

Table 1: February 28, 2001 - CM Status

SS No.	SS Lead	Status	Problems
CM	Ayers	<ul style="list-style-type: none">• SCCRs submitted since last DMTM for Subsystems 1-4: 242 & 243 (see following pages); Other SCCRs submitted since last DMTM: 244-247; SCCRs updated since last DMTM: 247; SCCRs approved since last DMTM: 244-247. (Ayers)• Released the CERESlib delivery and the Clouds delta delivery to the Langley ASDC. (Ayers)• Provided information on old Delivery Memos to the ASDC to assist them in updating a database. (Ayers)• Updated the Delivery Memo template and the sample Delivery Memo and posted them on the CERES Configuration Management Web page (http://earth-www.larc.nasa.gov/cerescm). (Ayers, Franklin)• Modified the SCCR code to automatically set the status of submitted SCCRs to “Approved” except for those associated with archived products. (Franklin)• Added a “Comments” section to the SCCR approval web page - currently on the development machine only. (Franklin)• Updated the CERES CM web pages as needed. (Franklin)	

CERES System Configuration Change Request Submittal

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*** Changes described in this SCCR were made in CERESlib. ***

Subsystem: Inversion SCCR Date & TIME: 2001-02-14 15:17:59 SCCR No.: 242

Description of Change (Science):

N/A

Reason for Change (Science):

N/A

Description of Change (non-Science):

Added ssf2hdf_params.f90 file to CERESlib. This file contains all the code from Inversion's ssf2hdf code that is common to both the Inversion and SARB subsystems.

Reason for Change (non-Science):

Code that can be used by both subsystems should be in one CERESlib module. This will eliminate duplicate changes being made to Inversion and SARB each time the ssf_typdef module is updated in CERESlib.

Estimated Man Power: Completed

Schedule : To be included in next CERESlib delivery.

Impact : Both Inversion and SARB will use this module.

Originator: FRANKLIN, CARLA B. (SAIC)

CERES System Configuration Change Request Submittal

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Subsystem: Inversion4.5 SCCR Date & TIME: 2001-02-14 15:27:41 SCCR No.: 243

Description of Change (Science):

N/A

Reason for Change (Science):

N/A

Description of Change (non-Science):

1. Modified code to set the day/night flag when simulated IES data are used.
2. Modified the code to write a window channel width of 0 to the SSF header when simulated IES data are used.
3. Corrected call to Imager regression subroutine (provided by Walt Miller) to provide the ERBE surface type ID.
4. Modified PCF generator for PGE CER4.5-6.1P1 to get the Toolkit version information dynamically.
5. Modified CER4.5-6.1P1 and CER4.5-6.2P1 scripts to send email with exit codes when production jobs fail.
6. HDF software was modified to place the code that is common to the SARB HDF software in a CERESlib module, ssf2hdf_params.f90, so it can be used by the Inversion and SARB subsystems. See SCCR # 242.

Reason for Change (non-Science):

1. Setting the day/night flag is required by LW Surface Flux Model B software, which can be run without having CERES radiances.
2. Window channel width is written to all SSF headers and a value must be specified for simulated IES data.
3. This change was made to provide the correct parameter as input to the Imager regression subroutine. (ERBE Scene ID was previously used.)
4. Toolkit version information should not be hard coded.
5. No other notification is made when production jobs fail.
6. To eliminate duplicate code modifications to SARB's crs2hdf code when the ssf_typdef module is updated.

Estimated Man Power: N/A

Schedule : Delivery to CERES CM on 03/02/2001

Impact : N/A

Originator: NOLAN, SANDY K. (SAIC)

Table 2: February 28, 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. (Cooper)• Continuing work on the program to combine Level-0 files for Terra. A problem reading the newly created combined file has been found and solutions to fix the problem are being worked. (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)• Real Aqua data was received during the MOSS test. This data has been processed. The Aqua data packet size has now been verified and updates to the SS1 code to handle Aqua data can be completed. (Cooper)• Began work on the Aqua Level-0 scripts to create the PCF ASCII Input and PCF files. During the MOSS test dprep'd PM1 ephemeris and attitude data were received. At this point in time, there are not many matching pairs of ephemeris/attitude data for the designated time period. (Cooper)• Began Aqua data verification. (Hess)• Continuing analysis of Terra data, radiance, coastline detection, instrument housekeeping and Moon Viewing data. (Hess, Spence, Szewczyk)• Continue work to verify Terra operations. (Weaver)	

Table 2: February 28, 2001 - Subsystem Status

SS No.	SS Lead	Status	Problems
2.0	Kizer	<ul style="list-style-type: none">• Additional format changes were made to the ES-8 Nadir file. Regenerated January 2001 FM1 and FM2 ES-8 Nadir files for evaluation. (Kizer)• Continued developing IDL code to generate ERBE-like ES-8 Cloud Forcing plots for Bruce Barkstrom. Modified code to generate HDF file containing Cloud Forcing data. Global contour map produced by Kam-Pui. (Kizer)• Working with ASDC to identify incorrect ES-8 QC Reports and Plots on the web. (Kizer)• Additional caution was composed for the ES-8 Quality summary to describe problems encountered with Spacecraft position vectors, velocity vectors and colat of satellite nadir point. (Kizer)• Continuing to examine ERBE-like inversion code in preparation to execute a 3 channel inter-comparison check. (Walikainen)• Spectral Correction Coefficients were produced for ERBS, PFM, FM1 and FM2 instruments. Comparison of new and original data outputs in progress. (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 2: February 28, 2001 - Subsystem Status

