

Externally Provided Input

MATCH: Inputs to the MATCH files that are necessary for Instantaneous SARB Subsystem (SS5) processing for January through December 2009 and were previously obtained from NCAR by the SARB Working Group need to be redelivered by NCAR. This redelivery is expected in time for the resulting MATCH files to be delivered to the production environment prior to the onset of SARB processing for 2009.

MODIS Collections 005 and 051: MODAPS is currently sending Collection 005 and 051 Terra and Aqua data, respectively. The Aqua files that include the deep blue algorithm are identified as Collection 051. The ASDC has received Collection 051 files for Aqua from October 11, 2003 through the present. The Terra MOD02 and MOD03 (radiance and geolocation, respectively) Collection 051 has been in production for some time, and the reprocessing of the Terra MOD04 and MOD08 data files that include the deep blue algorithm for the aerosols was advertised to begin on March 25, 2010. Processing began with Terra "First Light" (February 24, 2000) and will continue in time order through 2006. The forward processing stream will begin at a later date, still to be determined. This collection will also be identified as Collection 051.

MODIS Collection 004: Collection 004 Aqua data were received through April 2006.

MODIS Collection 006: The most recently obtained information regarding Collection 006 was provided on July 28 and indicated that the Collection 006 production runs are expected to begin in the spring of 2010. The CERES Team does not yet know details regarding the continuation of Collection 005.

GMAO: The CERES team agreed to accept the G5-CERES meteorological data provided by GMAO. The CERES Team expects to use these data for the remainder of Edition2 processing. CERES Edition3 processing is expected to use the updated GEOS-5.4.0 data provided by GMAO, for which CERES is still waiting for the receipt of sample data.

Snow and Ice: Though it has not yet been determined exactly when CERES will incorporate it into their processing, an evaluation of the sample 1/16 snow mesh data received by the ASDC from the provider has indicated that the data are satisfactory for CERES use. The ASDC will continue to receive the 1/8 data for an unspecified time. (Remember that the 1/16 data is in meters, not inches.) The software to process the 1/16 data is now in production and in use by FLASHFlux. Until all projects currently requiring the 1/8 data no longer need it, the 1/8 data will be processed.

Software and Coefficients Delivery Updates

TRMM:

The Instrument delivery to bring back simulated TRMM IES data is on hold due to other higher priorities requiring personnel and computing resources. The software to be delivered was successfully tested on the SCF SGI platforms.

The deliveries of the versions of the Clouds and Inversion Subsystems that will use the simulated TRMM IES data as input are also on hold.

Terra:

The Instrument gains and spectral response functions necessary for processing Edition2 data for October 2009 through February 2010 are expected to be delivered in April.

The Instrument Subsystem Ada language version of the software capable of processing Terra and Aqua data is undergoing pre-operational testing at the ASDC in the AMI-X86 environment.

The Instrument Subsystem Ada language version of the Main-Processor that can also ingest FM5 data was released to the ASDC for pre-operational testing in the AMI-X86 environment.

The Instrument Subsystem RDR Pre-Processor for NPP was released to the ASDC for pre-operational testing.

Delivery of Build 1 of the C++ version of the Instrument Subsystem to the *magneto* P4 environment was made in May 2009 and successfully executed in the production environment in support of the Annual SDS on NPP Functional Test. Delivery of Build 2 to the AMI-P6 platform was made in November 2009 and is pending CM testing. Delivery of Build 3 is expected in late April 2010.

The ERBE-like software packages to produce the snow product in the *magneto* P4 environment were promoted to the production environment and is ready for ValRx testing. The PGE to produce the SRF was promoted to production in December and is also ready for ValRx testing. The software to produce the ES-4 and ES-9 products were re-delivered to include a look-up table for cross track days that will be used in Edition3 processing. The ERBE-like software packages that produce the ES8 product are expected to be delivered in April 2010.

The Clouds delivery to generate Edition3 data is expected to be delivered in late June. The associated Inversion/SOFA delivery is expected within a month of the Clouds delivery.

The Instantaneous SARB delivery to generate Beta-Ed3 CRS data is expected late fall 2010.

Pre-operational testing for the TISA Averaging delivery to generate Terra Edition2E and Aqua Edition2B SRBAVG products continues.

The TISA GGEO Subsystem to produce Beta10 coefficients for November 2005 through June 2009 in the *magneto* P4 environment is undergoing pre-operational testing.

