# July 28, 2004 - System Issues and Status

## Table 1: Process Strategy/Geier as of 07/28/04
## Active Requests in order of priority (1 of 3)

| Production Request (PR) | Satellite | Production Strategy | Data Product (SS#) | PGEs | Data Dates | Special Status |
|---|---|---|---|---|---|---|
| PR 57-04 | Aqua | ValR1 | SSF (SS4.5-6)<br><br>Inversion | 4.5-6.1P3<br>4.5-6.2P2<br>4.5-6.4P1 | 7/02, 12/02 | Done. |
| PR 56-04 | Aqua | ValR1 | SFC (SS9) | 9.2P1<br>9.3P1<br>9.4P1 | 7/02, 12/02 | Done. |
| PR 61-04 | Aqua | Edition1A | SSF (SS4)<br><br>Clouds | 4.1-4.1P3<br>4.1-4.2P1<br>4.1-4.2P2<br>4.1-4.3P1 | 7/02 - 6/03 | **HOLDING - waiting on resolution from Clouds.** |
| PR 60-04 | Aqua | Edition1A | SSF (SS4)<br><br>Inversion | 4.5-6.1P3<br>4.5-6.2P2<br>4.5-6.4P1 | 7/02 - 6/03 | **HOLDING - waiting on verification of ValR1.** |
| PR 59-04 | Aqua | Edition1A | SFC (SS9) | 9.2P1<br>9.3P1<br>9.4P1 | 7/02 - 6/03 | **Requires delta delivery to accommodate year boundaries.** |
| Standing requests AM-PR 1-00 to 7-00 | Terra | Edition1 | BDS/ ERBElike (SS1-3) | 1.1P3<br>1.2P1<br>1.3P1<br>1.3P2<br>2.1P1<br>2.2P1<br>2.3P1<br>2.3P2<br>3.1P1<br>~~3.2P2~~ | For 7/04 - present | DO NOT PROCESS 3.2P2 - it is on hold. |
| Standing requests PM-PR 7-03A to 10-03 | Aqua | Edition1 | BDS/ ERBElike (SS1-3) | 1.1P5<br>1.2P1<br>1.3P1<br>1.3P2<br>2.2P1<br>2.3P1<br>2.3P2<br>3.1P1<br>~~3.2P2~~ | For 7/04 - present | DO NOT PROCESS 3.2P2 - it is on hold. |

**Table 1: Process Strategy/Geier as of 07/28/04**
**Active Requests in order of priority (2 of 3)**

| Production Request (PR) | Satellite | Production Strategy | Data Product (SS#) | PGEs | Data Dates | Special Status |
|---|---|---|---|---|---|---|
| Standing requests AM-PR 8A-02 to 11-02 | Terra | Edition2 | BDS/ ERBElike (SS1-3) | 1.2P1<br>1.3P3<br>2.2P1<br>2.3P1<br>2.3P2<br>2.4P1<br>3.1P1<br>~~3.2P2~~ | For 1/04 - present | **HOLDING - waiting for Aqua Gains and SRF to be delivered and associated ValRx to run.**<br><br>DO NOT PROCESS 3.2P2 - it is on hold. |
| Standing requests PM-PR 11-03, 13-03 to 17-03 | Aqua | Edition2 | BDS/ ERBElike (SS1-3) | 1.3P3<br>1.2P1<br>2.2P1<br>2.3P1<br>2.3P2<br>2.4P1<br>3.1P1<br>~~3.2P2~~ | For 3/04 - present | **HOLDING - waiting for Aqua Gains and SRF to be delivered and associated ValRx to run.**<br><br>DO NOT PROCESS 3.2P2 - it is on hold. |
| Standing request PM-PR 12-03 | Aqua/ Terra | Edition2 | ES4/ES9 (SS3) | 3.2P1 | For 1/04 - present | **HOLDING - waiting for both Terra and Aqua to have processed Edition2 data beyond 1/04.** |
| PRs 60-04, 61-04 | Aqua | Edition1A | SSF (SS4) | 4.1-4.1P3<br>4.1-4.2P1<br>4.1-4.2P2<br>4.1-4.3P1<br>4.5-6.1P3<br>4.5-6.2P2<br>4.5-6.4P1 | 7/03 - 12/03 | **HOLDING - waiting on verification of ValR1.** |
| M-PR 3-02 | | NSIDC-NESDIS | EICE ESNOW (SS4.1) | 4.1-4.0P1 | Standing request | |
| M PR 2-04 | | GEOS4 | MOA (SS12) | 12.1P1 | 6/04 - present | Priority of MOA/ PMOA has dropped because ASDC is current.<br>Standing request to process data as it arrives. |
| M PR 1-04 | | GEOS4 | PMOA (SS9.1) | 9.1P1 | 6/04 - present | |

