



GES DAAC Data Support for AIRS/AMSU/HSB Instrument Data Sets

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February 21-23, 2001**



GES DAAC Mission



The GES DAACs mission is to maximize the investment benefit of the Earth Science Enterprise by providing data and services that enable people to fully realize the scientific, educational, and application potential of global climate data.

In Short...

The GES DAACs mission is to:

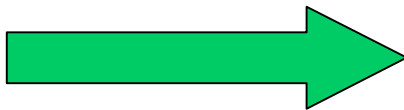
ENABLE EARTH SCIENCE



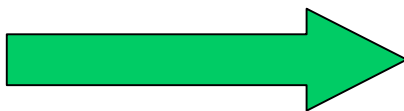
GES DAAC Data Flow



Data from science
processing facility
or science teams



Science Algorithms



Version 0 (V0)

- Developed and implemented in-house
- Services most GES DAAC data originating prior to 1998

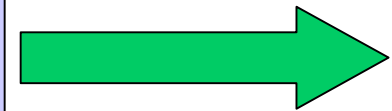
Version 1 (V1)

- Developed and implemented in-house
- Services TRMM data archive and distribution (Starting November, 1997)

Version 2 (V2) - EOSDIS (ECS)

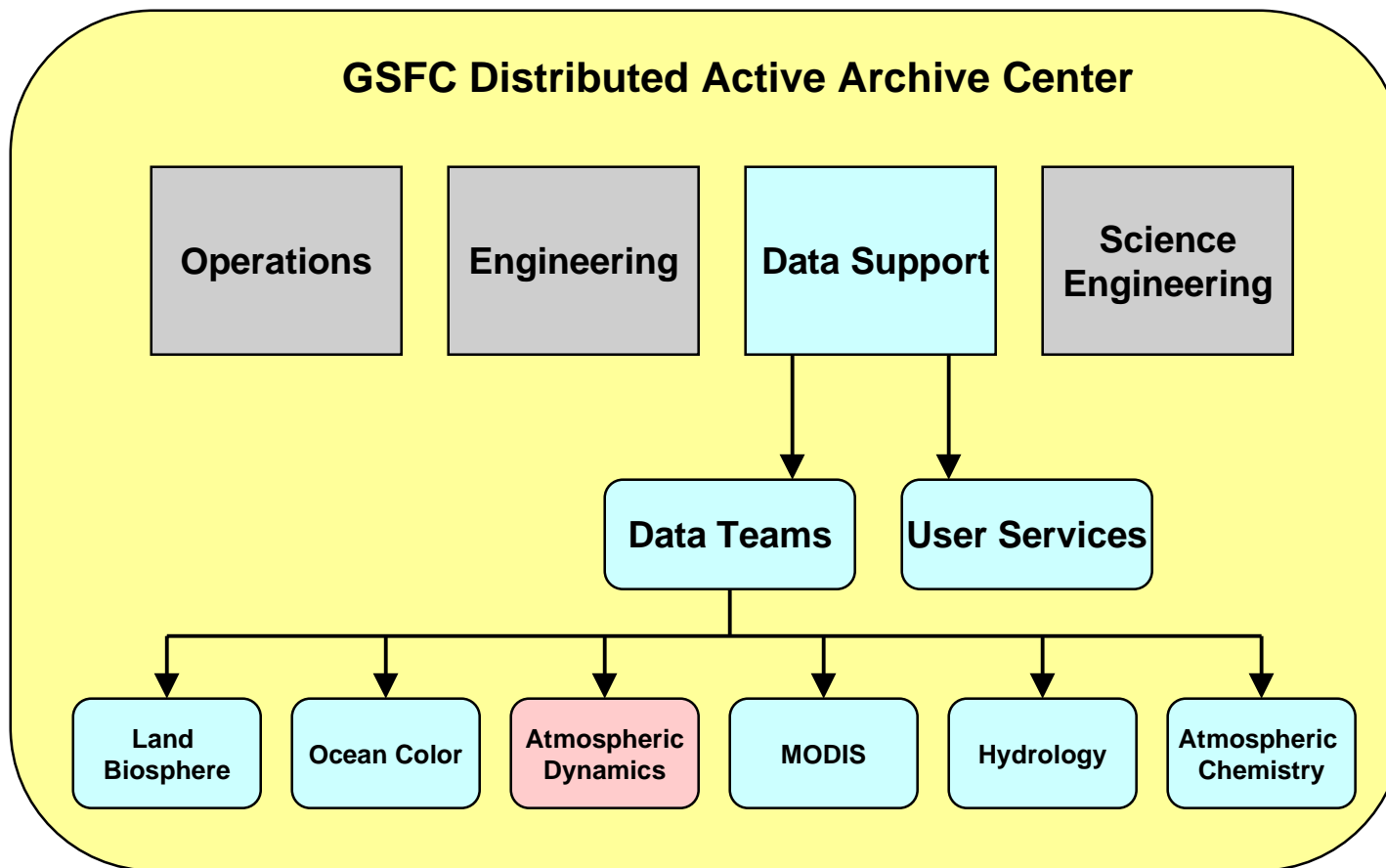
- Developed and implemented by ESDIS
- Services Terra MODIS data archive and distribution, lower level data production
- Will service Aqua and Aura data sets

