

# CERES Data Management Status

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Presented to  
CERES Science Team

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# CERES Data Management Status

## Agenda

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- Science Data Product Status
- Processing Environment Status
- Technology Advances

# CERES Science Data Source Status

<b>Data</b>	<b>Satellite</b>	<b>Source</b>	<b>Status</b>	<b>Comments</b>
L0 Data	TRMM	Instrument Data Stream	Complete	
L0 Data	Terra-CERES	Instrument Data Stream	Incoming	
L0 Data	Aqua-CERES	Instrument Data Stream	Incoming	Started 5/11/02 data date; Beta1 processing.
Attitude	TRMM	Spacecraft	Incoming	
Attitude	Terra	EDOS-EMOS-FDS-LDAAC-LaTIS	Incoming	Sporadic missing data being replaced on ongoing basis.
Attitude	Aqua	EDOS-LaTIS	Incoming	Data started 5/11/02 data date.
Ephemeris	TRMM	Spacecraft	Incoming	
Ephemeris	Terra	EDOS-LDAAC-LaTIS	Incoming	Sporadic missing data being replaced on ongoing basis.
Ephemeris	Aqua	EDOS-LaTIS	Incoming	Started 5/11/02 data date.
Imager	TRMM-VIRS	Instrument	Incoming	Edition 2-VIRS only SSF
Imager	Terra - MODIS	GDAAC	Incoming	
Imager	Aqua - MODIS	GDAAC	Incoming	
MOA		DAO	Incoming	Quality improving, but not yet adequate for CERES use. Transition to GEOS-4 ends 10/31/02.
MOA		ECMWF	Sample	Ongoing processing, through Sep03.
MOA		GHRC $\mu$ wave humidity	Incoming	Precipitable water.

# CERES Science Data Products

## Delivered Since May, 2002

Data Set	Comments
CER_TRMM_SSF_Edition2B CER_TRMM_Edition2B-TransOps	Updated ADMs; improved aerosols; updated surface algorithms; Edition2 clouds; Public release July'02.
CER_TRMM_CRS_Edition2B CER_TRMM_CRS_Edition2B-TransOps CER_TRMM_CRS_Edition2B Subset	First validated SARB product; Public release scheduled early this Fall.
CER_TRMM_SFC_Edition2B	First validated CERES TISA product; Public release scheduled early this Fall.
CER_TRMM_SRBAVG_Beta5	Latest Beta CERES TISA averaging product; Edition2B SFC is input; No public release expected
CER_TRMM_FSW_Beta3	Feb'98 and Apr'98 only; TRMM Edition2B CRS are input; No public release expected
CER_TERRA_SSF_Beta4 CER_TERRA_SSF_Beta4-overARM	Nov'00 - Jul'01 Beta4-overARM data; 2 weeks of global Beta4; No public release expected
CER_AQUA_BDS_Beta1	First Aqua data products; June 18, 2002 through present; Public release scheduled this Fall;
CER_AQUA_ES8_Beta1, CER_AQUA_ES9_Beta1 CER_AQUA_ES4_Beta1	Updated ADMs; improved aerosols; updated surface algorithms. Apr'98 & Feb'98 processed for review. Remaining 7 months to process next week.

# CERES Science Data Products

## Soon-to-be-Processed

Data Set	Comments	When?
CER_SRBAVG_TRMM_Edition2B	First validated CERES TISA averaging product.	Schedule public release this Fall.
CER_FSW_TRMM_Edition2B	Edition2B CRS are input.	Schedule public release this winter.
CER_BDS_TERRA_Edition2	FM2 drift corrected.	Schedule public release early this Fall.
CER_ES8_TERRA_Edition2, CER_ES9_TERRA_Edition2, CER_ES4_TERRA_Edition2	FM2 drift corrected; Snow/ice bug corrected;	Scheduled public release early Fall.
CER_SSF_TERRA_Edition1A	First validated SSF for Terra; uses TRMM Edition2B ADMs; includes MODIS aerosols; FM2 drift corrected radiances are input; data set to span Nov'00 through Aug'02;	Scheduled public release early Fall.
CER_SSF_TERRA_Beta5	Edition1 Clouds (no change from Edition1A); uses draft version of Terra ADMs;	Scheduled public release early next year.
CER_CRS_TERRA_Beta3	UsesEdition1A SSF as input	Scheduled public release early Fall.
CER_SFC_TERRA_Beta1	First Beta TISA gridding data set for Terra;	Scheduled public release this Fall.
CER_SRBAVG_TERRA_Beta1	First Beta TISA averaging data set for Terra;	Scheduled public release this Winter.
CER_FSW_TERRA_Beta3	Beta3 CRS are input	Scheduled public release late this Winter.

# CERES Science Data Products

## Soon-to-be-Processed, Part Deux

<b>Data Set</b>	<b>Comments</b>	<b>When?</b>
CER_BDS_AQUA_Edition1	First validated CERES data set for Aqua.	Schedule public release early next year.
CER_ES8_AQUA_Edition1, CER_ES9_AQUA_Edition1, CER_ES4_AQUA_Edition1	First validated CERES ERBELike data set for Aqua.	Schedule public release early next year.
CER_SSF_AQUA_Beta1	First Beta CERES SSF data set for Aqua	Schedule public release late this winter.

# Older CERES Science Data Products

## Still of Interest

<b>Data Set</b>	<b>Comments</b>
CER_BDS_TRMM-BDS_Edition1	
CER_BDS_TRMM-BDS_Transient-Ops2	
CER_ES8_TRMM_Edition2, CER_ES9_TRMM_Edition2, CER_ES4_TRMM_Edition2	
CER_ES8_TRMM_Transient-Ops2	
CER_BDS_Terra_Edition1	
CER_ES8_TRMM_Edition1, CER_ES9_TRMM_Edition1, CER_ES4_TRMM_Edition1	

# Science Data Product URLs and Contacts

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- Ordering Data
  - [http://eosweb.larc.nasa.gov/HBDOCS/langley\\_web\\_tool.html](http://eosweb.larc.nasa.gov/HBDOCS/langley_web_tool.html)
- Contact Points
  - All questions regarding production data products and their use
    - E-mail: [larc@eos.nasa.gov](mailto:larc@eos.nasa.gov)
    - Langley ASDC Customer Service
  - Contents of this presentation: [m.m.little@larc.nasa.gov](mailto:m.m.little@larc.nasa.gov)



# SCF Configuration and Planning

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- Objectives and capabilities
  - Provide environment for development & testing of science codes
  - Provide computing capacity for unscheduled requirements
- Planned Improvements
  - Add SGI Origin 2000 (buy DAAC trade-in)
    - 64 processors (R12k, 300MHz IP27), 32GB RAM, 1TB SCSI disk array
  - Modernize workstations for developers and scientists
- ITS Issues
  - Access control improvements - VPN in testing
- Consolidation of archives to ASDC
- ERBE Digital Library Experiment

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# CERES Data Management Status Back-up Charts