Table 1: January 5, 2000 - Subsystem Status.

SS No.	SS Lead	Status	Problems
1.0	Escuadra /Cooper	• Updated the web page for the BDS description/ summary. (Filer) • Completed the port of the Instrument subsystem to the 64-bit SGI Ada compiler using the -32 option. (Cooper) • Continued development of workarounds for the Instrument subsystem 64-bit executable. (Escuadra) • Continued development of the IES and VIRS subsetting programs. (Spence, Szewczyk) • Continue to support and monitor Terra operations and status. (Hess, Weaver)	

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SS No.	SS Lead	Status	Problems
2.0	Nolan	• Completed modifications and testing of the production version of the Subsystem 2.0 Release 3 software and generated the comparison data for SSI&T Subsystem 2.0 test cases. Completed the Subsystem 2.0 Operator's Manual and the DAAC Delivery Memo for ERBE-like. (Nolan) • Reviewed and corrected the ES-8 Data Product Catalog pages. (Nolan) • Modified the Subsystem 2.2 Product Control File (PCF) generator to correct a problem in the metadata. The corrected files were given to CM. (Nolan) • Changed the directory location of the ancillary SNOW files and CER2.2 PCF format as requested by Jill Travers. (Nolan) • Wrote a Fortran 90 module which unpacks an array of 22 ES8 flag words into 660 individual 1-byte integer flags. (Nolan) • Completed a table which included an itemized list of tasks and estimated completion times for the addition of Window channel TOA fluxes to the ES-8 product. (Nolan) • Tested the ERBE-like subsystems on thunder and samantha, using the latest version of the ERBE-like Test Plan. (Bolduc) • Modified the software that does range checking on HDF-EOS ES-8 files. Initiated 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) • Initiated 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) • Initiated work to unpack ES-8 flag words and write 1-byte flag word SDSs to the HDF-EOS ES-8. (Bolduc) • Unsuccessfully attempted to add compression to the 1-byte flag words SDSs. Working with Larry Klein on identifying the problem in the HDF-EOS software. (Bolduc)	

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SS No.	SS Lead	Status	Problems
2.0	Nolan	• Tested version 3.1 of EOSView and found no changes when reading an ES-8 HDF-EOS file. Continues to check all Subsystem 2 production generated gif files on the ERBE-like Web pages. (Bolduc) • Investigated a possible problem with the ES-8 validation graphics software. It appeared that some of the negative data were missing from the shortwave filtered and total filtered plots for January 1, 1998 TRMM-PFM. After looking at the code, determined that the data were not included because either the colatitude and/or longitude were default, or for the shortwave plot, the negative values occurred at night. (Flug) • Modified the public ES-8 validation graphics software to support Terra. Replaced the hard-coded spacecraft codes with a variable and added a spacecraft selection list to the Web interface. (Flug) • Made some changes to automate the process of generating the graphics and posting them on the Web. Moved the graphics software to the ERBE-like test area on samantha and modified the PS/PDF file generation software to run on samantha. (Flug) • Set up new e-mail aliases to take the place of the existing e-mail links. The aliases will allow Web inquiries to reach a wider distribution of analysts who can respond to questions. (Flug).	

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SS No.	SS Lead	Status	Problems
3.0	Kizer	• Successfully tested and delivered the ERBE-like Subsystem 3.0 software to CERES CM as scheduled on December 3, 1999. Final edits were made to the ERBE-like Test Plan and Operator's Manual before delivery to CERES CM. (Kizer) • Completed and began testing conversion software for ERBE S-4 to ERBE-like ES-4 HDF format. (Halvorson, Kizer) • Completed sample ES-9 and ES-4 HDF files and the associated read code for the delivery to the DAAC. Sample ES-4 package was delivered to CERES CM. (Halvorson) • Continuing to look over the ES-4 collection guide and making changes that are necessary to reflect the new ES-4 HDF product. (Halvorson) • Mr. Halvorson is also continuing to update the ES-4 and ES-9 Data Products Catalog listings. (Halvorson) • Investigated the time and effort needed to add the window channel flux data and statistics to the ES-9 and ES-4 ERBE-like archival products. (Halvorson, Kizer, Flug)	