The RegridMOA Subsystem was delivered to the AMI-P6 environment in December 2009 and is undergoing pre-operational testing.

The Beta2-Ed3 TISA-Gridding (SSF1deg-Hour) for Terra and Aqua was delivered for the AMI-P6 platform and is waiting for CM testing.

The Beta2-Ed3 TISA-Averaging deliveries for Terra and Aqua SSF1deg-Day and SSF1deg-Month (nonGEO), and SYN1deg-Day, SSF1deg-Mhour, and SSF1deg-Month (GEO) are expected in the summer of 2010.

A delivery of all of the ERBE-like PGEs to process in the AMI environment is expected in late spring.

Aqua:

Aqua software delivery updates are included with the Terra updates.

Documentation Updates:

Need resolution on whether the Aqua-FM4 –NoSW data sets should be made publicly available or not. Ed2A-NoSW SSF is already public and has been since it was processed. No –NoSW BDS, ERBE-like, or SFC data sets have been publicly released. To do so would require an update to their respective, already written and released Data Quality Summaries (DQS).

TRMM:

Need DQS for TRMM Transient-Ops2 BDS data set if it is to be made public. (ERBE-like went public in 12/2000).

If Edition1-CV is to be publicly released, need Edition1-CV and Ed1-CV-TransOps BDS/ES8/ES4/ES9 DQS.

Terra:

The CERES Terra Revision_1 Table referenced by the DQS for many of the CERES Edition2 archival products has been extended through 12/2007.

Updates to the Terra Edition2G DQS for SSF and SFC are in progress.

Aqua:

If Aqua AnomOps-Ed1-CV and Ed1-CV-NoSW BDS/ES8/ES4/ES9 are to be made public, need DQS or add these to an existing DQS.

If Aqua-FM4 Ed1-NoSW and Ed2-NoSW BDS and ERBE-like data files are to be made publicly available, DQSS must be created or the Edition1 and Edition2 summaries must be expanded to include this data set.

The CERES Aqua Revision_1 Table referenced by the DQS for many of the CERES Edition2 archival products has been extended through 12/2007.

GEO:

No updates.

Data Sets Currently in Production
(Status verified 4/1/10)

CERES Product	Satellite	Instr.	Production Strategy	Beginning Data Date	Date Through Which Processing is Complete	Further Processing Expected? (Y/N)	Comments
BDS	Terra	Both	Baseline1-QC	2/25/2000	3/29/2010	Y	
		Both	Edition1-CV	2/25/2000	3/1/2010	Y	
		Both	Edition2	2/25/2000	10/1/2009	Y	
		Both	Edition3	3/1/2000	12/1/2004	Y	
	Aqua	Both	Baseline1-QC	6/18/2002	3/29/2010	Y	
		FM3	Edition1-CV	6/18/2002	3/1/2010	Y	No files for 7/19/05 - 8/30/05 due to temperature variations
		FM4	Ed1-CV-NoSW	4/1/2005	3/1/2010	Y	" "
		FM3	Edition2	6/18/2002	10/1/2009	Y	
	FM4	Ed2-NoSW	4/1/2005	10/1/2009	Y		
ES8	Terra	Both	Baseline1-QC	2/25/2000	3/29/2010	Y	
		Both	Edition1-CV	2/25/2000	2/28/2010	Y	
		Both	Edition2	2/25/2000	9/30/2009	Y	
	Aqua	Both	Baseline1-QC	6/18/2002	3/29/2010	Y	
		FM3	Edition1-CV	6/18/2002	2/28/2010	Y	
		FM4	Ed1-CV-NoSW	4/1/2005	2/28/2010	Y	See note for BDS Aqua FM4 AnomOps-Ed1-CV.
		FM3	Edition2	6/18/2002	9/30/2009	Y	
		FM4	Ed2-NoSW	4/1/2005	9/30/2009	Y	See note for BDS Aqua FM4 AnomOps-Ed1-CV.