Data and
Information
to science,
application, and
education users



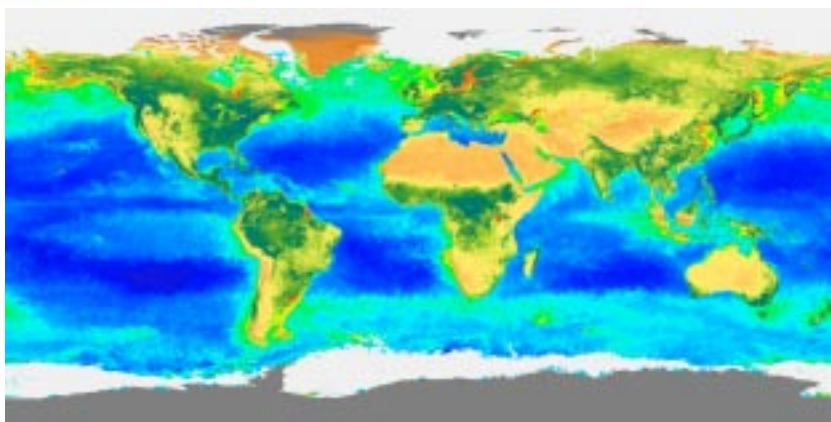


GES DAAC Support Elements

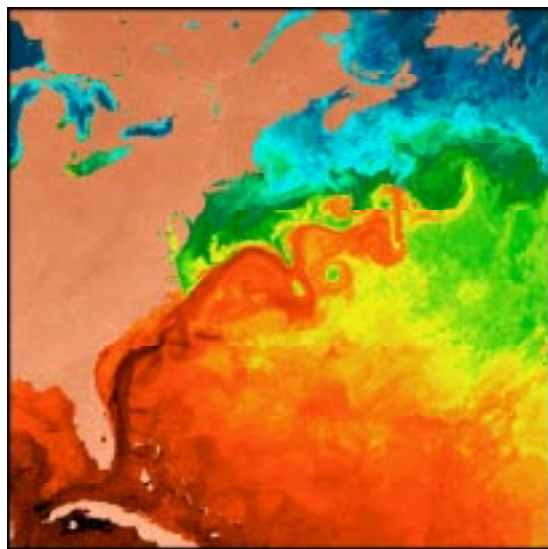




GES DAAC Science Disciplines



Monthly ocean chlorophyll and NDVI from SeaWiFS



Gulf Stream as seen by CZCS sensor

Global Biosphere

Ocean Color

- CZCS
- **SeaWiFS**
- **MODIS**

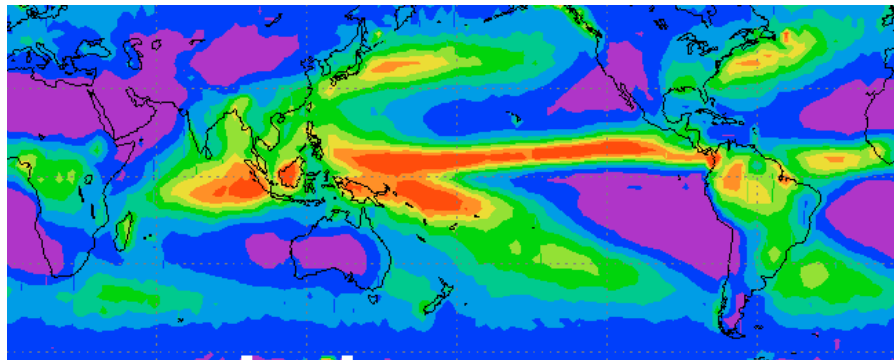
Land Biosphere

- AVHRR Pathfinder
- **Triana**

Green - future mission
Red - current mission
Black - closed data set



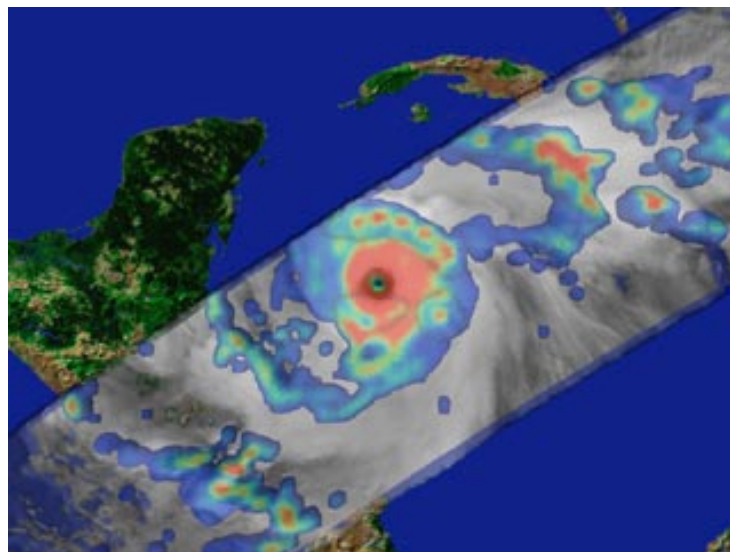
GES DAAC Science Disciplines



GPCP Annual Mean Precipitation 1988 -1998

Hydrology

Rainfall Climatologies
Combined Satellite/Gauge
Rainfall
TRMM
TRMM Field Experiments

