

ASDC User Services

Susan Sorlie

Atmospheric Sciences Data Center (ASDC)

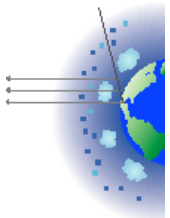
March 29-31, 2004

1st CERES-II Science Team Meeting

Boulder, CO

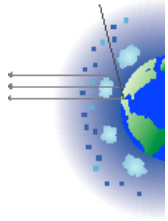
User Services: larc@eos.nasa.gov

Web site: <http://eosweb.larc.nasa.gov>



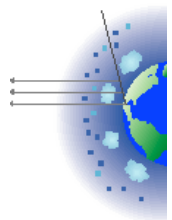
- Atmospheric
- Sciences
- Data Center

Processing, archiving, and distributing Earth Science
data at the NASA Langley Research Center



Topics

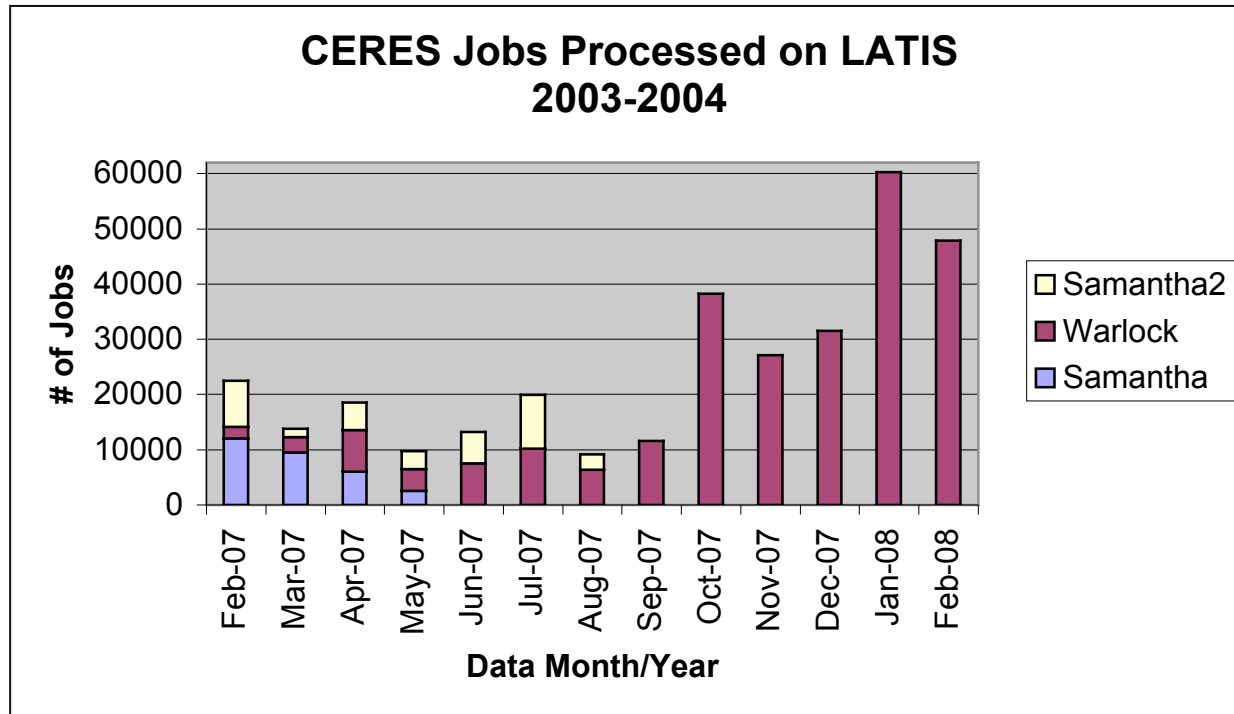
- o **ASDC Overview**
- o **CERES Production**
- o **CERES Customers/Distribution**
- o **CERES Data Access**
- o **Contacting ASDC User Services**



