# February 18, 2009 - System Issues and Status

## Table 1: Process Strategy/Coleman as of 2/17/2009
## Active Requests in order of priority

| Production Request (PR) | Satellite | Production Strategy | Data Product (SS#) | PGEs | Data Dates | Special Status |
|---|---|---|---|---|---|---|
| M-PR 3-02 | | NSIDC-NESDIS | EICE ESNOW (SS4.1) | 4.1-4.0P1 | Standing request | |
| PRs 14-09 through 20-09 | FM1, FM2, FM3, FM4 | ValR12 | BDS, ES-8, ES-4, ES-9 | 1.3P3, 1.2P1, 2.4P1, 2.2P1, 2.3P1, 2,3P2, 3.1P1 | 9/07, 5/08, 2/08 | Process immediately upon delivery and promotion of gains and SRF. |
| Standing requests AM- PR 1-05 to 7-05 | Terra | Edition1-CV | BDS/ ERBElike (SS1-3) | 1.1P3 1.2P1 1.3P1 1.3P2 2.1P1 2.2P1 2.3P1 2.3P2 3.1P1 | Standing request | These PRs replace standing requests AM- PR 1-00 to 7-00. |
| Standing requests PM-PRs 15-05 to 18-05 | FM3 | Edition1-CV | BDS/ ERBElike (SS1-3) | 1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1 | Standing request | These PRs replace standing requests PM-PRs 1-05 to 4-05. |
| Standing requests PM-PRs 11-05 to 14-05 | FM4 | Ed1-CV-NoSW | BDS/ ERBElike (SS1-3) | 1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1 | Standing request | These PRs replace standing requests PM-PRs 7-05 to 10-05. |
| PR 4-09 | FM1 or FM2 | Edition2C | SYN/AVG /ZAVG | 8.1P1 | 3/1/2000 – 10/31/05 | Process 1st 12 months, then do 1st 12 month of PR 1-09. |
| PR 1-09 | FM3 or FM4 | Edition2B | SYN/AVG /ZAVG | 8.1P1 | 7/1/2002 – 10/31/05 | Process 1st 12 months, then go back to PR 4-09. |
| PR 3-09 | FM3 or FM4 | Edition2 | TSI | 7.1.1P1 | 7/1/2002 – 10/31/05 | Ready. |
| PR 2-09 | FM3 or FM4 | Edition2B | SYNI | 7.2.1P1 | 7/1/2002 – 10/31/05 | Ready. |

