

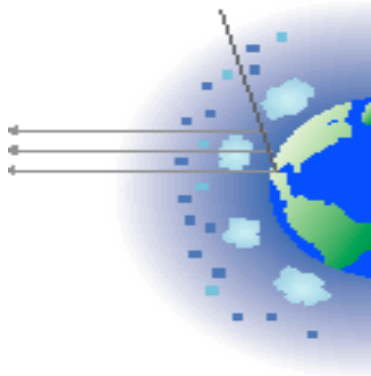
# ATMOSPHERIC SCIENCE DATA CENTER

## ASDC Update

Sue Sorlie

Lindsay Parker

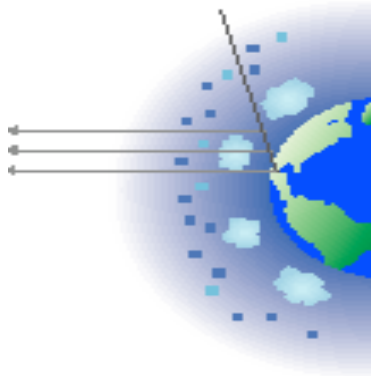
CERES Science Team Meeting  
Marriott Hotel  
Fort Collins, CO  
November 3-5, 2009



# ATMOSPHERIC SCIENCE DATA CENTER

## Topics

- ASDC Highlights since last CERES STM
- CERES/FLASHFlux Archive, Distribution & Customer Metrics
- Contacting User Services



## ATMOSPHERIC SCIENCE DATA CENTER



- Highlights since May 2009
  - Online cache aka DPO (Data Products Online) available and being populated
  - New, faster production environment available
    - Instrument subsystem being integrated now
    - Takes advantage of direct access to DPO
    - SCF access to DPO facilitates algorithm development/testing
  - Data Access Improvements
    - Subsetting initiatives starting with CERES
    - Information/documentation updates
    - Integration with DPO for faster data access
  - ASDC/Land PEATE interface testing (Sep 09); next Nov/Dec 09

# http://eosweb.larc.nasa.gov

CERES Data and Information

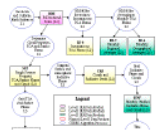
http://shire.larc.nasa.gov/PRODOCS/ceres/table\_ceres.html

Mail TAP PoqWx E-Time Ingest Remedy WebEvent PAL CMMI EMS @LaRC iPHS iPMS LATIS Archive Catalog Strikeouts Most Visited OAID Subs

## CERES Data and Information

The Clouds and the Earth's Radiant Energy System (CERES) is a key component of the Earth Observing System (EOS) program. The CERES instruments provide radiometric measurements of the Earth's atmosphere from three broadband channels. The CERES missions are a follow-on to the successful [Earth Radiation Budget Experiment \(ERBE\)](#) mission. The first CERES instrument (PFM) was launched on November 27, 1997 as part of the Tropical Rainfall Measuring Mission (TRMM). Two CERES instruments (FM1 and FM2) were launched into polar orbit on board the EOS flagship *Terra* on December 18, 1999, and two additional CERES instruments (FM3 and FM4) were launched on board EOS *Aqua* on May 4, 2002.