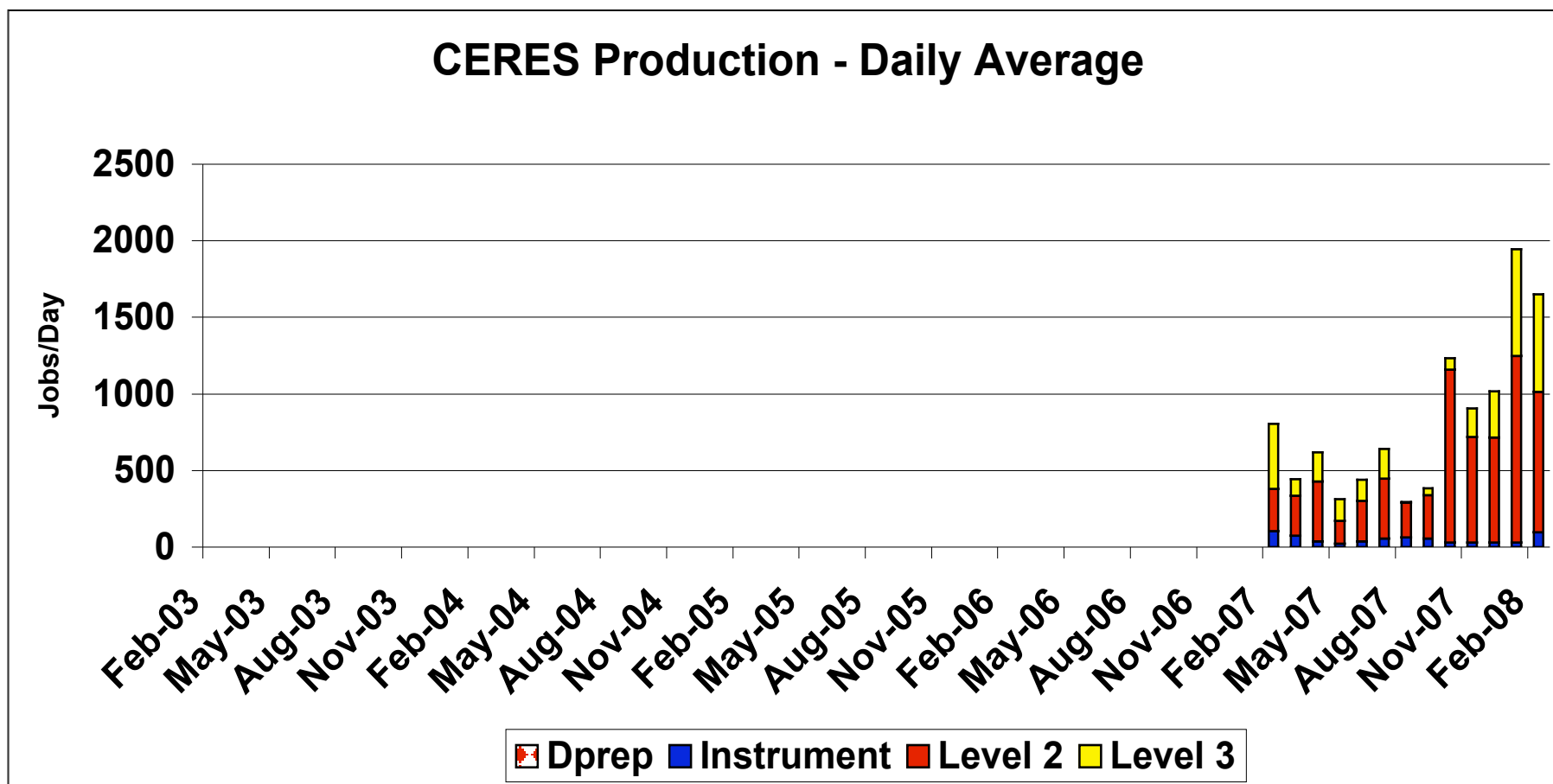
Atmospheric Sciences Data Center (ASDC)

