

**Table 1: January 19, 2000 - Subsystem Status.**

SS No.	SS Lead	Status	Problems
1.0	Escuadra /Cooper	<ul style="list-style-type: none"><li>• Developing web page for instrument housekeeping statistics. (Filer)</li><li>• Developing stand-alone program for converting detector counts during moon view scans. (Walikainen, Spence).</li><li>• Reviewing Terra output data. (Hess, Spence)</li><li>• Monitoring Terra data production/processing and providing data analysis support. (Cooper)</li><li>• Testing workarounds for the Instrument subsystem 64-bit executable. (Escuadra)</li><li>• Continued development VIRS and MODIS subsetting programs. (Szewczyk)</li></ul>	

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2.0	Nolan	<ul style="list-style-type: none"><li>• Modified latest version of the Slope Intercept Spectral Correction module to work with the Toolkit and updated SS2 code to use the new module. (Nolan)</li><li>• Received “final” version of the PFM Spectral Correction Coefficients from Norman Loeb. Added header string and SW thermal correction coefficients to the files and modified PCF generators to use this version of the coefficients. (Nolan)</li><li>• Continued testing of the production version of the Subsystem 2.0 Release 3 software and generation of the comparison data for SSI&amp;T Subsystem 2.0 test cases. Making final updates to the Subsystem 2.0 Operator’s Manual for delivery to CM on 1-21-2000. (Nolan)</li><li>• Tested the ERBE-like subsystems on samantha, using the latest version of the ERBE-like Test Plan. (Bolduc)</li><li>• Completed work to convert the HDF-EOS ES-8 comparison program to Fortran 90 and to add software which recognizes and compares attributes on two HDF-EOS files. (Bolduc)</li><li>• Completed work to unpack ES-8 flag words and write 1-byte flag word SDSs to the HDF-EOS ES-8. This will not be implemented in the production code until compression is available for HDF-EOS. (Bolduc)</li><li>• Continued to work on updating the 5 record sample ES8 package. (Bolduc)</li><li>• Began looking at Beta version HDF5. Requested that HDF5 and HDF5-EOS be installed on blizzard for testing. (Bolduc)</li><li>• Discovered discrepancies between the public and validation versions of the ES-8 graphics software. Working on getting the public version up-to-date. Eventually plan to have one set of code capable of generating the graphics for both the public Web site and the validation Web site. (Flug)</li></ul>	

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3.0	Kizer	<ul style="list-style-type: none"><li>• Testing and preparing to deliver the ERBE-like Subsystem 3.0 software to CERES CM as scheduled on January 21, 2000. (Kizer)</li><li>• Final edits are being made to the ERBE-like Test Plan and Operator's Manual before delivery to CERES CM. (Kizer)</li><li>• Found and corrected a memory problem in the Multi-Satellite processing software that changes the geo scene type for one region to zero. (Kizer, Halvorson)</li><li>• Added the URL for the Collection Guide Page to the ES-4 and ES-9 sample README files. (Halvorson)</li><li>• Completed the ERBE S-4 to the ERBE-like ES-4 hdf conversion software. (Halvorson)</li><li>• Completed the ERBE S-9 to the ERBE-like ES-9 hdf conversion software. (Halvorson)</li><li>• Continuing to look over the ES-4 collection guide and making changes that are necessary to reflect the new ES-4 HDF product. (Halvorson)</li><li>• Continuing to look over the ES-9 collection guide and making changes that are necessary to mimic the ES-4 collection guide and reflect the new ES-9 HDF product. (Halvorson)</li><li>• Mr. Halvorson is also continuing to update the ES-4 and ES-9 Data Products Catalog listings. (Halvorson)</li></ul>	

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4.1	Murray	<ul style="list-style-type: none"><li>• I continued to work on determining the problem with running ION. Contacted Andy Pursh at RSI and he is trying to duplicate the problem. (R. Brown)</li><li>• Created structure files for different data plots and tested running gif file generator. (R. Brown)</li><li>• Communicated with Ron Welch about comparing Mask results. Generated results for 9 hours and sent them the results and a program to read the output. (Sun-Mack)</li><li>• Communicated with Jim Coakley about using their algorithm to compute certain cloud properties. Will perform some validation of the CERES results before SSF archival. (Sun-Mack)</li><li>• Bryan Baum has delivered a new algorithm to determine overlap clouds that uses the 1.6 micron channel. Began work on integrating this algorithm into the production code. (Sun-Mack)</li><li>• Began investigating the saturation problems of the VIRS data. Processed several hours and looked into how VIRS identifies the saturated pixels. They show up as bad data. Posted the results on the web. (Sun-Mack)</li><li>• Worked with GGEO to integrate the cloud code. Answered questions as necessary. (Sun-Mack, Murray)</li><li>• Met with Tom Caldwell and Fred Rose to discuss the impacts of the MOA changes/additions on the Cloud Code. (Sun-Mack, Murray)</li><li>• Worked with Ben Ho and his efforts to convolve the VIRS data with the TMI data. Eventually, set him up to run stand alone on his own partition. (Murray)</li><li>• Communicated with Art Lazanoff as needed about his efforts to run the Cloud Code on a Sun platform. (Murray)</li><li>• Worked with Pete and Peter to validate sample Subsetted VIRS files. (Murray)</li><li>• Staged recently arrived MODIS data from February 22, 1999. Successfully tested for At-Launch compatibility. (Murray)</li></ul>	
4.2	Murray	Combined with above.	

