

Table 1: May 24, 2000 - Subsystem Status.

SS No.	SS Lead	Status	Problems
1.0	Escuadra /Cooper	<ul style="list-style-type: none"> Continued to maintain the TRMM housekeeping data plots on the web, so they could be viewed by TRW. (Filer, Hess, Spence) Continued work to update the CERES Noise program to gather data during the Azimuth scan test and determine if any Azimuth offsets exist for FM1 and FM2. There are several conditions to test for before a scan can be used for this purpose. Work is still in progress to add these tests and then make test runs to insure that the updates are working. (Escuadra) Continuing analysis of the TRMM data to determine a method to extract the radiometric data from the noisy data stream. The latest update to the TRMM submux table shows great improvement of data quality, but there may be other updates to the table, and SS1 software before we can gather the TRMM science data for CERES. (Escuadra, Hess, Spence) Continued monitoring Terra data production/ processing and providing data analysis support. Updating Terra Missing Data and Available Data spreadsheets and web pages. Due to problems at EDOS, the data for May has been very slow to arrive at LaRC. The problems have been fixed, but ephemeris and attitude data is still not being received for several days/weeks. (Cooper) Continued testing the Ada 95 compiler on darrin. Worked with Joe Stassi and Jill to finally get a proper version of CERESlib available on darrin. Began testing 24-hrs of TRMM data, there are small differences in values within BDSs between lightning and darrin, that have been found not to be related to software differences. These differences are very small, but are still being investigated. (Cooper) Continued to work on the Moon Radiance program inherited from Dale Walikainen. (Szewczyk) Continued TRMM/Terra operations/analysis support. (Weaver) 	

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2.0	Kizer	<ul style="list-style-type: none">• Rerun SS2 with new data ("NoFlatnessLimit") for TRMM May 1-7, 2000. (Kizer)• Continuing to look at updating the inversion code by incorporating F90 modules. Incorporating calls to cereslib Openfile and Closefile subroutines. Writing prologues for new modules. (Kizer)• Inspecting ERBE-like Terra and TRMM output plots and QC reports on the Web. (Walikainen, Kizer)• Completed ES8 record and scan subsetter. A translation of the octal flags is now processed in the program. (Kizer)• Began work on a CERES production processing tracking Web site which will provide information about the status of ERBE-like production processing. (Flug)• Designed the layout for the ERBE, ERBE Reprocessing, and CERES ERBE-like Data Validation Help Pages. Completed the CERES ERBE-like Help Page. (Yue, Flug)	
3.0	Kizer	<ul style="list-style-type: none">• Completed program to read EID6 input files and compare scene ids. (Kizer)• Continuing to look at updating the mtsa code by incorporating F90 modules. Incorporating calls to cereslib Openfile and Closefile subroutines. Writing prologues for new modules. (Kizer)• Continue with creating a program that will check multiple ascii QC reports. Looking into expanding program to work with html QC reports. (Walikainen)	

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4.1	Murray	<ul style="list-style-type: none">• Updated the Subset CloudVis region list, with latest regions, gridvalues, etc. (R. Brown)• Created Cloudvis data images for viewing. And began writing script to generate web pages for Cloudvis image files. (R. Brown)• Looked into automation of the process of running DX to create images. (R. Brown)• Worked on 1.6um calibration gain (15% gain). Worked with Yan Chen to re-create the start-up maps to include this gain. (Sun-Mack, Chen)• Communicated with Larry Stowe extensively. Modified the code to use water content map instead of MOA region water flag for the restriction on running AOT. Re-run the problem hour and posted the results on the web for Larry Stowe (and Pat Minnis) to view. Both of them are happy. (Sun-Mack)• Worked with Walt Miller when he found a problem when the Mask returns cloudy, but vint returns default. Investigating this. Corrected the problem. (Sun-Mack)• Staged MODIS data granules from the DAAC covering almost 4 hours. Set up processing to produce output files for evaluation of Cloud retrieval and for running convolution. Made modifications to the .met file LID's where identified. (Sun-Mack/Murray)• Modified the Cloud production code to only apply the diurnal correction to the MOA skin temperature when using the DAO data. It is _not_ applied when using the ECMWF data. (Murray)• Worked with the new compiler to verify that several old problems had been corrected. Both problems that affected the Clouds Subsystem appear to have been fixed. The CloudVis scanline length can be dynamically allocated and the QC report can handle multi-dimensional arrays of a complex type. Modifications were made to the code to remove the work arounds that were put in place when the problems were identified. (Murray)	
4.2	Murray	Combined with above.	

