

Table 1: December 19, 2001 - System Issues and Status

Activity	Lead	Status
Processing Strategy	Geier	<p>As of 12/17/01</p> <p>Active processing requests in order of priority are:</p> <ul style="list-style-type: none"> • Terra Beta2 SSF for Apr/May '01, Nov/Dec '00 on going (PR 46-01, 47-01, 67-01, 68-01) • TRMM Beta1 FSW for all 9 months of TRMM, expected to start production this week (PR 57-01) • TRMM Edition2-VIRSonly SSFs for Sept '98 through July '01 on going (PR 43-01, 44-01) <p>Processing requests expected to be active within 3 weeks are:</p> <ul style="list-style-type: none"> • Terra Beta2 CRS, and FSW for Apr/May '01, Nov/Dec '00 (waiting on SARB, and TISA gridding deliveries, SCCR# 315, and SCCR# 308/309) • Terra Beta2-overCLAMs CRS for July 2001 (waiting on SARB SCCR# 315) • GGEO processing to support 9 mo. of TRMM (GGEO SCCR# 311) <p>Simmering Issues:</p> <ul style="list-style-type: none"> • ECMWF MOA vs. DAO MOA GEOS 3.3.9 data expected to start for data date 12/6/01. Need to checkout MOA as soon as first data arrives. If MOA successful, start running it as ASDC standing request. Test Clouds using DAO MOA. If successful, request Dec 2001 Terra Beta2 SSF be run at ASDC. If Dec 2001 looks good, put in standing request for Terra SSF. (NOTE: CERES will not get GEOS 3.3.9 data for Aug 1 - Dec 6. Reprocessing of GEOS for full consistent set won't occur until GEOS 4 time frame.) • Incorporating MODIS aerosols (10 km and gridded) into CERES Terra products. HDF SSF to add 2 Vgroups (1 land, 1 ocean); binary SSF to contain new parameters in a complimentary DA file. Expect ~15 land aerosol parameters and ~15 ocean aerosol parameters. • Terra Instrument and ERBElke processing including gain correction, daily spectral response/correction files, and generating baseline and Edition2 output products. • TISA averaging scenario to include intercalibration between geostationary satellites and imager and rerunning GGEO using recalibrated input coefficients and turning on cloud code. No TRMM Beta3 SFC run is needed to generate TRMM Beta3 SRBAVG. Only Feb '98 TRMM Beta3 SRBAVG will be run initially.

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Activity	Lead	Status
CM	Ayers	<ul style="list-style-type: none"> • See Table 2 for SCCR activity since the last DMT meeting. SCCRs for Subsystems 1-4 that need to be reviewed follow Table 2. (Ayers) • Tested CERESlib (SCCR 313), TISA Gridding (SCCR 309), and Clouds (SCCR 314) and released them to the ASDC. (Ayers) • Currently testing GGEO (SCCR 311). (Ayers) • Delivered the SFC Sample Read Package (SCCR 317) to the ASDC. (Ayers) • Recompiled Inversion PGE CER4.5-6.1P1 with the latest version of CERESlib (SCCR 316). (Ayers) • Closed SCCRs 305 and 310. (Franklin)

Table 2: SCCR Activity December 3 at 1:00pm - December 17 at 3:30pm

SCCR	S	U	A	C	D	SS	Page No.	Comments
313	X		X			CERESlib		
314	X	X	X			4.1-4.4	4	
315	X		X			5		
316	X		X			4.5-4.6	6	
317	X		X			9.0		

S=Submitted; U=Updated; A=Approved; C=Closed; D=Disapproved; SS=Subsystem

CERES Software Configuration Change Request Submittal

Subsystem: Clouds

SCCR Date: 12/05/2001

SCCR Number: 314

Description of Change (Science):

None

Reason for Change (Science):

None

Description of Change (non-Science):

1. Updated makefile

Reason for Change (non-Science):