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|---|---|---|---|---|---|---|
| PR 6-09 | FM1 or FM2 | Edition2C | TSI | 7.1.1P1 | 3/1/2000 – 10/31/05 | Ready. |
| PR 5-09 | FM1 or FM2 | Edition2C | SYNI | 7.2.1P1 | 3/1/2000 – 10/31/05 | Ready. |
| PRs 21-09 through 28-09 | FM1, FM2, FM3, FM4 | Edition2 | BDS, ES-8, ES-4, ES-9 | 2.4P1, 1.3P3, 1.2P1, 2.2P1, 2.3P1, 2.3P2, 3.1P1, 3.2P1 | 9/2/07 – 1/1/09 | Pending promotion. Need to process 8/2/07 – 1/1/08 at high priority, then lower priority on 2008 dates. |
| PR 57-08 | FM1, FM2 | Edition2A-QC | SSFI Clouds | 4.1-4.1P4<br>4.1-4.2P3<br>4.1-4.2P2<br>4.1-4.3P2 | 1/1/07 – ~~9/1/07~~ 12/31/07 | Extended to 12/31/07 Pending input |
| PR 56-08 | FM1, FM2 | Edition2F | SSF Inversion | 4.5-6.1P2<br>4.5-6.2P2<br>4.5-6.4P1 | 1/1/07 – ~~9/1/07~~ 12/31/07 | Extended to 12/31/07 Pending input |
| PR 55-08 | FM1, FM2 | Edition2F | SFC TISA-Grid | 9.2P1<br>9.3P1<br>9.4P1 | 12/31/06 hr 12 – ~~9/1/07 hr 11~~ 1/1/08 hr 11 | Extended to 12/31/07 Pending input |
| PR 54-08 | FM1 V005 MOD08 | Edition2F | CRS Inst SARB | 5.0P1<br>5.1P1<br>5.4P1 | 1/1/07 – ~~8/31/07~~ 12/31/07 | Extended to 12/31/07 Pending Input |
| PR 53-08 | FM1 | Edition2F | FSW TISA-Grid | 6.1P1<br>6.2P1<br>6.3P1 | 1/1/07 – ~~8/31/07~~ 12/31/07 | Extended to 12/31/07 Pending input |
| PR 84-08 | FM1 or FM2 | Beta1 | ISCCP-D2like-Day/Nit | 9.0P1 | 03/2000 – ~~08/2007~~ 12/2007 | Extended to 12/31/07 |
| PR 33-09 (PR development in progress) | FM3, FM4 | Edition1B | SSFI | 4.1-4.1P5<br>4.1-4.2P3<br>4.1-4.2P2<br>4.1-4.3P2 | 9/1/07 – 12/31/07 | Pending input |
| PR 32-09 (PR development in progress) | FM3, FM4 | Edition2C/NoSW | SSF | 4.5-6.1P3<br>4.5-6.2P2<br>4.5-6.4P1 | 9/1/07 – 12/31/07 | Pending input |
| PR 31-09 (PR development in progress) | FM3, FM4 | Edition2C/NoSW | SFC | 9.2P1<br>9.3P1<br>9.4P1 | 9/1/07 – 12/31/07 | Pending input |
| PR 30-09 (PR development in progress) | FM3 | Edition2C | CRS | 5.0P1<br>5.1P2<br>5.4P2 | 9/1/07 – 12/31/07 | Pending input |
| PR 29-09 (PR development in progress) | FM3 | Edtion2C | FSW | 6.1P1<br>6.2P1<br>6.3P1 | 9/1/07 – 12/31/07 | Pending input |

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| Production Request (PR) | Satellite | Production Strategy | Data Product (SS#) | PGEs | Data Dates | Special Status |
|---|---|---|---|---|---|---|
| PR 64-08 | FM3, FM4 | Edition1B-IGBP | SSFI Clouds | 4.1-4.1P5<br>4.1-4.2P3<br>4.1-4.2P2<br>4.1-4.3P2 | 01/01/2004 – 12/31/2005 | In Progress - IN THE BACKGROUND PRIORITY. |
| PR 63-08 | FM3, FM4 | Ed2C-MOD-C4-Land-IGBP | SSF Inversion | 4.5-6.1P3<br>4.5-6.2P2<br>4.5-6.4P1 | 01/01/2004 – 12/31/2005 | In Progress |
| PR13-09 | CERES | DAO-G5-CERES | MOA | 12.1P1 | 1/1/08 – 1/1/09 | Pending input. HOLD 4/08 and forward |
| PR 12-09 | CERES | DAO-G5-CERES | PMOA | 9.1P1 | 1/08 – 12/08 | |
| PR 7-09 | FM1 | ValR12 | CRS Inst SARB | 5.0P1<br>5.1P1<br>5.4P1 | 5/1/07 – 5/31/07 | Pending promotion |
| PR development in progress | FM1, FM2, FM3, FM4 | ValRx | SSF | Inversion delivery to *magneto* | 8/07 | Pending promotion |
| PR development in progress | FM1, FM2, FM3, FM4 | ValRx | SSFI | Clouds delivery to *magneto* | 8/07 | Pending promotion |
| PR 11-09 | FM3 | ValR10 | FSW TISA-Grid | 6.1P1<br>6.2P1<br>6.3P1 | 6/30/07 – 8/1/07 | Pending promotion |
| PR 10-09 | FM3 | ValR10 | SFC TISA-Grid | 9.2P1<br>9.3P1<br>9.4P1 | 6/30/07 – 8/1/07 | Pending promotion |
| PR 09-09 | FM1 | ValR10 | FSW TISA-Grid | 6.1P1<br>6.2P1<br>6.3P1 | 4/30/07 – 6/1/07 | Pending promotion |
| PR 08-09 | FM1 | ValR10 | SFC TISA-Grid | 9.2P1<br>9.3P1<br>9.4P1 | 4/30/07 – 6/1/07 | Pending promotion |

