

Table 1: May 9, 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 and Instantaneous SARB deliveries to the ASDC. (Ayers)• Updated MOA files in SSI&T at the ASDC. (Ayers)• Updated the PGE Sizes Tables for the latest deliveries and posted them to the CM Home Page. (Saunders, Franklin)• Updated the Delivery Schedule and posted it on the CERES Configuration Management Schedules Web page (http://earth-www.larc.nasa.gov/cerescm/schedules/). (Ayers, Franklin)• Updated the Naming Conventions Table and posted it on the CERES Web page (http://earth-www.larc.nasa.gov/cerescm/NamingConventions/). (Ayers, Franklin)• Updated the SCCR Web application code to email the SCCR Approval Notifications only to the Approvers. (Franklin)• Updated the SCCR submittal form to clarify that a CERESlib Change set to 'YES' means that changes described in the SCCR will be made only in CERESlib. (Franklin)• Modified the Web application code to send email to K. Priestley, D. Young, D. Kratz, P. Minnis, and N. Loeb when an SCCR is updated for a subsystem for which they are responsible. Previously, the email was sent only when the SCCR was originally submitted. (Franklin)• Added the SCCR's Estimated Man Power, Schedule, Impact, and Originator to the 'Approval Request Notification' email. (Franklin)	

Table 2: SCCR Activity SCCR April 23 at 2:00pm- May 7 at 3:00pm

SCCR	S	U	A	C	D	SS	Page No.	Comments
241				X		4.1-4.4		
246		X				5		
247				X		11		
253				X		9		
254		X		X		12		
255			X	X		4.1-4.4		
256				X		9		
257				X		CERESlib		
258	X					4.6	3	
259	X					4.5-4.6	5	
260	X	X	X			12		

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

CERES System Configuration Change Request Submittal

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

Subsystem: Inversion4.6 SCCR Date & TIME: 2001-04-30 12:32:25 SCCR No.: 258

Description of Change (Science):

The following changes are being made to the SW and LW surface flux modules and the associated IO module, surf_type:

1. surf_typdef.f90

Added subroutine read_csalb to open, read, and close ERBE clear-sky albedo table

Added parameter optdepth_mn to surf_io_type structure

Changed upper limit of emiss_ir_mn to 2.0 (see ssf_typdef)

2. surf_sw_model_a.f90

Modified code to set clear-sky definition to at least 95% clear

3. surf_sw_model_b.f90

Modified Staylor Algorithm now computes downward and net SW surface flux for both clear and cloudy sky. Modified code uses ERBE clear-sky albedo table

4. surf_lw_model_a.f90

Changed clear sky definition parameter, clr_cutoff, (which sets clear-sky definition to at least 95% clear) from type integer to 4-byte real

5. surf_lw_model_b.f90

Modified code so that when the total of the overlap condition percentage array is between 75 and 105 percent, then array will be scaled so that the sum of the values equal 100 percent

Reason for Change (Science):

Changes requested by Surface Flux Working Group

Description of Change (non-Science):

n/a

Reason for Change (non-Science):

n/a

Estimated Man Power: n/a

Schedule : CERESlib delivery on May 4, 2001

Impact : TISA averaging also uses these CERESlib modules

Originator: NOLAN, SANDY K. (SAIC)

CERES System Configuration Change Request Submittal

Subsystem: Inversion

SCCR Date & TIME: 2001-04-30 15:29:17

SCCR No.: 259

Description of Change (Science):

Delivery of a New PGE, CER4.5-6.3P1, which creates an SSF using a binary Edition1 SSF as input and replaces only TOA and surface fluxes. The TOA fluxes are created using the Draft TRMM ADMs. If TOA fluxes cannot be created for a footprint, then the Edition1 TOA flux from the original binary SSF will be written to the new SSF. The surface fluxes will be created using modified versions of the surface fluxes modules in CERESlib. The major surface flux change is in the SW Model B algorithm, which now creates SW downward and net fluxes for both clear and cloudy sky. (See SCCR 258)

Reason for Change (Science):

To produce new fluxes using Draft TRMM ADMs and modified surface flux algorithms.

Description of Change (non-Science):

New production environment variables, SS4_6, PS4_6 and CC4_6 will be required

Reason for Change (non-Science):

To provide environment variables to create the input binary SSF file names.

Estimated Man Power: 2 weeks

Schedule : CM delivery May 18, 2001

Impact : Software to be used to produce Beta2 TRMM SSFs

Originator: NOLAN, SANDY K. (SAIC)

Table 3: May 9, 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. Available Terra web pages are now being maintained on a daily basis, other reports will now be distributed on a monthly basis. (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) Continue work to verify Terra operations. (Weaver) 	
2.0	Kizer	<ul style="list-style-type: none"> Continuing efforts to verify ERBS 19850413 data using new type ADMs in current CERES ERBE-like inversion code. (Green, Kizer) ERBE-like inversion software has several additions to process ERBE data files. Three flags introduced to process new or original ADMs, SW nfov offset or SW thermal offset, and new or original SCC algorithms. Continuing to examine Three Channel Consistence Check. Associated suspect data with sun glints or bit flips. (Walikainen) Regenerated 'master' Spectral Correction Coefficients, slope-intercept day/night files for ERBE reprocessing project. (Walikainen) Added code to QC checker to accommodate differences between new and original ADM categories (from 7 to 9). This changed the line number TOTAL appears in page 3 of the QC report. (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.	