**Table 1: Process Strategy/Geier as of 07/28/04**
**Active Requests in order of priority (3 of 3)**

| Production Request (PR) | Satellite | Production Strategy | Data Product (SS#) | PGEs | Data Dates | Special Status |
|---|---|---|---|---|---|---|
| PR 63-04 | Aqua | Beta1 | CRS (SS5) | 5.0P1<br>5.1P1<br>5.4P1 | 7/02 - 6/03 | **HOLDING - waiting on code to promote and SSF availability** |
| PR 62-04 | Aqua | Beta1 | FSW (SS6) | 6.1P1<br>6.2P1<br>6.3P1 | 7/02 - 6/03 | **HOLDING - waiting on CRS availability.** |
| PRs 60-04, 61-04 | Aqua | Edition1A | SSF (SS4) | 4.1-4.1P3<br>4.1-4.2P1<br>4.1-4.2P2<br>4.1-4.3P1<br>4.5-6.1P3<br>4.5-6.2P2<br>4.5-6.4P1 | 1/04 - 6/04 | **HOLDING - waiting on Cloud resolution and on IES avail-ability.** |

**Table 2: Process Strategy/Geier as of 07/28/04**
**Coming Soon (1 of 2)**

| Active Month | Satellite | Processing Strategy | Data Product (SS#) | Data Dates | Comments |
|---|---|---|---|---|---|
| | Terra | ValR5 | SSF(SS4) | 12/01, 6/02 | Inversion only (alternate main) delivery 7/9/04 & 7/16/04. |
| | Terra | ValR5 | CRS(SS5) | ? | Delivery 6/25/04. |
| | Terra | Beta2 | Synoptic SARB (SS7.2) | 3/00, 4/00, 1/01, 7/01, 10/01 | 6/18/04 delivery. |
| | TRMM | Beta3 | Synoptic SARB (SS7.2) | 9 mo | 6/18/04 delivery - lower priority than TRMM. |
| 7/04 | Terra | Edition2B | SSF (SS4.5-6) | 50 months | Updated ADMs, code correction, correct clear area coverage as needed (50-60 deg lat), new cloud classification parameter; delivery expected 6/18/04. |
| | Terra | Edition2B | CRS(SS5) | 50 months | Delivery expected 5/28/04. |
| | Terra | Edition2B | SFC (SS9) | 50 months | 6/4/04 delivery. |
| | Terra | Edition2B | FSW(SS6) | 50 months | Assuming no delivery needed. |
| | Aqua | Edition1A | SRBAVG (SS10) | 7/02 - 6/03 | Unknown delivery date; requires GGEO for 3/03 - 6/03 which has never been processed. |
| 8/04 | Terra | ValR4 | BDS/ERBE-like(SS1-3) | 1 month | Verify newly delivered gains and spectral response functions. |
| | | ValR11 | GGEO (SS11) | 4 months | 3/03 - 6/03; requires redelivery to handle GOES-9 and GOES-12; requires coefficients. |
| | | Edition2A | GGEO (SS11) | 4 months | 3/03 - 6/03; ValR11 must be approved. |
| | Aqua | Beta1 | CRS(SS5) | First 12 months | July delivery ?? |
| | Aqua | Beta1 | FSW (SS6) | First 12 months | Test at SCF to verify no redelivery needed. |
| | TRMM | Beta3 | SYN/AVG/ ZAVG (SS8) | 9 months | 7/23/04 delivery. |
| | Terra | Beta2 | SYN/AVG/ ZAVG (SS8) | 3/00, 4/00, 1/01, 7/01, 10/01 | 7/23/04 delivery. |

