

**Table 1: May 10, 2000 - Subsystem Status.**

SS No.	SS Lead	Status	Problems
1.0	Escuadra /Cooper	<ul style="list-style-type: none"> <li>• Maintained the TRMM housekeeping data plots on the web, so they could be viewed by TRW. (Filer, Hess, Spence)</li> <li>• Continuing analysis of the TRMM data to determine a method to extract the radiometric data from the noisy data stream. (Escuadra, Hess, Spence)</li> <li>• Continued monitoring Terra data production/processing and providing data analysis support. Updating Terra Missing Data and Available Data spreadsheets and web pages. (Cooper)</li> <li>• Began testing with the Ada 95 compiler on darrin. Several problems have been found with the environment on darrin, working closely with DAAC personnel to resolve these issues. Currently, the SS1 code has been compiled, but is unable to link with CERESlib. It is possible that CERESlib will need to be recompiled with the latest SGI F90 compiler to alleviate this latest snag. (Cooper)</li> <li>• Began work on the Moon Radiance program inherited from Dale Walikenan. (Szewczyk)</li> <li>• Continued TRMM/Terra operations/analysis support. (Weaver)</li> </ul>	
2.0	Kizer	<ul style="list-style-type: none"> <li>• Rerun SS2 with new data ("NoFlatnessLimit") for TRMM April 16-30, 2000. (Kizer)</li> <li>• Continuing to look at updating the inversion code by incorporating F90 modules. Incorporating calls to cereslib Openfile and Closefile subroutines. Writing prologues for new modules. (Kizer)</li> <li>• Inspecting ERBE-like Terra and TRMM output plots and QC reports on the Web. (Walikainen, Kizer)</li> <li>• Modified the ES8 HDF to ES8 Binary file conversion program. Time of execution was reduced from ~30mins to ~1.5mins.</li> <li>• Updating ES8 record and scan subsetter. Output is similar to ES8 Record downloader on the Web. (Kizer)</li> </ul>	

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3.0	Kizer	<ul style="list-style-type: none"><li>• Creating program to read EID6 input files and compare scene ids. (Kizer)</li><li>• Looked into the ES-9 and ES-4 code and output files to define uses of defaults for both LW and SW statistics. Read programs written to verify data files. (Halvorson, Kizer)</li><li>• Continuing to look at updating the SS3 code by incorporating F90 modules. Testing of the evaluation version of the code and data validation has begun. All metadata and QC files are also being checked. Eliminated duplicate subroutines in SS3 code. Incorporating calls to cereslib Openfile and Closefile subroutines. Writing prologues for new modules. (Kizer)</li><li>• Continue with creating a program that will check multiple ascii QC reports. (Halvorson, Walikainen)</li><li>• Updated S4 and S9 conversion to ERBE-like ES4 and ES9 HDF files. (Kizer)</li></ul>	

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4.1	Murray	<ul style="list-style-type: none"><li>• Worked on adding Java Zoom code to maps for Yan Chen ISCCP product results. (R. Brown)</li><li>• Modified legends layout for GIF File generator. Adding information and structure files necessary for creating GIFs of Clear Temperature minus Cloud Temperature, Retrieved ClearSky Temperature minus Observed Clear Temperature, and Clear Sky Brightness Temperature. (R. Brown)</li><li>• Worked with a new 3.7um ice model. Re-run all SGP ARM Oklahoma overpasses (Jan-Aug 98). Posted the results on the web. (Sun-Mack/Arduini)</li><li>• Pat Minnis asked for information that will tell us more about the spatial variability of clouds in the 30x30 Km grid boxes over the ARM site. Derived the statistics and posted on the web. (Sun-Mack)</li><li>• Worked with Yan to regenerate difference plots of VINT and Coakley results. (Sun-Mack/Chen)</li><li>• Participated CERES Science Team Meeting. (Sun-Mack/Murray)</li><li>• Ran January 1 - January 20, 1998 both with and without the diurnal correction to the MOA Skin Temperature. Derived some plots to include these parameters and posted on the web for Pat Minnis to use in the Science Team Meeting. (Murray)</li></ul>	
4.2	Murray	Combined with above.	
4.3	Murray	Combined with above.	
4.4	Miller	<ul style="list-style-type: none"><li>• Processed July 1998 ValidationR4 SSFBs and latest SCF run SSFI through software to create cloud water properties histogram. (Miller)</li><li>• Produced statistics for Histogram, used Excel to produce graph, and posted on web. (Miller)</li><li>• Processed one hour through cloud retrieval and convolution that Dr. Coakley requested. (Miller)</li><li>• Assisted Ms. Geier in developing a definition for the 3.75 micrometer saturation flag for the SSF. (Miller)</li></ul>	