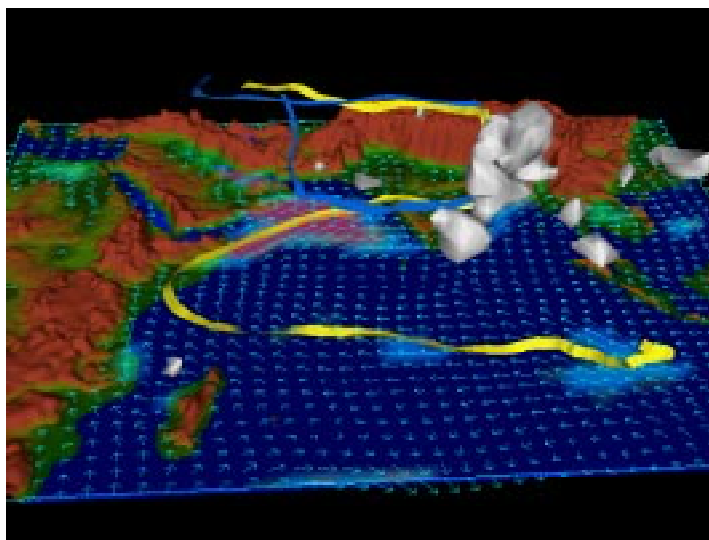


Hurricane Mitch as seen by TRMM

Green - future mission
Red - current mission
Black - closed data set



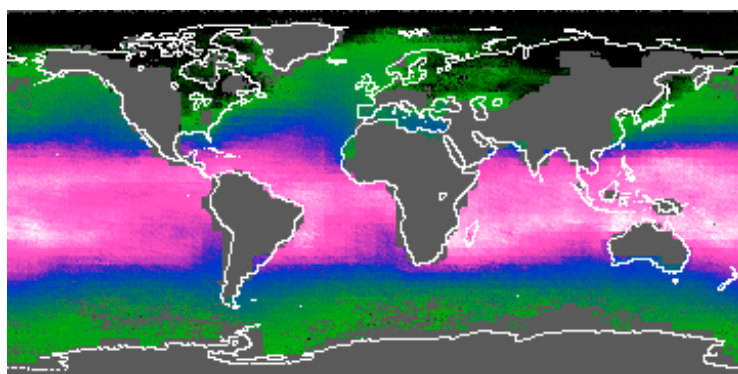
GES DAAC Science Disciplines



Air Parcel Trajectories computed using Data Assimilation

Atmospheric Dynamics

TOVS Pathfinder
Data Assimilation
MODIS
AIRS/AMSU/HSB

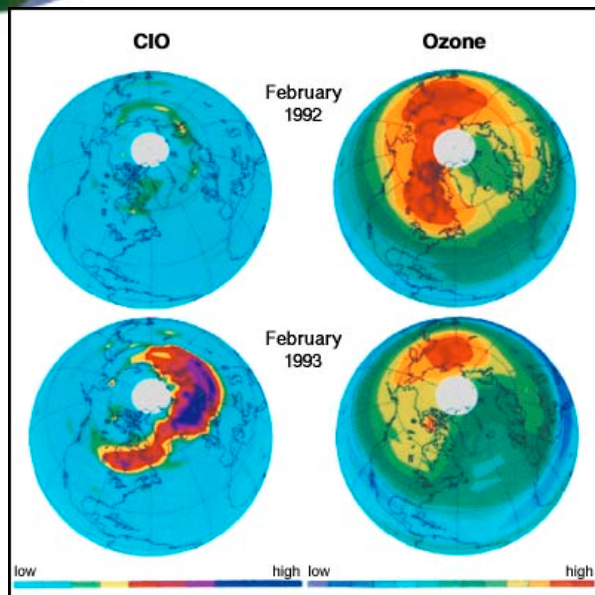


TOVS 1000 MB Monthly Mean Specific Humidity

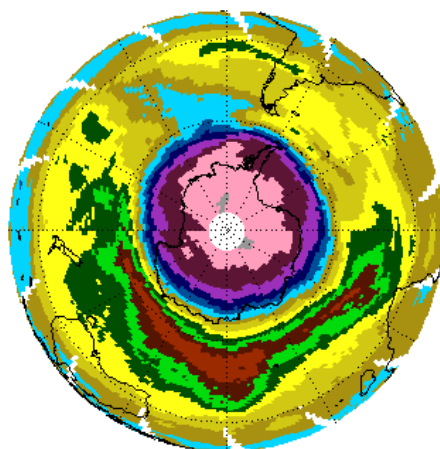
Green - future mission
Red - current mission
Black - closed data set



GES DAAC Science Disciplines



Relationship between stratospheric Chlorine Monoxide and Ozone



Antarctic Ozone Hole 9/25/99 as seen by TOMS
3/26/2001

Atmospheric Chemistry

- Heritage TOMS
- Heritage SBUV
- EP-TOMS
- QuikTOMS
- Triana
- UARS
- AURA-HIRDLS
- AURA-MLS
- AURA-OMI

Green - future mission
 Red - current mission
 Black - closed data set



DAAC Data Support Services



Basic services include:

- User support via dedicated Atmospheric Dynamics Data Support Team
 - Data Team Lead [Jianchun Qin](mailto:jcq@daac.gsfc.nasa.gov): [jqc@daac.gsfc.nasa.gov](mailto:jcq@daac.gsfc.nasa.gov)
 - Data Team email address: atmdyn-dst@daac.gsfc.nasa.gov
- Work with User Services group to answer user queries pertaining to access and use of data, set up user subscriptions, provide outreach services :
daac_usg@gsfcsrvr4.gsfcmo.ecs.nasa.gov
- Monitor ingest of AIRS/AMSU/HSB science data products to ensure integrity of metadata and proper database population of attributes