**Table 2: Process Strategy/Geier as of 07/28/04**
**Coming Soon (2 of 2)**

| Active Month | Satellite | Processing Strategy | Data Product (SS#) | Data Dates | Comments |
|---|---|---|---|---|---|
| 9/04 | Aqua | Edition1A | SSF(SS4) | Second 12 months | |
| | Aqua | Edition1A | SFC(SS9) | Second 12 months | |
| | Terra | Edition2B | SRBAVG (SS10) | 50 months | |
| 10/04 | | ValR11 | GGEO (SS11) | ? months | 7/03 - 6/04; requires coefficients. |
| | | Edition2A | GGEO (SS11) | 7/03 - 6/04 | |
| | TRMM | Beta4 | Synoptic SARB (SS7.2) | 9 months | |
| | Terra | Beta3 | Synoptic SARB (SS7.2) | 12 months | |
| 11/04 | TRMM | Beta4 | SYN/AVG/ ZAVG (SS8) | 9 months | |
| | Terra | Beta3 | SYN/AVG/ ZAVG (SS8) | 12 months | |
| | Aqua | Beta3 | SRBAVG (SS10) | 7/03 - 6/04 | |
| | Aqua | Beta1 | TSI (SS7.1) | | Not on Bruce's schedule. |
| | Aqua | Beta1 | Synoptic SARB (SS7.2) | | Not on Bruce's schedule. |
| | Aqua | Beta1 | SYN/AVG/ ZAVG (SS8) | | Not on Bruce's schedule. |

**Table 3: July 28, 2004 - System Issues and Status**

| Activity | Lead | Status |
|---|---|---|
| CM | Ayers | • See Table 4 for the current CERES Subsystem Delivery Schedule. (Ayers)<br>• See Table 5 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 5. (Ayers)<br>• Testing updates to the Instantaneous SARB delivery (SCCR 541). (Ayers)<br>• Updated the CERES Subsystem Delivery Schedule and posted it on the CERES CM Web site. (Ayers, Saunders) |

## Table 4: CERES Subsystem Delivery Schedule

| Subsystem | Preliminary Delivery Memo to CM | Delivery to CERES CM | Delivery to Langley DAAC | Reason for Delivery | CERESlib Delivery Needed | New PGE(s) |
|---|---|---|---|---|---|---|
| Instantaneous SARB (SCCR 541) | N/A | July 23 | July 30 | Code enhancements for the current delivery. Also, adding CER5.4P1 to account for the validation regions that were added to the CERES Validation Region list a few months ago. | | |
| Instrument | N/A | July 23 | July 23 | Terra gains files. | | |
| ERBE-like | N/A | July 23 | July 23 | Terra spectral response function files. | | |
| CERESlib | July 16 | July 30 | August 6 | Synoptic SARB changes. | | |
| Synoptic SARB | July 16 | July 30 | August 6 | Support TRMM Beta3 and Terra Beta2 SYNI processing. Full delivery since the TRMM processing problem will also be corrected. | X | |
| Inversion (SCCR 547) | July 16 | July 30 | August 6 | Support Terra Edition2B SSF processing. Delivery of new daily processor PGE CER4.5-6.6P2 to support Terra Edition2B processing. | | X (maybe) |
| TISA Averaging (Subsystem 10) | August | | | Support Terra Edition2A and Aqua Edition1A (maybe) SRBAVG processing. | | |
| GGEO | August 6 | August 20 | August 27 | Delivery to handle GOES-9 and GOES-12. | | |
| TISA Averaging (Subsystem 8) | August 13 | August 27 | September 3 | Support TRMM Beta3 and Terra Beta2 AVG, ZAVG, and SYN processing. | | |
| Clouds | ??? (November) | | | Support TRMM VIRS-only processing from August 2001 through August 2002. | | |