Table 3: May 9, 2001 - Subsystem Status

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	<ul style="list-style-type: none"> Implemented MODIS Cloud Phase algorithm into production code. Ran 2 cases and posted the results on the web. The results looked pretty good. (Sun-Mack) Implemented 2x2 into MOD06 processing, run some granules sent by Madison people, did cloud retrieval intercomparison and posted on the web. (Sun-Mack) Implemented a new version of Baum's CO2 slicing. The results looked very spotty. (Sun-Mack) Process 2 days of MODIS at SCF. (Sun-Mack) Produced Cloudvis images and web pages for MODIS Mask Conference. (Brown) Investigated failed hours from ASDC Terra processing. (Sun-Mack) Produced QC results for MODIS(20001110 + 20001118). Started modifying off-line QC code to handle different angle ranges for MODIS data. (Brown) Reviewed MODIS Subset specification. (Sun-Mack) Investigated 10% increase in cloud fraction. (Sun-Mack) Worked on developing and testing DX batch program. (Brown) 	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	<ul style="list-style-type: none"> Produced a file containing shortwave-related data from the SSF for over the Great Plains ARM site for February through April, 1998. (Miller) Monitored Terra Alpha production. Verified the reason why some IES were FAILED or unavailable. (Miller) Investigated VIRS Level 1B product. Discovered detector and blackbody temperature counts. (Miller) 	

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SS No.	SS Lead	Status	Problems
4.5	Nolan	<ul style="list-style-type: none"> Continued testing second version of the CERES Shortwave ADM module. (Nolan) Continued testing of the CERES Longwave ADM module from Nitchie Manalo-Smith. (Nolan) Modified Shashi Gupta's LW Surface Flux Model B module and completed testing. (Nolan) Continued work to create new PGE CER4.5-6.3P1 which will only replace TOA and surface fluxes on Edition 1 TRMM SSFs. (Nolan) Continued modifying Inversion Test Plan and Operator's Manual to include PGE CER4.5-6.3P1. (Nolan) Provided code and support for using the SSF subsets to Avrind Gambheer and Jim Coakley. (Nolan) Provided Richard Green with a copy of the new SW ADM module. (Nolan) Provided Joe Stassi with new versions of CERESlib modules, surf_typdef.f90, surf_sw_model_a.f90, surf_sw_model_b.f90, surf_lw_model_a.f90, and surf_lw_model_b.f90 and their associated README files. (Nolan) Attended CERES Science Team Meeting. (Nolan) 	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Delivered updated SARB code to CM, along with versions of Test Plan and Operator's Manual that incorporated comments received from users. (Coleman) Working on definitions for new CRS parameters included with recent delivery for inclusion in Collection Guide. (Coleman) 	
7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none"> Modified PCF generator to verify that, when using ECMWF data as input, the input file containing information regarding the number of input vertical levels exists. If not, a default number of levels is assigned, and a PCF is generated regardless. This has been sent to ASDC in response to a minor problem encountered when executing the Regrid MOA Subsystem using APGS. (Caldwell) 	

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SS No.	SS Lead	Status	Problems
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"> Modifying the code to replace the column cloud with the layer cloud. (Nguyen) Worked on the TISA averaging code to identify the modules which are common to all three subsystems and created a library. (Raju) Started running SS10 and SS7.1 processes using the library setup and verifying the generated outputs. (Nguyen, Raju) Supported Dave Kratz for the CERES Science Team Meeting. (Nguyen) 	
6.0	Stassi/Raju/Nguyen	<ul style="list-style-type: none"> Combined with SS 9.0. (Stassi) 	
9.0	Stassi/Raju/Nguyen	<ul style="list-style-type: none"> Reading through the Tisa Gridding code for understanding. (Stassi) Moved the routines which access swath footprint limits from the gridding_pcf module to the swath module since these values are read from the header of the input file and are no longer included in the PCF. (Stassi) Wrote a program to read the SFC hour files, in order to better understand some problems occurring during PGE CER9.2P1 processing. (Stassi) 	
11.0	Stassi/Fan	<ul style="list-style-type: none"> Modified the GGEO main processor input file generator so that the names of the cloud parameter gif files are added to the IMG file. This change was delivered to CM and promoted to production. (Stassi) Updated the GGEO Test Plan and Operator's Manual with modifications suggested by ASDC. (Stassi) Assisted ASDC with environment setup for GGEO testing and processing. (Stassi) 	
CERESlib Stassi/Ayers		<ul style="list-style-type: none"> No changes. 	

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