- Work with DAAC Operations group to diagnose and resolve data ingest and data distribution problems reported by users
- Provide full suite of documentation (detailed guide, summary guide, readme)



DAAC Data Support Services



Basic services include (cont):

- Work with scientists/ESDIS/ECS on Earth Science Data Type (ESDT) definition to facilitate access of data by the larger user community
- Support EDG User Interface (export valids for new/updated ESDTs)
- Develop local DAAC data search-and-order capabilities (includes temporal, spatial, and parameter searching, filtering by attribute, etc)
- Provide comprehensive Web information site including overview, images, documentation, data product descriptions, data access entry points, data manipulation tools, related links and references , and science topics (see, for example, http://daac.gsfc.nasa.gov/CAMPAIGN_DOCS/OCDST/science_focus.html)



DAAC Data Support Services



Advanced services include:

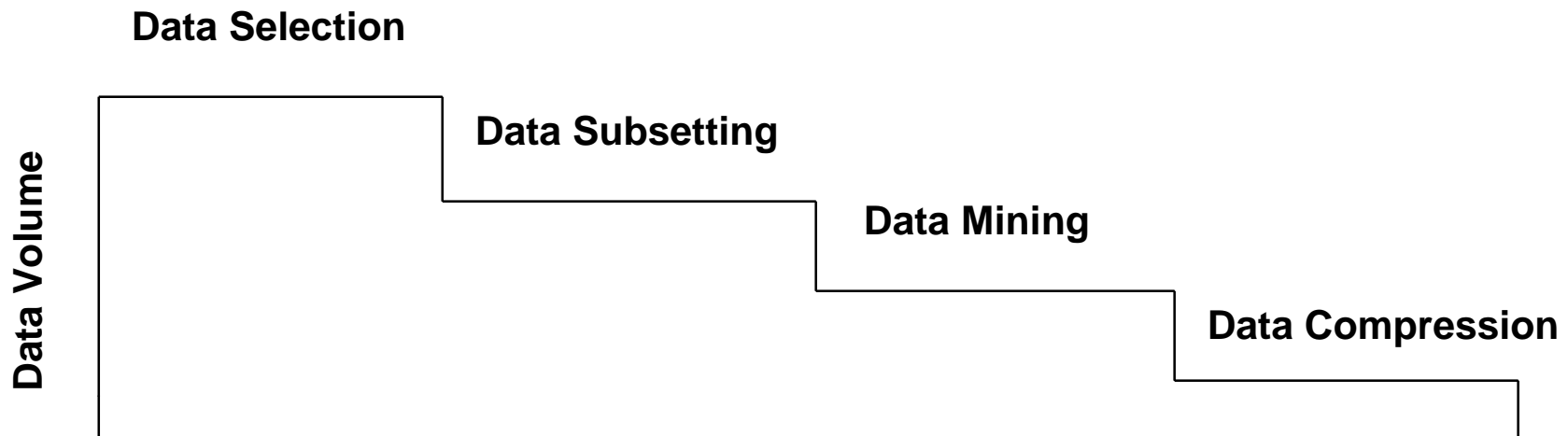
- Special product development (pre-cut subsets, GIS applications products)
- Special subsetting services including on-the-fly and on-demand subsetting by channel and by geographic region
- Provide NOAA/NCEP/NESDIS analysis and forecast products and satellite/in situ data via DAAC ancillary data server; provide tools for decoding data formats
- Provide online analysis and visualization tools for use with rolling archive of data products stored on anonymous FTP
- Support for field experiments
 - provide ancillary data on a 24x7 basis for mission planning
 - provide archive and distribution support for final campaign products



