

Table 1: March 29, 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. Added new links to the Instrument public and private web pages to the page showing available Terra Eph/Att data coverage. (Filer) • Continued developing stand-alone program for converting detector counts during moon view scans. (Spence, Walikainen). • Reviewing Terra and TRMM output data. (Hess) • Working on updates to the SS1 code to modify the Moon In FOV exception handling. Also testing on updates to the radiance count conversion to not convert data when a Ground Bounce is detected by the instrument package. Current testing shows that the ground bounce flag is not being properly set. (Escuadra) • Continue looking at the problems with the Ada 95 64-bit compiler to determine if it will ever be able to work in 64-bit mode. This is a low priority investigation and is being done as time permits. (Escuadra) • Continued monitoring Terra data production/ processing and providing data analysis support. (Cooper) • Continue updates to the Terra Missing and Available Data spreadsheets. Created a new web page showing available Terra ephemeris and FDD attitude data, working to add the Level-0 coverage to this page. Updates to have each data month appear on its own web page are also being worked. (Cooper) • Adding calls to create the Metadata for the combine BDS program, so it can be used by the Pre-ES8 program. Also adding the ability to read the PCF to get file information. (Szewczyk) • Continuing coastline detection for Terra data, FM1 and FM2 are not finding all the same scenes when they are both in crosstrack. Investigating why the instruments don't see all the same scenes. (Spence) • 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">Completed ERBE-like delivery, to correct SI Spectral Correction and Tropical Mean algorithms, to CM on March 23, 2000. (Nolan)Reprocessed Subsystem 2 for March 1-9 and 10-17 FM1 and FM2 Terra data at the SCF for Richard Green and placed QC reports on ERBE-like Web test site. (Nolan)Added display options to the ES-8 graphics Web application so that users have the option of viewing plots in actual size or resized to fit in the frame. (Flug)	
3.0	Kizer	<ul style="list-style-type: none">Continuing to look at code to read SS2 metadata and pass the "Quality Flag" through the code instead of its current hard coded scheme. (Halvorson)Continuing to look at updating the SS3 code by incorporating F90 modules. Testing of the evaluation version of the code and data validation has begun. All metadata and QC files are also being checked. Eliminated duplicate subroutines in SS3 code. Incorporating calls to cereslib Openfile and Closefile subroutines. Writing prologues for new modules. (Halvorson, Kizer)Striping ERBE-like scene id code out of inversion software for Dave Young. (Kizer)Looking at ES-4 gif file code to produce monthly Cloud Forcing Plots. Generated the Net, LW, and SW cloud forcing gif files from CERES data. (Halvorson)Creating a program that will automatically check the QC reports to determine if the data for a given day is "good". (Halvorson)	