**Table 2. February 18, 2009 - System Issues and Status**

| Activity | Lead | Status |
|---|---|---|
| CM/Documentation | Ayers (Saunders) | • See Table 3 for the current CERES Subsystem Delivery Schedule and Table 4 for the current CERES Coefficients 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>• Inversion (SCCR 690) was successfully tested on *magneto-P4* released to the ASDC (2/3/09). (Ayers)<br>• Instantaneous SARB (SCCR 694) was successfully installed, compiled, and tested on *magneto-P4* and released to the ASDC (2/5/09). (Ayers)<br>• CERESlib (SCCR 697) was successfully installed, compiled, and tested on *magneto-P4* and released to the ASDC (2/5/09). (Ayers)<br>• The SSF Sample Read package was delivered to the ASDC (2/5/09). (Ayers)<br>• The TISA Gridding, Inversion, and Instantaneous SARB Test Plans and the Clouds Operator's Manual were updated, posted on the Web, and provided to the ASDC. (Saunders)<br>• The File Management Policy was updated and posted on the Web. (Saunders)<br>• The Clouds Test Plan was updated and provided to CM for use during testing. (Saunders)<br>• The SYN, AVG, ZAVG, INSTR, and SSF Edition2 DPC sections were updated and posted on the Web. (Saunders)<br>• The Instrument and Inversion Requirements Logs were updated and posted on the Web. (Saunders)<br>• The CERES Subsystem and Coefficients Delivery Schedules were updated and posted on the Web. (Ayers, Saunders) |

**Table 3. CERES Subsystem Delivery Schedule – February 2009**

| Subsystem | Preliminary Delivery Memo to CM | Delivery to CERES CM | Release to Langley DAAC | Reason for Delivery | CERESlib Delivery Needed | New PGE(s) | Certified Platform(s) |
|---|---|---|---|---|---|---|---|
| Clouds (SCCR 693) | January 16 | January 30 | February 6 | Terra and Aqua Edition2 on *magneto*. | X | X | *magneto-P4* |
| Instrument (698) | February 6 | February 20 | February 27 | Initial delivery of RDR pre-processor code (PGE CER1.0P2). | | X | *magneto-P4* |
| Regrid MOA | February 13 | February 27 | March 6 | To process the G5 CERES data that will be coming to support Edition3 (PGE CER12.1P2). | | X | *magneto-P4* |
| Instrument | February 27 | March 13 | March 20 | NPP-enabled PGE CER1.1P7, possibly CER1.2P1 (preES-8). | | X | *warlock* |
| ERBE-like (696) | March 13 | March 27 | April 3 | To process everything including all of Edition3 on *magneto*. | | | *magneto-P4* |
| Instrument | March 20 | April 3 | April 10 | NPP C++ Build 1 (CER1.1P8). | | X | *magneto-P4* |
| TISA Averaging (SCCR 650) | Within four weeks of GGEO Beta10 delivery | | | Support Terra Edition2E and Aqua Edition2B SRBAVG1-3 and Daily processing. New PGEs: CER10.0P1, CER10.0P2, & CER10.0P3. | X | X | *magneto-P4* |
| Clouds | April 17 | May 1 | May 8 | Terra and Aqua Beta2-Edition3. | | | *magneto-P4* |

