestions to Erika Geier. (Kizer) • Modifications continued on test version of SS2 and SS3 software to produce the ES-9 and ES-4 data products on the CERES 1-deg grid. (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) • 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">Continued to work on producing CloudVis images and working on new web pages for displaying results. (R.Brown)Modifying QC code to use one set of code for VZA, Zonal, ZonalCloudAmount for processing MODIS and VIRS data. (R.Brown)Received the final welch database for both old modis chan and new modis chan. Implemented this into the production code, and validated the results with Todd. (Sun-Mack)It was noticed that MODIS-Beta2 produced couple of "big" log files for each processing hour, but the runs were successfully finished and shutdown. Looked into this and especially the impact on SSFs and Clouds outputs when "big" log files occurred. Found the problem that caused the "big" files (in Binned QC code). (Sun-Mack)Got ivics working. Sat down with Yan to go over it. (Sun-Mack, Chen).	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	

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SS No.	SS Lead	Status	Problems
4.4	Miller	<ul style="list-style-type: none">• Produced counts on negative albedo, total aerosol optical thickness (AOT), default surface type, and total footprints for all TRMM Edition2A. Negative albedo occurred in all months approaching 8 percent of footprints with AOT on some days. Default surface types averaged 0.2 percent of total footprints. (Miller)• Responded to some invalid cloud data on two hours of Edition2A SSF for Ms. Coleman. The problem was not in the Edition2-QC file used to generate Edition2A, so requested Ms. Nolan to investigate. (Miller)• Started modifications to Stowe's second generation software so it can be run by Dr. Loeb using subset data. (Miller)• Determined SSF Terra Beta1 hours that had large amount of bad data so they could be pulled from the archive. These hours were affected by a clouds memory leak. (Miller)• Investigated Terra Beta2 clouds production problems. Some were caused by input data problems. The other was tracked to a clouds code problem. (Miller)• Created daily binary QC files for Terra Beta1 SSFs. (Miller)• Provided inputs to SSF Edition2A Description Page. (Miller)• Updated estimates for NPOESS processing scenario. (Miller)	

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4.5	Nolan	<ul style="list-style-type: none"> Continued to examine March 98 TRMM Edition2A SSFB files for errors. SARB found a problem with March 01, 1998 hour 6 Footprint= 22610 and TISA found a problem with Edition2A SSF for March 9, 1998 hour 15 Footprint= 7523. The cloud properties on both footprints were incorrect. The cloud properties were correct on the Edition2-QC SSFs and should have just been copied directly to the Edition2A SSFs by the Inversion Subsystem. When I re-ran the hours at the SCF, the footprints in question were correctly copied. From looking at the TOA fluxes and selected ADM types on the DAAC produced SSFs, it looks like the error happened on the read for the problem footprint records. The records that were read before and after the problem footprints were correct. The SSFB files were both produced on 10/04/98 (2001-10-04T19:55:31 and 2001-10-04T21:50:06) Additional investigation is continuing. (Nolan) Attended subsystem meetings to discuss LOC estimates for modifications for NPOESS processing. (Nolan) Modifications were made to the Inversion post-processor which now allows user to set flags to 'turn on or off' the production of the day/night SSF Subset files and validation regions SSF products. (Hoppe) Began modifying a copy of the processor which produces a NADIR product from the ERBE-like data to create a NADIR SSF product. (Hoppe) 	
4.6	Nolan	Combined with above.	

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SS No.	SS Lead	Status	Problems
5.0	Coleman	<ul style="list-style-type: none">• Developing a version of the code that will generate a diagnostic version of the CRS file over a small subset of FOVs. In addition to the data currently written to the CRS, this version will contain fluxes at all levels produced for each cloud layer. Ultimately, this version will replace current version, and the what is written to the output file will be managed by flags. (Coleman)• Verifying that specified variables are no longer necessary to keep in the code. (Caldwell)• Tracked cause of March 1, 1998, hour 6 failure at ASDC to erroneous cloud properties, which were apparently the result of the input file having been corrupted. (Coleman)	
7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none">• Worked with Cathy Nguyen to add MOA temperature profiles to files sent to Anand Imandar. (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.	

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10.0	Nguyen	<ul style="list-style-type: none"> Investigated how well the eight most prevalent scene types represent a region for use in the angular directional models (ADM's) as requested by Martial Haeffelin. (Boghosian) Investigated the accuracy of the albedo as calculated from the ADM's. (Boghosian) Working with Martial Haeffelin in adding the new method of computing SW TOA flux using the new SW ADMs. (Nguyen) Clear-sky LW TOA flux of region 35854 and the surrounding regions were off the range. Investigation shows that the surface type percentages were not added up to 100% and also the old GGEO file with uncorrected cloud informations was used. Used the new correct GGEO and SFC to test and the problem of clear-sky LW TOA flux of region 35854 was solved. (Nguyen) Read and write SSF Edition2 QC requested parameters for Anand Inamdar to ascii files. Sent the SSF data files to Tom Caldwell to add the temperature profiles. All the requested parameters from SSF and MOA for the validation regions were provided to Inamdar. (Nguyen) Completed the scatter plots of day and night of SSF and ground data for clear-sky and total-sky LW downwelling flux. (Nguyen) 	
6.0	Raju	<ul style="list-style-type: none"> Looking into the problem to find the cause for the 1998010100 and 1998020100 failed jobs during DAAC testing. (Raja). 	
9.0	Raju	<ul style="list-style-type: none"> To provide the requested inputs for TISA ADM algorithms testing purposes, number of LW and SW angular scene were increased from 20 to 32 and modified the code to process and write data on to SFC product. Subsystem 9 was processed off-line and generated February 1998 SFC product. (Raju, Stassi) 	

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11.0	Stassi	<ul style="list-style-type: none">• Modified the IDL plot program for the intercomparison plots so that repeated sequences of code are moved into subroutines which are called multiple times. (Stassi)• Reran data for February 1998 for all four input satellites using latest version of Clouds subsystem code. Provided an ASCII dump of certain cloud parameters for region 35853 to Dave Young as requested. (Stassi)• Updating GGEO Operator's Manual to include seven new PGEs. Using documentation updates to drive modifications needed in the scripts. (Stassi)	
CERESlib Stassi/Ayers		<ul style="list-style-type: none">• Created two test versions of CERESlib for the Tisa Gridding subsystem as requested by Raja. (Stassi)• Compiled CERESlib on the linux cluster using the NAG compiler. Some problems with the HDF5 libraries remain. Working with Dave Loper and Henry Flippo to resolve these problems. (Stassi)	