1. Modified makefile to compile PGEs CER4.1-4.1P1 and CER4.1-4.1P2

Est. Time to Complete Changes: Done

Planned Delivery Date : 12/05/01

Impact : Clouds

Date: 12/05/2001

Status: SUBMITTED

Originator: BROWN, RICKY R. (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 314:

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Description of Change (Science):

1. Use imager relative azimuth angle for aerosol optical thickness instead of CERES relative azimuth.

Reason for Change (Science):

1. The radiance values are taken with respect to the imager solar zenith.

Description of Change (non-Science):

1. Link to the CERESlib version of GRing module.

2. Update makefile to compile PGE's CER4.1-4.1P1, CER4.1-4.1P2, CER4.1-4.2P1 and CER4.1-4.3P1

Reason for Change (non-Science):

1. Clean up interface now that module is in CERESlib.

2. To recompile code at the ASDC.

Est. Time to Complete Changes: 1 week

Planned Delivery Date : 12/12/01

Impact : Clouds

Date & Time: 2001-12-07 15:56:59

Originator: BROWN, RICKY R. (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: Inversion SCCR Date & TIME: 2001-12-11 11:18:55 SCCR No.: 316

Description of Change (Science):

N/A

Reason for Change (Science):

N/A

Description of Change (non-Science):

Request for PGE CER4.5-6.1P1 to be recompiled using updated MOA I/O module in CERESlib

Reason for Change (non-Science):

Recompilation required due to MOA I/O module update to fix a problem that only occurred on Dec 31st data

Est. Time to Complete Changes: n/a

Planned Delivery Date : N/A

Impact : No impact to other subsystems

Originator: NOLAN, SANDY K. (SAIC)

Table 3: December 19, 2001 - Subsystem Status

SS No.	SS Lead	Status	Problems
1.0	Cooper/ Escuadra	<ul style="list-style-type: none">Continued working with Martial's code in preparation to take over the intercalibration studies. (Szewczyk)Continued work on the program to create the BDSIs. Updating program to production standards. (Escuadra)Continue work tracking CERES Terra data arrival at ASDC. As of 14 December, 100% of September 2001 data is available at ASDC. (Cooper)Began creating preliminary documentation for the new PGE CER1.3P1 -- Create BDSI. (Cooper)Submitted Abstract to SPIE on 3-Channel Intercomparison and Direct Comparison of Terra data. Began writing the paper for the abstract. (Spence)	
2.0	Kizer	<ul style="list-style-type: none">Efforts continued to conform the Spectral Correction Coefficient (SCCs) generation software to production coding rules. The code is in its final stages of completion and validation of code has started. (Walikainen, Kizer)Modifications continued on test version of SS2 and SS3 software to produce the ES-9 and ES-4 data products on the CERES 1-deg grid. (Kizer)Continuing to determine a systematic approach to validating ES-8 & ES-4 gif files. Developing off-line code to characterize and validate geo-located radiances. Found bit flips not flagged during "3 Channel Consistency Check" in Subsystem 2.0 software. (Walikainen)Continuing to examine the 'production' email generated by the QC checker software. (Walikainen)Continuing to inspect ERBE-like Terra and TRMM output plots and QC reports on the Web. (Walikainen, Kizer)	
3.0	Kizer	Combined with above.	

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SS No.	SS Lead	Status	Problems
4.1	Sun-Mack	<ul style="list-style-type: none"> Continued to stage CloudVis data for Edition2 TRMM-VirsOnly, produce images and post the images on the web. Tested changes made to idl batch program. (R.Brown). Worked on Cloud Subsystem delivery for SCCR #314. (R.Brown, Sun-Mack) Received new clear sky reflectance/albedo snow models over Arctic and Antarctica for both summer and winter for 0.6 um, 1.6 um and 3.7 um. Wrote the code to read the models, and to interpolate models for each pixel. Tested and validated the snow models by running polar regions with clear observations. (Sun-Mack) With the modified phase algorithm, CERES/MODIS intercomparison cases were re-run. Posted the results on the web, and validated the results with Pat Minnis. (Sun-Mack) Under the requests from Louis Nguyen and Dave Doelling, wrote a portable/off-line MODIS 2km data reader package, along with README. (Sun-Mack) 	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	<ul style="list-style-type: none"> Created daily binary QC files for TRMM VIRSonly SSFs for March and April, 1999. (Miller) Monitored VIRSonly production. (Miller) Modified the third generation Stowe aerosol code to run as a stand-alone module to calculate the errors between using CERES relative azimuth and the imager. Produced statistics for TRMM and Terra, RAPS and crosstrack. A summary was provided for the various SSF quality pages. (Miller) Updated CER4.1-4.1P1 convolution code to pass imager relative azimuth into the Stowe aerosol optical thickness algorithm and use the CERESlib version of the GRing module. (Miller) 	