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| Subsystem | Preliminary Delivery Memo to CM | Delivery to CERES CM | Release to Langley DAAC | Reason for Delivery | CERESlib Delivery Needed | New PGE(s) | Certified Platform(s) |
|---|---|---|---|---|---|---|---|
| Inversion | May 1 | May 15 | May 22 | Terra and Aqua Beta2-Edition3. | | | *magneto-P4* |
| GGEO (SCCR 653) | Late Spring | | | Initial coefficient delivery for 11/05 - 8/07. Code delivery to support Beta10 GGEO processing. New PGE (CER11.1P11) to read B1U data. | | X | *magneto-P4* |
| TISA Gridding | May 22 | June 5 | June 12 | SFC Beta2-Edition3. | | | *magneto-P4* |
| TISA Averaging | June 26 | July 10 | July 17 | SRBAVG Beta2-Edition3. Adding Model C surface fluxes and solar insulation. | | | *magneto-P4* |
| GGEO | Summer | | | New PGE 11.7P2 (?) for new ISCCP-D2-like-Merge (?) product. All ISCCP-D2-like HDF products will have the same format. | | X | *magneto-P4* |
| TISA Gridding | Summer | | | Edition version of ISCCP-D2-like-Day/Nit. All ISCCP-D2-like HDF products will have the same format. | | | *magneto-P4* |
| GGEO | Summer | | | Edition version of ISCCP-D2-like-GEO. All ISCCP-D2-like HDF products will have the same format. | | | *magneto-P4* |

**Table 3. CERES Subsystem Delivery Schedule – February 2009**

| Subsystem | Preliminary Delivery Memo to CM | Delivery to CERES CM | Release to Langley DAAC | Reason for Delivery | CERESlib Delivery Needed | New PGE(s) | Certified Platform(s) |
|---|---|---|---|---|---|---|---|
| Clouds | Late 2009 | | | Terra and Aqua Edition3 | | | *magneto-P4* |
| Inversion | Late 2009 | | | Terra and Aqua Edition3 | | | *magneto-P4* |
| TISA Gridding | January 2010 | | | New PGE 9.0P2 (?) for new ISCCP-D2-like-Flux (?) product. All ISCCP-D2-like HDF products will have the same format. | | X | *magneto-P4* |
| Clouds | ??? | | | Support TRMM VIRS-only processing of August 2001 forward. | | | *magneto-P4* |
| Inversion | Two to four weeks after Clouds | | | Support TRMM VIRS-only processing. | | | *magneto-P4* |
| Instrument (SCCR 641) | ??? | | | Delivery of simulated IES PGE to support TRMM VIRS-only processing. New PGE: CER1.0P1. | | X | *magneto-P4* |

**Table 4. CERES Coefficients Delivery Schedule – February 2009**

| Subsystem | Preliminary Delivery Memo to CM | Delivery to CERES CM | Release to Langley DAAC | Reason for Delivery | Certified Platform(s) |
|---|---|---|---|---|---|
| Instrument/ ERBE-like | N/A | March 6 | | Edition2 gains and spectral response function files for September 2007 – December 2008. | *warlock/ magneto* |
| Instrument/ ERBE-like | N/A | May | | Terra and Aqua Edition3 gains and spectral response function files for Launch – December 2006. Might include TRMM, also. | *warlock/ magneto* |
| GGEO | ??? | | | Final coefficients for 11/05 - 08/07. | *warlock/ magneto* |
| Instrument/ ERBE-like | N/A | ??? | | TRMM Edition3 gains and spectral response function files. | *warlock/ magneto* |

**Table 5. SCCR Activity February 3 at 3:00 p.m. – February 16 at 4:00 p.m.**

| SCCR | S | U | A | C | D | SS | Page No. | Comments |
|---|---|---|---|---|---|---|---|---|
| 695 | | | X | | | 5.0 | | |
| 696 | | | X | | | 2.0 & 3.0 | | |
| 697 | | | X | | | CERESlib | | |
| 699 | X | | | | | 4.6 | 9 | |
| 700 | X | | | | X | 4.6 | | |

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

**CERES Software Configuration Change Request Submittal**
==========

Subsystem: Inversion4.6 SCCR Date & TIME: 2009-02-04 12:56:22 SCCR No.: 699

Parameter Change: ( ) YES (X) NO

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
The 5 record SSF sample read package will be resubmitted for Aqua Ed2C-MOD-C4-Land-IGBP SSF's. This version contains no changes in SSF SDS names.