Data Sets Currently in Production
(Status verified 4/1/10)

CERES Product	Satellite	Instr.	Production Strategy	Beginning Data Date	Date Through Which Processing is Complete	Further Processing Expected? (Y/N)	Comments
ES4	Terra	Both	Edition1-CV	3/1/2000	2/28/2010	Y	
		Both	Edition2	3/1/2000	9/30/2009	Y	
	Aqua	FM3	Edition1-CV	6/18/2002	2/28/2010	y	
		FM4	Ed1-CV-NoSW	4/1/2005	2/28/2010	Y	No files for 7/05 & 8/05 due to temp variations
		FM3	Edition2	6/18/2002	9/30/2009	Y	
		FM4	Ed2-NoSW	4/1/2005	9/30/2009	Y	No files for 7/05 & 8/05 due to temp variations
	Comb	FM1 + FM3	Edition2	7/1/2002	9/30/2009	Y	
		FM2 + FM3	Edition2	1/1/2006	3/31/2007	Y	
ES9	Terra	Both	Edition1-CV	3/1/2000	2/28/2010	Y	
		Both	Edition2	3/1/2000	9/30/2009	Y	
	Aqua	FM3	Edition1-CV	6/18/2002	2/28/2010	Y	
		FM4	Ed1-CV-NoSW	4/1/2005	2/28/2010	Y	No files for 7/05 & 8/05 due to temp variations
		FM3	Edition2	6/18/2002	9/30/2009	Y	
		FM4	Ed2-NoSW	4/1/2005	9/30/2009	Y	No files for 7/05 & 8/05 due to temp variations
	Comb	FM1 + FM3	Edition2	7/1/2002	9/30/2009	Y	
		FM2 + FM3	Edition2	1/1/2006	3/31/2007	Y	
SSF	Terra	Both	Edition2G	12/31/2007	4/28/2009	Y	

Data Sets Currently in Production
(Status verified 4/1/10)

CERES Product	Satellite	Instr.	Production Strategy	Beginning Data Date	Date Through Which Processing is Complete	Further Processing Expected? (Y/N)	Comments
SFC	Terra	Both	Edition2G	1/1/2008	2/28/2009	Y	
GGEO	N/A	N/A	Edition2A	3/1/2000	10/31/2005	Y	
CRS	Terra	FM1	Edition2G	1/1/2008	11/10/2008	Y	
FSW	Terra	FM1	Edition2G	2/1/2008	6/30/2008	Y	
TSI	Terra	XTrk	Edition2C	3/1/2000	10/31/2005	Y	
	Aqua	XTrk	Edition2B	7/1/2002	10/31/2005	Y	
SYNI	Terra	XTrk	Edition2C	3/1/2000	10/31/2005	Y	
	Aqua	XTrk	Edition2B	7/1/2002	10/31/2005	Y	
SYN/AVG/ ZAVG	Terra	XTrk	Edition2C	3/1/2000	10/31/2005	Y	
	Aqua	XTrk	Edition2B	7/1/2002	10/31/2005	Y	
MOA	N/A	N/A	G5-CERES	9/30/2007	11/30/2009	Y	G5-CERES forward processing stream
PMOA	N/A	N/A	G5-CERES	1/1/2008	10/31/2009	Y	G5-CERES forward processing stream

Completed Data Sets

(Status verified 4/1/10)

CERES Product	Satellite	Instr.	Production Strategy	Beginning Data Date	Date Through Which Processing is Complete	Further Processing Expected? (Y/N)	Comments
BDS	Terra	Both	Edition1	2/25/2000	10/31/2005	N	
	Aqua	FM3	Edition1	6/18/2002	10/31/2005	N	
		FM4	Edition1	6/18/2002	3/29/2005	N	
		FM4	Ed1-NoSW	4/1/2005	10/31/2005	N	No files for 7/19/05 - 8/30/05 due to temperature variations
		FM4	Edition1-CV	6/18/2002	3/31/2005	N	" "
		FM4	AnomOps-Ed1-CV	7/19/2005	8/30/2005	N	During this period diagnostics were performed in an attempt to recover FM4's shortwave channel. To help ensure that the resulting data from the front-end subsystems did not inadvertently become available to the public, the Production Strategy was set as "AnomOps-Ed1-CV".
		FM4	Edition2	6/18/2002	3/29/2005	N	
	TRMM	PFM	Edition1-CV	1/1/1998	8/31/1998	N	
		PFM	Edition1-CV	3/1/2000	3/31/2000	N	
		PFM	Ed1-CV-TransOps	1/19/1999	7/17/1999	N	Data set not continuous, selected days only
ES8	Terra	Both	Edition1	2/25/2000	10/31/2005	N	
	Aqua	FM3	Edition1	6/18/2002	10/31/2005	N	
		FM4	Edition1	6/18/2002	3/29/2005	N	
		FM4	Ed1-NoSW	4/1/2005	10/31/2005	N	No files for 7/19/05 - 8/30/05 due to temperature variations
		FM4	Edition1-CV	6/18/2002	3/31/2005	N	
		FM4	AnomOps-Ed1-CV	7/19/2005	8/30/2005	N	See note for BDS Aqua FM4 AnomOps-Ed1-CV.
		FM4	Edition2	6/18/2002	3/29/2005	N	
	TRMM	PFM	Edition1-CV	1/1/1998	8/31/1998	N	
		PFM	Edition1-CV	3/1/2000	3/31/2000	N	
		PFM	Ed1-CV-TransOps	1/19/1999	7/17/1999	N	Data set not continuous, selected days only
ES4	Aqua	FM4	Edition1-CV	6/18/2002	3/29/2005	N	
		FM4	AnomOps-Ed1-CV	7/19/2005	8/30/2005	N	See note for BDS Aqua FM4 AnomOps-Ed1-CV.
		FM4	Edition2	6/18/2002	3/29/2005	N	
	Comb	FM1 + FM4	Edition2	9/1/2002	3/29/2005	N	
	TRMM	PFM	Edition1-CV	1/1/1998	8/31/1998	N	
		PFM	Edition1-CV	3/1/2000	3/31/2000	N	