- A full service data center for the **production, archival, and distribution** of Earth Science data in support of NASA's Earth Observing System (EOS)
- Operations began in *January 1993*
- Currently supports over **35** science projects (teams) with over **800** data sets
- Over **7,600** Customers representing **all 50** US states and **140** other countries (FY03)
- Current archival volume: **>750 TB**

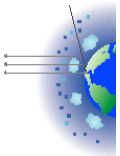
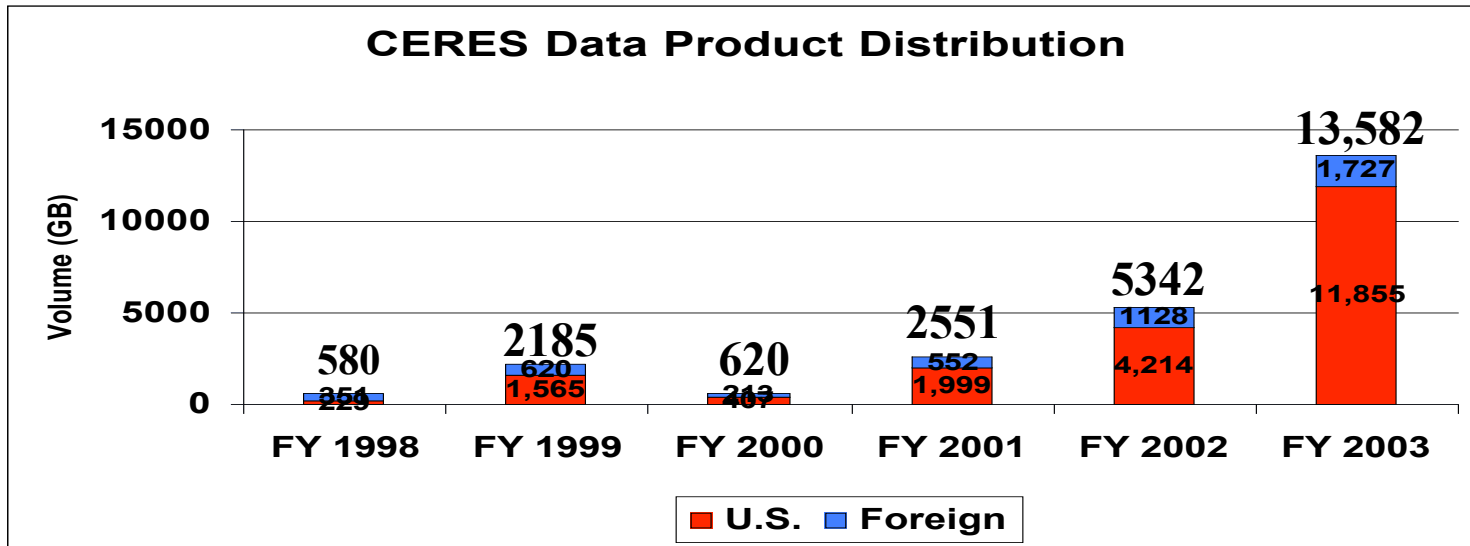
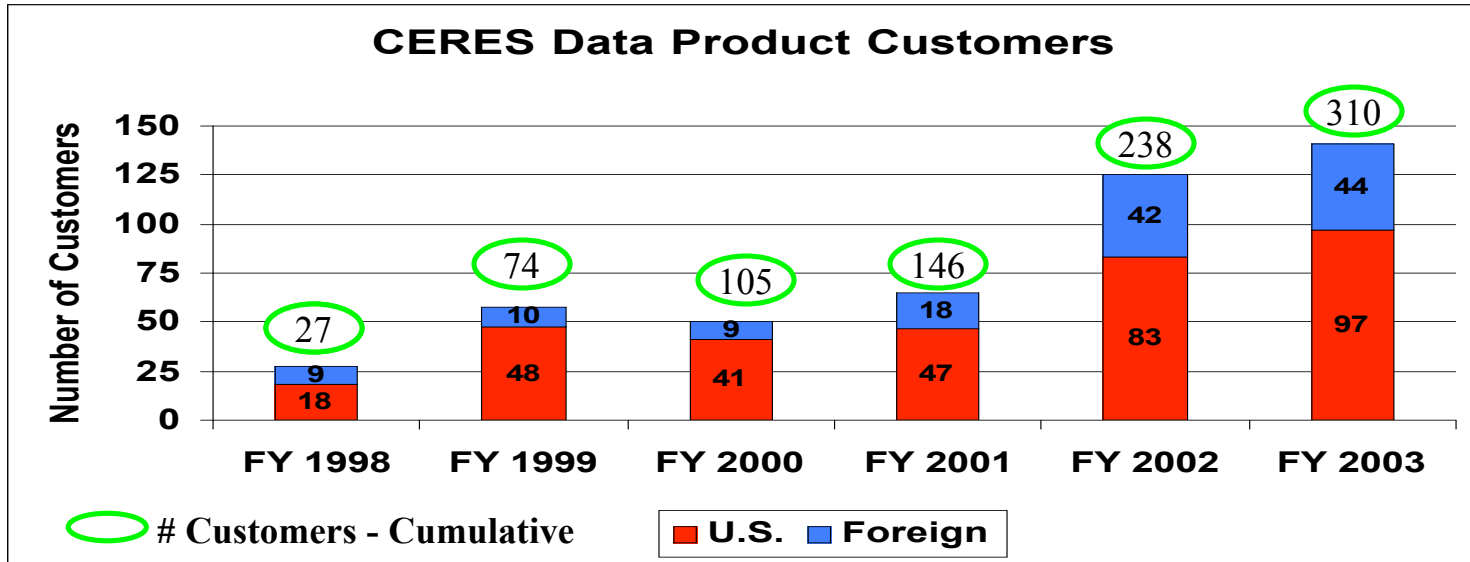
CERES – Production



