

Table 1: August 29, 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) • Tested and released the following software packages to the ASDC: Instrument, CERESlib, and TISA Gridding. (Ayers) • Posted Delivery Memos on the CERES Configuration Management System Delivery Memos Web page (http://earth-www.larc.nasa.gov/cerescm/DeliveryMemos/) for each of the packages released to the ASDC. (Saunders, 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) • Updated the PGE Sizes tables and associated text files on the CM Web page to reflect information from the latest deliveries (http://earth-www.larc.nasa.gov/cerescm/PGEsizes/). (Saunders, Ayers) 	

Table 2: SCCR Activity August 13 at 11:45am - August 27 at 2:00pm

SCCR	S	U	A	C	D	SS	Page No.	Comments
276				X		10.0		
285				X		1.0		
286	X					4.6	2	Inversion changes in CERESlib
287	X		X	X		9.0		TISA Gridding changes in CERESlib
288	X		X			9.0		
289	X		X	X		CERESlib		
290	X					4.5	3	

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

CERES Software Configuration Change Request Submittal

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

Subsystem: Inversion4.6 SCCR Date & TIME: 2001-08-17 16:36:09 SCCR No.: 286

Description of Change (Science):

The SW surface flux model B module and the associated IO module, surf_typdef, were modified:

1. surf_typdef.f90 - The name of parameter sfc_inso_clr was changed to sfcflux_sw_dnb_clr.
2. surf_sw_model_b.f90 - Module was modified to provide range checking for renamed parameter, sfcflux_sw_dnb_clr. A coefficient was modified in subroutine calcta, which calculates atmospheric transmission.

Reason for Change (Science):

Requested by Science Team

Description of Change (non-Science):

n/a

Reason for Change (non-Science):

n/a

Est. Time to Complete Changes: completed

Planned Delivery Date : 08/17/2001

Impact : modules also used by TISA subsystems

Originator: NOLAN, SANDY K. (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: Inversion4.5 SCCR Date & TIME: 2001-08-26 15:53:44 SCCR No.: 290

Description of Change (Science):

1. Modify PGE CER4.5-6.1P1 and CER4.5-6.3P1 to use Edition2 SW, LW, and WN ADMs.
2. Modify PGE CER4.5-6.2P1 to use corrected scale factor for WN unfiltered radiance in SSF subsets.
3. PGEs CER4.5-6.1P1 and CER4.5-6.3P1 will use updated SW surface flux model B module from CERESlib.
4. CER4.5-6.3P1 will use CERESlib Gring correction module.

Reason for Change (Science):

1. New SW, LW, and WN ADMs and modules will be provided by Science Team.
2. WN unfiltered radiance scale factor changed so that all packed values can be stored in 2 byte integer.
3. New SW surface flux model B module provided to CERESlib.
4. Grings need to be corrected for Edition2 SSFs.

Description of Change (non-Science):

n/a

Reason for Change (non-Science):

n/a

Est. Time to Complete Changes: 2 weeks

Planned Delivery Date : September 7, 2001

Impact : Edition2 ADMs and modules will be required by TISA

Originator: NOLAN, SANDY K. (SAIC)

Table 3: August 29, 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. (Szewczyk) • Continue working on Ada HDF BDS read routines that will be use by the first of the new SS1 PGEs CER1.3P1, which will read a BDS and create BDSIs, containing subsetting BDS information for Internal calibrations. More work to be done than originally anticipated. (Escuadra) • Continue working on the new PGE to subset a BDS based on the occurrence of an Internal Calibration event. (Hess) • Working to fix problems found with the delivery of the MODIS subset software to GSFC. Many of the problems that were listed, existed in the code sent to us from GSFC. (Cooper, Spence) • Continue work tracking CERES Terra data arrival at ASDC. Problems with the SSR caused data dropouts on 8/18 and 8/20/2001. All of the Level-0 data has been recovered, however, ephemeris and attitude data still contain data dropouts/bad data. (Cooper) • Bill Weaver will be retiring as of September 14, 2001. A question and answer session on geolocation is being planned. Please submit any questions you would like to have covered to Kathy Bush. (Bush) 	

