

## October 8, 2003 - System Issues and Status

**Table 1: Process Strategy/Geier as of 10/08/03**  
**Active Requests in order of priority (1 of 2)**

<b>Production Request (PR)</b>	<b>Satellite</b>	<b>Production Strategy</b>	<b>Data Product</b>	<b>Data Dates</b>	<b>Special Status</b>
PR 98-03		GEOS4	MOA	2/24/00 - 3/31/00	GEOS4 MOA to be run as soon as code is promoted.
PR 96-03, 97-03	Terra	Edition2-QC	SSF	3/00 - 2/03	ValR1 Clouds must be approved before Edition2-QC starts.
PR 95-03	Terra	Beta2	SFC	3/00 - 2/03; every 3rd month	No delivery; run for same months as ValR9 GGEO using Edition2-QC.
PR 90-03		ValR8B	GGEO	9/00, 10/00, 11/02, 1/03	Done 9/27/03.
PR 92-03	Terra	Beta5 (Inversion only)	SSF	1/01 - 10/02	8/29 Inversion Delivery; first cut at Terra ADMs; every other SSF FOV if vzen < 63 deg.
PR 94-03	Terra	Beta5	CRS	1/01 - 12/01	Beta5 SSF input; no delivery needed.
PR 93-03	Terra	Beta5	FSW	1/01 - 12/01	New CRS parameters NOT included; Beta5 CRS input.
PR 77-03	Terra	Beta4	CRS	<del>1/01</del> , 4/01, 7/01, 10/01	1/01 can't be run - no MOD08.
Standing requests PM-PR 23-02 to 30-02 and PM-PRs 1-03, 3-03 to 6-03	Aqua	Baseline1 Edition1	BDS/ ERBELike BDS/ ERBELike	For 6/03 - present	
Standing request PM-PR 2-03	Aqua/ Terra	Edition1	ES4/ES9	For 6/03 - present	
Standing requests AM-PR 1-00 to 7-00	Terra	Edition1	BDS/ ERBELike	For 6/03 - present	

**Table 1: Process Strategy/Geier as of 10/08/03**  
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<b>Production Request (PR)</b>	<b>Satellite</b>	<b>Production Strategy</b>	<b>Data Product</b>	<b>Data Dates</b>	<b>Special Status</b>
PR 94-02		ECMWF-GEOS4	MOA	Through 9/03	
PR 25-03, 26-03		ECMWF-GEOS4	PMOA	Through 9/03	
M-PR 3-02		NSIDC-NES-DIS	EICE ESNOW	Standing request	
PR 96-03, 97-03	Terra	Edition2-QC	SSF	3/03 - 6/03	Run at LOW priority after 2/03 finishes.
PR 61-03	Terra	Beta1	Synoptic SARB	1/01, 4/01, 7/01	<b>ON HOLD</b> Requires redelivery currently scheduled 10/3/03. Full delivery fixes segmentation faults, rerun TRMM data.

**Table 2: Process Strategy/Geier as of 10/08/03  
Coming Soon (1 of 2)**

Active Month	Satellite	Processing Strategy	Data Product	Data Dates	Comments
9/03	Terra	ValR1	SSF	Several days	Waiting on decision whether to use GEOS4 MOA or ECMWF MOA as input.
10/03		ValR9	GGEO	3/00 - 2/03; every 3rd month	10/3/03 delivery date.
	Terra	Beta3	SRBAVG	3/00 - 2/03; every 3rd month	No delivery.
11/03	Terra	ValR2 (Inversion only)	SSF	Several days, up to 2 month	Delivery currently scheduled for 10/24/03. This must be approved before Edition2A starts.
	Terra	Edition2A (Inversion only)	SSF	3/00 - 6/03	Production starts once ValR2 approved. Delivery currently scheduled for 10/24/03.
	TRMM	Beta2	Synoptic SARB	4/98, 7/98, 8/98	Rerun 3 months of SYNI to use as input for SYN/AVG/ZAVG.
	TRMM	Beta1	SYN/AVG/ZAVG	4/98, 7/98, 8/98	Delivered 8/22; If compressed HDF available by 10/17, code will be redelivered. Do not want to process until SYNI reprocesses TRMM months.
	Terra	Beta1	SYN/AVG/ZAVG	1/01, 4/01, 7/01	
	Aqua	Beta2	SSF	10/02	10/10/03 delivery needed. Include renamed MODIS aerosol parameter; 4x2 MODIS; every other SSF FOV when vzen < 63 deg; 7/1 Inversion delivery handles latest SRF.
	Aqua	Beta1	CRS	10/02	Preprocessor redelivery needed; delivery needed 10/10/03.
	Terra	Beta6	FSW	1/01 - 12/01	10/31/03 delivery. Picks up new CRS parameters
	Aqua	Beta1	FSW	0/02	Requires redelivery of 6.3; currently scheduled together with Terra delivery that picks up additional CRS parameters; delivery expected 10/31/03.
1/04	Terra	Beta2	TSI	3/00 - 2/01	Delivery need date 11/7/03.

