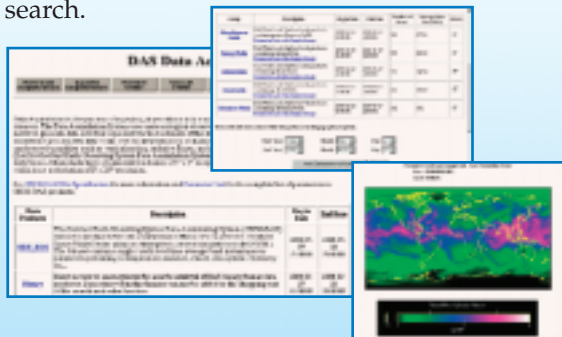## Data Access

The data will be available in HDF-EOS or binary format. Access is provided through either the GES DISC DAAC Search and Order System, the Earth Observing System Data Gateway or via ftp:
ftp://acdisx.gsfc.nasa.gov/data/atmos_dyn2/binary/

DAAC Search and Order

http://acdisx.gsfc.nasa.gov/data/

The GES DISC DAAC Search and Order enables users to request data efficiently through hierarchical architecture. This simple point-and-click navigational web interface shows temporal coverage, number of items, average item size, description and browse images for the GEOS-DAS data products available. One can search for data by following particular paths down the hierarchy. At certain levels of the hierarchy, you can also use spatial, temporal, orbital and parameter search features to customize your search.

EOS Data Gateway

http://eos.nasa.gov/imswelcome/

The EOS Data Gateway (EDG) is the interface to all data available in NASA's Earth Observation System Data Information System and related data centers. With EDG, a user can search for and acquire a large variety of earth, ocean, and atmospheric science data obtained from EOS instruments.

Data Support

The Atmospheric Dynamics Data Support Team at NASA Goddard Earth Sciences Data and Information Services Distributed Active Archive Center (GES DISC DAAC) provides science and data support to assist others in understanding, accessing and using the GEOS-DAS data products. Services include assistance with:
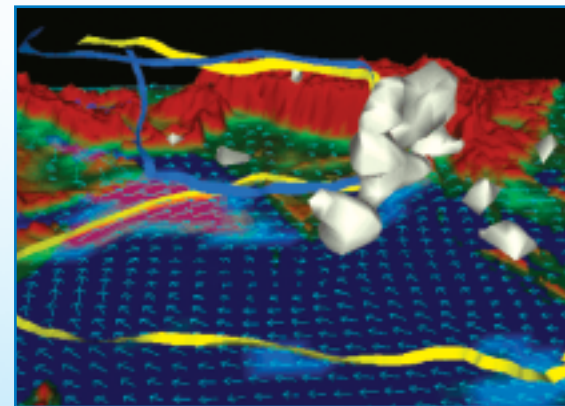
- data product ordering and distribution
- access of various technical documents
- on-line data visualization and analysis
- on-the-fly and on-demand spatial/variable subsetting
- data mining (integrate and run user-provided data reduction algorithms to routinely generate value-added products)
- data format and tool support
- help desk for various user questions and request
- educational resources

For questions or comments, please contact:
E-mail: atmdyn-dst@daac.gsfc.nasa.gov

Global Gridded Data from the Goddard Earth Observing System Data Assimilation System (GEOS-DAS)
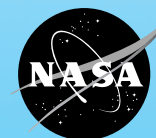

NASA Goddard Space Flight Center
GES DISC DAAC
Code 902
Greenbelt, Maryland 20771
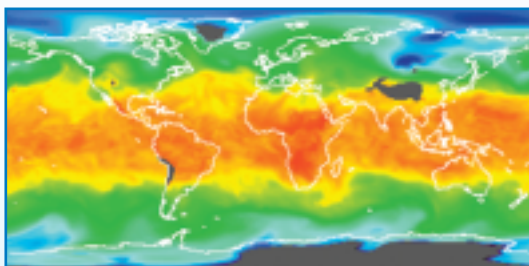Toll-Free: (877) 422-1222
FAX: (301) 614-5304
http://daac.gsfc.nasa.gov/atmodyn/

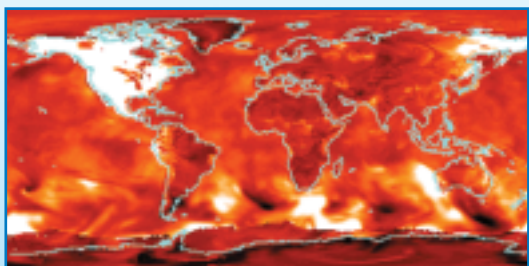National Aeronautics and Space Administration

Goddard Space Flight Center
Greenbelt, Maryland 20771

About GEOS-DAS

The Goddard Earth Observing System Data Assimilation System (GEOS-DAS) timeseries is a globally gridded atmospheric data set for use in climate research. This near real-time data set is produced by the Data Assimilation Office (DAO) at the NASA Goddard Space Flight Center in direct support of the operational EOS instrument product generation from the Terra (12/1999 launch), Aqua (01/2002 launch) and Aura (01/2003 launch) spacecrafts.

