

**Table 1: May 26, 1999 - Subsystem Status.**

SS No.	SS Lead	Status	Problems
1.0	Escuadra /Cooper	<ul style="list-style-type: none"><li>• Met with Tim to discuss the subsetting of IES data. Began working on the F90 main routine and the IES F90 write module. (Anselmo, Cooper, Spence)</li><li>• Preparing Delta Delivery for the end of the week to support the MOSS-2 test in early June. (Cooper, Rodier)</li><li>• Updated the SS1 code to handle missing ephemeris/ attitude data for Terra data processing. Also, updated the Terra scripts to create PCF files using the real ephemeris/attitude data. (Cooper)</li><li>• Working on updates to the Instrument code to accommodate new Terra scan profiles, etc. (Hess)</li><li>• Continue improving the Automated Second Time Constant generator program. Results are now coming close to the manually determined values for TRMM. (Spence)</li><li>• Working to develop a better format for the QC reports that can be displayed on the Web. (Rodier)</li><li>• Continuing work on the CERES File Management system database and Web interface. (Rodier)</li><li>• Continue operational support for TRMM and EOS-AM1. (Weaver)</li></ul>	

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2.0	Chang	<ul style="list-style-type: none"><li>• Have two new members Jason Halvorson and Heather Hoffman joined our group. Jason is a new full-time employee and Heather is a summer student intern from CNU. (Chang)</li><li>• Completed updates to the multiple satellite instruments Monthly T/S Averaging and ES4 code (pre-processor and processor) for product key, ibuf, PCF runtime parameters, and metadata items. The 4th digit from the left of product key is assigned '8' for all multiple satellite instruments output products, ibuf(2) contains satellite-instrument code, i.e. 45 for FM3+FM4 and 123 for PFM+FM1+FM2. (Chang)</li><li>• Rewrote 2 ES-9 files from 2 ERBE-Reprocessing ES-9 binary files using the latest ES-9 format for testing the new multiple satellite instruments monthly scripts and programs. (Chang)</li><li>• Modified the Web applications to access the data files at the new mount point for eos-qa:/QA. (Flug)</li><li>• Edited ssf2_typdef code for Sandy Nolan to change the format of some data output. (Hoffman)</li><li>• Had sessions of introductions to ERBE-like Subsystems. (Chang, Halvorson, Hoffman)</li><li>• Read up on Subsystem 2 and how it interacts with the other Subsystems. (Halvorson, Hoffman)</li><li>• Reviewed code that converts from binary to HDF-EOS format and researched the types of information stored in the Vdata and the Scientific Data Sets. (Halvorson, Hoffman)</li><li>• Edited binary ES-8 read code to practice reading and writing to different files and become familiar with using different data types. (Halvorson, Hoffman)</li><li>• Skimmed through the ERBE/CERES web sites to become familiar with the CERES project and the ERBE-like Subsystems. (Halvorson, Hoffman)</li><li>• Viewed some of the HDF files by running view_hdf on thunder and looked at some of the web sites dealing with HDF. (Halvorson, Hoffman)</li><li>• Looked at various web sites that compared Fortran 90 to C++ to find the features in Fortran 90 that are equivalent to C++. (Hoffman)</li></ul>	

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2.0	Chang	<ul style="list-style-type: none"> <li>• Met with Maria and also attended System Engineering Committee about the PCF-like IMG files. (Chang)</li> <li>• Noted the differences between ES-8, ES-9, ES-4, ES-4G, and EID6 output files and how they interact with each other. Also noted the relationship among multiple satellite data and how they relate to each other. (Halvorson, Hoffman)</li> <li>• Had meeting with Richard, Erika, Jim, and Sandy on issues concerning current ES-8 HDF and its collection guide. Richard is still reviewing the ES-8 collection guide. (Robbins, Chang)</li> <li>• Had meeting with Dave on restructuring ES-4 and ES-9 HDF. Plan to rewrite ES-4 in HDF instead of HDF-EOS first and then redo the ES-9 HDF since the parameter names in both files should be coordinated. (Robbins, Chang, Halvorson).</li> <li>• Had meeting with Maria and the DAAC people on the changes they wanted us to make on our ASCII PCF input and PCF generators for our Subsystems. For Subsystem 2 we are requested to have new PGE names for our monthly inversion QC file generator and ES-8 plot processor. These are CER2.2PP1, CER2.2PP2, and CER2.2PP3 instead of plot_qc and plot_es8. We are also requested to have separate sets of PCF generators for CER2.2P1, CER2.2P2, CER2.2P3, CER2.2PP1, CER2.2PP2, CER2.2PP3 for ERBE-like daily data processing instead of one set of PCF generators gen_pcf.CER2.2_input and gen_pcf.CER2.2. For Subsystem 3 single satellite instrument processing we have to replace gen_pcf.CER3.2_input” and “gen_pcf.CER3.2 with gen_pcf.CER3.2P1_input, gen_pcf.CER3.2P1, gen_pcf.CER3.2P2_input, gen_pcf.CER3.2P2, gen_pcf.CER3.2PP1_input, gen_pcf.CER3.2PP1, gen_pcf.CER3.2PP2_input, gen_pcf.CER3.2PP2, gen_pcf.CER3.2PP3_input, gen_pcf.CER3.2PP3, gen_pcf.CER3.2PP4_input, gen_pcf.CER3.2PP4”. (Robbins, Chang, Flug, Liu)</li> </ul>	
3.0	Chang	Combined with above.	

