

Table 1: March 15, 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. (Spence, Walikainen). • Reviewing Terra and TRMM output data. (Hess) • Continuing work on the Azimuth Scan data to determine if we have any azimuth offsets. (Escuadra) • Working with the new Ada 95 compiler to determine if updating the C-library fixed the problem with the 64-bit compiler. (Cooper, Escuadra) • Continued monitoring Terra data production/ processing and providing data analysis support. (Cooper) • Continue updates to the Terra Missing and Available Data spreadsheets. Scripts to gather the appropriate data are complete for current SS1 data requirements. Updates needed to change the calculation of available attitude data to use only FDD attitude without the spacecraft attitude as backup. (Cooper) • Completed initial BDS merge program, now working to add start and stop time feature to the code. Also working to add ToolKit calls to read a PCF, so that this program can be used to merge BDS and BDSD for times when the instrument was left in diagnostic mode, but is performing normal science operations. A new PGE will need to be added to handle this occurrence. (Szewczyk) • Performing 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">• Corrected a problem in the ES-8 validation graphics software that caused the randomly generated 0 length gif files. Added a check and special exit status if any 0 length gif files are generated. (Flug)• Completed delta ERBE-like delivery, to correct randomly generated 0 length gif file problem, to CM on March 7, 2000. (Nolan)• Delivered updated ERBE-like SS2 Operator's Manual to CM. (Nolan)• Corrected a problem with the ES-4 validation graphics Web interface. Added a download option to the ERBE-like QC Report listing Web applications. Made some improvements to the Inversion QC report listing Web interface and to the ES-8 validation graphics Web interface. (Flug)• Checked gif files on the Web for all ERBE-like TRMM reprocessed 1998 ES-8s and all production TRMM 2000 ES-8s. (Nolan)	
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)• Looking at ES-4 gif file code to produce monthly Cloud Forcing Plots. (Halvorson)	

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4.1	Murray	<ul style="list-style-type: none">• Worked with the modified idl code and the Gif File Generator script to incorporate changes. Created new idl structure files for data plots and began testing. (R. Brown)• Updated the CWG as needed. (R. Brown)• Implementing and testing additional methods to gather the input for the idl zoom program through the web either by inputting parameters or selecting a file. (R. Brown)• Received a "new" corrk and a "new" vint that uses this "new" corrk. Working on the integration of the "new" algorithms. (Sun-Mack)• Integrated a new Welch algorithm. Worked with Welchs' team to validate the algorithm results for the April 3rd Telecon. Ran 15 hours of VIRS data and placed on the web for inspection. (Sun-Mack)• Started working on intercomparison between vint (VISST) and Coakley's cloud retrieval algorithm for the Telecon. Communicated with Mike Friedman extensively. Received their files/results and started matching our results with their's. Processed all the hours provided and put the comparisons on the web. (Sun-Mack)• Completed modifications to the Cloud Code that improved PCFile access and allowed the use of the finer resolution ECMWF-based Skin Temperature data. Began testing the modifications. (Murray)• Implemented Restart capability in the Subset VIRS script and sent the modified script to the DAAC. (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">• Coded algorithm to calculate along and cross track angle for imager pixels. Started testing. (Miller)• Processed simulated IES received from Dr. Kam-Pui Lee and provided feedback on quality. (Miller)• Continued review of direct pixel selection algorithm created by Mr. Richard Green. (Miller)• Decided that all anomalous behavior on April 23, 1998 could be linked either to the along-track scanning or scenes sampled. Forwarded this conclusion to TSDIS. (Miller)	
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)• Initiated 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)• Created new SW ADM ancillary file using Norman's VIRS12b ADMs (with clear sky set to 0-5% clouds) for ERBE scene types: 1,2,4,6,7,9,10, and 12, and Richard's RPM models for ERBE scene types: 3,5,8, and 11. Created normalization constants for the combined set of ADMs, using Romberg Integration software from Patty Hinton. Repeated the process to create a second set of SW ADMs and normalization constants using a new set of Norman's VIRS12b ADMs (with clear sky set to 0% clouds). (Nolan)• Created an updated version of the SSF subset type definition module for Norman Loeb. (Nolan)• Continued preparation for the next delivery to CM by documenting changes, updating and verifying error messages, verifying HDF attributes, and adding the Platform, Imager, and Instrument run-time parameters to the PCF file generator. (Franklin)• Added a download option to the SSF ASCII QC Report listing Web application. Set up a test data Web page for viewing the SSF ADM's. (Flug)• Designed and completed SSF subset comparison software. (Halvorson)	
4.6	Nolan	Combined with above.	

