

Table 1: April 11, 2001 - CM Status

SS No.	SS Lead	Status	Problems
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)• Released the TISA Gridding delta delivery to the ASDC. (Ayers)• Updated TISA Averaging and CERESlib files in SSI&T at the ASDC. (Ayers)• Continued to update the software to add a status flag for the updated SCCRs and a comments section for approvals and disapprovals. (Franklin)• Updated the PGE Sizes Tables for the latest deliveries and posted them to the CM Home Page. (Saunders, Franklin)• Modified the cm_stats.csh file (that creates the PGE Sizes information) to convert ancillary data file sizes to MB if the file size is larger than one Megabyte. (Franklin)• Modified the code to send email to K. Priestley, D. Young, D. Kratz, P. Minnis, and N. Loeb when an SCCR is submitted for a subsystem for which they are responsible. (Franklin)• Added a separate button on the CM Home Page for SCCR closures. (Franklin)• Removed the email notification for SCCR closures. (Franklin)• Modified the SCCR display to include dates and times for SCCR submittals, approvals, disapprovals, and closures. (Franklin)	

Table 2: SCCR Activity March 26 at 12:15pm - April 9 at 2:00pm

SCCR	S	U	A	C	D	SS	Page No.	Comments
236				X		2&3		
237				X		1		
241		X				4.1-4.4	3	
242				X		4.5-4.6		
249				X		5		
250		X		X		CERESlib		
251				X		12		
252	X	X	X	X		9		
253	X	X	X			9		

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

CERES System Configuration Change Request Submittal

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Subsystem: Clouds SCCR Date: 02/12/2001 SCCR Number: 241

Description of Change (Science):
None.

Reason for Change (Science):
None.

Description of Change (non-Science):
Process Control File generator script has been modified to update Toolkit version from 5.2.6 to 5.2.7.

Reason for Change (non-Science):
To accommodate Toolkit version update.

Estimates Man Power: Done
Schedule : February 23, 2001
Impact :N/A

Date: 02/12/2001 Status: APPROVED

Originator: SUN-MACK, SUNNY (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 241:

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Description of Change (Science):
None

Reason for Change (Science):
N/A

Description of Change (non-Science):
Deliver the PFM PSF ancillary file with name change to accommodate SIM processing.

Reason for Change (non-Science):
The PSF file is instrument specific.

Date & Time: 2001-02-12 09:23:20
Originator : MILLER, WALTER F. (SAIC)

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Description of Change (Science):

None

Reason for Change (Science):

None

Description of Change (non-Science):

Turn off certain parameter fields in CloudVis and CloudVis Subset.

Reason for Change (non-Science):

To reduce CloudVis output size and CloudVis Subset output size.

Date & Time: 2001-03-06 14:23:01

Originator : SUN-MACK, SUNNY (SAIC)

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Description of Change (Science):

None

Reason for Change (Science):

None

Description of Change (non-Science):

Process Control File generator script has been modified to reflect the fact that DAO MOA is a hourly file before January 1st, 2000 and a every 6-hour file after January 1st, 2000.

Reason for Change (non-Science):

- (1) To handle two types of DAO MOA produced before and after January 1st, 2000.
- (2) To accommodate CERESLIB update related to MOA reading routines.

Date & Time: 2001-03-28 11:39:56

Originator : SUN-MACK, SUNNY (SAIC)

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Table 3: April 11, 2001 - Subsystem Status

SS No.	SS Lead	Status	Problems
1.0	Cooper/ Escuadra	<ul style="list-style-type: none"> Continuing SS1 scan and output redesign. (Escuadra) Continue tracking receipt of Terra Data receipt at LaRC. As a result of Jim Kibler's request for ephemeris and attitude data, several files that had been received at ASDC were discovered and all the reports and web pages were updated to include this overlooked data. (Cooper) Updated the SS1 Operator's Manual sent to CM for formal delivery to ASDC. (Cooper) Continuing work on the program to repair SW radiances from TRMM data from the end of March 2000 through mid-April 2000 and June 2000. (Szewczyk) Continuing analysis of Terra data, radiance, coastline detection, instrument housekeeping and Moon Viewing data. (Hess, Spence, Szewczyk) An error in conversion of radiances in recent BDSs was found and tracked down to an error in the instrument portion of SS1. Data until after the lunar scan on April 8 will not have converted radiances. The data will have to be processed at the SCF as necessary for analysis. The code fix will be included in the next delivery scheduled for June 8, 2001. (Hess, Spence) Continue work to verify Terra operations. (Weaver) 	