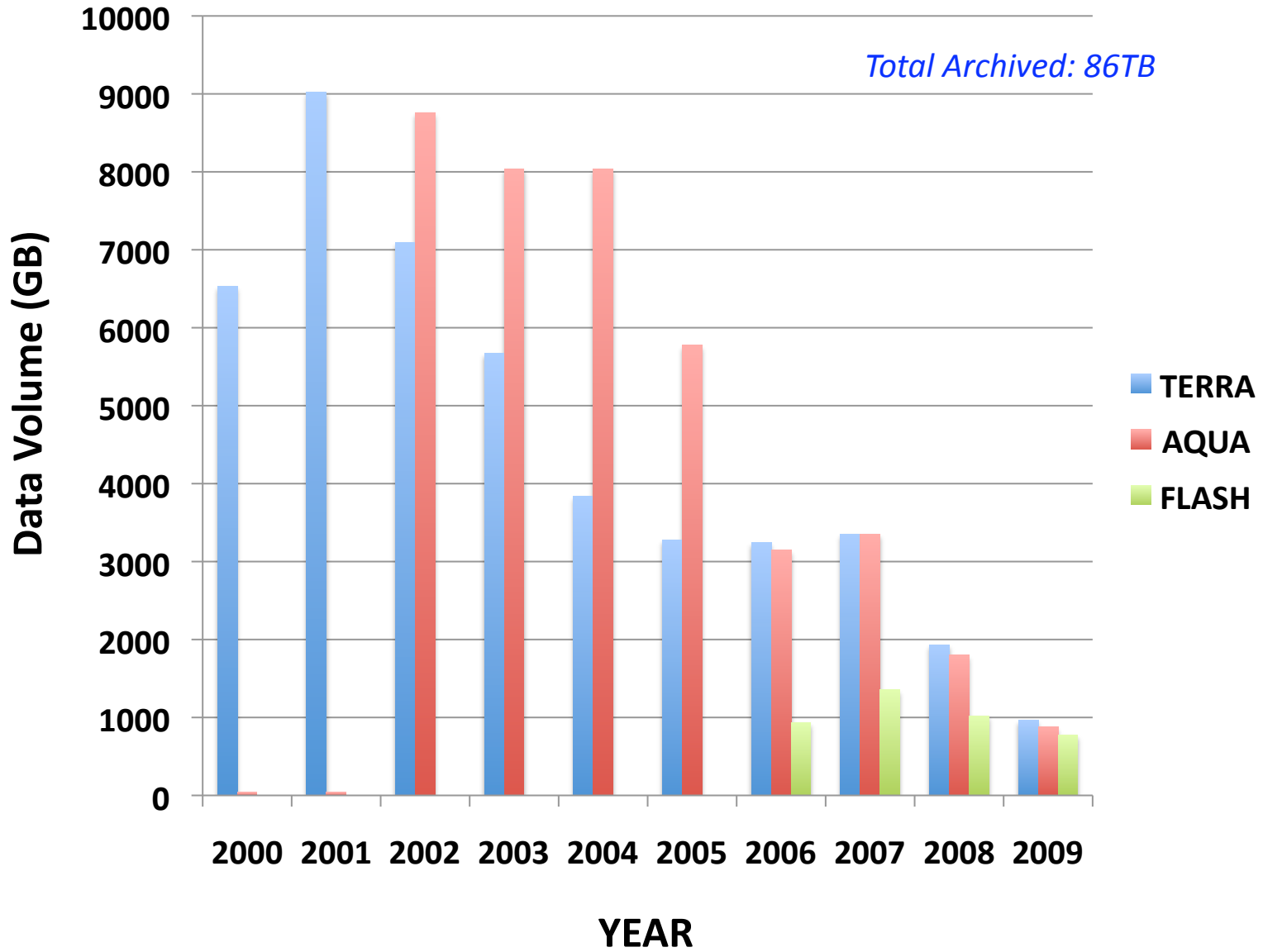
Ordering Data	Documentation	Tools and Images	Relevant Links
<ul style="list-style-type: none"> <li><a href="#">ASDC Web Ordering Tool</a></li> <li><a href="#">Subsetting Instructions</a></li> <li><a href="#">Processing and Data Flow Diagram</a> with temporal and spatial resolution information</li> </ul> 	<ul style="list-style-type: none"> <li><a href="#">Data Products Catalog</a></li> <li><a href="#">Collection Guides</a></li> <li>Data Quality Summaries from Data Set Tables:               <ul style="list-style-type: none"> <li><a href="#">CRS</a>   <a href="#">FSW</a>   <a href="#">SYN/AVG/ZAVG</a></li> <li><a href="#">SSF</a>   <a href="#">SFC</a>   <a href="#">SRBAVG</a>   <a href="#">ISCCP-D2like</a>   <a href="#">EBAF</a></li> <li><a href="#">ES-4</a>   <a href="#">ES-8</a>   <a href="#">ES-9</a></li> <li><a href="#">BDS</a></li> </ul> </li> <li><a href="#">CERES-MISR-MODIS (SSF-SSFMI)</a></li> <li><a href="#">CERES-NEWS</a></li> <li><a href="#">Instrument Operations</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Data Visualization Software (view hdf)</a></li> <li><a href="#">Information on HDF</a></li> <li><a href="#">MATLAB Bug Fixes</a> <ul style="list-style-type: none"> <li>AVG/ZAVG: 0-length Vdata</li> <li>R2007b fix</li> </ul> </li> <li><a href="#">CERES Imagery</a></li> <li><a href="#">Examples of Spatial Extent and Scan Modes</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Join CERES News List</a></li> <li><a href="#">CERES Main Home Page   Aqua   Terra   TRMM</a></li> <li><a href="#">CERES ARM Validation Experiment (CAVE)</a></li> <li><a href="#">CERES/ARM Radiation Experiment (CARE)</a></li> <li><a href="#">CERES Surface and Atmospheric Radiation Budget (SARB) Properties</a></li> <li><a href="#">Chesapeake Lighthouse and Aircraft Measurements for Satellites (CLAMS)</a></li> <li><a href="#">CLAMS Data</a></li> <li><a href="#">Fast Longwave And Shortwave Radiative Fluxes (FLASHFlux)</a></li> </ul>

