

**Table 1: September 1, 1999 - Subsystem Status.**

SS No.	SS Lead	Status	Problems
1.0	Escuadra /Cooper	<ul style="list-style-type: none"><li>• Continue updates to software for Terra launch. (Anselmo, Cooper, Escuadra, Hess)</li><li>• Working on updates to SS1 code and scripts to make the code more flexible in dealing with all the different CERES instruments. (Anselmo, Cooper, Escuadra, Hess)</li><li>• Continue work on the CERES File Management Database. (Rodier)</li><li>• Continue supporting analysis of TRMM data. (Spence)</li><li>• Continue operational support for TRMM and Terra. (Weaver)</li></ul>	
2.0	Nolan	<ul style="list-style-type: none"><li>• Regenerated Binary ES-8s and HDF ES-8s and overlap files for Jan. 1998, using a corrected Slope Intercept Spectral Correction algorithm. In the earlier version a nighttime SW offset and a SW thermal correction were being subtracted from the SW radiance measurements and an incorrect coefficient was used in the SW thermal calculation. (Nolan)</li><li>• Continued work to combine Subsystem 2 PGEs. Continued testing of all modifications. (Nolan)</li><li>• Continued work to create a version of the ERBE-like Test Plan, which reflects the reduction in the number of Subsystem 2 PGEs. (Nolan)</li><li>• Continued testing of Lee-hwa's latest changes to Subsystem 2.0, with the latest version 2 of Slope-Intercept Spectral Correction Module. (Nolan)</li><li>• Summer Intern, Jennifer Bolduc, joined the ERBE-like Subsystem on August 23, 1999 as a part time employee. Currently working on the ASCII file and PCF generators for Subsystem 2. (Bolduc)</li><li>• Updated the MTSA, Snow, and ES-4 QC Web applications to look for the reports in the appropriate directory on eos-qa. (Flug)</li></ul>	

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3.0	Kizer	<ul style="list-style-type: none"><li>Continued to study the view_hdf software written by Kam-Pui Lee and find the I/O of the IDL program and see if it's possible to integrate it into a web application. (Liu)</li><li>Continued with familiarization and testing of Subsystem 3.0. ( Kizer, Halverson)</li><li>Generated January 1998 ES9s and ES4s for Science Team to study New Spectral Correction Algorithm used in SS2. ( Kizer)</li><li>Continued with updating code by converting the include files and common blocks from scnlib and tsalib libraries into modules for subsystem 3. ( Halverson)</li><li>Collaborated with Mrs. McCoy to generate a proposal for Multi Instrument Processing. ( Kizer)</li><li>Continued with updating subsystem ascii file generators, PCF generators, and run scripts for single and multiple satellite processing. ( Kizer)</li><li>Began updating SS3 portion of ERBE-Like Test Plan for next software delivery. ( Kizer)</li></ul>	

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4.1	Murray	<ul style="list-style-type: none"><li>Continued working on IDL-web interface. Setup Sharon Gibson's idl code to run on saisun26. Debugging a problem with the JAVA Applets that run with the PERL code. (R. Brown)</li><li>Completed modifications to the MODIS interface for the Clouds framework. (Sun-Mack)</li><li>Received specifications for a cloud mask test for nighttime Snow and Ice surfaces from Jennifer Francis. Developed, integrated and tested a module to execute this algorithm. (Sun-Mack)</li><li>Worked with Larry Stowe to verify that our algorithms produce the same results as theirs. Processed several provided samples and they agreed. (Sun-Mack)</li><li>Generated a MODIS Subset CloudVis for validation of algorithms. Generated a MODIS Cookiedough for use in testing Convolution. (Sun-Mack/Murray)</li><li>Staged data and processed July 1998 VIRS to create, validate and deliver July start-up maps and std start-up maps for 1.6um and ratio. (Sun-Mack, Murray)</li><li>Produced plots and data charts as needed for Pat Minnis' new abstract. (Sun-Mack, Murray)</li><li>Plotted several MODIS parameters for 1997081404 and 1997081405 to determine spatial coverage. (Murray)</li><li>Began processing July 1998, VIRS on the SCF. (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>• Modified Convolution to test Terra MODIS data. The estimated Terra parameters have been implemented. Checks were removed to handle a MODIS (1997081405) and IES (199070906) files. (Miller)</li><li>• Investigated problems in locating the first pixel for MODIS data. Problem linked to saw-tooth pattern in latitude (longitude) on the wings of the MODIS scan. Adjusted search strategy and removed some code that wasn't functioning as envisioned in removing infinite loops. (Miller)</li><li>• Generated ASCII files of January and February CERES vs. VIRS radiance regression needed for plotting. (Miller)</li><li>• Processed February validation products. Posted daily QC files and cloud statistics to web. (Miller)</li><li>• Updated convolution to use the new ssf_typdef. Provided inversion a couple of files for testing. (Miller)</li><li>• Implemented beta angle algorithm for SSF header. (Miller)</li><li>• Updated convolution documentation in StP. (McKinley)</li><li>• Updated cloud retrieval and convolution operators manual and reviewed documentation copy. (Miller)</li></ul>	

