

Table 1: March 1, 2000 - Subsystem Status.

SS No.	SS Lead	Status	Problems
1.0	Escuadra /Cooper	<ul style="list-style-type: none">• Continue development of a web page for instrument housekeeping statistics. The Monthly plots are working, working to create yearly plots. (Filer)• Continued developing stand-alone program for converting detector counts during moon view scans. All the necessary data has been read from the BDS and all the necessary angles have been calculated, working on converting the Moon radiances. (Walikainen).• Reviewing Terra and TRMM output data. Analyzing the TRMM azimuth stall anomaly. (Hess)• Continued work on the Azimuth scan noise program at the 6.6 sec. scan level. Updates to the program to work with the Azimuth scan are being worked. (Escuadra)• Integrating updates to the SS1 code for Terra and TRMM. These will be part of the next delivery currently scheduled for May. (Cooper)• Continued monitoring Terra data production/ processing and providing data analysis support. (Cooper)• Updated scripts to track the receipt of Terra data to include a calculation of the “true” amount of ephemeris/attitude data received. An Excel spreadsheet has been created to keep track of this data. (Cooper)• Began working on the BDS merge program to be used at the SCF to aid in anomaly investigations. (Szewczyk)• Continued development on MODIS subsetting programs. (Szewczyk)• Continued to monitor Terra Operations and to assist in finding out why we haven’t received CERES data. (Weaver)	

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2.0	Nolan	<ul style="list-style-type: none">• Modified production software to change Automatic QA quality flag value from “Suspect” to "Passed" for all successfully created ERBE-like SS2 metadata. Completed ERBE-like delivery to CM on February 23, 2000. (Nolan)• Updated ERBE-like SS2 Operator’s Manual. (Nolan)• Completed new 5 record ES-8 sample file package and README file. Delivered the package to CERES CM. (Nolan)• Updated the HTML versions of the ES-4, ES-8, and ES-9 description documents. (Flug)	
3.0	Kizer	<ul style="list-style-type: none">• Changed the SDS unit attributes with "number of days" and "number of hours" to "days" and "hours" respectively. (Kizer)• Changed the metadata “Quality Flag” from “Suspect” to “Passed” in all routines creating metadata files. The code was given to Sandy for ERBE-like delivery. (Kizer)• Looking at code to read SS2 metadata and pass the “Quality Flag” through the code instead of its current hard coded scheme. (Halvorson)• Completed and submitted the EID-6 Data Products Catalogue pages. (Kizer)• Continued 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, Kizer)• Continuing to look at updating the SS3 code by incorporating F90 modules. Testing of the code and data validation has begun. (Halvorson, Kizer)• Looked at optimizing the sorting code in the daily data base software. Incorporating new code into updated SS3 code. (Halvorson)	

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4.1	Murray	<ul style="list-style-type: none">• Modified the Cloud Working Group web page, and added new pages to incorporate the changes. I continued to work on the Gif File generator and making changes to structure files. (R. Brown)• Per Pat Minnis tested the removal of the zeta factor in the VINT calculation of reflectance. Re-ran 3 months of ARM Sites and posted the results. (Sun-Mack)• Worked with Pat Minnis's to produce CloudVis files which included 9 new parameters related to 3.7um data to study aerosol cases. Worked With him to validate the data. (Sun-Mack)• Sent Bryan Baum results from his latest overlap algorithm. Based on these results, he delivered a new version of his code for integration. (Sun-Mack)• Corrected the code to use the tropheight from MOA rather than an internally derived value. (Sun-Mack)• Met with Pat Minnis, Dave Young and Pat Heck to talk about algorithms deliveries before the telecom. Currently Pat Heck has every thing (1.6 um vint, platnick, new corrk, twilight...). Expected to get these algorithms sometime in the week of Feb 28 (toward the end of the week). After 1.6 vint and platnick in, vint processing time for day time data will be at least doubled! (Sun-Mack)• Investigating the saturation of channel 3 and the fact that VIRS doesn't distinguish between saturated and bad. (Sun-Mack)• Integrating a new version of the Welch algorithm that is based on VIRS data rather than AVHRR. Working with Todd Berendes to work out validation details. (Sun-Mack)• Worked with Walt Miller to determine why cloud temperatures look ok, but cloud height and cloud pressure have constant values. (Sun-Mack/Miller)• Completed development of delivery package to send to DAAC containing and executable and script capable of subsetting the VIRS data. (Murray)	

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4.1	Murray	<ul style="list-style-type: none">Completed modifications to the CID_VIRS module that allow for correct processing of the Subset VIRS data and some other rare cases where a scanline would be skipped. (Murray)Integrated changes to the Cloud Code to place the modified radiance value used to calculate the 1.6 micron reflectance rather than the raw value in Cookiedough. (Murray)	
4.2	Murray	Combined with above.	
4.3	Murray	Combined with above.	
4.4	Miller	<ul style="list-style-type: none">Continued review of direct pixel selection algorithm created by Mr. Richard Green. (Miller)Concentrated on no low longwave radiance at night over ocean on two hours of April 23, 1998. (Miller)Provided Ms. Coleman the new regions for the Taiwan AERONET station. (Miller)Coordinated on whether the changed 3.75 radiance would be placed on the SSF. (Miller)Discovered that clouds resets the tropopause pressure using a WMO algorithm. This was producing 'flat-top' clouds for Aug 26, 1998, hour 11 off the East US coast. Switched to MOA tropopause height. (Miller)	