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4.1	Murray	<ul style="list-style-type: none">• Added ColorMapper Utility to the CWG web page. This allows a user to develop specific color maps and determine the RGB values. (R. Brown)• Changed structure files for Cloud Data Plots in idl to create legends to include with gif images from Gif File Generator. (R. Brown)• Integrated new versions corrk and vint and the new twilight algorithm into the production code. (Sun-Mack)• Tested new algorithms and removed some problems from the new versions. (Sun-Mack, Murray)• Telecon! Worked with Scientists to provide desired information and process the requested data. (Sun-Mack, Murray)• Modified the Cloud Mask decision tree to include results from the new Welch algorithm. (Sun-Mack)	
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 read_ies to handle Terra and sim data and ssfqc_typdef to handle regression data for the next delivery. (Miller)• The along track angle algorithm seems to be providing the accuracy required; however, cross track angle has more errors than estimated value. (Miller)• Answered some question on CERES mask concerning smoke and fire for Mr. Brian Killough. (Miller)• Developed code to produce histogram of optical depth, water radius, and water path. Dr. Pat Minnis wants to present this at the archival telecon. Transferred SSFs for the first ten days of July from the DAAC. (Miller)• Investigated problems with the new FORTRAN 7.3.1 compiler. It produces warning when arrays of structures are used in an INQUIRE or READ statement. This does not seem to prevent the code from processing correctly. (Miller)• Prepared a production version of the latest delivery when it became known that SSFs were going to be required. (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. (Nolan)Continued work to create a stand-alone program that uses subsetted SSFs as input and executes the spectral correction and CERES inversion to TOA modules for Norman and Nitchie. (Nolan)Initiated work to create new LW and Window channel ADM ancillary files (for both clear = 0-5% clouds and clear=0% clouds) using Nitchie Smith's VIRS12b LW and WN ADMs. (Nolan)Continued preparation for the next delivery to CM by shortening two of the dimension names, adding a runtime parameter, WrFlux, to the PCF file generator and the ssf2hdf code to determine which fluxes to put on the SSF HDF file, updating one of the range attributes, verifying the HDF attributes, making the unit attributes consistent with BDS and ES8, where possible, and documenting the code changes. (Franklin)Added a download button to the binary QC viewer application. (Flug)	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none">Recompiled code with upgraded compiler, toolkit, and operating system. (Coleman)Continued implementing code with new technique for handling aerosols. With this new technique, a vertical profile of aerosol and a more specific aerosol scene type are passed to the Fu-Liou model. (Coleman)Reviewed a list of EOS core validation sites to determine if CERES included the same sites. Coordinated with Tom Charlock, who coordinated with EOS core sites author, and the CERES list will be expanding to include the latest EOS core sites. (Coleman)Updated first page of CRS DPC pages. (Coleman)	
7.2	Coleman	Combined with above.	

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12.0	Coleman	<ul style="list-style-type: none">Delivered Regrid MOA Subsystem (software and required documents) to CM. (Caldwell)Modified moa_io's skin temperature retrieval routine to include information requested by Tim Murray. (Caldwell)	
7.1	Nguyen/Raju	<ul style="list-style-type: none">Continued working on incorporating geostationary cloud data and combining it with CERES cloud data. (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 working on incorporating geostationary data, converting layer cloud to column cloud and combining it with CERES cloud data. (Nguyen)Continued to work on the TOA flux interpolation routines to modify code to interpolate TOA Clear Sky fluxes using geostationary data. (Raju)Successfully tested the Postscript->PDF conversion program on samantha. (Flug)	
6.0	McKoy	<ul style="list-style-type: none">Completed cleaning up and commenting all changes that have been made thus far to the TISA Gridding software. (McKoy)Began making changes to the TISA Gridding software to handle the multiple instrument processing. (McKoy)Modified the TISA Gridding main processor to eliminate the averaging using the log and instead, perform a linear average of aerosol optical depth parameters. (McKoy)	
9.0	McKoy	Combined with above.	
11.0	Stassi/Fan	<ul style="list-style-type: none">Writing routines to extract clouds property values from the Clouds modules for inclusion on the GGEO intermediate output file. (Stassi)	

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CERESlib Stassi/ Fan		<ul style="list-style-type: none">• Latest version of CERESlib delivered to CM. (Stassi)• Completed installation testing of Toolkit, TK5.2.6. Toolkit links have been modified so that this is the default Toolkit version on all workstations except samantha. (Griffin, Flippo, Godfrey, 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)• Implemented a script to gather information about the subsystem deliveries. The script reports the number of source code lines, number of script lines, total size of the source code, total size of the scripts, and the total size of the ancillary data. The script needs to be tested thoroughly and some minor modifications made in order to ensure accuracy. We have used the script to gather this information for all subsystems, and have asked the subsystem contact to assist with identifying the unknown file types. (McKoy)• Modified Nichele's script to include ADA's .ads and .adb files as source code and reran the script on Instrument's files. (Franklin)• Worked with Sandy Nolan to determine what caused the erbelike comparison program to produce a core dump when it was executed in SSI&T. It was determined that the -mips4 option was needed as an option on the C and Fortran compiler environment variables. (Franklin)	
IST	Flug	<ul style="list-style-type: none">• Preparing to test the latest TODL files which have duplicate packets removed. Downloaded the new TODL files; waiting on EOC to generate TODL files for the corresponding time period. Plan to generate snap files for each type of TODL file and compare the results.	