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4.1	Murray	<ul style="list-style-type: none"><li>Continued working on development of IDL interface for the web. (R. Brown)</li><li>Setup a new Action Item Utility to replace the older version that was plagued with perl-based bugs. (R. Brown)</li><li>Corrected a problem identified at the TWP site. We couldn't accurately predict the clear sky information on or around small islands. Problem was based on conflicting definitions of land/water and the mix of the two. Corrected the problem. (Sun-Mack)</li><li>With the most current version, re-ran Oklahoma and TWP sites for all overpasses from Jan to May 1998. Binned and posted the results on the web. (Sun-Mack, Chen)</li><li>Worked on identifying the cause of the high/warm cloud problem that Mr. Miller found. Fixed the problem and delivered. (Sun-Mack)</li><li>With Bryan Baum, reviewed the Wisconsin CO2 slicing code that he has been using and will deliver to us. (Sun-Mack)</li><li>Recreated the 6 Clear Sky start-up maps for January 1998 based on the latest monthly run which included a corrected 1.6 um directional model. (Murray, Sun-Mack)</li><li>Continued finalizing the CloudVis/DX interface script. (Gibson, Murray)</li><li>Produced a program that produces a 2-page summary of a QC report. (Murray)</li><li>Worked on updating the Delivery Memo, Operators Manual, and Test Plan pending the delivery. Worked with Maria Mitchum to validate and correct the Data Set Names and their descriptions. Other delivery related work. (Murray)</li></ul>	
4.2	Murray	Combined with above.	
4.3	Murray	Combined with above.	

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4.4	Miller	<ul style="list-style-type: none"><li>• Implemented higher resolution GRing for SSF. Corrected error in meta data by including CERES instrument in instrument and sampling strategy. (Miller)</li><li>• Provided clouds VIRS gain adjustment information so we will have a consistent record. (Miller)</li><li>• Worked with Ms. Sun-Mack to correct a problem assigning the cloud heights when the temperature is greater than the MOA temperature. (Miller)</li><li>• Ported delivery version of the code to samantha. (Miller)</li><li>• Continued development of a program to identify footprints beyond a users specified range. (McKinley)</li><li>• Updated off-line quality control report generating software. Corrected formatting errors. Changed inversion numbers from sums to means and reorganized some portions. (Miller)</li><li>• Assisted Mr. Joe McInerney in running cloud retrieval to generate data to match with TMI. (Miller)</li><li>• Started updating Test Plan for delivery. (Miller)</li></ul>	

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4.5	Nolan	<ul style="list-style-type: none"><li>• Created monthly input file format for daily average web plots for SSF parameters. Provided Beth Flug with a sample input file for testing. (Nolan)</li><li>• Continued testing SSF subsetting code. Worked with Norm Loeb on modification of some scale factors used to pack the subsetting SSF footprint. (Nolan)</li><li>• Initiated work to modify the A-coefficients for the thermal shortwave adjustment coefficients at the end of the Spectral Correction Coefficient File. (Nolan)</li><li>• Attended the Surface Flux for TISA meeting. LW surface flux model B code will be modified to include subroutine which accept the 17 pressure levels provided by PMOA. (Nolan)</li><li>• Modified the cereslib routine, ssf_meta, to change the number of gring values from 5 to a maximum of 100 and tested it, along with Alice's changes to meta_util to verify that they work with the inversion code. Updated the associated ssf_meta.README file, too. (Franklin)</li><li>• Completed a stand-alone version of qcheader.f90 for use on the web. (Franklin)</li><li>• Provided support to new summer interns, Erin Whitley and Heather Hoffman. (Nolan and Franklin)</li></ul>	
4.6	Nolan	Combined with above.	