**Data Products: Includes Data Quality Summary, Description/Abstract, and Sample Software**

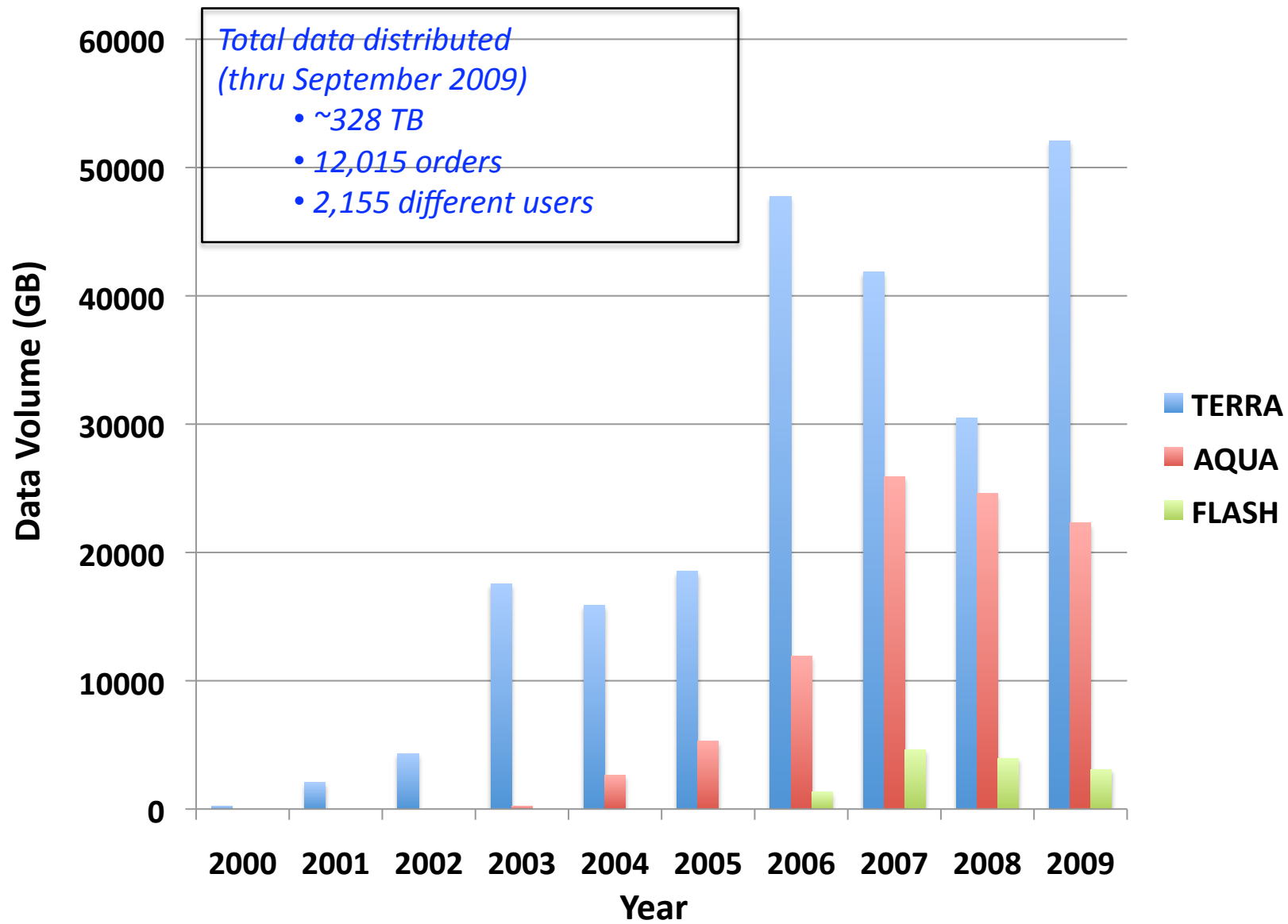
Data Products	Data Sets	Processing Level <a href="#">(details)</a>
<a href="#">Clouds and Computed Flux Profile Data Sets</a> Focus on Top-of-Atmosphere (TOA), within-atmosphere and surface fluxes from radiative transfer model calculations with inputs from several sources.	<a href="#">SYN/AVG/ZAVG:</a> <ul style="list-style-type: none"> <li>Synoptic Radiative Fluxes and Clouds (SYN)</li> <li>Monthly Regional Radiative Fluxes and Clouds (AVG)</li> <li>Monthly Zonal and Global Radiative Fluxes and Clouds (ZAVG)</li> </ul> <a href="#">AVG/ZAVG: 0-length Vdata</a> <a href="#">MATLAB Bug Fix</a>	Level 3