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5.0	Coleman	<ul style="list-style-type: none"> Produced CRS files over the validation regions for February 1998 at the request of Bill Collins. With Fred's approval, these files were made available to Bill Collins. (Coleman) Began implementing new algorithm for handling aerosols used by the Fu-Liou model. (Coleman) Attended SARB working group meeting and provided guidance on operational feasibility of suggested ideas. (Coleman) 	
7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none"> Updated MOA and GAP sizing information for the Data Products Catalogue. (Caldwell) Worked with Tim Murray to determine what he needs for more efficient MOA access. (Caldwell, Coleman) At the request of Tim Murray, prepared a routine from existing code to provide the ECMWF 0.5-deg skin temperature region number, along with the coordinates of the region's center. (Caldwell) Finished separating moa_io module into smaller modules (transparent to the user). (Caldwell) Successfully tested IDL plotting software with new MOA grid indices. (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">• Working on converting geostationary layer cloud data to column cloud data. (Nguyen)• Prepared code to read the geostationary cloud data. (Nguyen)• Sent updated document which includes the issues related to implementing the ggeo cloud data into tisa averaging code to Cathy Nguyen for her to review and to make modifications. (Raju)• Started looking into flux interpolation routines to modify code to interpolate TOA Clear Sky fluxes using geostationary data. (Raju)• Wrote a program to correct the orientation of the time series plots and convert them from PS to PDF. Current version of Ghostscript cuts off plots after page 100. Need to have Aladdin Ghostscript upgraded to version 5.x on samantha for the program to work. (Flug)	
6.0	McKoy	<ul style="list-style-type: none">• Per the request/suggestion of Dave Young, the flag that was added to the FSW and SFC data record was modified to combine the instrument mode, the imager, and the source together (TRMM-PFM-VIRS FAPS, TRMM-PFM-VIRS RAPS, etc.). Each combination will represent one bit of the flag. (McKoy)• Continued studying the TISA Gridding software to determine what modifications will need to be made to handle the multiple instrument processing. Cleaning up and commenting all changes that have been made thus far to the TISA Gridding software before making any changes related to multiple instrument processing. (McKoy)• Found and corrected a memory problem in the Subsystem 6.0 and 9.0 post-processor. (McKoy)	
9.0	McKoy	Combined with above.	

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11.0	Stassi/ Fan	<ul style="list-style-type: none">The GGEO/Clouds interface is running and producing results. New code is being written to extract the results and add them to the GGEO intermediate output product. Spot checks of the angle calculations and the radiance averages show that these values agree with those calculated in GGEO processing. The cloud values are not correct, but this is because the GEO pixels are being processed through the AVHRR path of CERESmask, and this path requires two more IR channels. Eventually, the Clouds subsystem will provide a set of procedures called LBTM containing a GEO path for CERESmask. (Stassi)	
CERESlib Stassi/ Fan		<ul style="list-style-type: none">Updated the following modules in the validation versions of CERESlib: moa_io.f90 (split into 4 separate modules), ssf_typdef.f90, pcf.f90, and io.f90. (Caldwell, Geier, Stassi)The latest version of the Toolkit, TK5.2.6, has been loaded onto a few SUN and SGI workstations for installation testing. The HDF version has changed, requiring that the CERES start-up scripts on all machines will need to be modified. After installation testing is complete, this Toolkit version will become the default version of all machines. (Griffin, Flippo, Stassi)	
CM	Ayers	<ul style="list-style-type: none">Released Delta Deliveries of Instrument and ERBE-like to the Langley DAAC. (Ayers)Delivered updated Subsystem 3.0 (ERBE-like) PCF generator scripts to the Langley DAAC. (Franklin)	
IST	Flug	<ul style="list-style-type: none">No new updates.	