CERES – Production



CERES – Customers/Distribution



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ATMOSPHERIC SCIENCES DATA CENTER

Processing, archiving, and distributing Earth science data at NASA Langley Research Center

RADIATION BUDGET • CLOUDS • AEROSOLS • TROPOSPHERIC CHEMISTRY

Data & Documentation

- [Access Data](#)
- [Data Pool](#)
- [Projects Supported](#)
- [Acknowledgments Please](#)
- [Recent Research](#)
- [Citation Index](#)

Software Tools

- [HDF Info](#)
- [Data Manipulation S/W](#)

Educational Resources

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New at the Data Center:

- [SAGE III L1B and L2 Data Available.](#)
- [Easy access to MISR and MOPITT data](#) (Data Pool).
- [CERES User Workshop.](#)
- [CERES TRMM Edition2B CRS Data.](#)
- [MISR Short Course at AMS.](#)
- [Project-specific News Registration.](#)

MISR (Multi-angle Imaging SpectroRadiometer) measures top-of-atmosphere radiances in four spectral bands from each of nine pushbroom imaging cameras oriented at different angles along-track. Visit the [MISR Data Table](#) for product details.

CERES (Clouds and Earth's Radiant Energy System) measures Earth's radiation budget and atmospheric radiation from the top of the atmosphere using a broadband scanning radiometer. Visit the [CERES data table](#) for product details.

MOPITT (Measurements Of Pollution In The Troposphere) measures carbon monoxide and methane in the troposphere using correlation spectroscopy with pressure modulated and length modulated gas cells. Recently released [MOPITT products](#) consist of Level 2 data.

MISR Imagery.

Iceberg Breakup

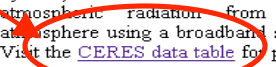
[Details about this image.](#)

CERES Browse Images.

CERES Browse

If you experience difficulty with the Langley DAAC or another EOSDIS DAAC or DAAC service and are unable to resolve the problem with the User Services group at that DAAC, call the EOSDIS Ombudsman at 1-800-461-0075.