**Table 5: SCCR Activity July 12 at 1:00 p.m. - July 25 at 3:30 p.m.**

| SCCR | S | U | A | C | D | SS | Page No. | Comments |
|---|---|---|---|---|---|---|---|---|
| 541 | | X | | | | 5 | 9 | |
| 543 | | | | X | | 4.5 & 4.6 | | |
| 546 | X | | | | | CERESlib | 11 | SARB modifications |
| 547 | X | | | | | 4.5 & 4.6 | 12 | |

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

**CERES Software Configuration Change Request Submittal**

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Subsystem: SARB SCCR Date & TIME: 2004-06-24 13:43:59 SCCR No.: 541

Description of Change (Science):

1. For the samples where the MATCH data is the sole source of aerosol optical depth information, the MATCH 0.55 mm data instead of the MATCH 0.63 mm data will be applied in the Fu-Liou model.
2. The Langley Fu-Liou model was updated to add new Lacis dust aerosol data for the aerosol scene type indexes 19-23 for 0.5mm, 1.0mm, 2.0mm, 4.0mm, and 8.0mm dust, respectively. The FLSA table was also modified accordingly.
3. Now allowing aerosols in the stratosphere above 15km.
4. UV-A and UV-B lookup table corrections to spectral output from bands 5 and 6, based on work by Wenying Su, have been added to the Langley Fu-Liou model. This table is based on sun angle, ozone amount, surface albedo, cloud and aerosol optical depths. Output will be provided as 35 new parameters on the SYNI.
5. Addition of Spectral response function for Aqua filtered window radiances based on high spectral resolution correction to 3 window band radiances.
6. Added use of lookup table correction factors calculated by Zhonghai Jin that are a function of the sun angle, wind speed, and precipitable water to compute corrected pristine SW flux upwards at the TOA and downwards at the surface. Output will be provided as two new parameters on the SYNI.
7. Add a tuning sigmas control file, accessed only when running the Synoptic Subsystem.
8. Modified interpretation of the ADMgeo parameter to take advantage of new information added by the ADM group for the Terra Edition2B SSF delivery.

CRS Parameters Affected by changes 1, 2, 3, and 8: Terra CRS 161-163, 172-183, 193-235

Reason for Change (Science):

1. Using the wrong wavelength causes constituents with extinction decreasing with wavelength (sulfate, water soluble, soot) to have a reduced effect, and causes constituents that have extinction increase with wavelength (mineral dust, insoluble) to have an increased effect.
2. The new dust properties are less absorbing than the earlier (1996) version.
3. Allows full use of the MATCH aerosol profile data which is provided up to 1 hPa or ~50Km.
4. Adds parameters consistent with definitions common in the radiation community. Treatment of UV portion of spectrum by Fu-Liou is coarse since only accounts for small portion of Broadband. Look-Up tables give enhanced accuracy in spectral integration to UV-A and UV-B spectral intervals.
5. Adds capability of processing Aqua data through SARB algorithms.
6. Accounts for directional reflectance of ocean surface that is not handled by simple lambertian reflectance in Fu-Liou Model.
7. It will be used in the algorithm to assign different “tuning sigmas” based upon the source of the Cloud /Flux data.
8. Default values are now clearer and new non-default data provided information regarding the location of the centroid of the FOV in relation to the microwave imager retrievals.

Description of Change (non-Science):
N/A

Reason for Change (non-Science):
N/A

Affected PGEs : CER5.0P1, CER5.1P1

Est. Time to Complete Changes : 3 months
Planned Delivery Date : June 25, 2004
Impact : PGEs CER6.0P1

Originator: COLEMAN, LISA H. (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 541:
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Description of Change (Science):
Added capability to use MATCH multi constituent aerosol profiles conforming to the vertical layers used by the Fu-Liou model in the Instantaneous SARB Subsystem, as well as the Synoptic SARB Subsystem. The additional MATCH aerosol profile files from NCAR produces vertical profiles of 7 aerosol constituents as a normalized amount in 28 vertical sigma layers on a 192x94 global grid.