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SS No.	SS Lead	Status	Problems
4.1	Murray	• Implemented code to remove dynamically created html and gif files after use. (R. Brown) • Continued working on the GIF file generator making necessary changes to the structure files for idl code and the PERL script. Can read sample data files and create greyscale images. (R. Brown) • Continued to evaluate and create ion applications. (R. Brown) • Analysts completed preparations for and attended the Science Team meeting in La Jolla, CA. (Sun-Mack, Murray) • Worked with Art Lazanoff (from Sun) to retrieve the clouds code and begin the process of trying to get it compiled. Sent information on cereslib, HDF libraries, and the PGS Toolkit in addition to the delivery. (Murray) • Worked with Mr. Spence and Mr. Szewczyk on subsetting the VIRS data by CERES validation region and producing the Subset VIRS files. (Murray) • Modified the Clouds QC structure to remove some unneeded fields and store the hourly values separately in the daily file. (Murray) • Investigated the implications of the MOA skin Temperature changes that we will need to make. (Sun-Mack, Murray)	
4.2	Murray	Combined with above.	
4.3	Murray	Combined with above.	

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SS No.	SS Lead	Status	Problems
4.4	Miller	• Reviewed Quality Assurance Plan. (Miller) • Developed validation plan for aerosol optical thickness with Dr. Larry Stowe. (Miller) • Investigated Larry Stowe's request to include Aeronet sites into the subset database. He would like grids within 2 degrees of the site. (Miller) • Performed multilinear regression between 3.75 um and 10.8 and 11.9 um radiances at night. This will be used to remove thermal component from 3.75 to obtain visible albedo. (Miller) • Reviewed CERES Longwave vs. VIRS 10.8 um regression data for April 22-25, 1998 to determine anomalous hours to forward to Mr. Joseph Cheng, TSDIS. (Miller) • Studied polar orbiting data as trying to develop GRing algorithm. (Miller)	

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SS No.	SS Lead	Status	Problems
4.5	Nolan	• Generated SSF files for 17 hours of March 1999 for Lisa Coleman, using the latest PFM slope intercept spectral correction coefficients. (Nolan) • Provided Ms. Nguyen and Ms. Raju with the latest version of the VIRS12 SW ADM module and coefficients, and met with them to discuss the module. (Nolan) • Continued modifications to Subsystem 4.5 software, which included removal of the inverse square term in calculating SW, LW and WN TOA fluxes and changing the maximum SW ADM value from 15.0 back to the original value of 2.0. (Nolan) • Completed modifications to the Inversion code to add Vgroups to the SSF HDF output file and tested the updates. (Franklin) • Completed modifications to the Inversion code to change the names of 9 parameters (38 - 40, 73, 99-103), to delete one parameter (104), and to add 3 parameters after parameter 103. Four additional parameter names will be modified (85-88). Testing of all the parameter changes will be initiated. (Franklin) • Completed modifications to the PCF generator to add leap year, next day, and next year options for the ECMWF-based MOA input files. (Franklin) • Continued to modify the Inversion Operator's Manual and Test Plan as new changes occurred. (Franklin) • Initiated testing of the HDF compression routine, but need to use a newer version of HDF than what is being used by the Toolkit. Mr. Flippo installed HDF4.1r3 so testing can continue. (Franklin) • Added the slope intercept spectral correction coefficients, ADMs, and SSF listings to the public SSF Web site at http://earth-www.larc.nasa.gov/ssf/pub_ssf. (Flug) • Attended CERES Science Team Meeting in La Jolla, CA. (Nolan and Franklin)	
4.6	Nolan	Combined with above.	

