

Table 1: October 13, 1999 - Subsystem Status.

SS No.	SS Lead	Status	Problems
1.0	Escuadra /Cooper	<ul style="list-style-type: none"> • Continue updates to software for Terra launch. Informal delivery of the subsystem to the DAAC will be delayed for a few days, updates to the subsystem are still being implemented. (Anselmo, Cooper, Escuadra, Hess) • Continue working on updates to the hcmp program to provide better information about the differences between files, e.g. statistics. (Szewczyk) • Continue supporting analysis of TRMM data. (Spence) • Added access to the new Terra MOSS-3 QC reports from the Instrument Working Group web page. (Filer) • Continue operational support for TRMM and Terra. (Weaver) 	
2.0	Nolan	<ul style="list-style-type: none"> • Continued work to combine Subsystem 2 PGEs. Continued testing of all modifications. (Nolan) • Initiated work to create test cases for PGEs, CER2.3P1 and CER2.3P2. (Nolan) • Continued work to create a version of the ERBE-like Test Plan and Operator's Manual, which reflects the reduction in the number of Subsystem 2 PGEs. (Nolan) • Completed work on ES8 HDF code which correctly writes the CERES vdata on ES8 HDF file. (Bolduc) • Completed work to combine ASCII file and PCF generator scripts for PGE CER2.1. (Bolduc) • Completed code to generate a 5 record HDF ES-8 and code to create a formatted listing of all the data in the files along with descriptions of the SDSs and VDatas on the 5 record file. (Bolduc) • Initiated work to create an EID-6 comparison program for CM/DAAC testing. (Bolduc) • Updated code and documentation on the Web for the FrameMaker to PDF conversion process. SGI version is now available for download. (Flug) 	

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3.0	Kizer	<ul style="list-style-type: none">Continued with updating code by converting the include files and common blocks from scnlib and tsalib libraries into modules for subsystem 3. (Halvorson)Began making additional changes to the ES-4 and the ES-9 HDF files. This includes removing the 'Number of observations' Vgroups and adding the units attribute to all the SDSs. (Halvorson)Continued updating and incorporating the ES-9 binary to HDF conversion software to mimic the ES-4 HDF file layout. (Halvorson)Continued combining and updating the ASCII file and PCF generators scripts for Subsystem 3. (Bolduc)Continued updating SS3 portion of ERBE-Like Test Plan for next software delivery. (Kizer, Halvorson)Continued updating SS3 ERBE-Like Operator's Manual for next software delivery. (Kizer, Halvorson)Added multi-instrument options "PFM+FM1", "FM1+FM2", "PFM+FM2", and "PFM+FM1+FM2" to the MTSA and ES4 QC report Web applications. (Flug)Added multi-instrument options "PFM+FM1", "FM1+FM2", "PFM+FM2", and "PFM+FM1+FM2" to the ES4 plotting and Web applications. (Liu)	

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4.1	Murray	<ul style="list-style-type: none">• Integrated JAVA Zoom utility with idl automation utility for web. (R. Brown)• Worked on the MOSS3 Test Data Ordering. (R. Brown)• Worked to place over 200 images of VINT and overlap Cloud results on the web to assist in validation. Worked to compile the information and statistics requested by Minnis on a daily basis. (Sun-Mack, Chen)• Completed derivation and analysis of the special QC reports to study the ratio directional model. Posted the results. (Sun-Mack)• Continued making modifications to the Test Plan and the Evaluation Procedures to make them more efficient. (Murray)• Began modifications to the CER4.1-4.2P1 processing script to provide better diagnostic information to analysts for failed runs. (Murray)• Produced the Monthly Start-up maps for October 1998. (Murray, Sun-Mack)• Completed implementation and Evaluation of the CERES Validation Region Subsetting algorithm. The algorithm takes about 5 minutes to run 1 hour of data. (Murray/Miller)• Compiled Plots and Charts for the June 1998 DAAC and the Oct. 1998 SCF monthly runs. (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">• Responded to Mr. Richard Green's question on one pixel per grid box sampling. (Miller)• Completed post processing for April through June 1998. (Miller)• Implemented code changes to convolution to handle cookie dough files smaller than the 500 line buffer now used. This reduced processing time to between 2 and 6 minutes using subset cookie dough. (Miller)• Modified code to only use IES footprints within subset regions. Reduced runtime to 30 seconds. (Miller)• Discovered that the reversing of the VIRS scan pattern due to changing the spacecraft direction was not being handled. (Miller)• Provided Ms. Geier the Point Spread Function generation software. (Miller)• Responded to questions from Mr. Lindsay Parker. (Miller)• Reviewed Mr. Green's notes on along track and cross track corrections for footprints and pixel that have different times. (Miller)• Tested new cookie dough visualization tools. (McKinley)	