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5.0	Coleman	<ul style="list-style-type: none"> <li>Prepared software to read each group's list of validation sites and concatenate a single list (while maintaining each group's individual list). Distributed a postscript version of the list to each group. (Coleman)</li> <li>Updated previously gathered CRS parameter definitions for the Collection Guide to include newest parameters and distributed the new definitions to the SARB Working Group for review. (Coleman)</li> <li>Returned hand-edited copy of Test Plan to Von. (Coleman)</li> <li>Corresponded with Mr. Fred Rose to understand the CERES QC report generation process and determine what improvements should be made to the current system for plotting and displaying QC data. (Caldwell)</li> <li>Converted Mr. Rose's Fortran 90 code used for plotting QC data to IDL code. This allowed the plot generator to be written only in IDL. Began development of HTML-based interface used in accessing QC data plots. (Caldwell)</li> </ul>	
7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none"> <li>Generated sample MOA files using the DAS 1-deg data. (Kizer)</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>Validating surface fluxes. (Nguyen)</li> <li>Updating the test plan and operator manual. (Nguyen)</li> <li>Kept production version of TISA Averaging code under CVS control. (Raju)</li> <li>Tested TISA Averaging code using Nag F95 and SGI F90 compilers on Thunder and compared the results of the outputs and found no differences in file record sizes. (Raju)</li> </ul>	

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6.0	McKoy	<ul style="list-style-type: none"><li>Validating the FSW data for January 1998 that was created at the SCF. Correcting / modifying the TISA Gridding software for the main processor as problems are discovered. Problems have been corrected with the atmospheric flux profile data, the longitude and colatitude used to identify the region to which a footprint belongs, and the cloud overlap conditions. The FSW data has been re-run at the SCF after these corrections were made. Continuing to validate the FSW data. (McKoy)</li><li>Provided a more interactive version of the C FSW read software to the Martial Haeffelin who is validating the FSW data for January 1998 also. Per Martial Haeffelin's request, began working on an interactive version of the FSW read software in Fortran. Looking into several questions that Martial Haeffelin had about the FSW product. (McKoy)</li><li>Completed incorporating all suggestions, modifications, and corrections to a hard copy of the Subsystems 6.0 and 9.0 Operator's Manual. The document has been released back to documentation for publication. (McKoy)</li></ul>	
9.0	McKoy	Combined with above.	
11.0	Stassi/ Fan	<ul style="list-style-type: none"><li>Made final modifications to the GGEO Test Plan Document and sent it to Documentation for posting on the web. (Stassi)</li></ul>	

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CERESlib Stassi/ Fan		<ul style="list-style-type: none"><li>• Completed standardization of Fortran versions and Toolkit BRAND definitions on thunder, lightning, and blizzard. (Stassi, Flippo)</li><li>• New versions of the meta_util.f90 and ssf_meta.f90 files were added to CERESlib. All validation versions of CERESlib were updated with these changes. (Fan, Franklin, Stassi)</li><li>• Added -unsharedf95 load flag to the CERES start-up scripts for the NAG Fortran 95 compiler. This cleared up the “Out of Memory” error that the GGEO subsystem was getting when it is compiled with this compiler. (Stassi)</li><li>• Modified the metadata wrapper to write/read up to 100 G-Ring points. The output will continue on as many 80-char records as necessary for writing out all the points. The attribute order and length of metadata are both changed. (Fan)</li><li>• Modified all the metadata wrapper test programs and scripts to be better organized. (Fan)</li></ul>	
CM	Ayers	<ul style="list-style-type: none"><li>• Worked very closely with the system administrators to resolve a couple of problems with the CERES CM System. Both of these problems have been corrected at this time and the CERES CM System is fully operational again. (McKoy)</li></ul>	
IST	Flug	<ul style="list-style-type: none"><li>• Added the capability to display and plot EOS snap files. Made corrections to the EOS snap file generator. Added the capability to display EOS planning aids. Developed a procedure for accessing the EOS files on the remote ftp server (for security reasons, "ftp" cannot be executed by Web applications on lposun).</li></ul>	