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4.3	Murray	Combined with above.	
4.4	Miller	<ul style="list-style-type: none">• Processed two hours of Terra CERES IES and MODIS level 1B. Created three of four intermediate SSF with the current code. Four hours per crosstrack hour. (Miller)• Reran convolution with the files reversed. Created fourth SSFI. The problem appears to be deallocating the IES structure when cookie dough is exhausted first. (Miller)• Implemented new full footprint areal definition in code. (Miller)• Modified PCF logical ids and code so correct .met files would be produced. (Miller)• Investigated missing effective pressure on imager pixels with Ms. Sun-Mack's assistance. These are scanlines less than the tile size caused by either missing data or end of file. (Miller)• Investigated missing scan lines on Terra SSF that appear to correspond to five minute granules. Cloud retrieval is investigating. (Miller)• Reviewed new SSF definitions. (Miller)	

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4.5	Nolan	<ul style="list-style-type: none">• Created 3 HDF SSFs using March 29, 2000 Terra Data, for Walt Miller. (Nolan)• Completed draft SW channel ADM module template for Norman Loeb. Initiated work to include changes requested by Norman. (Nolan)• Met with Norman Loeb to discuss design of stand-alone program that uses subsetted SSFs as input and executes the spectral correction and CERES inversion to TOA modules. Continued work on this program. (Nolan)• Combined the ASCII file generator and PCF generator for the new subsetted SSF PGE, tested the modifications, and created two scripts to use during SSI&T testing. (Franklin)• Reviewed changes to the Inversion Test Plan, made necessary modifications, and began verifying the Test Plan procedures for the new PGE. (Franklin)• Tested Inversion's HDF post processor on thunder using the n32 compiler to check out an HDF problem that Instrument found. No problem occurred using the Inversion code. (Franklin)• Summer Intern, Erin Whitley, began internship on May 22, 2000.	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none">• Continued implementation of logic to add a 5th level to the vertical flux profiles, along with logic to calculate pristine fluxes at the surface and TOA. While the new values are awaiting evaluation, the first test runs confirm that at least there are no changes to the data values that were there before. (Coleman)• Modified software to compare 2 CRS files to compare a CRS file with 4-level profiles against a CRS file with 5-level profiles. (Coleman)• Began work on a surface albedo history pre-processor. (Coleman)• Incorporated Dave Rutan's review comments on the validation region tables and distributed the updates to Tom Charlock. (Coleman)	

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7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none"> Modified RegridMOA to process a variable number of ECMWF vertical profile levels. (Caldwell) Corresponded with DAAC personnel concerning the acquisition of corrected ECMWF data for 2000. (Caldwell) Provided MOA product and description to Mandana Khaiyer at AS&M. (Caldwell) Provided information and scripts for subsetting ECMWF data to Bing Lin. (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 	
10.0	Nguyen/ Raju	<ul style="list-style-type: none"> Updated SRBAVG DPC to add TOA net flux, TOA GGEO clear-sky flux, changed parameter names and corrected the size file. (Nguyen) Corrected the water vapor beneath the cloud inversion code following Shashi Gupta's suggestion and tested the update. (Nguyen) Started updating the prologue sections for the modified TOA flux modules. (Raju) 	
6.0	McKoy	<ul style="list-style-type: none"> Continuing all the changes to the TISA Gridding Subsystem 6.0 software to handle multiple instrument processing. Currently testing these changes. (McKoy) Comparing the ES-9 HDF format to the SFC / FSW data format to see if the SFC and FSW can be made to look similar to the ES-9. (McKoy) 	
9.0	McKoy	Combined with above.	

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11.0	Stassi/ Fan	<ul style="list-style-type: none">• Discussed with Pat Heck and Sunny Sun-Mack the LBTM requirements for processing GEO pixels through the Clouds code. Pat thinks that this will be ready soon. I'm doing as much testing as possible in the meantime. (Stassi)• Tested the GGEO post-processor, and it ran correctly without any further changes. This uses a lot of memory and takes a long time and so I want to compare it to a previous non-memory-extensive method of processing. (Stassi)• Tested a run with two GOES-9 images. Both images process successfully when run individually, but the second image does not process correctly when the two are run together. I'm still investigating, but the problem seems to have something to do with how the Clouds code is initialized with each image. (Stassi)	
CERESlib Stassi/ Fan		<ul style="list-style-type: none">• Added modified versions of io.f90 and meta_param.f90 to the validation versions of CERESlib. (McKoy, Stassi)• Fixed the c_f90_interface_c.c function to work with the SGI F90 compiler on all SGI machines. Previously this function was only used by the Instrument subsystem with the NAG Fortran compiler. (Stassi)	
CM	Ayers	<ul style="list-style-type: none">• Made more modifications to the CM Home Page. (Franklin)• Began gathering input for the next CERES Subsystem Delivery Schedule. (Ayers)	
IST	Flug	<ul style="list-style-type: none">• No new updates	