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4.5	Nolan	<ul style="list-style-type: none"> Continued to work on the SSF HDF read/write module. (Franklin) Created 49 hours of SSF data from CER4.5-6.1P1 for the SARB subsystem using interim SSFs produced by the Clouds subsystem. (Franklin) Modified the SSF HDF code to place 15 dummy SSF parameters in each of two new Vgroups ('MODIS_land_aerosols' and 'MODIS_ocean_aerosols') on the SSF HDF file, so the ASDC can use the HDF file to test their subsetting software. The correct parameters will be put on the SSF at a later date. Testing of the updated code was initiated. (Franklin) Became familiar with View_HDF. Verified current work on the NADIR product with View_HDF. (Hoppe) Recreated the gif images for the Description/Abstract of the SSF Collection Guide using the Edition2A SSF. (Hoppe) Attended MODIS Aerosols on SSF meeting. (Nolan) Recompiled PGE 4.5-6.1P1 with updated MOA IO module in CERESlib and tested new executable with Dec 31, 2000 data. Created SCCR to request that production version of PGE be recompiled. (Nolan) Recompiled PGE CER4.5-6.3P1 with the new LW model A module. Created SSF using March 01, 1998 hour 5 Edition2A TRMM data. (Nolan) 	
4.6	Nolan	Combined with above.	
5.0	Coleman	<ul style="list-style-type: none"> Consumed with preparing for current delivery. (Coleman, Caldwell) 	
7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none"> No new updates. 	
7.1	Nguyen	<ul style="list-style-type: none"> No new updates. 	

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SS No.	SS Lead	Status	Problems
8.0	Nguyen	<ul style="list-style-type: none"> Continued validating total-sky SW TOA flux for the GGEO cloud method. Compared the results of the GGEO radiance and GGEO cloud methods. Incorporating the clear-sky SW TOA flux for the GGEO cloud method. (Nguyen) Read one-hour SSF with the LW model A surface flux. Chose only the tropical area and separated land, ocean and coastal areas. Plotted to compare LW model A and LW model B surface flux. (Nguyen) 	
10.0	Nguyen	<ul style="list-style-type: none"> No new updates. 	
6.0	Raju	<ul style="list-style-type: none"> No new updates 	
9.0	Raju	<ul style="list-style-type: none"> Worked on the sample read package for SFC Beta2 Product and delivered the package to CERES CM. (Raju) Investigated the PMOA process failure for December 2000 run during operational testing and found that it is due to the problem in the moa I/O module. (Raju) Attended the MODIS Aerosols on CERES/TERRA SSF Product meeting and the NPOESS meetings. (Raju) Updated DPC document and sent it to CM. (Raju) 	
11.0	Stassi	<ul style="list-style-type: none"> Completed modifications to add instantaneous plots for regionally averaged cloud parameter correlations between GGEO and VIRS data. (Raju) Modified subsystem tar procedures to include input and expected output from new PGEs. (Stassi) Wrote script to link PMOA files from production directory during CM testing. (Stassi) Delivered GGEO subsystem to CM. (Stassi) Updated GGEO Operator's Manual and Test Plan document. (Stassi) 	
CERESlib Stassi/Ayers		<ul style="list-style-type: none"> No updates. 	