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	<ul style="list-style-type: none">• Worked on the automation process of generating xmgr graphs for qc statistics. Modified the ReadSZA and ReadVZA QC code to generate the necessary data files to be used in the graph automation. Wrote script to run batch job. (R. Brown)• Posted QC results for July and August 1998 (TRMM/ Edition1) to the web. Posted monthly averaging plots of Jan-June on the web. (R. Brown)• Modified the MODIS reader to have the capability of sub-sampling MODIS with 3x3. Assessed cloud property output of 2x2-1x1, 3x3-1x1, and 5x5-1x1 in 5 min grid box and posted the assessment on the web. Pat Minnis prefers 2x2. Don't know what Bruce Wielicki thinks. (Sun-Mack)• Received and implemented Snow-Ice theoretical reflectance models. Debugged, tested and it is in the production code in operation. Also wrote interface for polar mask algorithm. (Sun-Mack)• Downloaded the latest ivics from Todd. It works with CloudVis. Been trained by Todd over the phone, especially how a CloudVis user can modify to accommodate the CloudVis changes. (Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	

Table 2: February 28, 2001 - Subsystem Status

SS No.	SS Lead	Status	Problems
4.4	Miller	<ul style="list-style-type: none"> • Processed January 1998 through Narrowband-Broadband regression postprocessor. (Miller) • Calculated the Narrowband-Broadband regression trends for 1998. Produced gif files and updated web pages. (Miller) • Modified code to produce Narrowband-Broadband scatter plots. (Miller) • Ported the November clouds delivery to blizzard. Compiled and run with the new SGI compiler. Determined that there were some minor differences, but not cause yet. (Miller) • Generated Point Spread Functions for 3 x 3 processing and created SSF. The time was 33 minutes or 72 minutes for a full hour. (Miller) • Started pulling SSFs that covers the Great Plain ARM site for February. (Miller) • Pulled SSF binary QC files for dates in January through May 1998 that were not combined into the daily files. (Miller) 	
4.5	Nolan	<ul style="list-style-type: none"> • Copied remaining DAAC generated Daytime and Nighttime Edition1 SSF Subset files for March 2000 to the inversion disks. (Nolan) • Continued work on software changes for the next Inversion Delivery to CM. (Nolan) • Continued work to integrate and test the preliminary CERES ADM code. (Nolan) • Continued to work with the SARB subsystem regarding consistency between the SSF and CRS HDF code. (Franklin) • Continued documenting the new CERESlib module, ssf2hdf_params, getting it ready for the March 2nd delivery to CERES CM. (Franklin) • Began preparation and testing of Inversion software package for the March 2nd CM delivery. (Nolan and Franklin) 	
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">Continued to prepare for upcoming delivery. (Coleman)Running test cases with the Collins assimilated aerosol climatology. (Coleman)Continuing fine tuning of HDF code. (Caldwell)	
7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none">Looking into producing about six days of 2001 (January and February) MOA for Qing Treppe to support a MODIS study she is doing. (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.	

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SS No.	SS Lead	Status	Problems
10.0	Nguyen/ Raju	<ul style="list-style-type: none"> Found the error why Surface Flux Method-B SW, LW data are not correctly plotting on the web and fixed the error. (Raju) Reviewed and Updated Tisa Averaging Test plan and Operator's manual. (Raju) Worked with Cathy Nguyen to find why she was unable to generate web plots in the test area on Samantha and fixed it. (Raju) Updated comparison programs to test and evaluate generated products at the DAAC. (Raju) Processed February 1998 Narrowband-Broadband regression procedures for all four Geostationary satellites. (Raju) Studied the difference between the pyranometer data and direct plus diffuse data. Plotted each set of ARM data to compare with 30 minute averaged SSF data. The direct plus diffuse data comparison turns out to be better. (Nguyen) Worked on the CMDL and BSRN data to have the same above comparison. Again, the comparison of the direct plus diffuse and SSF data is better than the comparison of the pyranometer and SSF data. (Nguyen) Prepared for the delivery. Found error in the create PCF script code, corrected the error. (Nguyen) Continue testing SS10 with the new SFCs for the delivery. (Nguyen) Read Dave Doelling's code and compared with SS10 code to find where the normalization for SW TOA flux was. Verified to Dave Young that there was no CERES normalization in both codes. Worked with Dave Young in searching for the normalization of GGEO albedo and the CERES albedo. (Nguyen) Working with Young to add the normalization of clear-sky and total-sky SW TOA fluxes. (Nguyen) Reading March SSF Edition 1 data. (Nguyen) 	
6.0	Stassi/ Raju/ Nguyen	<ul style="list-style-type: none"> No updates. 	

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SS No.	SS Lead	Status	Problems
9.0	Stassi/ Raju/ Nguyen	<ul style="list-style-type: none">Updated CERESlib modules sfc.f90, sfc_type_def.f90, tisa_grid_type_def.f90 for the Edition1 SSF format. (Stassi)Modified test suites and updated Test Plan Document. (Raju)Preparing for imminent delivery to CM. (Stassi, Raju)	
11.0	Stassi/Fan	<ul style="list-style-type: none">Had some problems with the GGEO/Clouds interface on samantha, but they have been resolved. Delivered subsystem to CM, along with updated Test Plan. (Stassi)Updating Operator's Manual. (Stassi)	
CERESlib Stassi/Ayers		<ul style="list-style-type: none">Added updated versions of the following modules: sfc.f90, sfc_type_def.f90, tisa_grid_type_def.f90. (Stassi)CERESlib delivered to CM. (Stassi)	
IST	Flug	<ul style="list-style-type: none">No new updates.	