Reason for Change (Science):
The height resolution improves the treatment of the interaction of clouds and aerosols.

Description of Change (non-Science):
Modify the Instantaneous SARB Subsystem Monthly QC Summary Post-Processor to work with the new CERES Validation Regions recently added. Change will also provide flexibility to handle new regions in the future should any be added.

Reason for Change (non-Science):
The current code will not work with the newly added regions.

Affected PGEs : CER5.1P1

Est. Time to Complete Changes : Three days
Planned Delivery Date : July 21, 2004
Impact : CER6.1P1
Date & Time: 2004-07-19 17:46:33

Originator: COLEMAN, LISA H. (SAIC)

**CERES Software Configuration Change Request Submittal**
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*** All changes described in this SCCR were made in CERESlib. ***

Subsystem: CERESlib SCCR Date & TIME: 2004-07-16 13:00:05 SCCR No.: 546

Description of Change (Science):
none

Reason for Change (Science):
none

Description of Change (non-Science):
see SCCRs
#544 (SARB) sarb_params.f90
#545 (SynSARB) intsyn_io.f90

Reason for Change (non-Science):
see SCCRs #544 and #545

Affected PGEs : see SCCRs #544 and #545

Est. Time to Complete Changes : today
Planned Delivery Date : Friday July 23, 2004
Impact : see SCCRs #544 and #545

Originator: STASSI, JOE C. (SAIC)

**CERES Software Configuration Change Request Submittal**

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Subsystem: Inversion SCCR Date & TIME: 2004-07-20 14:23:12 SCCR No.: 547

Description of Change (Science):
1. PGEs CER4.5-6.3P2 (Terra Inversion only) was updated to use the Terra Editin2B ADMs.
2. SSF parameter Window ADM Type will contain a cloud classification parameter.
3. SSF parameter ADMgeo will first be modified to correct for erroneous values over permanent snow. (Default 999 will be used for this parameter.) 1000 will then be added to the ADMGEO value when the CERES FOV centroid is in region near coastline where microwave imager retrievals are unavailable.

Reason for Change (Science):
1. New modules and ADMs provided by ADM working Group.
2. Change requested by ADM working Group.
3. Change requested by ADM working Group.

Description of Change (non-Science):
n/a

Reason for Change (non-Science):
n/a

Affected PGEs : CER4.5-6.3P2

Est. Time to Complete Changes : 2 weeks
Planned Delivery Date : July 30, 2004
Impact : SSF ADMGEO has a new format

Originator: NOLAN, SANDY K. (SAIC)

**Table 6: July 28, 2004 - Subsystem Issues and Status (1 of 6)**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 1.0 | Cooper | • Continued tracking receipt of Aqua and Terra data at the ASDC. (Cooper, Snyder)<br>• Presenting the following paper to the SPIE Annual Meeting in Denver, August 2-6: "Correction of drifts in the measurements of the Clouds and the Earth's Radiant Energy System scanning thermistor bolometer instruments on the Terra and Aqua satellites." (Spence)<br>• Debriefing of the CMMI Introduction class at NASA LaRC was held on July 14 for CERES Data Management personnel who were unable to attend the class. (Spence)<br>• Desert scanning started on 07/19 using FM2, will run it until 08/6. Requested by Norman for his ADMs. Ops guys, Bill and Jim, use ODSs (one-day sequences) generated by website software to eliminate the need for keying in commands for daily uploads. (Szewczyk)<br>• Putting together a spreadsheet of all available Terra and Aqua BDS and Pre-ES8 data along with all updates that were made between each version of the product. Dale will be adding the ERBE-Like information for ES8. This will be used to help track down glitches that have shown up in validation studies. Problems with unmatched data within the ASDC archive have been reported to Erika who is tracking down to see if there are explanations for the mismatched data. (Cooper)<br>• Completed testing of the conversion of the Time class from Ada to C++. Working with the Calipso group to determine if we can connect with their framework to aid in this effort. The initial conversion does not contain error handling, which will be required. An error in the Ada code was discovered while doing the conversion, however, it was in a routine not used in production processing. (Cooper) | |