Completed Data Sets

(Status verified 4/1/10)

CERES Product	Satellite	Instr.	Production Strategy	Beginning Data Date	Date Through Which Processing is Complete	Further Processing Expected? (Y/N)	Comments
ES9	Aqua	FM4	Edition1-CV	6/18/2002	3/29/2005	N	
		FM4	AnomOps-Ed1-CV	7/19/2005	8/30/2005	N	See note for BDS Aqua FM4 AnomOps-Ed1-CV.
	Comb	FM4	Edition2	6/18/2002	3/29/2005	N	
		FM1 + FM4	Edition2	9/1/2002	3/29/2005	N	
	TRMM	PFM	Edition1-CV	1/1/1998	8/31/1998	N	
		PFM	Edition1-CV	3/1/2000	3/31/2000	N	
SSF	Terra	Both	Edition2B	3/1/2000	8/1/2006	N	MOD 004 as input. FM2 only for January 2006--FM1 in stowe.
		Both	Edition2F	1/1/2006	1/1/2008	N	MOD 005 as input. No 2/1/06 - 4/29/06. FM2 only for January 2006 (FM1 in stowe).
		Both	Beta1-Ed3	10/1/2003	10/31/2003	N	
		Both	Beta2-Ed3	1/1/2004	7/31/2006	N	Seasonal months for 2004, January 2006 (FM2 only, FM1 in stowe), and July 2006 only.
	Aqua	Both	Edition1B	7/1/2002	3/30/2005	N	
		Both	Edition2A/Ed2A-NoSW	7/2/2002	1/1/2006	N	
		Both	Edition2B/Ed2B-NoSW	7/2/2002	5/1/2006	N	Missing 07/19/05 - 08/30/05. See note for BDS Aqua FM4 AnomOps-Ed1-CV.
		Both	Edition2C/Ed2C-NoSW	1/1/2006	1/1/2008	N	MOD 005 as input (no 2/1/06 - 4/29/06) (PRs 62-08, 61-08). Edition2D to begin on 1/1/08.
		Both	Ed2C-MOD-C4-Land-IGB	1/1/2004	12/31/2005	N	XTrk only after 7/1/04 (PRs 63-08, 64-08)
		Both	Beta2-Ed3	1/1/2004	7/31/2006	N	Seasonal months for 2004, January 2006, and July 2006 only.
SFC	Terra	Both	Edition2B	3/1/2000	10/31/2003	N	
		Both	Edition2C	3/1/2000	7/31/2006	N	MOD 004 as input
		Both	Edition2F	1/1/2006	12/31/2007	N	MOD 005 as input (no 2/1/06 - 4/29/06) (PR 55-08). Edition2G to begin on 1/1/08.
	Aqua	Both	Edition1B	7/1/2002	2/28/2005	N	
		Both	Edition2A/Ed2A-NoSW	7/1/2002	12/31/2005	N	
		Both	Edition2B/Ed2B-NoSW	7/2/2002	4/30/2006	N	MOD 004 as input
Both	Edition2C/Ed2C-NoSW	1/1/2006	12/31/2007	N	MOD 005 as input (no 2/1/06 - 4/29/06) (PR 60-08). Edition2D to begin on 1/1/08.		
GGEO	N/A	N/A	Beta9	6/1/2004	12/31/2005	N	