Temperature at 750mb on November 1, 2000 at 0Z

Upward Sensible Heat Flux on November 1, 2000 at 0Z

The data is archived in the EOS Core System (ECS) at the Goddard Earth Sciences Data and Information Services Center/Distributed Active Archive Center (GES DISC DAAC). The data is only a selection of the products available from the GEOS-DAS. The data is organized chronologically in timeseries format to facilitate the computation of statistics. GEOS-DAS data will be available for the time period January 1, 2000, through present.

Cover: 3-D perspective of flow patterns during the Indian Monsoon, as computed by GEOS-DAS.
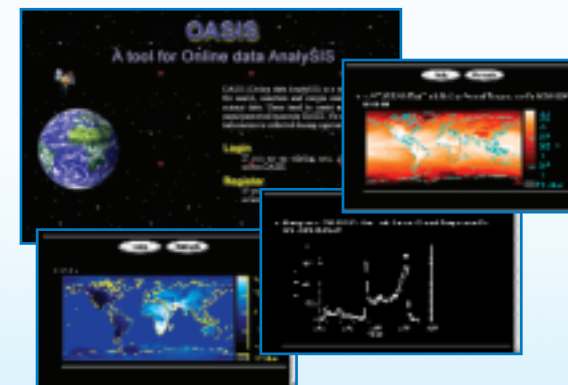
Data Products

The GEOS-DAS data set provides 74 physical quantities including wind, temperature, humidity, cloud, total ozone and other important surface parameters. The data has a horizontal resolution of 1 degree latitude by 1 degree longitude and 36 vertical pressure levels (except ozone which has a horizontal resolution of 2 degree latitude by 2.5 degree longitude and 42 vertical pressure levels). Time-averaged products are averaged over a 3-hour period for single-level files or a 6-hour period for pressure-level files. The data is in HDF-EOS format (for more information, please visit http://hdfeos.gsfc.nasa.gov).

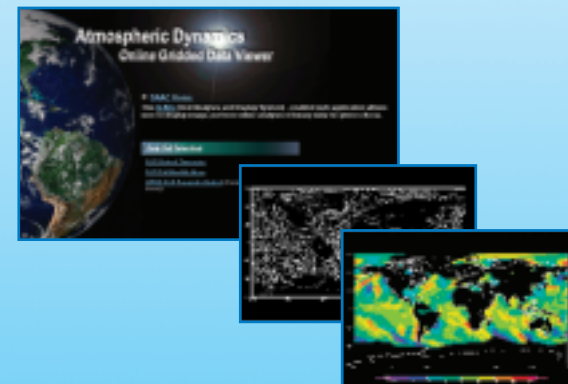| *Assimilated Synoptic Files*		
	Product	**Parameters**
Single Level	Miscellaneous	Surface Pressure, Surface Type and more
Pressure Level	Miscellaneous	Temperature, Wind, Humidity, Height profiles and more
Assimilated Time Averaged Files		
	Product	**Parameters**
Single Level	Energy	Total Precipitation, Albedo and more
	Land Surface Model	Convective Rainfall, Snow depth and more
	Stress	Wind Stress and more
	Cloud	Longwave Radiation and more
	Chemistry	Total Ozone
Pressure Level	Cloud	3-D Total Cloud Fraction
	Momentum	Wind Tendencies and Vertical Velocity
	Moist	Specific Humidity Tendencies
	Temperature	Temperature Tendencies
	Transport	Cloud Mass Flux
	Chemistry	Ozone Mixing Ratio

Online Analysis Tools

The GES DISC DAAC has developed online data viewers and analysis tools for users to analyze, manipulate and assure data quality prior to ordering selected data products.

Online AnalySIS (OASIS) provides an IDL-based HTML/CGI interface to search, select and analyze data online. It supports binary-formatted data such as TOVS, data assimilation products and some NCEP operational products.

The **Online Gridded Data Viewer** is a GrADs-enabled web application which plots time-series, spatial/temporal means, and snapshot including wind vector from binary formatted data.

Both tools may be accessed via:
http://daac.gsfc.nasa.gov/atmodyn/online_analysis