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4.5	Nolan	<ul style="list-style-type: none"><li>• Completed Subsetted SSFs for February 1998. (Nolan)</li><li>• Initiated work to add Slope-Intercept Spectral Correction algorithm in Subsystem 4.5. (Nolan)</li><li>• Continued testing web version of software that produces a daily SSF QC report in ERBE-like format. (Nolan)</li><li>• Continued work on the SSF HDF Input/Output (I/O) module and read software. (Franklin)</li><li>• Modified the Inversion code to incorporate the changes made to the ssf_typdef module. This was successfully tested. (Franklin)</li><li>• Modified the Inversion Operator's Manual to change the number of PGEs from two to one. (Franklin)</li><li>• Added the CERES Inversion Daily QC Reports to the SSF Web site. (Flug)</li><li>• Arranged to have a new mount set up between lightning and the Web servers to provide the Web applications immediate access to newly generated QC files. Modified the Binary QC Listing application to look for the QC reports on lightning. This eliminates the need to copy and maintain the QC reports on the Web server. (Flug)</li></ul>	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"><li>• Began testing new MOA interface routines prior to distribution to remainder of the DMT. (Coleman)</li><li>• Tested modifications to ASCII file generator and PCF generator for new MOA interface. Made sure all modifications work for leap days, 12/31/1999 Hour 23, and 01/01/2000 Hour 00. (Coleman)</li><li>• Continued working on Software Bulletin detailing the modifications necessary for the new MOA interfaces. (Coleman)</li><li>• Wrote routine for CERESlib to determine if FOV is a CERES Validation region. (Coleman)</li></ul>	
7.2	Coleman	Combined with above.	

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12.0	Coleman	<ul style="list-style-type: none"> <li>Made corrections to Regrid MOA Subsystem for errors found in testing. (Caldwell)</li> <li>Provided MOA interface routines to Instantaneous SARB and PMOA processors for testing. Made corrections for errors found in testing. (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>Attended TISA Averaging Operator's manual review meeting. Participated in updating the Operator's Manual and Test Plan documents. (Raju)</li> </ul>	
10.0	Nguyen/Raju	<ul style="list-style-type: none"> <li>Modified SS10 script file to be able to run in CODINE environment. (Nguyen, Raju).</li> <li>Included instrument ID in the web plot data files and web plot files. (Nguyen).</li> <li>Continued updating the Operator's Manual. (Nguyen)</li> </ul>	
6.0	McKoy	<ul style="list-style-type: none"> <li>Modified PGE CER9.2P1, the SFC Main Processor, to eliminate the monthly overlap file that was appended to over the month of execution of this hourly PGE. An overlap file is now created for each execution of the PGE for which there is overlap data. The total number of overlap files should not exceed 24 files. Modified PGE CER9.3P1, the SFC Post-Processor, to accept multiple overlap files as input instead of the single overlap file per month. Currently testing this change. (McKoy)</li> <li>Modified the post_moa program to interface properly with the new moa_io module, which was modified to handle ECMWF input data, as well as the DAO input. Tested the code with DAO data and duplicated exactly output created with the old code. Ran a full month of ECMWF data through the system, January 1998, and in the process of validating the results. (Stassi)</li> <li>Continued looking into the changes that needed to be made to the code in order to handle multiple instrument. Currently studying the ASCII input and PCF generators to determine what changes will need to be made. (McKoy)</li> </ul>	

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9.0	McKoy	Combined with above.	
11.0	Stassi/ Fan	<ul style="list-style-type: none"> <li>Reviewed the reordered March 1998 METEO-6 data files. They are nice and clean. (Fan)</li> <li>Completed the IDL package, which displays and dumps four geostationary satellite raw data. (Fan)</li> <li>Met with Sunny and Pat Heck to discuss how the cloud property algorithms will be incorporated into the GGEO code. This meeting followed a general discussion of the topic by Dave Young at the Tisa biweekly meeting. (Stassi, Fan)</li> </ul>	
CERESlib Stassi/ Fan		<ul style="list-style-type: none"> <li>Updated Toolkit links so that TK5.2.5 is the default Toolkit on all validation machines. (Griffin, Flippo, Bowden)</li> </ul>	
CM	Ayers	<ul style="list-style-type: none"> <li>Tested Instrument (Subsystem 1.0) and released it to the Langley DAAC. (Ayers)</li> <li>Developed a schedule for upcoming deliveries. (Ayers)</li> <li>Tested ERBE-like subsystem using Toolkit 5.2.5 in SSI&amp;T directory on samantha per request from the DAAC. (Franklin)</li> </ul>	
IST	Flug	<ul style="list-style-type: none"> <li>Automated the process of generating snap files by setting up a process that will periodically check for new Time-Ordered Downlink files and generate the corresponding snap files. The program notifies analysts of new snap files via e-mail.</li> <li>Updated the software to use the proper naming convention for the Time-Ordered Downlink (TODL) files. Modified the application to look for TODL files on the Web server rather than on the remote ftp server ftp.eoc.ecs.nasa.gov.</li> </ul>	