**Table 6: July 28, 2004 - Subsystem Issues and Status (2 of 6)**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 2.0 | Walikainen | • Continuing to examine the production email generated by the QC checker software. (Walikainen)<br>• Continuing to inspect ERBE-like Aqua and Terra output plots and QC reports on the Web. (Walikainen)<br>• Continuing analysis for SRFs, Terra Jan04-May04. (Walikainen)<br>• Produced ERBE-like products for Earthshine response. (Walikainen)<br>• Updating Description Abstracts. (Kizer) | |
| 3.0 | Walikainen | Combined with above. | |
| 4.1 | Sun-Mack | • CloudVis images for TRMM Edition2 and TRMM Edition2_VIRSonly data from January 2001 through July 2001 for following regions: Cape Verde, Sub-Saharan Africa, Mexico, Lanai, and Dry Tortugas were generated and posted on the Web. CloudVis images for Terra Edition2-QC data for the Marie Byrd Land site from January 2003 through July 2003 were also generated and posted on the Web. CloudVis images for Aqua MODIS ValR1 data for 20021206 for all available subset regions and for July 2002 and December 2002 for several subset regions. (R. Brown)<br>• Cloudvis Web Viewer and scripts were updated to display 16 more subset regions for Terra-MODIS and Aqua-MODIS. Cloudvis section of the Cloud Working Group Web page was reorganized to include code and delivery information in a chart format. (R. Brown)<br>• Code was written to calculate Cloud Temperature as a function of phase and Cloud Height as a function of phase. All web scripts and idl and dx code was updated to include the new results. All available Terra-MODIS Edition2-QC, Aqua-MODIS Beta2, Aqua-MODIS ValR1, and TRMM-VIRSonly Edition2 monthly QC data was processed to generate results with Cloud Height, Cloud Fraction, and Cloud Temperature as a function of phase. (R. Brown) | |

**Table 6: July 28, 2004 - Subsystem Issues and Status (3 of 6)**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 4.1 | Sun-Mack (Cont'd) | • Aqua-MODIS ValR1 1st time run and 2nd time run validations. Daily results were run for Aqua-MODIS ValR1 for the month of December 2002 and hourly results were run for 20021206. All results were posted on the Web. Clear Sky updated maps (all 60 days) were validated. All cloud properties were validated and the problem of large particle size were discovered. Tracked down the where and why particle sizes where large and corrected the problem. Re-ran a day of Aqua-MODIS and the results look good. (R. Brown, Sun-Mack)<br>• Worked on Pat Minnis's poster/talk/paper for ICCP conference. (Chen, Sun-Mack)<br>• Working on processing data and producing results, maps, and figures for Sunny Sun-Mack's AMS extended abstract. (Sun-Mack)<br>• Working on processing data and producing results, maps, and figures for Pat Minnis's AMS extended abstract. (Chen, Sun-Mack) | |
| 4.2 | Sun-Mack | Combined with above. | |
| 4.3 | Sun-Mack | Combined with above. | |
| 4.4 | Miller | • Continued work on a MISR supplement to the SSF with Dr. Loeb, RAB. (Miller)<br>• Completed validation of the Aqua ValR1 data. (Miller)<br>• Presented a portion of the Introduction to CMMI brief for those who missed the original training. (Miller) | |
| 4.5 | Nolan | • Successfully tested new PGE CER4.5-6.6P2 with PGE CER4.5-6.3P2 output. Successfully ran PGE CER4.5-6.6P2 through 24 hours of input data. (Hoppe)<br>• Continued work to update PGEs CER4.5-6.1P2 and CER4.5-6.3P2 to use the Terra Edition2B ADMs. (Nolan) | |
| 4.6 | Nolan | Combined with above. | |