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SS No.	SS Lead	Status	Problems
2.0	Kizer	<ul style="list-style-type: none"> • Zero values found in winter months at poles for Terra ES-4 plots. Looking into code and impacts to data. (Kizer) • Continuing to look into the possibilities of producing the ES-9 and ES-4 data products on the CERES 1-deg grid. (Kizer) • Completed software to create ES-8 subsetted HDF files for Dr. Martial Haeffelin and the CLAMS experiment. Currently waiting for August 2001 Edition2 ES-8s to be completed for final processing of CLAMS data. (Kizer) • Determining a systematic approach to validating ES-8 & ES-4 gif files. Developing off-line code to characterize and validate geo-located radiances. (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"> • Process Cloudvis data for region 1 and 7 and posted images and web pages on the web. (R.Brown) • Processed Edition 2 QC data from May-August of 1998 and March 2000. (R. Brown) • Modified MODIS QC reader to be able to read both MODIS data versions. (Sun-Mack) • Looked into the issue of skinT between ECMWF and DAO. Narrowed it down to cloud contaminations. Re-run July 98. The results are much better. The results are posted on the web and communicated with Bruce, Manli. (Sun-Mack) • On SCF, ran all daytime ARM GSP overpasses for Sept. 98 -- Dec 98. Averaged the cloud retrieval results in 30 km box and 100 km box, and posted the results on the web. (Sun-Mack) 	
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">Completed investigating CRS Gring failure. There were negative longitude values that the wrapper would not count. However, it was the last point not the negative one that was dropped. The past delivery corrected the negative longitude problem. (Miller)Updated the GRing algorithm to resolve previous problems and correct new ones discovered during testing. (Miller)Provided areas and time to Joseph Lyu, TSDIS, so he could understand Dr. Stowes, NESDIS, dark albedo problem. (Miller)	
4.5	Nolan	<ul style="list-style-type: none">Continued work to integrate new SW flux module and Final TRMM ADMs into PGEs CER4.5-6.1P1 and CER4.5-6.3P1. (Nolan)Modified module surf_typdef to change name of parameter sfc_inso_clr to sfcflux_sw_dnb_clr. Modified SW surface flux model B to provide range checking for renamed parameter, sfcflux_sw_dnb_clr. Modified a coefficient in subroutine calcta which calculates atmospheric transmission. Submitted surf_typdef and surf_sw_model_b modules to CERESlib. (Nolan)Worked with Walt Miller to discover why metadata wrapper does not always record correct number of Gring points. This occurs when one or more of the colatitude values is negative. (Nolan)Modified SSF subset software to correct WN unfiltered radiance scale factor. Sent corrected ssf2_typdef module to SSF subset users. (Nolan)	
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"> Comments from Dave Rutan, Tom Charlock, and Martial Hefflin were incorporated into the Accuracy and Validation portion of the CRS Quality Summary. This Summary was e-mailed to ASDC for HTML formatting, along with the corresponding Description/Abstract. (Coleman) The CRS Read Package README file was updated to conform to an ASDC-provided template. (Coleman) The latest CRS DPC pages were delivered to the CERES Document Team for inclusion in the Web version of the CERES DPC. (Coleman) The package to produce a global plot of the CERES Validation Regions was modified to display a neater plot to the screen. (Caldwell) 	
7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none"> A table of the history of ECMWF format changes was prepared to support a chart requested by Bruce Wielicki detailing the different input data sets used for the different SSF data sets. (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"> Preparing to compare tisa averaging surface flux with ground data. (Nguyen) Comparing SSF Edition2 QC surface flux with ground data for 1-minute averaged data case. (Nguyen) 	
6.0	Raju/ Stassi	<ul style="list-style-type: none"> No change. 	

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SS No.	SS Lead	Status	Problems
9.0	Raju/Stassi	<ul style="list-style-type: none"> Delivered code to CM, but it became obsolete when the decision was made to process with Edition2-QC SSFs rather than Beta2 SSF inputs. (Stassi) The maximum number of LW and SW ADM types was increased to accommodate the increased number of LW ADM types on Edition2-QC SSFs (and possible increases in SW or LW ADM types on later versions). Other modifications necessary for processing Edition2-QC SSF files were made. (Raja, Stassi) Corrected the calculation of total albedo mean and stddev to use individual footprint values rather than the weighted mean and stddev of the scene albedo averages. (Raju, Stassi) Corrected stddev equation used for calculating statistics of other parameters. (Raju, Stassi) Modified code to determine clear sky footprints based on the area_clr flag from SSF, rather than on the ERBE LW scene ID (which is no longer on the SSF). (Raju) Corrected Total aerosol optical depth maximum from 2.0 to 5.0. (Raju) The code has been redelivered to CERES CM and is being tested. (Raju, Stassi). 	
11.0	Stassi/Fan	<ul style="list-style-type: none"> Modified the main processor run scripts and the subsystem source code to use a caladj_flag runtime parameter to determine whether to recalibrate the narrowband count conversion coefficients, and a cloud_flag to determine whether to process clouds. (Stassi) Devised new subsystem processing scheme to do two-pass processing of GGEO where PASS1 will create a GGEO without recalibrated coefficients or cloud properties, and PASS2 will create the full GGEO product using recalibrated coefficients calculated from the output of PASS1. (Stassi, Raju) Updating GGEO with new PGE's for calculating recalibrated coefficients and for producing cloud plots. (Stassi, Raju) 	

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SS No.	SS Lead	Status	Problems
CERESlib Stassi/Ayers		<ul style="list-style-type: none">• More changes were added for the TIsa Grid delivery. CERESlib was redelivered to CM. (Stassi)• The makemake script was modified to automatically include user-defined libraries in the Makefile and to prompt the user before overwriting the Makefile. (Stassi)• Updated the surf_sw_model_b.f90 and surf_typdef.f90 modules in CERESlib. (Nolan, Stassi)	
IST	Flug	<ul style="list-style-type: none">• No new updates.	