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4.3	Murray	Combined with above.	
4.4	Miller	<ul style="list-style-type: none"> <li>• Provided Ms. Coleman 119 regions for aerosol optical thickness validation around AERONET sites. (Miller)</li> <li>• Assisted Dr. Ben Ho in processing VIRS and TMI data for their study. (Miller)</li> <li>• Incorporated new ssf_typdef, with 1.6 micrometer cloud properties, into convolution. Cloud input data has not been implemented yet. (Miller)</li> <li>• Investigated missing CERES footprints on May 1, 1998 Hour 1 SSF. Reduced the required imager coverage to 60 percent to capture near nadir footprints that had reduced coverage from geometry only. (Miller)</li> <li>• Met with Mr. Green and Ms. Geier to discuss direct selection algorithm for convolution. (Miller)</li> </ul>	
4.5	Nolan	<ul style="list-style-type: none"> <li>• Continued modifications to Subsystem 4.5 software, which included latest Slope Intercept Spectral Correction module and updates to the PCF generator. (Nolan)</li> <li>• Completed modifications to the Inversion code to change the names of four additional parameters (85-88) and to then shorten those parameter names and the names of parameters 99-106 due to restrictions in HDF. Testing of all the parameter changes was initiated using the latest ssf_typdef and a new interim SSF. (Franklin)</li> <li>• Continued work to test the HDF compression routine available in HDF4.1r3. (Franklin)</li> </ul>	
4.6	Nolan	Combined with above.	

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5.0	Coleman	<ul style="list-style-type: none"> <li>Modified surface albedo retrieval algorithm to include the surface pressure, as per Fred's directions. (Coleman)</li> <li>Incorporated updated TRMM satellite-emulation window channel coefficients, along with new Terra coefficients. (Coleman)</li> <li>Incorporated a new aerosol climatology from Goddard, referred to as GADS, for evaluation. (Coleman)</li> <li>Reprocessed the subsetted Jan '98 data with above modifications to the software. (Coleman)</li> <li>Provided sample CRS read code to Bill Collins (UCAR), who will be studying SARB results for comparison with INDOEX data. (Coleman)</li> </ul>	
7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none"> <li>Reproduced January 98 ECMWF MOA to account for previous corrections and for testing by Clouds. (Caldwell)</li> <li>Began determining modifications necessary to incorporate new 50-level ECMWF data into Subsystem 12. (Caldwell)</li> <li>Began incorporating MOA Open routine required by GGEO's cloud algorithms. (Coleman)</li> <li>Subsetting of original ECMWF-supplied files at the DAAC has been completed, however, possible problems with new default values require further investigation. (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>Updated Data Product Catalog for AVG/ZAVG products. (Raju)</li> </ul>	

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10.0	Nguyen/ Raju	<ul style="list-style-type: none"> <li>Validating the surface fluxes using the updated column weighed cloud data from SFC. (Nguyen)</li> <li>Tested SS10 with the updated GGEO module. (Nguyen)</li> <li>Updated Data Product Catalog for SRBAVG product. (Nguyen)</li> <li>Updated prologues to the LW interpolation routines. (Raju)</li> </ul>	
6.0	McKoy	<ul style="list-style-type: none"> <li>Implemented a script to automate the monthly processing for Subsystem 6.0 and 9.0. Preparing to process the months of January and February 1998 through Subsystem 6.0 and 9.0. (McKoy)</li> <li>Began updating the FSW and SFC HDF PGEs to bring them up-to-date with the DPC and alleviate problems with attempting to read the HDF products. (McKoy)</li> <li>Validating the column weighted cloud data for Subsystem 6.0. (Nguyen)</li> <li>Validating the cloud layer parameters for Subsystem 6.0. (McKoy)</li> </ul>	
9.0	McKoy	Combined with above.	
11.0	Stassi/ Fan	<ul style="list-style-type: none"> <li>Made corrections to the ggeo.f90 and ggeo_file.f90 modules so that they not only produce reduced-size GGEO files but are also able to read previously created GGEO files that contain all 180 zones. Cathy and Raja tested the code and confirmed that it is alright. (Stassi, Nguyen, Raju)</li> <li>Wrote a test program to fully test the functionality of the ggeo_file.f90 module, the module that is used by the Tisa Averaging subsystems. (Stassi)</li> <li>Familiarizing myself with Alice's GGEO/Clouds interface code. Integrated Alice's code with the modifications for the reduced-size GGEO. (Stassi)</li> <li>Updating the GGEO design diagrams in the StP tool with the idea to add diagrams for the cloud retrieval from the GEO data. (Stassi)</li> </ul>	
CERESlib Stassi/ Fan		<ul style="list-style-type: none"> <li>Updated all validation versions of CERESlib with the new ggeo.f90 and ggeo_file.f90 modules. (Stassi)</li> </ul>	

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CM	Ayers	<ul style="list-style-type: none"><li>• Tested a delta ERBE-like (Subsystems 2.0 and 3.0) delivery and released it to the Langley DAAC. (Franklin)</li><li>• Developed a schedule for upcoming deliveries. (Ayers)</li></ul>	
IST	Flug	<ul style="list-style-type: none"><li>• Modified the command listing software to retrieve commands from the ATC load reports rather than from the Integrated Print Reports. Modified the "View CERES Activities, Commands, and Events" option to list commands and events even if there are no CERES activities for the selected DAS report. Modified the plot capability so that the y-axis is scaled to the data (IDL sets the lower y-axis value to 0 when all of the values are positive). Added parameter descriptions to the Plot interface. Added the TDRS Contact Schedules to the CERES Operations Products Web site. Modified the software to list files in reverse order of the date that appears in the filename.</li></ul>	