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SS No.	SS Lead	Status	Problems
5.0	Coleman	• Prepared a version of the Instantaneous SARB Subsystem for use at the SCF that uses a CRS as input instead of an SSF. With this version, the subsetted January 1998 was reprocessed quickly without having to daacget the SSFs. (Coleman) • Began processing March 1999 data at the request of Bill Collins, who wants to compare results with INDOEX results. (Coleman) • Began updating the software to produce the HDF CRS to reflect changes in the SSF structure currently in CERESlib. (Franklin)	
7.2	Coleman	Combined with above.	
12.0	Coleman	• Delivered Regrid MOA Subsystem software, Test Plan, and Operator's Manual to CM in accordance with delivery schedule. This version added the capability to use the DAO GEOS-3 as the sole primary source of meteorological data. Before being delivered to the DAAC folk for their testing, however, it became apparent that there is a problem with the skin temperature and SSI&T testing stopped. (Caldwell) • Worked with Fred Rose to determine the cause of the problem with the MOA ECMWF skin temperature. It was traced back to misinterpreting parameter definitions in the original ECMWF-supplied files. Now need to rerun subsetting software at DAAC and reprocess MOA files generated using ECMWF data. (Caldwell, Kizer) • Proposing modifications to the MOA_Open_Wrapper routine in MOA_IO to meet needs of new GGEO software currently under development. (Fan)	
7.1	Nguyen/ Raju	• Comparing and checking the viewing angles and flux params data between GGEO and FSW files. (Raju)	
8.0	Raju/ Nguyen	• No new updates.	

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SS No.	SS Lead	Status	Problems
10.0	Nguyen/ Raju	• Validating cloud column weightings. (Nguyen) • Updating the prologues to the interpolation routines. (Raju)	
6.0	McKoy	• Implemented the code to calculate the averages of the cloud adjustment parameters and the corrected initial broadband albedo. Currently testing these changes. (McKoy) • Implemented and tested the HDF read software for the FSW HDF data product. The FSW HDF read software package was delivered to the Langley DAAC. (McKoy) • Modified the routine that calculates the cloud layer parameter statistics to use the standard deviation routine in the TISA Gridding stats_mod module which is the routine used by all the TISA Gridding software to calculate standard deviation. This has corrected the problem with the standard deviation of the cloud layer parameters. (McKoy) • Validating the column weighted cloud data for Subsystem 6.0. (Nguyen, Stassi) • Validating the cloud layer parameters for Subsystem 6.0. (McKoy) • Delivered an updated version of the TISA Gridding Test Plan to documentation. (McKoy)	
9.0	McKoy	Combined with above.	
11.0	Stassi/ Fan	• Continued working on the ggeo_cloud module. An hour of GOES-10 GEO data has run through the cloud code without core dump. (Sun_mack, Fan) • Modified some of the GGEO scripts in the CVS repository according to suggestions from Alice. More modifications will be required for the GGEO Clouds work that Alice is doing. (Stassi, Fan) • Making corrections to the GGEO code to allow writing a reduced-size GGEO file (remove high latitude zones that contain only default values). This size reduction could translate into significant savings after the cloud properties are added to the GGEO record structure. (Stassi)	

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SS No.	SS Lead	Status	Problems
CERESlib Stassi/ Fan		• No updates	
CM	Ayers	• Delivered the ES-4 and FSW Sample Read Software Packages to the DAAC. (Ayers) • Tested CERESlib, Clouds (Subsystems 4.1-4.4), and ERBE-like (Subsystems 2.0 and 3.0) and released them to the Langley DAAC. (Ayers) • Worked with the system administrators to ensure that the CERES CM software had no interface problems with the new Informix Database server, summit. The necessary changes were made to the CERES CM software and database, and the database has been migrated successfully to summit. The CERES CM software is also interfacing successfully with the new database server. (McKoy)	
IST	Flug	• No new updates.	