

MODAPS is currently sending only Collection 005 and 051 Terra and Aqua data, respectively. Starting with 08/21/2006, the Aqua Aerosol LUT correction was implemented in the forward data stream. The Aqua-corrected reprocessing, which includes the deep blue algorithm and a LUT correction, began on 03/09/2007. 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. Reprocessing of the Terra MOD04 data files to include the deep blue algorithm is expected no sooner than mid November 2009. Processing will begin 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. Collection 004 Terra data were received through July 2006. Collection 004 Aqua data were received through April 2006. 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.

The CERES team agreed to accept the latest version of the G5-CERES meteorological data provided by GMAO. The CERES Team expects to use these data for the remainder of Edition2 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 Clouds Subsystem delivered the software to process the 1/16 data to CERES CM and it is now undergoing pre-operational testing. It is anticipated that once promoted to production, this software will process the 1/16 data beginning with January 2009 for CERES use. 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:

Production processing of Terra Edition3 through the Instrument Subsystem from launch through December 1, 2004 was approved to begin.

All MATCH files necessary for processing of the Instantaneous SARB Subsystem (SS5) have been delivered through December 2007. Software contributed by the Dave Fillmore's team to produce the files necessary for 2008 and beyond is undergoing testing and evaluation by the SARB Working Group.

The Clouds and Convolution Subsystem software to produce Terra and Aqua Edition2 SSF in the *magneto* P4 environment completed ValRx testing at the ASDC. Unexpected differences between these results and the baseline results are being investigated.

The Inversion/SOFA Subsystem software to produce Terra and Aqua Edition2 SSF in the *magneto* P4 environment completed ValRx testing at the ASDC and evaluation of the results indicate that the software is working as expected.

The Beta2-Ed3 Clouds and Convolution Subsystem software is undergoing pre-operational testing at the ASDC

The Beta2-Ed3 Inversion/SOFA Subsystem software was delivered and is undergoing CM testing

The Regrid MOA Subsystem to produce the Edition3 MOA files in the *magneto* P4 environment was approved for production processing. A new delivery to accommodate recent changes to the formats of the SSM/I and GMAO externally provided data sets is no longer expected.

Pre-operational testing of the TISA GGEO Subsystem to produce Beta10 coefficients for November 2005 through June 2009 in the *magneto* P4 environment at the ASDC was halted due to expected delivery updates during November 2009.

The following subsystems are expected to deliver to the *magneto* P4 environment as follows:

- ERBE-like Edition2 in early November 2009

- The TISA-Averaging for Terra Edition2E and Aqua Edition2B SRBAVG in November 2009

- TISA-Gridding (SFC) Beta2-Ed3 for Terra and Aqua in the fall of 2009

- TISA-Averaging (SRBAVG nonGEO) Beta2-Ed3 for Terra and Aqua in late fall 2009

October 2009 - CERES Processing Update

The Instrument Subsystem is expected to deliver the Ada language version of the main-processor that can also ingest FM5 data to the ASDC AMI-X86 environment in late fall/early winter.

Delivery of Build 1 of the C++ version of the Instrument Subsystem to the *magneto* IBM P4 Linux 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 is expected in November 2009.

Deliveries to the AMI-P6 environment are anticipated to begin in December 2009 with the Regrid MOA Subsystem. It is currently anticipated that the remaining subsystems will begin delivering production software to the AMI-P6 environment in March 2010.

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.

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, DQs 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.

Production Updates

(Processing status was verified 11/03/09)

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	10/31/2009	Y	
		Both	Edition1	2/25/2000	10/31/2005	N	
		Both	Edition1-CV	2/25/2000	10/1/2009	Y	
		Both	Edition2	2/25/2000	1/1/2009	Y	
	Aqua	Both	Baseline1-QC	6/18/2002	10/31/2009	Y	
		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
		FM3	Edition1-CV	6/18/2002	10/1/2009	Y	" "
		FM4	Edition1-CV	6/18/2002	3/31/2005	N	" "
		FM4	Ed1-CV-NoSW	4/1/2005	10/1/2009	Y	" "
		FM4	AnomOps-Ed1-CV	7/19/2005	8/30/2005	N	During this period diagnostics were
		FM3	Edition2	6/18/2002	1/1/2009	Y	
		FM4	Edition2	6/18/2002	3/29/2005	N	
	FM4	Ed2-NoSW	4/1/2005	1/1/2009	Y		
	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	

Production Updates

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CERES Product	Satellite	Instr.	Production Strategy	Beginning Data Date	Date Through Which Processing is Complete	Further Processing Expected? (Y/N)	Comments
ES8	Terra	Both	Baseline1-QC	2/25/2000	10/31/2009	Y	
		Both	Edition1	2/25/2000	10/31/2005	N	
		Both	Edition1-CV	2/25/2000	8/31/2009	Y	
		Both	Edition2	2/25/2000	12/31/2008	Y	
	Aqua	Both	Baseline1-QC	6/18/2002	10/31/2009	Y	
		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
		FM3	Edition1-CV	6/18/2002	8/31/2009	Y	
		FM4	Edition1-CV	6/18/2002	3/31/2005	N	
		FM4	Ed1-CV-NoSW	4/1/2005	8/31/2009	Y	See note for BDS Aqua FM4 AnomOps-Ed1-CV.
		FM4	AnomOps-Ed1-CV	7/19/2005	8/30/2005	N	See note for BDS Aqua FM4 AnomOps-
		FM3	Edition2	6/18/2002	12/31/2008	Y	
		FM4	Edition2	6/18/2002	3/29/2005	N	
	FM4	Ed2-NoSW	4/1/2005	12/31/2008	Y	See note for BDS Aqua FM4 AnomOps-Ed1-CV.	
	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	