Data Reduction Techniques

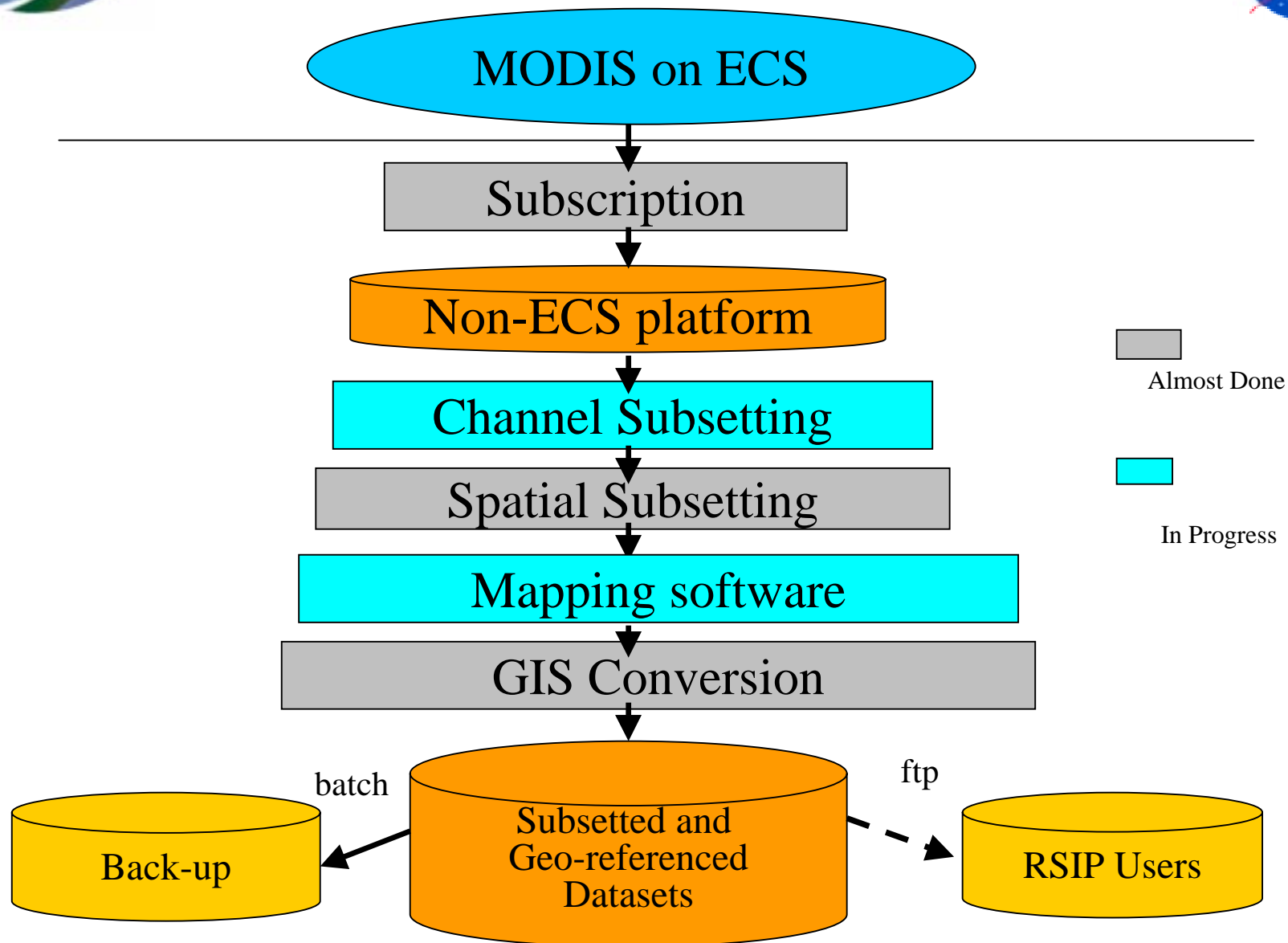


- data selection (e.g., content-based search, filtering, browse)
- data subsetting (e.g., by time, by space, by parameter)
- data mining (algorithm integration, online analysis - GrADS, IDL)
- data compression (lossy and lossless)



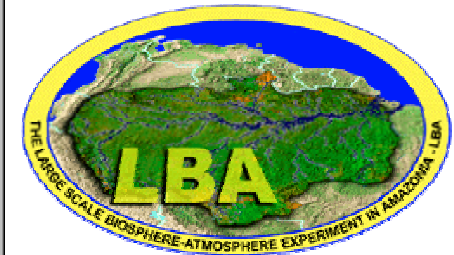
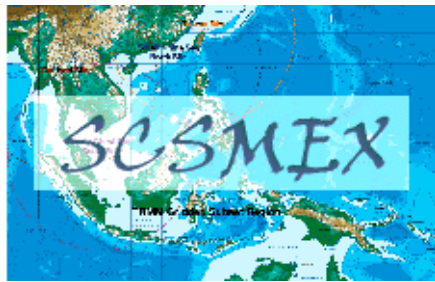


MODIS Subsetting Example





Field Experiment Support Example



TRMM Field Experiment Ancillary Data Sets - Netscape

File Edit View Go Communicator Help

TRMM Field Experiment Ancillary Data Sets
Online at the Goddard DAAC