Done

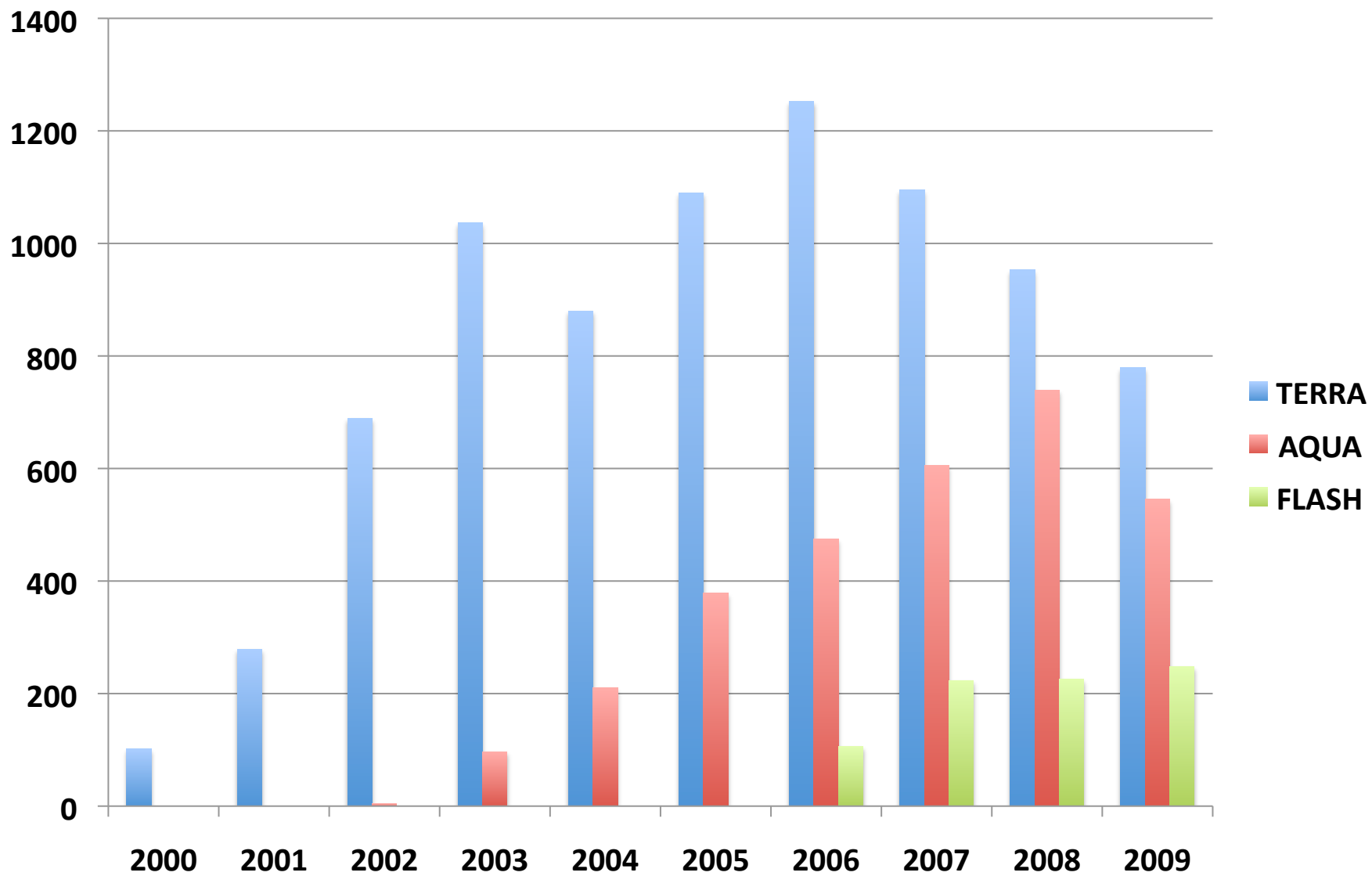
# CERES and FLASHFlux Archive Volume



# CERES and FLASHFlux Data Distribution from ASDC

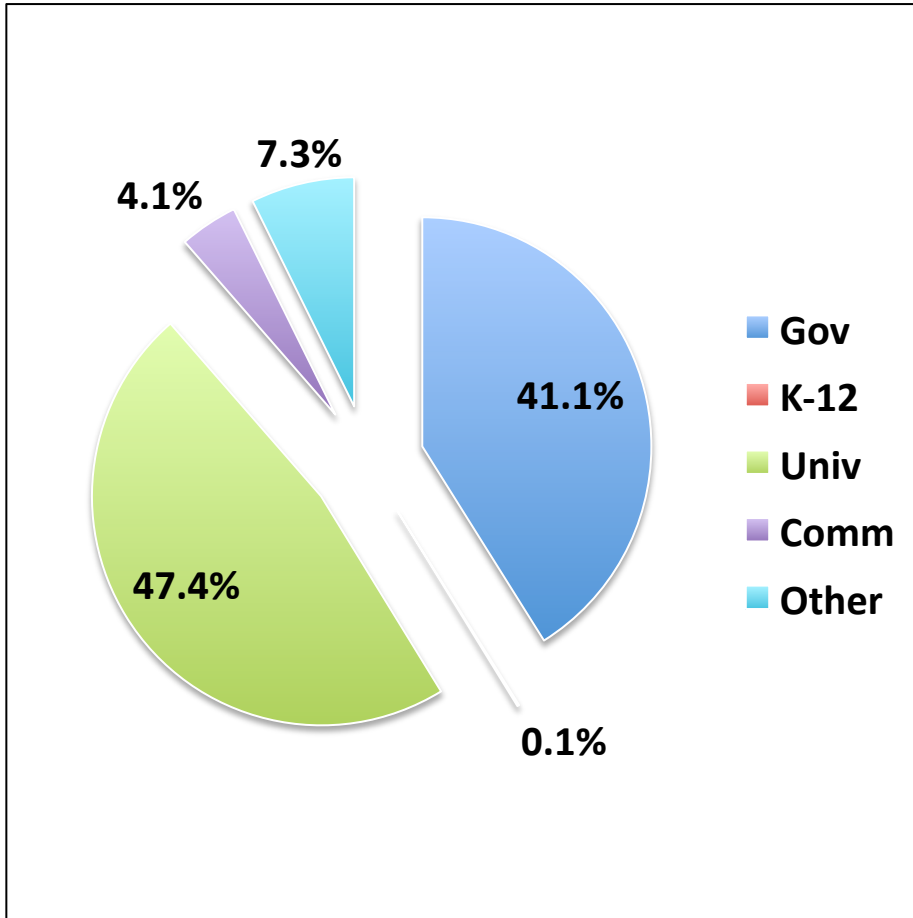