**Table 6: July 28, 2004 - Subsystem Issues and Status (4 of 6)**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 5.0 | Coleman | • Added the capability to use MATCH multi-constituent aerosol profiles conforming to the vertical layers used by the Fu-Liou model to the Instantaneous SARB Subsystem, and delivered SARBlib, Instantaneous SARB Main-Processor, and the Monthly QC Summary Post-Processor to CM. The height dependence added with this update improves the calculated aerosol forcing for clear and total sky. (Caldwell, Zentz, Coleman)<br>• Three days each of March 2000 and March 2003 data were processed through the Instantaneous SARB Subsystem at the SCF to evaluate a reported drift between the untuned modeled fluxes on the CRS product and the CERES observed fluxes on the SSF product. This drift was discussed at the September 2003 CERES Science Team meeting in Princeton, NJ, and is a function of time. (Caldwell, Coleman) | |
| 7.2 | Coleman | • Processing test data at the SCF to evaluate the Synoptic SARB Subsystem and to provide test data to Subsystem 8. (Zentz, Caldwell)<br>• Preparing Synoptic SARB Subsystem for delivery. (Zentz, Coleman) | |
| 12.0 | Coleman | • Assisting Alice Fan in reading and interpreting ECMWF data to support a paper by Bing Lin. (Caldwell) | |
| 7.1 | Nguyen | • Fred Rose pointed out that for some hours in TSI, there are TOA SW total-sky, no TOA SW clear-sky and the cloud fractions are zeros. Supported Fred Rose in this investigation. (Nguyen) | |
| 8.0 | Nguyen | • Continued updating the code to include the new structures from SYNI and preparing for the delivery. (Nguyen) | |
| 10.0 | Nguyen | • Moved the SFC files from the DAAC and from the TISA averaging directories to /CERES/ceresMISR-A to have more disk space to run 12 months of SRBAVGs at SCF. (Nguyen) | |

**Table 6: July 28, 2004 - Subsystem Issues and Status (5 of 6)**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 10.0 | Nguyen (Cont'd) | • Moving PMOA files from DAAC to /CERES/ ceresMISR-A. (Nguyen)<br>• Ran December 2000 and June 2001 Terra for Dave Young for comparison with ERBElike ES-9. (Nguyen)<br>• Continued testing and preparing to run 12 months of SRBAVGs at SCF. (Nguyen) | |
| 6.0 | Raju | • Updated input_gen_6.2P1.csh script to set overlap file names correctly and sent the updated script to CERES CM. (Raju) | |
| 9.0 | Raju | • Modified SFC Description/Abstract document and sent updated document to Ms. Watkinson. (Raju)<br>• Modified Operator's manual according to the ASDC suggestions. Sent the document to CM. (Raju)<br>• As part of SW flux validations, working on a FORTRAN program to read SFC product and to write Total SW fluxes onto day files. Created gif plot for day 10 sw flux data, and sent the plot to Dave Young for validations. (Raju) | |
| 11.0 | Stassi | • Sent the GGEO executable file created with the new SGI compiler to Michael Fan, a technical representative for SGI. Also sent him a PCF and instructions on how to run the executable. He has been able to duplicate the lib-4211 error. The cause is still under investigation. (Stassi)<br>• Modified the GGEO routines which read CSU CIRA B1 input data so that they can handle GOES-12 data. The unmodified code did not correctly handle the infrared channel data because the channel order of the infrared bias and gain scaling factors had changed on the GOES-12 header record. (Stassi)<br>• Met with Louis Nguyen who is coming up with a new common format for the B1 data from all the geostationary satellites. (Stassi) | |

**Table 6: July 28, 2004 - Subsystem Issues and Status (6 of 6)**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| CERESlib | Stassi/Ayers | • New versions of the intsyn_io.f90 and sarb_params.f90 files were put into CERESlib on the SCF machines. (Stassi) | The secure copy command (scp) does not work from thunder to *warlock*. |