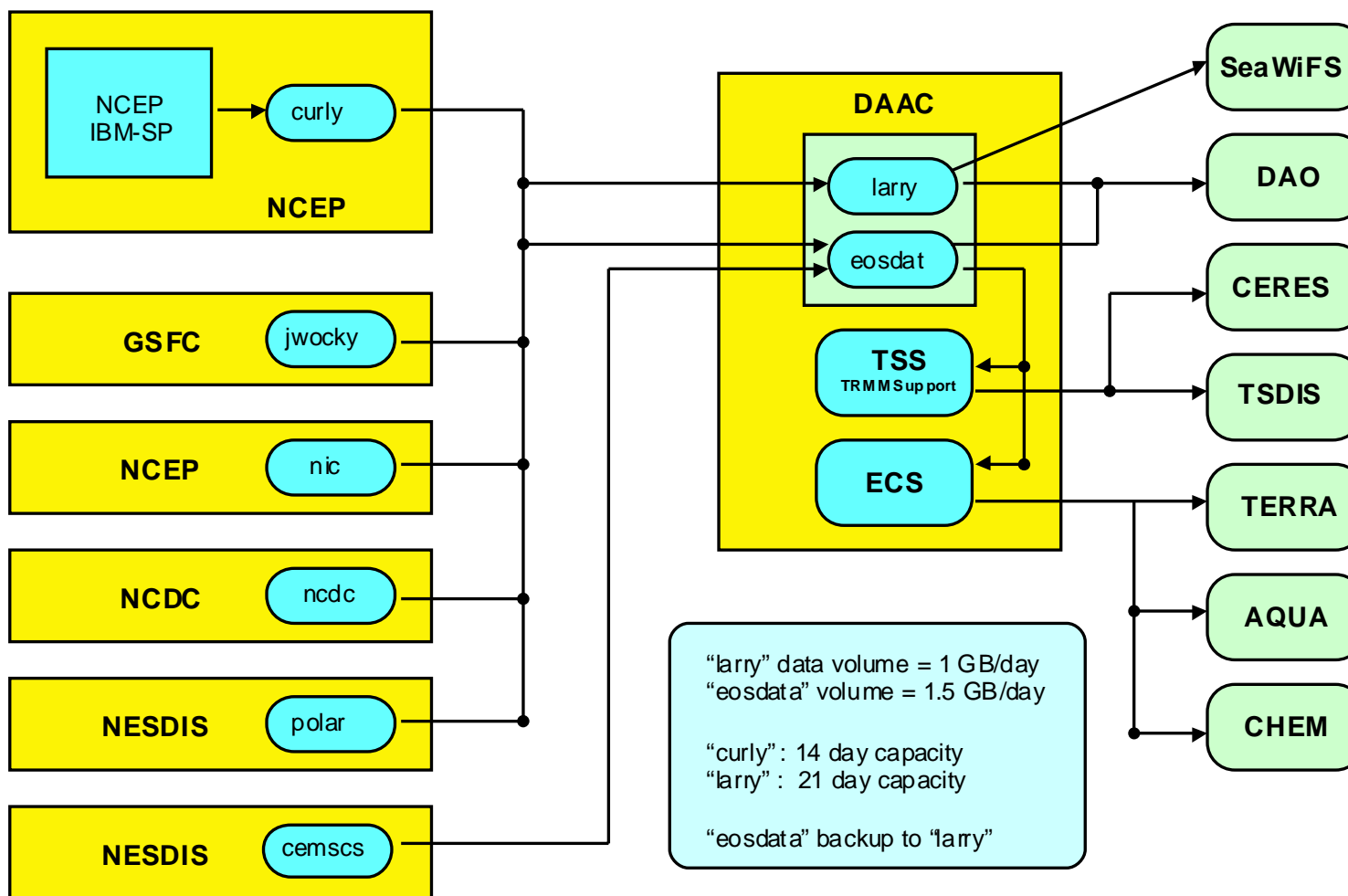
Satellite	Product	Campaigns				
		TEFLUN A	TEFLUN B	SCSMEX	TRMM/ LBA	KWAJEX
TRMM	Gridded Subsets	✓	✓	✓	✖	✖
	CSIs	✓	✓	✓	✓	✖
GOES-8 & 10	Full Set				✖	✖
	Regional Subset	✓	✓		✓	✖
GMS-5	5km			✓	✓	✓
Meteosat-7	5km 3-hourly full disk				✓	✖
SSMI	GPROF	✓	✓		✓	✖
	TB				✓	✖
TOVS	Gridded daily				✓	✖
AVHRR	8 km GAC				✖	
	NDVI+radiances					
	OLR	✓	✓			
	SST	✓	✓	✓		
Model						
NCEP	4 x daily	✓	✓		✖	✖
Miscellaneous Products						
NDBC Buoy	Hourly, Meteorological data	✓	✓			
GPCP Combined	Monthly, Gridded 2.5x2.5 deg	✓	✓			
GPCC Gauge	Monthly, gridded, 1 x 1 deg	✓	✓			
CAMS Gauge	Monthly, gridded, .5 x .5 deg	✓	✓			