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4.5	Nolan	<ul style="list-style-type: none"><li>• Updated SSF subset type definition module to correspond to SSF version 115. Completed work to separate the read and write functions in the SSF subset type definition module into 2 separate modules. Provided Nitchie Smith with updated SSF subset read software. (Nolan)</li><li>• Created 2 sets of binary SSFs for all hours of July 4, 1998 TRMM data, using “clear=0-5% cloud” ADMS for one set and “clear=0% cloud” ADMS for the other. Created SSF subset files for both versions of the July 4, 1998 TRMM data for Nitchie Smith. (Nolan)</li><li>• Initiated work on SW, LW, and WN channel ADM module templates for Norman Loeb and Nitchie Smith. (Nolan)</li><li>• Continued work to create a stand-alone program that uses subsetted SSFs as input and executes the spectral correction and CERES inversion to TOA modules for Norman and Nitchie. (Nolan)</li><li>• Attended CERES Science Team Meeting. (Nolan and Franklin)</li><li>• Prepared and gave presentation at ADM working group at CERES Science Team Meeting. (Nolan)</li><li>• Modified the SSF_Header type structure so the sizes of the character data matched what is in the ssf_typdef module. (Franklin)</li><li>• Continued to prepare for the next delivery to CM. (Franklin)</li></ul>	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"><li>• Prepared a rough draft of the tables of Validation Regions that includes MISR and the EOS Core Sites. Also included clarifications requested by non-Langley scientists, and provided draft to Dave Rutan for review. (Coleman)</li><li>• Began making modifications associated with the upcoming additions to the CRS product that include the pristine fluxes at surface and 1 hPa, clear-sky and total-sky fluxes at 200 hPa (going from four to five levels for these vertical profiles), and aerosol scene type flags. (Coleman)</li></ul>	

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7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none"> <li>• Provided Doug Spangenburg with location of May 98 ECMWF-MOA. (Caldwell)</li> <li>• Continued effort to use current NCEP and ECMWF data. Began modifications of RegridMOA to handle new 60-level ECMWF data. Also began looking into approaches that eliminate the need for minor code changes whenever ECMWF changes the number of input levels. (Caldwell)</li> <li>• Attended Wednesday session of CERES Science Team SARB Working Group meeting. (Caldwell)</li> </ul>	
7.1	Nguyen/ Raju	<ul style="list-style-type: none"> <li>• No new updates</li> </ul>	
8.0	Raju/ Nguyen	<ul style="list-style-type: none"> <li>• No new updates</li> </ul>	
10.0	Nguyen/ Raju	<ul style="list-style-type: none"> <li>• Comparing CAVE data and computed data. Plotting the CAVE LW surface fluxes versus the computed LW surface fluxes. (Nguyen)</li> <li>• Looking into the computation of the water vapor beneath the cloud because this parameter is negative and causes the LW surface column cloud properties to be out of range. (Nguyen)</li> <li>• Modified hdf modules code to write Clear sky geo method sw, lw, wn, albedo parameter information on to SRBAVG HDF product. (Raju)</li> <li>• Ran SS10 process on Thunder and generated SRBAVG product with default values to check new parameters using ViewHdf software. (Raju)</li> <li>• Attended Science Team meeting. (Raju)</li> </ul>	

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6.0	McKoy	<ul style="list-style-type: none"> <li>Continued to modify the TISA Gridding software to handle multiple instrument processing. Completed the implementation of the software to create test input data for the multiple instrument processing. (McKoy)</li> <li>Investigating the cause of the negative Infrared Emissivity in LW surface cloud data. The problem has been tracked down to the routine to calculate the water vapor beneath the cloud which is used in the LW surface weighting scheme. (Nguyen, McKoy)</li> </ul>	
9.0	McKoy	Combined with above.	
11.0	Stassi/ Fan	<ul style="list-style-type: none"> <li>Processed a GOES-10 image through the GGEO/ Clouds code to create a granfile. The cloud and clear-sky values are not correct because the GEO pixels need special masking routines that will be supplied later by the Clouds subsystem. The radiance and angle measurements, however, look very good. There are some small differences that I am investigating. (Stassi)</li> <li>Modified the cmp_granfile program to compare old-format granfiles to files created with the new format, which include cloud values. Comparisons are only made for those parameters that exist in both formats. (Stassi)</li> </ul>	
CERESlib Stassi/ Fan		<ul style="list-style-type: none"> <li>Created a new version of CERESlib with the modified ggeo.f90 and ggeo_file.f90 modules for testing the GGEO and Tisa Averaging subsystems. (Stassi)</li> <li>Created a modified version of the region_number() function in the reference_grid.f90 module which uses the fact that the boundaries of the grid regions always line up along integer colatitude and longitude lines in the 1-deg grid to increase the precision of the calculation. (Stassi)</li> </ul>	
CM	Ayers	<ul style="list-style-type: none"> <li>Modified the CM Home Page. (Franklin)</li> </ul>	
IST	Flug	<ul style="list-style-type: none"> <li>No new updates.</li> </ul>	