

Table 1: September 15, 1999 - Subsystem Status.

SS No.	SS Lead	Status	Problems
1.0	Escuadra /Cooper	<ul style="list-style-type: none">• Continue updates to software for Terra launch. (Anselmo, Cooper, Escuadra, Hess)• Completed work on scripts and runtime parameter code updates. These updates were tested using Instrument Only mode. Also, Instrument updates were able to begin testing using Instrument Only mode. Radiance updates are being made to accommodate new input file formats by instrument. (Anselmo, Cooper, Escuadra, Hess)• Updated run script and metadata to accommodate requests from the DAAC after the last delivery of SS1. (Cooper, Rodier)• Ran the Instrument subsystem using the current README.html file and discovered areas which needed more explanation. These will be incorporated into the README.html file and put onto the Instrument Working Group web page. (Szewczyk)• Continue supporting analysis of TRMM data. (Spence)• Continue operational support for TRMM and Terra. (Weaver)	

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2.0	Nolan	<ul style="list-style-type: none">• Modified Norman Loeb's degraded PRES8 code and created monthly scripts to run Loeb code and to generated FAPS ES8s using a corrected Slope Intercept Spectral Correction algorithm and both the degraded and full resolution PRES8s as input. Generated ES8s with degraded and full resolution for June, July and August 1998. (Nolan)• Continued work to combine Subsystem 2 PGEs. Continued testing of all modifications. (Nolan)• Continued work to create a version of the ERBE-like Test Plan and Operator's Manual, which reflects the reduction in the number of Subsystem 2 PGEs. (Nolan)• Continued testing of Lee-hwa's latest changes to Subsystem 2.0, with the latest version 2 of Slope-Intercept Spectral Correction Module. (Nolan)• Completed scripts combining the ASCII file and PCF generators for Subsystem 2. (Bolduc)• Initiated work to find the cause of the error returned by HDF when writing CERES vdata on ES8 HDF file. (Franklin)• Replaced separate spacecraft and instrument selection lists with a single "Spacecraft-Instrument" selection list on the ERBE-like Data Validation Web pages. Renamed the ERBE-like status reports, replacing the 2-digit year with a 4-digit year. Updated the ERBE-like status reports Web application to recognize the new naming convention. Added the PFM spectral responses to the ERBE-like Data Validation Test Site. (Flug)	

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3.0	Kizer	<ul style="list-style-type: none">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)Continued with familiarization and testing of Subsystem 3.0. (Kizer, Halverson)Continued with updating code by converting the include files and common blocks from scnlib and tsalib libraries into modules for subsystem 3. (Halverson)Incorporated the latest version of the ES4 parameter names into the SS3 code to organize the associated SDS names into Vgroups in order to find a particular SDS more easily. (Halverson)Continued with updating subsystem ascii file generators, PCF generators, and run scripts for single and multiple satellite processing. (Kizer, Bolduc)Continue updating SS3 portion of ERBE-Like Test Plan for next software delivery. (Kizer)	

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4.1	Murray	<ul style="list-style-type: none"> Continued to work on the development of the web interface for running idl through the web. (R. Brown) Working with Pat Minnis to remove some problems with the ration directional model. Implemented and tested code to place histograms of some statistics into an off-line version of the binned QC report. (Sun-Mack) Wrote a program to do read RatioWater parameter and binned the results up. (sun-Mack) Worked to configure Sunny's account on thunder/lightning to match Tim's so that she could run a day or month of data in another \$CERESHOME directory if necessary. (Sun-Mack/Murray) Investigated integration of Cloud algorithm into GGEO. Worked with Joe Stassi and Alice Fan to get them reading surface maps. (Sun-Mack) Developed scripts and code to automatically read the QC reports and generate the html docs required to display the charts and plots for whatever monthly QC reports are available on lightning. Used them to generate the plots and charts for 199801, 199802, 199803, and 199807 for Pat Minnis' use in a new paper. (Murray) Continued evaluation of DAAC production runs for March 1998. Evaluated failed runs for 1998030401 and 1998030619. (Murray) Began preliminary efforts to integrate the Validation Regions module into the Cloud code to help with the Subsetting algorithm. (Murray) Generated code to produce plots for % of Super Cooled clouds. (Murray) 	
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"> Modified Convolution to test Terra MODIS data. Once MODIS data was shifted 17 degrees west we were able to process the Terra data. (Miller) Started testing various parts of Convolution to help improve run-time. The largest time increase is directly related to the number of imager pixels used. (Miller) For cross-track, a 20 minute or 10% reduction can be obtained by reducing the number of bins by a factor of 4. (Miller) The time spent locating pixels for the footprint was about 10 to 15 percent. 1:27 of 3:30 and 3:30 of 17:30 respectively. (Miller) Plotted all data and updated thermal channel html files for January and February CERES vs. VIRS radiance regression. (Miller) Discussed the regression results with Dr. Dave Young. (Miller) Provided Dr. Larry Stowes' group imager pixel data to match the footprints they were investigating. Provided information on the significant difference between average aerosol optical thickness on the SSF and the AOT calculated from SSF clear-sky radiance. (Miller) Assisted Ms. Geier in using the low-fat cookie cutting software. (Miller) Obtained new procedures for non-zero exit codes when no footprints are produced. (Miller) Meet with Mr. Bob Neely to discuss cookie dough visualization requirements. (McKinley and Miller) Tested cookie dough visualization tools. (McKinley) Updated convolution documentation in StP. (McKinley) Completed cloud retrieval and convolution operators manual. It has been posted on the web. (Miller) 	
4.5	Nolan	<ul style="list-style-type: none"> Completed Subsetted SSFs for March 1998. (Nolan) Continued work to add Slope-Intercept Spectral Correction algorithm in Subsystem 4.5. (Nolan) Continued work on the SSF HDF Input/Output (I/O) module and read software. (Franklin) 	