# CERES and FLASHFlux Orders by Year

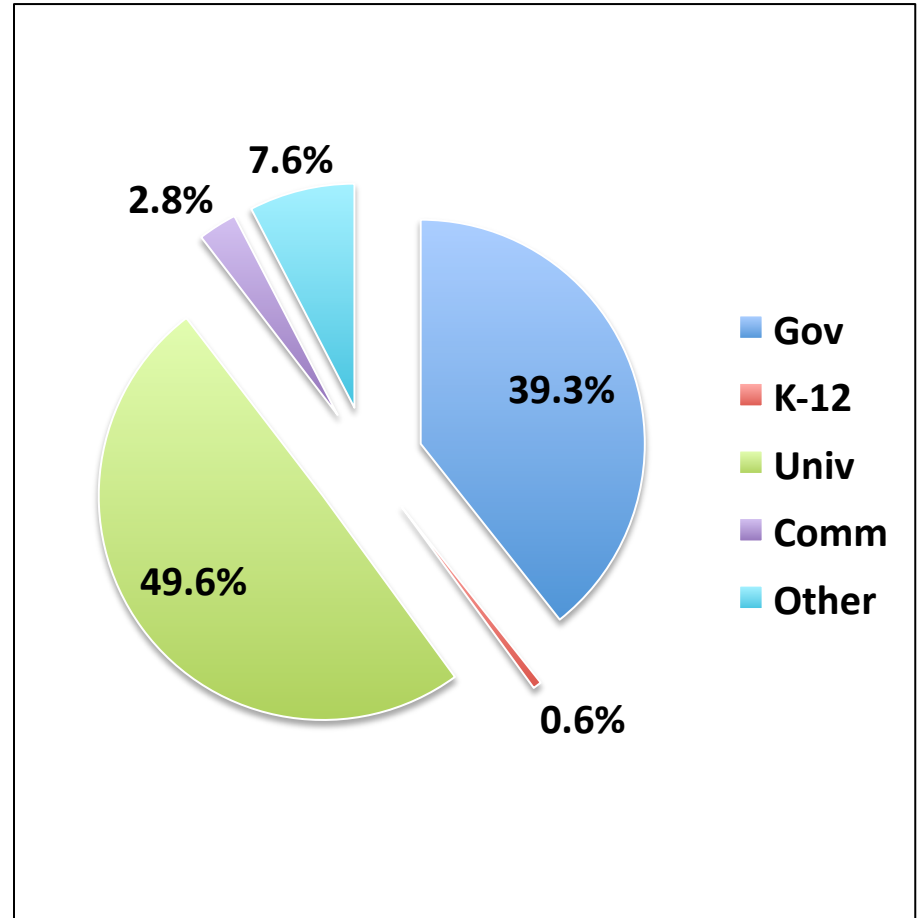


# CERES Customers by Affiliation

## TERRA

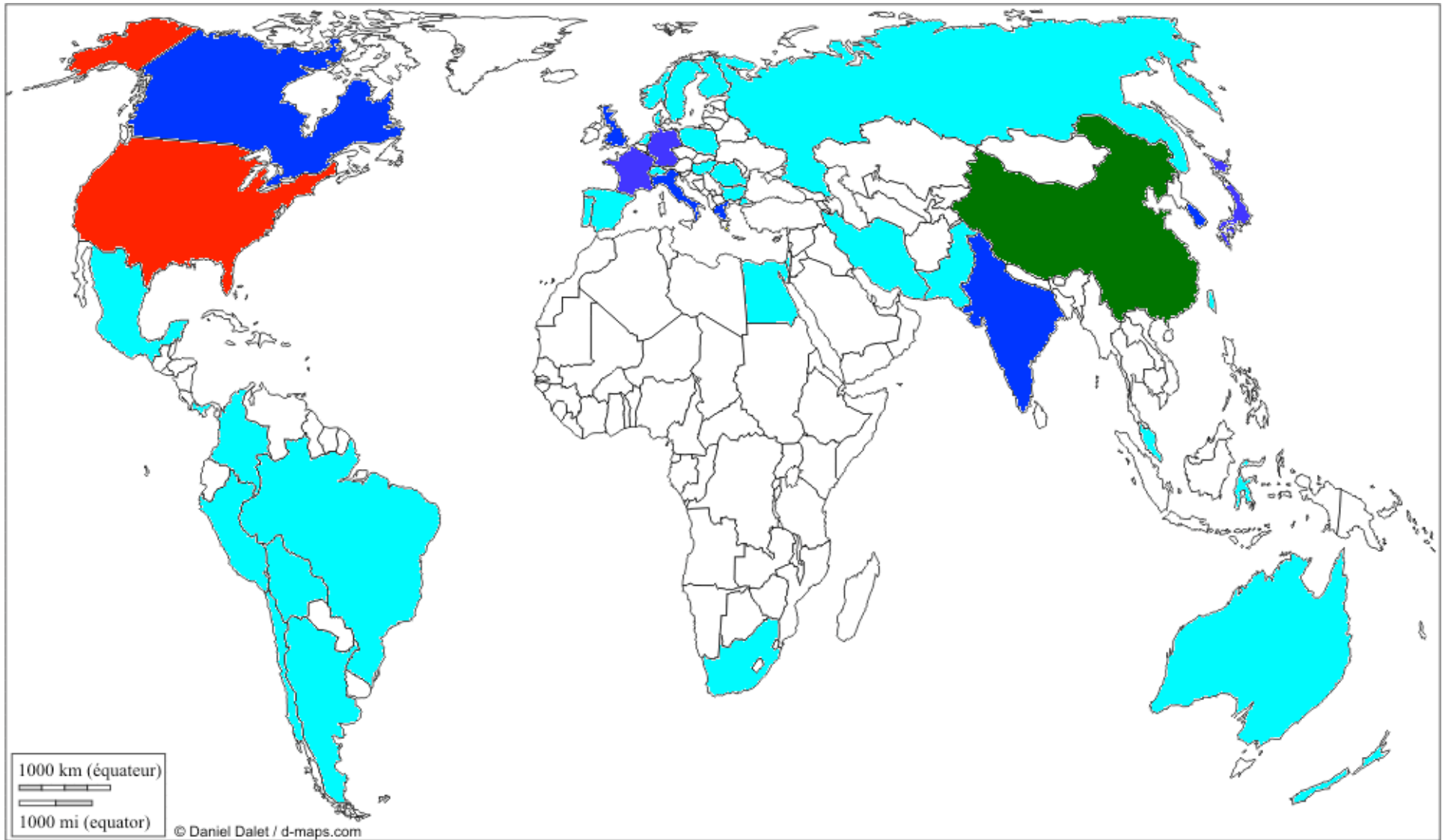