Document: Done

[TRMM Campaigns](#)
[DAAC Home](#)



EOSDIS Ancillary Data Support



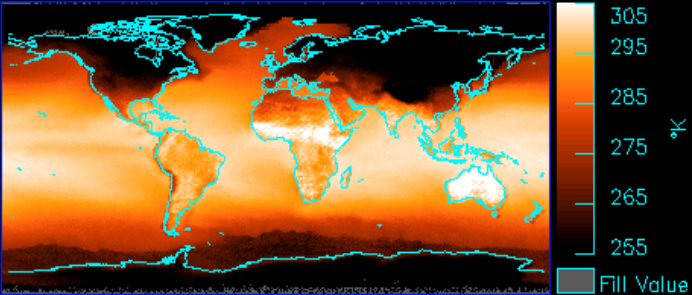
On-line Analysis Tools: OASIS

Data C
File E

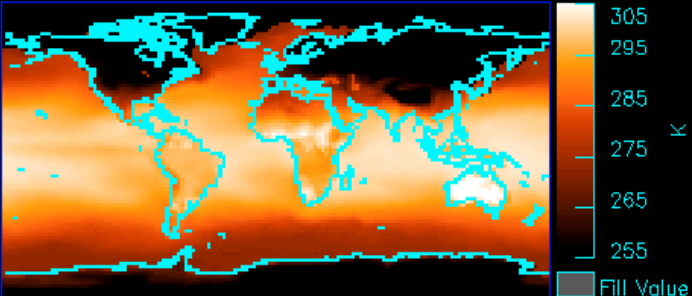
Data View

Data Refresh

- x: TOVS Path A NOAA-9 Monthly Surface Skin Temperature for 01/1985
With Javascript enabled browser, clicking the image below starts animation.



- y: DAO Assimilation TG for 01/1985 at Surface Level
With Javascript enabled browser, clicking the image below starts animation.