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4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Incorporated Chou routines that account for shortwave absorption by CO₂ and O₂. Now in testing. (Coleman) Updated versions of Test Plan and Operator's Manual for next delivery to reflect merging the Instantaneous SARB Main-Processor and HDF Post-Processor into one PGE. (Coleman) Completed and tested a module to include in CERESlib that determines whether a given footprint or CERES region coincides with a CERES validation region. Notified Tim Murray that this was available for his testing. (Coleman) Received e-mail that there are now real files produced by 7.1 that may be used to test 7.2. Looking at 7.2-unique code and updating where necessary. (Coleman) 	
7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none"> Continued studying design of Subsystem 12. (Caldwell) Continued correcting problems with MOA ECMWF data. (Caldwell) Began producing MOA precipitable water value subsets requested by Anand Inamdar. (Caldwell, Kizer) Began producing Oct 98 GEOS-2 MOA for Tim Murray. (Caldwell) 	
7.1	Nguyen/ Raju	<ul style="list-style-type: none"> Preparing for the coming up delivery. (Raju, Nguyen) 	
8.0	Raju/ Nguyen	<ul style="list-style-type: none"> No new updates 	
10.0	Nguyen/ Raju	<ul style="list-style-type: none"> Continued validating cloud column weighted. (Nguyen) Preparing for the delivery. (Nguyen, Raju) 	
6.0	McKoy	<ul style="list-style-type: none"> Preparing for delivery to CM this week. (McKoy) Tracking down error in the Postprocessor related to TK5.2.5. (McKoy, Fan) 	

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9.0	McKoy	Combined with above.	
11.0	Stassi/ Fan	<ul style="list-style-type: none">• Stripped out the filtering algorithm from GOES-8 code and made it a utility module to be called by any satellite. (Fan)• Worked on GOES-9/10 data filtering. Also found that the hhmss values are not all correct for the bad data hours. (Fan)• Modified the GGEO subsystem code to exclude the first and last 28 zones of the grid from the output GGEO file. These zones are always filled with default values because of the 70 degree view zenith angle cut-off. The ggeo module was modified to return default values whenever data for regions within these zones is requested. Preparation for this change was included in last week's delivery of CERESlib, but the actual change will not be implemented at the DAAC until a future delivery. (Stassi)• Preparing GGEO for delivery to CM this week. The current version at the DAAC cannot handle the satellite transition months. (Stassi)	

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CERESlib Stassi/ Fan		<ul style="list-style-type: none">• Due to the metadata reading error from a bad cloud file, the following modifications were implemented: 1) Modified meta_write.f90 to prevent the writing of less than 3 GRing points; 2) Modified meta_read.f90 to read less than 3 GRing points. The optimum fix is to exit a PGE with an error code and prevent the next PGE from being run and reading erroneous metadata. (Fan)• Implemented a local version of meta_write.f90 for the Tisa Gridding PGE. TK5.2.5 has limits on the InputPointer attribute and causes core dump when more than 700 files with 140 char long file names were to be written. This temporary wrapper will be delivered with Gridding code until TK fixes the problem. (Fan)• Sent Toolkit people an example for demonstrating the problem with InputPointer in TK5.2.5. They acknowledged the problem. (Fan)• CERESlib was delivered to CM with the following modified modules: tisa_grid_type_def, ceres_vdata, meta_write, meta_read, ggeo.	
CM	Ayers	<ul style="list-style-type: none">• Tested CERESlib and released it to the Langley DAAC. (Ayers)• Finalized the latest delivery schedule. (Ayers)	
IST	Flug	<ul style="list-style-type: none">• Replaced separate spacecraft and instrument selection lists with a single "Spacecraft-Instrument" selection list. Began work on the capability to display instrument operations for EOS-AM.	