CERES Data Table



CERES Data Sets

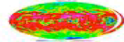
The Clouds and the Earth's Radiant Energy System (CERES) is a key component of the Earth Observing System (EOS) program. The CERES instrument provides radiometric measurements of the Earth's atmosphere from three broadband channels. The CERES instruments are improved models of the Earth Radiation Budget Experiment (ERBE) scanner instruments, which operated from 1984 through 1990 on NASA's Earth Radiation Budget Satellite (ERBS) and on NOAA's operational weather satellites NOAA-9 and NOAA-10.

The first CERES instrument was launched from Tanegashima, Japan, on November 27, 1997, as part of the Tropical Rainfall Measuring Mission (TRMM). Two CERES instruments were launched into polar orbit on board the EOS flagship *Terra* on December 18, 1999, and two additional CERES instruments were launched on board EOS *Aqua* on May 4, 2002.

Note that these data sets are affected by [CERES Operations in Orbit](#).

CERES
News

CERES Browse



[CERES Browse Images](#).

- [Join our Mailing list](#) for CERES News!
- [CERES Workshop Presentations](#) (January 2003).
- Order CERES [Sampler CD-ROM](#) (5 Volumes).

Documents
Tools
Links

Order CERES Data via the Langley Web Ordering Tool.

Documentation	Data Manipulation Tools	Relevant Links	Images
CERES Data Products Catalog Page CERES Collection Guides	view hdf Tool	CERES Home Page CERES Brochure (PDF) CERES Terra Home Page CERES TRMM Home Page CERES ARM Validation Experiment CERES/ARM/GEWEX Experiment CERES/ARM Radiation Experiment CERES Surface Properties CLAMS Home Page	Earth Outgoing Longwave Radiation from CERES Instrument on Terra (03/01/2000 - 02/28/2001) Data Animation. 9 Mbytes 15 Mbytes Validation Graphics: ES-8 and ES-4 Validation Graphics Browse Images

CERES Browse

The CERES data are written in the HDF format. The sample read software packages that are provided with the data are able to read the HDF format. However, you will need to obtain the HDF libraries. ([Get information on the HDF libraries](#).)

If you are interested in ordering any of these data products, select the data set name, and this link will take you directly into the ordering system for you to place your order via the Java Version of the Langley Web Ordering Tool. By using this tool, you are able to subset the following data products, CRS, ES-8 and SSF, by parameter.

Products

Currently available data sets: [BDS](#) | [CRS](#) | [ES-4](#) | [ES-8](#) | [ES-9](#) | [FSW](#) | [SFC](#) | [SRBAVG](#) | [SSF](#)

Easy
Ordering

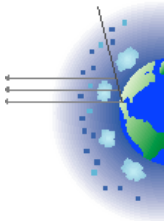
BiDirectional Scan (BDS)				
Parameters: Instr. Engineering Parameters, Shortwave Detector, SW Filtered Radiance, Total Detector, TOT Filtered Radiance, Window Detector, WN Filtered Radiance				
Spacecraft	Data Set Name	Guide Document	Sample Software	Temporal Coverage
	CERES_Test_BDS	Description	Readme Read Package (C)	01/05/1998 (Daily)
TRMM	CER BDS TRMM-PFM Edition1 Quality Summary		Readme Read Package (C)	12/27/1997 - 08/31/1998 (Daily)
Terra	CER BDS Terra-FM1 Edition2 CER BDS Terra-FM2 Edition2 Quality Summary	Description/Abstract BDS Collection Guide . (PDF)	Readme Read Package (C)	01/11/2000 - Current Production (Daily) NOTE: The instrument covers were opened on 02/24/2000.
	CER BDS Terra-FM1 Edition1 CER BDS Terra-FM2 Edition1 Quality Summary		Readme Read Package (C)	01/11/2000 - Current Production (Daily) NOTE: The instrument covers were opened on 02/24/2000.

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