## AQUA





# ASDC CERES Data Users



## Number of Customers

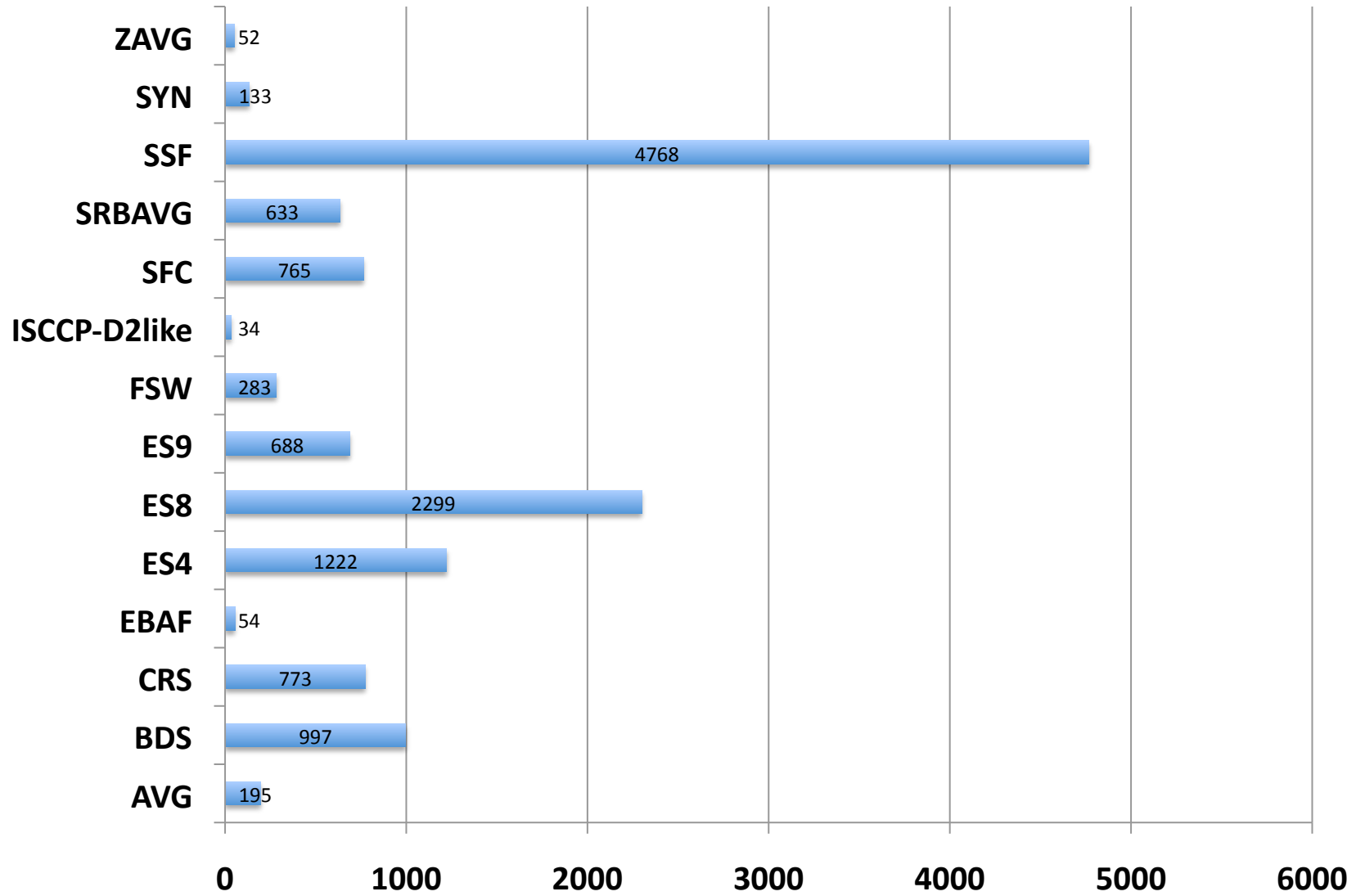
1 to 10

25 to 40

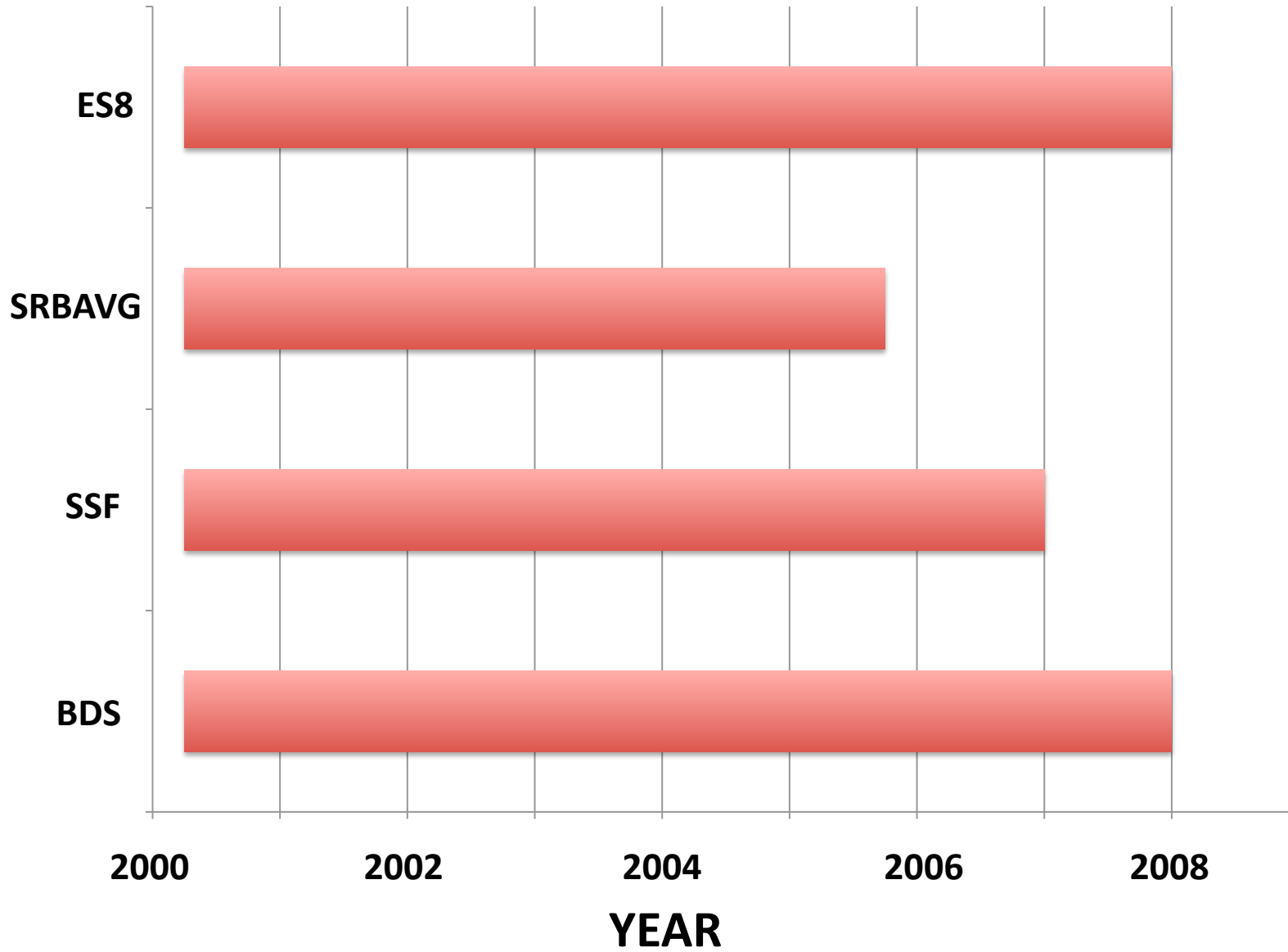
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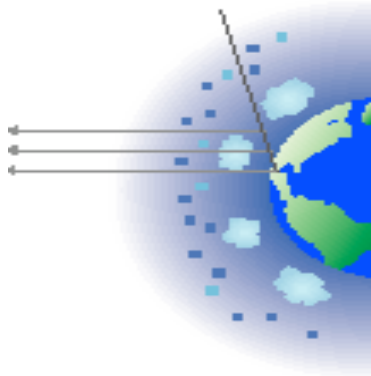
~635

# CERES Orders by Products



# CERES Product Timeline





## ATMOSPHERIC SCIENCE DATA CENTER



**User Services:** [larc@eos.nasa.gov](mailto:larc@eos.nasa.gov)

**Web site:**

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