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4.5	Nolan	<ul style="list-style-type: none">Continued work to add a daily PGE, CER4.5-6.2P1, to Subsystem 4.5-6. CER4.5-6.2P1 will create daily daytime and nighttime SSF subset files, using all of the binary SSF for a given day as input. (Nolan)Modifying Subsystem 4.5-6 Test Plan to include PGE, CER4.5-6.2P1. (Nolan)Continued documenting changes made to SSF HDF software. (Franklin)Continued preparation for the next delivery to CM. (Franklin)Tested the GZIP compression in HDF4.1r3 using levels 1, 3, 5, 7, & 9. The compression rate was from 66.4 to 68%. The wall clock time ranged from 2:19 to 4:26 minutes for the first 4 levels tested and 21:51 for level 9. For a non-compressed file, wall clock time was 1:30 minutes. Memory usage was basically identical for all levels of compression (about 225,500K), but was larger than the 16,000K needed when there was no compression and 8500 records were written at a time. To read and compare two identical compressed files, it took about 9 to 9:30 minutes vs. the 6:30 minutes for non-compressed files. Memory usage was the same for all read/compare operations. (Franklin)	
4.6	Nolan	Combined with above.	

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5.0	Coleman	<ul style="list-style-type: none"> Added additional regions to the CERES Validation Regions list. These regions included the area of Taiwan surrounding one of Larry Stowe's Aeronet sites, and a region in Mexico as per Pat Minnis's request. (Coleman) Modified the code that generates the ceres_valregions.f90 module to limit the number of continuation lines per statement. While the SGI compiler has no limit, the NAG compiler does. (Coleman) Delivered ceres_valregions.f90 module with above two modifications to CERESlib to support the upcoming Clouds (informal) processing to for the telecon. (Coleman) Continued working on the ASCII file and PCF generators for the Synoptic SARB Subsystem. (Coleman) Updated SYN pages for the Data products catalogue. (Coleman) 	
7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none"> Began implementation of 50-level ECMWF data as primary meteorological data source. (Caldwell) Initiated work on IDL graphical interface to allow display of 50-level ECMWF MOA data. (Caldwell) Began work to subdivide the moa_io module in CERESlib into smaller, more manageable sections. (Caldwell) 	
7.1	Nguyen/Raju	<ul style="list-style-type: none"> No new updates 	
8.0	Raju/Nguyen	<ul style="list-style-type: none"> No new updates 	

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10.0	Nguyen/Raju	<ul style="list-style-type: none">• Preparing to incorporate GGEO cloud parameters to the algorithm. (Nguyen, Raju).• Finalized the Test Plan and the Operators Manual. (Raju, Nguyen).• Attended a meeting with science team to discuss the issues related to implementing the ggeo cloud data into tisa averaging subsystems. Started documenting the possible changes to the tisa averaging code. (Raju, Nguyen).• Generated a new colorbar for the surface net shortwave flux plots. (Flug).	
6.0	McKoy	<ul style="list-style-type: none">• Added a flag to the FSW and SFC data record which provides the following information about the hourbox: 1) if the instrument mode was FAPS, RAPS, or both mode, 2) the imager(s) used, and 3) the source (TRMM-PFM, TERRA-FM1, etc.) of the data. This flag is a 32-bit integer where each bit will be used to provide information about the hourbox. Developed the routines to access the data bits of the 32-bit integer and the interface module for the hourbox flag have been written and incorporated into the TISA Grid main processor. Provided a description of the flag to Dave Young and he has requested a few minor changes which are currently being implemented. (McKoy)• Dave Young has provided instructions for handling multiple instrument processing. Studying the TISA Gridding software to determine what modifications will need to be made to handle the multiple instrument processing. (McKoy)• Completed processing January and February 1998 through Subsystem 6.0. (McKoy)	
9.0	McKoy	Combined with above.	

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11.0	Stassi/ Fan	<ul style="list-style-type: none">• Sent Lisa Coleman and Tom Caldwell a modified version of the moa_io.f90 module containing a subroutine, MOA_Open_Wrapper_Alt(), that is needed for GGEO clouds processing. (Stassi)• Setting up an interface to the Clouds code from GGEO that allows GGEO to have better configuration control over accepting the changes continue to occur within the Clouds code. (Stassi)	
CERESlib Stassi/ Fan		<ul style="list-style-type: none">• Another updated version of the ceres_valregions.f90 module was sent to CERESlib. CERESlib was updated and sent to CM for delivery to the DAAC. (Coleman, Stassi)	
CM	Ayers	<ul style="list-style-type: none">• Tested and released CERESlib and ERBE-like to the Langley DAAC. (Ayers)• Updated the CERES Delivery Schedule. (Ayers)• Created the PDF and HTML version of the updated Delivery Schedule and posted them to the CERES CM home page. (Franklin)	
IST	Flug	<ul style="list-style-type: none">• No new updates	