**Table 2: Process Strategy/Geier as of 10/08/03  
Coming Soon (2 of 2)**

<b>Active Month</b>	<b>Satellite</b>	<b>Processing Strategy</b>	<b>Data Product</b>	<b>Data Dates</b>	<b>Comments</b>
	Aqua	Beta1	TSI		Not on Bruce's schedule.
	Aqua	Beta1	Synoptic SARB		Not on Bruce's schedule.
	Aqua	Beta1	SYN/AVG/ ZAVG		Not on Bruce's schedule.

**Table 3: October 8, 2003 - System Issues and Status**

<b>Activity</b>	<b>Lead</b>	<b>Status</b>
CM	Ayers	<ul style="list-style-type: none"> <li>• See Table 4 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 4. (Ayers)</li> <li>• Tested the SARB (SCCRs 468 &amp; 469), TISA Gridding (SCCR 471), and Regrid MOA (SCCR 473) deliveries and released them to the ASDC. (Ayers)</li> <li>• Delivered the Clouds S'COOL data file for August 2003 to the ASDC. (Ayers)</li> <li>• Delivered various updated files and documentation to the ASDC. (Ayers, Saunders)</li> <li>• Currently testing Inversion (SCCR 472).</li> </ul>

**Table 4: SCCR Activity September 25 at 2:30 p.m. - October 8 at 12:30 p.m.**

<b>SCCR</b>	<b>S</b>	<b>U</b>	<b>A</b>	<b>C</b>	<b>D</b>	<b>SS</b>	<b>Page No.</b>	<b>Comments</b>
473	X		X			12	6	
469			X			5		
461				X		4.5-4.6		

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

## **CERES Software Configuration Change Request Submittal**

Subsystem: MOA                      SCCR Date & TIME: 2003-09-30 16:43:38                      SCCR No.: 473

Description of Change (Science):  
None

Reason for Change (Science):  
None

Description of Change (non-Science):  
Modifications to ASCII file generator to enable production of new GEOS4 data at ASDC.

Reason for Change (non-Science):  
Filenames for new GEOS4 data have changed from previous versions. New filenames are used when GEOS4 data is primary input to RegridMOA.

Affected PGEs:                      None

Est. Time to Complete Changes:    2 days  
Planned Delivery Date:              October 3, 2003  
Impact:                                  None

Originator: CALDWELL, THOMAS E. (SAIC)

**Table 5: October 8, 2003 - Subsystem Issues and Status (1 of 4)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
1.0	Cooper	<ul style="list-style-type: none"> <li>Continued tracking receipt of Aqua and Terra data. (Cooper, Snyder)</li> <li>Began processing of Terra-Aqua Intercomparison data for June 2003. (Szewczyk)</li> <li>Reprocessing CERES/GERB validation data to further investigate GERB spectral response problems. (Szewczyk)</li> <li>Processing and analyzing data collected over the Valencia Anchor Station. (Szewczyk)</li> <li>Began investigating the possibility of trapping and flagging radiance measured during Solar Eclipse. (Walikainen)</li> </ul>	
2.0	Kizer	<ul style="list-style-type: none"> <li>Modified ES8 nadir direct compare scatter plots for unfiltered radiances and fluxes. Plots were generated and presented to Kory for data study. Software was added to test version of ERBE-like PGE software at the SCF. (Kizer)</li> <li>Continued development and delivered hdf file compression utility for production software testing at the SCF only. Additional modifications are planned before use in production at the ASDC. (Kizer)</li> <li>Continuing to examine the production email generated by the QC checker software. (Walikainen)</li> <li>Continuing to inspect ERBE-like Aqua and Terra output plots and QC reports on the Web. (Walikainen, Kizer)</li> </ul>	
3.0	Kizer	Combined with above.	
4.1	Sun-Mack	<ul style="list-style-type: none"> <li>Completed processing CloudVis images for TRMM-VIRS Edition2 for the Eastern and Central Australian regions from November 1998 through December 1999, and for Terra-MODIS Edition1A for the Tropical Western Pacific region from February 2000 through May 2002. (R.Brown)</li> </ul>	