Reason for Change (non-Science):
Release of Aqua Ed2C-MOD-C4-Land-IGBP required a review of the read package and update of the readme.

Parameter(s) and Product(s) Being Changed (Use Name(s) from Data Products Catalog) and Description of Parameter Change:
N/A

Reason for Parameter Change:
N/A

Affected PGEs in this Subsystem:
N/A

Estimated Time to Complete Change: 2 Days
Planned Delivery Date: February 6, 2009
List Affected Subsystems and PGE Names: N/A

Originator: SOTHCOTT, VICTOR E. (SSAI)

**Table 6. February 18, 2009 - Subsystem Issues and Status**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| Toolkit Issues | Coleman Zentz | • No report received. | |
| 1.0 | Cooper (Walikainen) | • Tracking of Terra/Aqua ingest continues. (Cooper, Snyder)<br>• New PGE numbers for the C++ code will track as follows to the existing PGEs: CER1.1P1/3/5 => CER1.1P8, CER1.2P1 remains the same, CER1.3P1 => CER1.4P1, CER1.3P2 => CER1.4P2 and CER1.3P3 => CER1.4P3. Also new Ada PGE CER1.1P7 will be delivered for NPP-FM5. (Cooper)<br>• The updated gain values for Edition2 are delayed while Kory does some extra studies. It appears that initial thoughts that the instruments do not degrade while in crosstrack may be incorrect. (Cooper)<br>• Testing of the Ada code on the x86 platform continues. All TRMM PGEs have been tested and CER1.1P3 for Terra-FM1 has been tested. All values are scientifically equivalent to values created from runs on *warlock*. QC flags still do not match, but they may require byte swapping on the x86 before they are written to match values from *warlock* runs. Only remaining problem is an issue with metadata not being written to the correct product. This issue will be looked into more closely once all of the PGEs have been thoroughly tested. (Chu, Cooper) | |
| 2.0 | Walikainen (Cooper) | • Continuing to examine QC checker email generated during production. (Walikainen)<br>• Continuing to inspect ERBE-like Aqua and Terra output plots. (Walikainen)<br>• Expanding Edition2 validation studies. With both Terra instruments in cross track, our direct compare is not sensitive enough to detect trends both instruments may have. Producing single instrument time series has issues to overcome : (a) removing bugs from scripts, and (b) correctly interpreting the results. (Walikainen) | |
| 3.0 | Walikainen (Cooper) | Combined with above. | |

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| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 4.1 | Sun-Mack (Brown) | • Worked with CM Team on Clouds Delivery. (R. Brown, Miller)<br>• Processed 200712 data for FLASHflux. Three different version of Aqua and Terra were processed and posted on the Web. (R. Brown)<br>• Continued working on SSF QC processing for Terra and Aqua. (R. Brown, Chen)<br>• Continued generating images for the Google Map tool from January, April, and July 2007 (completed all Thursday, Friday, and Saturday data available; now working on Wednesdays). (Heckert)<br>• Google Earth curtain file: Resolved some issues with the latitude/longitude format, improved accuracy of the curtain by loading intermediate lat/lon points from the text file, developed checks to ensure that the images are being loaded onto their correct lat/lon on the globe. (Heckert)<br>• Google Earth curtain: continuing to work on other issues (scale issues, labeling). (Heckert).<br>• Modified and tested PGEs 1P6, 2P4, and 3P3 to include CO2 data in QC. (Smith).<br>• Worked on 250 meter algorithm. (Sun-Mack).<br>• Worked on A-Train recovery. (Sun-Mack) | |
| 4.2 | Sun-Mack | Combined with above. | |
| 4.3 | Sun-Mack | Combined with above. | |
| 4.4 | Miller (Sun-Mack) | • Finalized Edition3 SSF Data Product Catalog. (Miller)<br>• Compiled cloud retrieval on x86. (Miller)<br>• Investigated calibration on Terra MODIS between 2006 and 2008. No sharp changes were seen in scaling factor. (Miller)<br>• Seven and five hours failed for July and August 2007, respectively. Seg fault accounted for three failed hours, the remainder were missing IES. (Miller) | |