Completed Data Sets

(Status verified 4/1/10)

CERES Product	Satellite	Instr.	Production Strategy	Beginning Data Date	Date Through Which Processing is Complete	Further Processing Expected? (Y/N)	Comments
ISCCP-D2like-Day/Nit	Terra	XTrk	Beta1	3/1/2000	8/31/2007	N	
	Aqua	XTrk	Beta1	7/1/2002	8/31/2007	N	
ISCCP-D2like-GEO	N/A	N/A	Beta1	7/1/2002	10/31/2005	N	
SRBAVG	Terra	Both	Edition2C	3/1/2000	2/28/2003	N	
	Aqua	Both	Edition2A	7/1/2002	3/31/2005	N	
SRBAVG-Daily1/2	Terra	Both	Beta1	3/1/2000	2/28/2003	N	
CRS	Terra	XTrk	Edition2B	3/1/2000	6/30/2006	N	MOD 004 as input to SSF.
		XTrk	Edition2F	5/1/2006	12/31/2007	N	MOD 005 as input to SSF (PRs 2-08, 54-08). Edition2G to begin on 1/1/08.
	Aqua	XTrk	Edition2A	7/2/2002	12/31/2005	N	
		XTrk	Edition2C	5/1/2006	12/31/2007	N	MOD 005 as input to SSF. (PR 59-08). Edition2D to begin on 1/1/08.
FSW	Terra	XTrk	Edition2B			N	Deleted from archives
		XTrk	Edition2C	3/1/2000	6/20/2006	N	MOD 004 as input to SSF.
		XTrk	Edition2F	5/1/2006	12/31/2007	N	MOD 005 as input to SSF (PRs 1-08, 53-08). Edition2G to begin on 1/1/08.
	Aqua	XTrk	Edition2A	7/2/2002	12/31/2005	N	
		XTrk	Edition2C	5/1/2006	12/31/2007	N	MOD 005 as input to SSF (PRs 4-08, 60-08). Edition2D to begin on 1/1/08.

Completed Data Sets
(Status verified 4/1/10)

CERES Product	Satellite	Instr.	Production Strategy	Beginning Data Date	Date Through Which Processing is Complete	Further Processing Expected? (Y/N)	Comments
TSI	Terra	XTrk	Beta4/5	4/1/2000	10/31/2005	N	Seasonal months + 2001 + 2/04. (April months processed in SIT with PS and CC set to "GGEO-val_800800" in output filenames.)
	Aqua	XTrk	Beta4/5	7/1/2002	10/31/2005	N	Seasonal months only
SYNI	Terra	XTrk	Beta3	3/1/2000	10/31/2005	N	10/04 - 10/05 known to have problems due to Toolkit, 11/04 - 10/05 requested to delete from archives, and for 10/04 to have only LaRC access
	Aqua	XTrk	Beta4/5	7/1/2002	10/31/2005	N	Seasonal months only
	TRMM	PFM	Beta3	3/1/2000	3/31/2000	N	
SYN/ AVG/ ZAVG	Terra	XTrk	Beta3	3/1/2000	10/31/2005	N	10/04 - 10/05 known to have problems due to Toolkit. It was requested, therefore, that 11/04 - 10/05 to be deleted from archives, and for 10/04 to have only LaRC access.
		XTrk	Beta4	7/1/2000	10/31/2005	N	Jan, Jul, and Oct only.
		XTrk	Beta5	4/1/2000	4/30/2005	N	Apr only. Processed at SCF. Not archived.
	Aqua	XTrk	Beta6	1/1/2001	12/31/2001	N	
		XTrk	Beta4	7/1/2002	10/31/2005	N	Jan, Jul, and Oct only. Processed at SCF. Not archived.
		XTrk	Beta6	7/1/2002	10/31/2005	N	Seasonal months only
MOA	N/A	N/A	ECMWF-GEOS4	1/1/1998	9/1/2003	N	
		N/A	DAO-GEOS4	12/15/1997	1/1/2008	N	
		N/A	GMAO-G5-Beta2Ed3	1/1/2004	7/31/2006	N	MOA files for Beta2-Ed3 processing. Files produced for all of 2004, 1/06, and 7/06.
		N/A	G5re-CERES	10/1/2007	10/31/2007	N	G5-CERES reprocessed stream
PMOA	N/A	N/A	DAO-GEOS4	12/1/1997	12/31/2007	N	No 1999. Overlap should be included for every month