

**Table 1: September 13, 2000 - Subsystem Status.**

| SS No. | SS Lead          | Status  | Problems   |
|--------|------------------|---|--|
| 1.0    | Escuadra /Cooper | <ul style="list-style-type: none"><li>• Continuing analysis of the TRMM data. (Hess, Spence)</li><li>• Continued monitoring Terra data production/ processing and providing data analysis support. (Cooper)</li><li>• Continuing work to determine if there are any Azimuth dependent offsets on Terra. (Escuadra)</li><li>• Gathering information for Coastline detection and three channel intercomparisons for the Science Team meeting. (Spence)</li><li>• Analyzing new Lunar Angles for Terra to coordinate with days that had several Moon in FOVs detected in the SS1 subsystem. (Weaver)</li><li>• Continued TRMM/Terra operations/analysis support. (Weaver)</li></ul>  | Unavailability of thunder/lightning and samantha has caused a delay in completing work for the Science Team Mtg. |
| 2.0    | Kizer            | <ul style="list-style-type: none"><li>• Generated March Terra-FM1 ES8 binary files for Norman Loeb. (Kizer)</li><li>• Discussed DAAC epilogue CER2.2P1 problem with Vertley Hopson. Looked into making PCF generator smarter to not include QC file names for months prior to instrument launch. (Kizer)</li><li>• Discussed additional changes needed in ERBE-like Operator's Manuals with Maria Mitchum. (Kizer)</li><li>• Continued verifying CERESlib meta_write.f90 module to accommodate the Terra and Aqua instrument sensors. Software bulletin was modified as suggested by Maria Mitchum. (Kizer)</li><li>• Began making changes to accommodate non-existing QC file names for months prior to instrument launch. (Walikainen)</li><li>• Continuing to make changes and add more functions to QC Checker software as suggested in meeting with Richard Green. (Walikainen)</li><li>• Continuing to inspect ERBE-like Terra and TRMM output plots and QC reports on the Web. (Walikainen, Kizer)</li></ul> |  |
| 3.0    | Kizer            | Combined with above.  |  |

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| 4.1    | Murray  | <ul style="list-style-type: none"> <li>• Began updating the MODIS, VIRS, and CRH web pages for the Science Team Meeting. (R. Brown)</li> <li>• Staged and processed 6 hours of imager data for Norman Loeb providing him with the pixel level results in a format that he could use. (Sun-Mack)</li> <li>• Staged all ARM site imager and MOA data for January - August 1998 and processed to compare the current results previous runs and the ground-based radar data. (Sun-Mack)</li> <li>• Resolved a problem in the MODIS stand-alone reader. (Sun-Mack)</li> <li>• Our 1.6um calibration caused the AOT values to be too high. Performed tests on AOT results with various 1.6um calibrations and derived new calibrations. Worked with Yan on creating new CRH start-up maps and worked with Qing on validating the new calibration and new start-up maps. (Sun-Mack)</li> <li>• Corrected and integrated the 3.7um models for both virs and modis data. Also integrated and tested an update to the VISST algorithm. (Sun-Mack,Murray)</li> <li>• Removed a hard-coded directory from the Welch algorithm. Coordinated the modifications with Todd Bernedes to be included in the delivery. Also examined the input data set usage. (Sun-Mack,Murray)</li> <li>• Began a delta delivery of the Cloud Code to CM. Things were made difficult by the unavailability of the SCF and samantha. (Murray)</li> <li>• Continued processing of the Validation months for verification of Cloud Algorithms. (R. Brown, Murray)</li> <li>• Corrected the cloud code to not pass the LBTM derived Cloud Property Results on to convolution. (Murray)</li> <li>• Modified the PCF Generator scripts to use "set =" rather than setenv where possible. This should eliminate some environment problems that have been experienced. (Murray)</li> </ul> |          |
| 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"><li>Validated new 1.6 um calibration and aerosol optical thickness output from convolution for Dr. Stowe. (Miller)</li><li>Corrected an error on the aerosol thickness areal coverage variable. (Miller)</li><li>Discussed constraints that could be used to choose CERES footprints for the aerosol study. (Miller)</li><li>Coordinated with cloud retrieval to remove LBTM cloud properties from cookie dough. (Miller)</li><li>Reprocessed two hours for Dr. Stowe, 1998050101 and 02. (Miller)</li></ul>  |          |
| 4.5    | Nolan   | <ul style="list-style-type: none"><li>Delivered 2 modified Inversion scripts to CM to correct problems found only during Codine testing at the DAAC. (Franklin and Nolan)</li><li>Continued work to update SSF read software and SSF 5 record sample package. Dynamic memory allocation is being added to the SSF read software so that any size SSF HDF file can be read. (Franklin and Nolan)</li><li>Completed a version of the SSF binary to HDF conversion program and binary SSF read software package that does not use the ECS Toolkit or CERESlib for Bruce Barkstrom and Mike Folk (NCSA). (Franklin and Nolan)</li><li>Created degraded PRES8s for March 2000 FM1 FAPS days and copied them to tape archive. (Nolan)</li><li>Created new HDF SSFs for hours 01 and 02 of May 01, 1998 PFM data and sent them to Linda Hunt for subsetting and distribution to Larry Stowe. (Nolan)</li><li>Initiated work to update SSF Subset software using new SSF type 117 definition. (Nolan)</li></ul> |          |
| 4.6    | Nolan   | Combined with above.  |          |