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| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 4.5 | Sothcott | • Attended weekly SOFA working group meetings. (Sothcott)<br>• Cleaned up the Inversion working space on the XSAN. There were many duplicate directories with the /ASDC filesystem that have been removed and reorganized. This effort freed up almost half of the Inversion space on the XSAN. (Sothcott)<br>• Cleaned up the Inversion CVS repository moving all of the old code and data to an "OLD" directory where it can be accessed without issue if needed. Updated the CVS repository with the latest Edition2 and Edition3 Beta1 deliveries. Currently testing to assure that all data was stored correctly. (Sothcott)<br>• Updating the Inversion Test Plan with Directory Structure fixes for the Edition3 PGEs. (Sothcott) | |
| 4.6 | Sothcott | Combined with above. | |
| 5.0 | Caldwell (Coleman) | • Fixed minor script issue with recent 5.0P1 delivery. (Caldwell).<br>• Working on Edition3 CRS. (Caldwell). | |
| 7.2 | Caldwell (Coleman) | • No new updates. | |
| 12.0 | Caldwell (Coleman) | • Working on Edition3 MOA delivery. (Caldwell) | |
| 7.1 | Nguyen (Raju, Filer) | • No new updates. | |
| 8.0 | Nguyen (Raju, Filer) | • Range checked 10 months of Edition2C Terra and 4 months of Edition2B Aqua SYN/AVG/ZAVG. Sent the report to Dave Doelling. (Nguyen)<br>• Identified code errors in the adjusted temperature, optical depth and cloud fraction. (Nguyen)<br>• Searching for the cause of high zonal standard deviation. (Nguyen)<br>• Finished additional updates to SYN/AVG/ZAVG DPCs as per Dave Doelling's request. (Filer) | |

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|---|---|---|---|
| 10.0 | Nguyen (Raju, Filer) | • Writing stand alone program to read Clarreo data and to get ADMs and fluxes for Dennis Keyes to use. (Nguyen)<br>• From the global map of SW TOA fluxes, there are regions with no data in the polar areas. Planning to add solar incoming. (Nguyen)<br>• Produced January 2006 and July 2007 SRBAVGs to support Dave Doelling to evaluating MTSAT. (Nguyen) | |
| 6.0 | Raju (Nguyen) | • No new updates. (Raju) | |
| 9.0 | Raju (Nguyen) | • Processed 01/98 – 08/98 TRMM data through PGE CER9.0P1 for Moguo Sun. (Raju)<br>• Wrote a program to compare Julian time between Terra and Aqua SFC and write time and instrument information for Moguo Sun. Processed 07/06 data and provided outputs. (Raju) | |
| 11.0 | Raju (Nguyen) | • Provided GGEO products generated at SCF to TISA averaging for validations. Received updated visible coefficients for MET-5 satellite. Processed months up to 12/06 and created match files. (Raju)<br>• Received code from Dave Doelling to calculate visible radiance in relation to SZA for MTSAT 10-bit data processing. Implemented code in ggeo process and running July 2007 data. (Raju)<br>• Met with ASDC personnel and TISA members to finalize the B1U data file setup and the pre-processor issues. (Raju)<br>• Created two MTS1-B1U binary flat files for the comparisons with the MCDAS MTS1 data images. Work continued to create one month of B1U binary inputs to process through ggeo main processor. (Raju) | |
| Special Development Corner | | • No report received. | |