**Table 5: October 8, 2003 - Subsystem Issues and Status (2 of 4)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
4.2	Sun-Mack	<ul style="list-style-type: none"><li>Produced nighttime and total results for Eco and Zonal statistics for TRMM-VIRS Edition2 (199801 - 200107) and Terra-MODIS Edition1A (200003-200210). (R.Brown)</li></ul>	
4.3	Sun-Mack	<ul style="list-style-type: none"><li>Worked on ECMWF and DAO GEOS4.0.3 comparisons. Communicated very often with Pat Minnis and Bruce Wielicki. (Miller, Chen, Trepte, Gibson, Sun-Mack)</li></ul>	
4.4	Miller	<ul style="list-style-type: none"><li>Testing of Toolkit 5.2.9 on the cloud and convolution executables was completed. No issues were identified. (Miller)</li><li>Ten days of data was processed using both GEOS4 and ECMWF MOA data. (Miller)</li><li>The Operator's Manual and scripts were updated to allow the version of MODIS radiance and geolocation (MOD02 and MOD04) and MODIS aerosol (MOD04) to be specified on the command line of the PCF Generator. (Miller)</li><li>Assisted ASDC in porting clouds and convolution to the Linux cluster. (Miller)</li></ul>	
4.5	Nolan	<ul style="list-style-type: none"><li>Recently submitted modified PGE CER4.5-6.1P2 was not running properly on warlock. It was discovered that an additional Fortran 90 module gauleg.f90 was being compiled instead of the intended Fortran 77 module gauleg.f. (Hoppe)</li><li>Studied the Erbe-like plotting software for possible use in inversion. (Hoppe)</li></ul>	
4.6	Nolan	Combined with above.	



**Table 5: October 8, 2003 - Subsystem Issues and Status (3 of 4)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
5.0	Coleman	<ul style="list-style-type: none"> <li>Completed SCF processing of the four days of CRS data with both ECMWF-based MOAs and GEOS403-based MOAs. (Caldwell)</li> <li>Delivered expected output and an updated Test Plan for the recompile of the CRS HDF Post-Processor to capture the ADMgeo SDS. (Caldwell)</li> <li>Working with ASDC to resolve issues with new deliveries of CER5.4P1 and CER5.0P1. (Caldwell, Coleman)</li> <li>Updated CRS DPC tables to include the cloudy skies/no aerosol flux information. Draft was distributed to SARB Working Group for review, and feedback from group has been implemented and delivered to documentation. (Coleman)</li> <li>Devising a plan for implementing the "Seijay Solver". (Coleman)</li> <li>Becoming familiar with SARB Software, especially the QC Post-Processor. (Zentz)</li> </ul>	
7.2	Coleman	<ul style="list-style-type: none"> <li>Preparing a program to check the ranges of all SYNI and TSI parameters in effort to determine why TISA cannot ingest SYNI product. (Coleman)</li> </ul>	
12.0	Coleman	<ul style="list-style-type: none"> <li>Delivered Regrid MOA scripts to allow for use of GEOS403 data. (Caldwell)</li> </ul>	
7.1	Nguyen	<ul style="list-style-type: none"> <li>Temporary adding the time-series plots in the TOA fluxes to compare with the local time history plots from SS10 for validation purpose. (Nguyen)</li> </ul>	
8.0	Nguyen	<ul style="list-style-type: none"> <li>No updates. (Nguyen)</li> </ul>	
10.0	Nguyen	<ul style="list-style-type: none"> <li>Created one month of January 2001 SRBAVG Terra FM1 to check the zonal, global means of the albedos and the TOA net fluxes. (Nguyen)</li> </ul>	

**Table 5: October 8, 2003 - Subsystem Issues and Status (4 of 4)**

<b>SS No.</b>	<b>SS Lead</b>	<b>Status</b>	<b>Problems</b>
6.0	Raju	<ul style="list-style-type: none"> <li>FSW I/O routines were modified to handle both record structures (with/without new parameters) and to facilitate end user easy access to both versions of FSW files. CER6.1P1, CER6.2P1 PGE validation runs were made at SCF using TRMM and Terra CRS inputs. (Raju)</li> <li>PGE CER6.3P1 process code updates were completed to write new parameters onto FSW HDF product. (Raju)</li> <li>Work was started to write overlap hours, requested by Dave Young (RAB) onto FSW binary files. (Raju)</li> </ul>	
9.0	Raju	<ul style="list-style-type: none"> <li>No updates. (Raju)</li> </ul>	
11.0	Stassi	<ul style="list-style-type: none"> <li>Dave Doelling provided a Fortran function, tir_met_coef(), and a C function, read_coeff(), to access the latest calibration information to calibrate the METEO-5 and METEO-7 infrared channels. This code was incorporated into the b1met_lib directory and is being tested. (Stassi)</li> <li>The inconsistencies between the GGEO subsystem and the latest delivery of the Clouds subsystem have been resolved. GGEO is using a modified form of the previous version of the HourQC.f90 file. (Sun-Mack, Stassi)</li> </ul>	
CERESlib Stassi/Ayers		<ul style="list-style-type: none"> <li>The HDF compression code was added to CERESlib on the SCFs. (Kizer, Stassi)</li> <li>The F90LIB variable in the NAG-64 versions of the ceres-env.csh scripts on thunder was modified to explicitly point to the static version of the library (libf90.a) rather than giving the option to use the dynamic version of the library (libf90.so). (Stassi)</li> </ul>	