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| 5.0    | Coleman     | <ul style="list-style-type: none"> <li>Testing with a "Stowe SSF" (1998050101). The purpose of the testing is to check the implementation of logic to accommodate the latest SSF structure. There is absolutely no valuable scientific data being produced by SARB. All values are within range. (Coleman)</li> <li>Continuing to work on the surface albedo Pre-Processor. (Coleman)</li> </ul>   |          |
| 7.2    | Coleman     | Combined with above.   |          |
| 12.0   | Coleman     | <ul style="list-style-type: none"> <li>Continuing work to further automate the Pre-Processor that subsets ECMWF data that is required by the Regrid MOA Subsystem. (Caldwell)</li> </ul>   |          |
| 7.1    | Nguyen/Raju | <ul style="list-style-type: none"> <li>No new updates</li> </ul>   |          |
| 8.0    | Raju/Nguyen | <ul style="list-style-type: none"> <li>No new updates</li> </ul>   |          |
| 10.0   | Nguyen/Raju | <ul style="list-style-type: none"> <li>Testing codes using the GGEO cloud and GGEO clear-sky radiances.</li> <li>Plotted 8 months of surface flux data for ARM, BSRN, CMDL and Central Facility sites.</li> <li>Updated the SRBAVG Data Product Catalog to be suitable with the new HDF ERBE-like format.</li> <li>Support the CERES Science Team Meeting.</li> </ul>  |          |
| 6.0    | McKoy       | <ul style="list-style-type: none"> <li>An error was found in the SFC data generated at the SCF. The data written to the SFC files was incorrect, but internally the data was correct at point of the Fortran90 write call. The SFC data structure was truncated at the time of the write call. Inserting an inquire statement to obtain the SFC record structure size and the SFC data file record size prior to write call corrected the problem. Further investigation needs to be done to determine the exact cause of the problem.</li> <li>Re-running Subsystem 9.0 at the SCF for the month of February 1998 for validation.</li> <li>Modifying the design of the SFC HDF data product.</li> </ul> |          |
| 9.0    | McKoy       | Combined with above.   |          |

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| 11.0                      | Stassi/<br>Fan | <ul style="list-style-type: none"><li>• Modified cloud processing routines to return average radiance values rather than visible reflectance and infrared brightness temperature. (Stassi)</li><li>• Submitted jobs to run entire month of February 1998 for all four satellites. About half the jobs completed successfully. Investigating the problems with the failed jobs. Created a GGEO file for testing in Tisa Averaging with 23 days of GMS-5 data and 15 days of GOES-8 data. (Stassi)</li><li>• Modifying post-processing code to create monthly plots of the following three cloud values: percent cloud, total cloud temperature, and total cloud optical depth. (Stassi)</li></ul> |          |
| CERESlib<br>Stassi/ Ayers |                | <ul style="list-style-type: none"><li>• Checking changes to the moa_read_io.f90 module before adding it into the CERESlib CVS repository. (Stassi, Kizer)</li></ul>  |          |
| CM                        | Ayers          | <ul style="list-style-type: none"><li>• No SCCRs submitted since last DMTM. (Ayers)</li><li>• Expecting the Clouds re-delivery any time. (Ayers)</li></ul>   |          |
| IST                       | Flug           | <ul style="list-style-type: none"><li>• No new updates.</li></ul>  |          |