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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	8/31/2009	Y	
		Both	Edition2	3/1/2000	12/31/2008	Y	
	Aqua	FM3	Edition1-CV	6/18/2002	8/31/2009	y	
		FM4	Edition1-CV	6/18/2002	3/29/2005	N	
		FM4	Ed1-CV-NoSW	4/1/2005	8/31/2009	Y	No files for 7/05 & 8/05 due to temp variations
		FM4	AnomOps-Ed1-CV	7/19/2005	8/30/2005	N	See note for BDS Aqua FM4 AnomOps-
		FM3	Edition2	6/18/2002	12/31/2008	Y	
		FM4	Edition2	6/18/2002	3/29/2005	N	
		FM4	Ed2-NoSW	4/1/2005	12/31/2008	Y	No files for 7/05 & 8/05 due to temp variations
		Comb	FM1 + FM3	Edition2	7/1/2002	12/31/2008	Y
	FM2 + FM3		Edition2	1/1/2006	3/31/2007	Y	
	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	

Production Updates

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CERES Product	Satellite	Instr.	Production Strategy	Beginning Data Date	Date Through Which Processing is Complete	Further Processing Expected? (Y/N)	Comments
ES9	Terra	Both	Edition1-CV	3/1/2000	8/31/2009	Y	
		Both	Edition2	3/1/2000	12/31/2008	Y	
	Aqua	FM3	Edition1-CV	6/18/2002	8/31/2009	Y	
		FM4	Edition1-CV	6/18/2002	3/29/2005	N	
		FM4	Ed1-CV-NoSW	4/1/2005	7/31/2009	Y	No files for 7/05 & 8/05 due to temp variations
		FM4	AnomOps-Ed1-CV	7/19/2005	8/30/2005	N	See note for BDS Aqua FM4 AnomOps-Ed1-CV.
		FM3	Edition2	6/18/2002	12/31/2008	Y	
		FM4	Edition2	6/18/2002	3/29/2005	N	
		FM4	Ed2-NoSW	4/1/2005	12/31/2008	Y	No files for 7/05 & 8/05 due to temp variations
		Comb	FM1 + FM3	Edition2	7/1/2002	12/31/2008	Y
	FM2 + FM3		Edition2	1/1/2006	3/31/2007	Y	
	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	

Production Updates

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CERES Product	Satellite	Instr.	Production Strategy	Beginning Data Date	Date Through Which Processing is Complete	Further Processing Expected? (Y/N)	Comments	
SSF	Terra	Both	Edition2B	3/1/2000	8/1/2006	N	MOD 004 as input	
		Both	Edition2F	1/1/2006	1/1/2008	N	MOD 005 as input (no 2/1/06 - 4/29/06) (PRs 57-08, 56-08). Edition2G to begin on 1/1/08.	
		Both	Beta1-Ed3	10/1/2003	10/31/2003	N		
	Aqua			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	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-IGBP	1/1/2004	12/31/2005	N	XTrk only after 7/1/04 (PRs 63-08, 64-08)		
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	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.

Production Updates

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CERES Product	Satellite	Instr.	Production Strategy	Beginning Data Date	Date Through Which Processing is Complete	Further Processing Expected? (Y/N)	Comments
GGEO	N/A	N/A	Edition2A	3/1/2000	10/31/2005	Y	
		N/A	Beta9	6/1/2004	12/31/2005	N	
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	Edition2D	3/1/2000	10/31/2005	N	
		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	Edition2B	7/2/2002	5/1/2006	N	MOD 004 as input to SSF.
		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
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	Edition2B	7/2/2002	4/30/2006	N	MOD 004 as input to SSF.
		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.

Production Updates

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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.)
		XTrk	Edition2C	3/1/2000	10/31/2005	Y	(PR 6-09)
	Aqua	XTrk	Beta4/5	7/1/2002	10/31/2005	N	Seasonal months only
		XTrk	Edition2B	7/1/2002	10/31/2005	Y	(PR 3-09)
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
		XTrk	Edition2C	3/1/2000	10/31/2005	Y	
	Aqua	XTrk	Beta4/5	7/1/2002	10/31/2005	N	Seasonal months only
		XTrk	Edition2B	7/1/2002	10/31/2005	Y	(PR 2-09)
	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, 11/04 - 10/05 requested to delete 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.
		XTrk	Beta6	1/1/2001	12/31/2001	N	
	Aqua	XTrk	Edition2C	3/1/2000	10/31/2005	Y	(PR 4-09)
		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
		XTrk	Edition2B	7/1/2002	10/31/2005	Y	(PR 1-09)

Production Updates

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CERES Product	Satellite	Instr.	Production Strategy	Beginning Data Date	Date Through Which Processing is Complete	Further Processing Expected? (Y/N)	Comments
MOA	N/A	N/A	ECMWF-GEOS4	1/1/1998	9/1/2003	N	
		N/A	DAO-GEOS4	12/15/1997	1/1/1998	N	
		N/A	G5-CERES	9/30/2007	5/31/2009	Y	G5-CERES forward processing stream
		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
		N/A	G5-CERES	1/1/2008	4/30/2009	Y	G5-CERES forward processing stream