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SS No.	SS Lead	Status	Problems
2.0	Kizer	<ul style="list-style-type: none"> At the request of Erika Geier (RAB), generating LW, SW and Albedo Polar plots for Bruce Wielicki (RAB). Kam-Pui was able to enhance view_hdf to help in achieving this task. (Kizer) Continuing to work with Bing Lin (RAB) to statistically analyze TRMM 1998 ES-8 data. Generated first step in analyzing data (Kizer) Edited Richard Green's code to generate MAP. Confirmed his results for nadir-only data (Walikainen) Processed 130+ full scan FM1/FM2 ES8s, or 660 million data points for FM1/FM2. Verified a known anomaly found by 3 channel check (FM2 6/21/00). (Walikainen) Determined acceptable tolerance (~15 standard deviations) for LW unfiltered radiance so that we have a probability of approximately 1 in 5 million (124 measurements from 660 million) that a measurement exceeds the tolerance. (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.	
4.1	Sun-Mack	<ul style="list-style-type: none"> Processed S'COOL data for March 2001. (Brown) Produced preliminary images for zonal means statistics from January-August 1998 TRMM Edition1 and posted on the web. Working on improving images and modifying scripts to produce batch file for automation. Made changes to Zonal Means QC code. (Brown, Chen) Cloud SCCR 241 Delivery. (Brown, Sun-Mack) Completed implementing MODIS algorithm: CO2 slicing algorithm. Currently validating the results. (Sun-Mack) Participated MODIS subsetting discussions. Wrote a draft of MODIS subsetting specifications for Bruce B. to view. (Sun-Mack) 	

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4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	<ul style="list-style-type: none">• Produced scatter plots for VIRS 10.8 vs. 11.9 for May 26, 1998. Calculated monthly mean slope and intercept between these two channels when 10.8 micrometer is less than 2.5 W m⁻² sr⁻¹ m⁻⁶ using the SSF subset data. Began accumulating statistics for the unrestrained values. Dr. Minnis will try to develop a correction. (Miller)• Reviewed Terra ValidationR1 processing for January 5, 2001. Only had one hour missing a significant amount of input data (4 granules). (Miller)• The samantha TRMM SAR was run. Results showed a little larger IO at the beginning of the run then on lightning. (Miller)• Determined the availability of MODIS data at the ASDC. Reviewed production schedule. (Miller)• Investigated the missing cloud IR emissivities on the SSF. Besides not placing them on the SSF at night, it was discovered about 10% of time these values exceed the old limit of 1. Preliminary solution is to raise limit to 2. (Miller)• Discussed file naming strategy for Terra dual instrument processing at the SEC. (Miller)• Provided information on the MODIS aerosol products to Drs Barkstrom and Wielicki. (Miller)	

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SS No.	SS Lead	Status	Problems
4.5	Nolan	<ul style="list-style-type: none"> Completed testing of second version of the CERES Shortwave ADM module from Norman Loeb. (Nolan) Initiated testing of second version of the CERES Longwave ADM module from Nitchie Manalo-Smith. Reported coding errors to Nitchie. (Nolan) Modified new shortwave and longwave ADM modules to use new ADM structure and added modules (without Toolkit calls) to the CERES Inversion code. Tested new code with 14 hours of SSF data. Added code to count number of TOA fluxes that are set to default and trace causes. The primary cause for LW and WN TOA fluxes being set to default was missing IR emissivity on SSF footprints. (Nolan) Began adding Toolkit calls to ADM modules to open and close ancillary data files. (Nolan) Provided software for Costy Konstantin's work with the Longwave ADM module. (Nolan) 	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Added logic to check against cloud ice particle sizes less than 20 microns, as the Fu-Liou model does not do well with such data. The data are processed, but the differences between the initial and constrained LW values are over 500 W m⁻². (Coleman) Added capability to use either the Collins aerosol assimilation (7 constituents) or the GFDL climatology (5 constituents). In the event that the GFDL is used, the last two values written to the CRS will be zero. (Coleman) Corrected logic that defines the sources for the aerosol climatology and the surface albedo used for processing the FOV. (Coleman) Added logic to compute and use constrained values for the aerosol constituents. (Coleman) 	
7.2	Coleman	Combined with above.	

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SS No.	SS Lead	Status	Problems
12.0	Coleman	<ul style="list-style-type: none"> Added and tested logic to the Regrid MOA Subsystem to handle new grids for the ECMWF input data (MOA grids will not change). (Caldwell) Verified the date of the ECMWF grid change. (Caldwell) Tested logic to handle version number changes in the DAS input filenames. (Caldwell) 	
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"> Updated PCF generator scripts to include all .gif file names in the PCF file for SS10 process at the DAAC. (Raju) Redeliver the PCF generator scripts and some of the source code. (Nguyen) Plotting the time history of the measured surface flux data for the ARM sites and SSF Edition 1 data. (Nguyen) Using Dave Young's albedo normalization code to update SS10 code. (Nguyen) Started looking into intercomparison code to read meta data from GGEO file to get GEO satellite information into the process. (Raju) 	
6.0	Stassi/Raju Nguyen	<ul style="list-style-type: none"> Writing program to compare two FSW binary files, item by item. (Stassi) 	
9.0	Stassi/Raju Nguyen	<ul style="list-style-type: none"> Modified run scripts to correctly capture error code and to send email for unsuccessful job completion. These changes were delivered to CM and promoted to production. (Stassi) Modified post_moa_processor.f90 program to recognize gridded MOA data which is originally from a GEOS-3 MOA source. This change will be delivered after it is tested. (Stassi) Wrote program to compare two SFC binary files, item by item. (Stassi) 	
11.0	Stassi/Fan	<ul style="list-style-type: none"> No updates. 	

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SS No.	SS Lead	Status	Problems
CERESlib Stassi/Ayers		<ul style="list-style-type: none">• No updates.	
IST	Flug	<ul style="list-style-type: none">• No updates.	