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4.5	Nolan	<ul style="list-style-type: none"> Completed Subsetted SSFs for May, June, 1998 and part of July, 1998. Archived all subsetted SSFs on tape_archive. (Nolan) Traced problem in subset SSF data where relative azimuth (equal to 80.01) is scaled to -9999, which is the default value used on the SSF subset files. Provided a temporary work-around when reading the subsetted SSF data. (Nolan) Continued testing Slope-Intercept Spectral Correction algorithm in Subsystem 4.5. (Nolan) Completed work to combine the Inversion ASCII and PCF generators, to include the daytime and nighttime Slope-Intercept Spectral Correction Coefficient files as input, and to test the changes. (Franklin) Modified the Inversion test plan for the combined ASCII file and PCF generators and for the new input files. (Franklin) Initiated work to update the sample read software package for the upcoming delivery to include suggestions made at a previous DMT meeting and to verify code written by Erin Whitley that prints out the data on the 5-record sample. (Franklin) 	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Ran four hours of SARB with ECMWF-based MOAs for Fred. Initial feedback is that the ECMWF data is as expected. (Coleman) Testing latest modifications to MOA_IO. (Coleman) Met with Dave Rutan to discuss changes to the surface albedo correction module. (Coleman) Wrote a wrapper script to execute both the ASCII file generator and the PCF generator scripts. (Coleman) Continued updating modules unique to the Synoptic SARB Subsystem. (Coleman) 	
7.2	Coleman	Combined with above.	

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12.0	Coleman	<ul style="list-style-type: none"> Finished correcting problems with MOA ECMWF and GEOS3 for upcoming delivery. (Caldwell) Made changes to MOA Test Plan. Added ECMWF information. Removed NCEP information based on email from Tom Charlock. Began implementing combined functions suggested in CERES System Engineering Committee minutes. (Caldwell) Received request for June and July 1999 DAO-GEOS2 MOA data from Sunny Sun-Mack. (Caldwell) Received request for monthly averaged DAO-GEOS2 and ECMWF-GEOS2 MOA from Fred Rose. Provided Mr. Rose with location of existing MOA for use in difference comparisons. (Caldwell) Making minor modifications to MOA_IO, and finishing up software bulletin. Plan to distribute to Data Management Team by end of week. (Coleman) 	
7.1	Nguyen/Raju	<ul style="list-style-type: none"> Completed the initial coding of the read program for ss7.1 output files for validation purposes. Started validating the TSI file contents. (Raju) 	
8.0	Raju/Nguyen	<ul style="list-style-type: none"> No new updates 	
10.0	Nguyen/Raju	<ul style="list-style-type: none"> Completed adding the effective pressures to the time series plot program. (Nguyen) Modified the web plot data program to output the effective pressures for Georgia Liu to add the global effective pressure difference plots to the web plot. Completed testing the web plots. (Nguyen) Continue searching for the new equation for the optical depth to replace the logarithm of the optical depth. (Nguyen) Studying Doelling code, the ceres program, to have better understanding how the program uses the GOES data. (Nguyen) Looking into placing attributes on the SRBAVG products. (Nguyen) 	
6.0	McKoy	<ul style="list-style-type: none"> Recreating test input to reflect metadata created with the modified meta_write module delivered with code. (Stassi) 	

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9.0	McKoy	Combined with above.	
11.0	Stassi/ Fan	<ul style="list-style-type: none">• The DAAC test runs for the GOES-8 June and July 1998 data core dumped. Investigated and discovered that the Toolkit metadata input file names limitation that caused problems for Tisa Gridding is also affecting GGEO. Delivered a modified version of the CERESlib meta_write module to the DAAC to be included in the GGEO code. We are also proposing the paths be excluded from the file names listed in the metadata. (Stassi)• Continued working on the GGEO cloud task. The current approach is to link entire cloud subsystem as a library to GGEO. Many details to work out. (Fan)	
CERESlib Stassi/ Fan		<ul style="list-style-type: none">• Added setVariables.csh, diff_ascii.csh, diff_logs.csh, and cmp_binary.csh scripts to the \$CERESLIB/bin directories, along with a few other utility scripts. These can be used to factor out job runtime differences when comparing output files to expected output. (Stassi)	
CM	Ayers	<ul style="list-style-type: none">• Tested TISA Averaging (Subsystems 7.1 and 10.0) and CERESlib and released them to the Langley DAAC. (Ayers)• Posted the latest “Lessons Learned” document to the web. (Franklin)• Initiated work to remove a name from a mailing list within the CM software. (Franklin)	
IST	Flug	<ul style="list-style-type: none">• Completed work on the new activity listing capability. Added code to make all of the pop-up windows resizable. Have just about completed work on the capability to list CERES commands and events on a per file basis for both EOS and TRMM.	