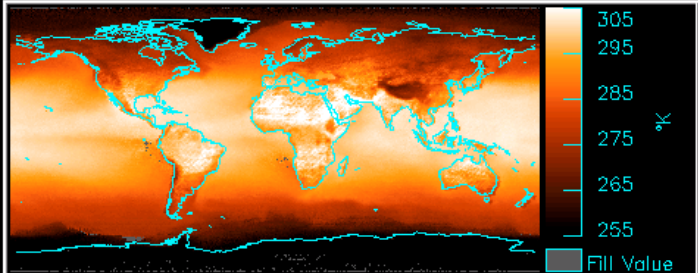


Left) Snap-shuts

Below) Time-serieses

Screen 0 - Microsoft Internet Explorer

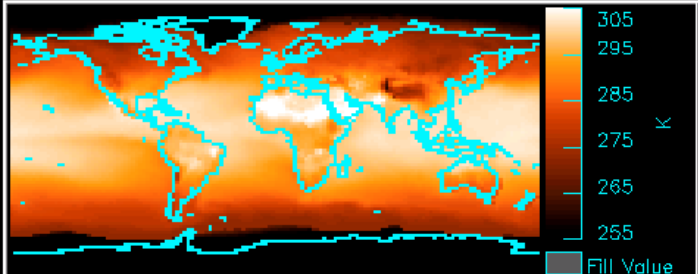
x: TOVS Path A NOAA-9 Monthly Surface Skin Temperature for 09/1985



15 frames/second

Screen 1 - Microsoft Internet Explorer

y: DAO Assimilation TG for 09/1985 at Surface Level



15 frames/second



On-line Analysis Tools: OASIS

--- Upper Air Reports From the PREPQC File

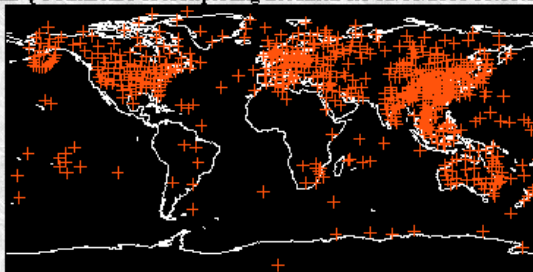


Internet Explorer browser window showing the OASIS web application interface.

Address bar: http://daacdev2.gsfc.nasa.gov/daac-bin/online_analysis/OASIS/registered/oasis_cgi_main.pl?option=front_page

Navigation buttons: **Data Search**, **Data Analysis**, **Exit**

Section: **PREPQC Final ADPUPA Reporting Locations for 02/06/2001 00:00:00 Z**



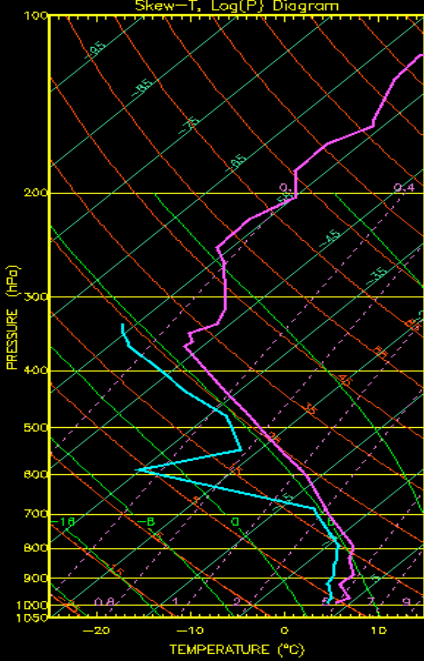
Select from the following stations.

Station ID	Time	Select
14240	0100	<input type="radio"/>
14240	0100	<input type="radio"/>

Buttons: **Back**, **Display**

Section: **Data View**

Buttons: **Data**, **Refresh**



Skew-T, Log(P) Diagram

Y-axis: PRESSURE (hPa) (100 to 1090)

X-axis: TEMPERATURE (°C) (-20 to 10)



AIRS Data Support Web Site at GES DAAC



Overview
Documentation
Data Products
Data Access
Data Links
Related Links
Browse Images
Data Maintenance

AIRS Data Support At DAAC

[\[Overview\]](#) [\[Documentation\]](#) [\[Data Products\]](#) [\[Data Access\]](#) [\[Related Links\]](#) [\[Tools\]](#) [\[Browse Images\]](#)

The **Aqua satellite** will carry six scientific instruments in a circular, 705 km altitude, Sun-synchronous, near polar orbit with an ascending node (S and N) 1:30 p.m. local time equator crossing. The satellite period is 96.0 minutes. Atmospheric Infrared Sounder (**AIRS**) is one of the six instruments, which is combined with Advanced Microwave Sounding Unit (AMSU) and Humidity Sounder for Brazil (HSB) to measure atmospheric and surface conditions.

AIRS, AMSU, and HSB constitute an innovative atmospheric sounding group of visible, infrared, and microwave sensors that provide measurements for temperature at an accuracy of 1 °C in layers 1 km thick and humidity at an accuracy of 20 % in layers 2 km in the troposphere.

The **Atmospheric Dynamics Data Support Team** will handle customer assistance in understanding, ordering, and using the AIRS data products, including:

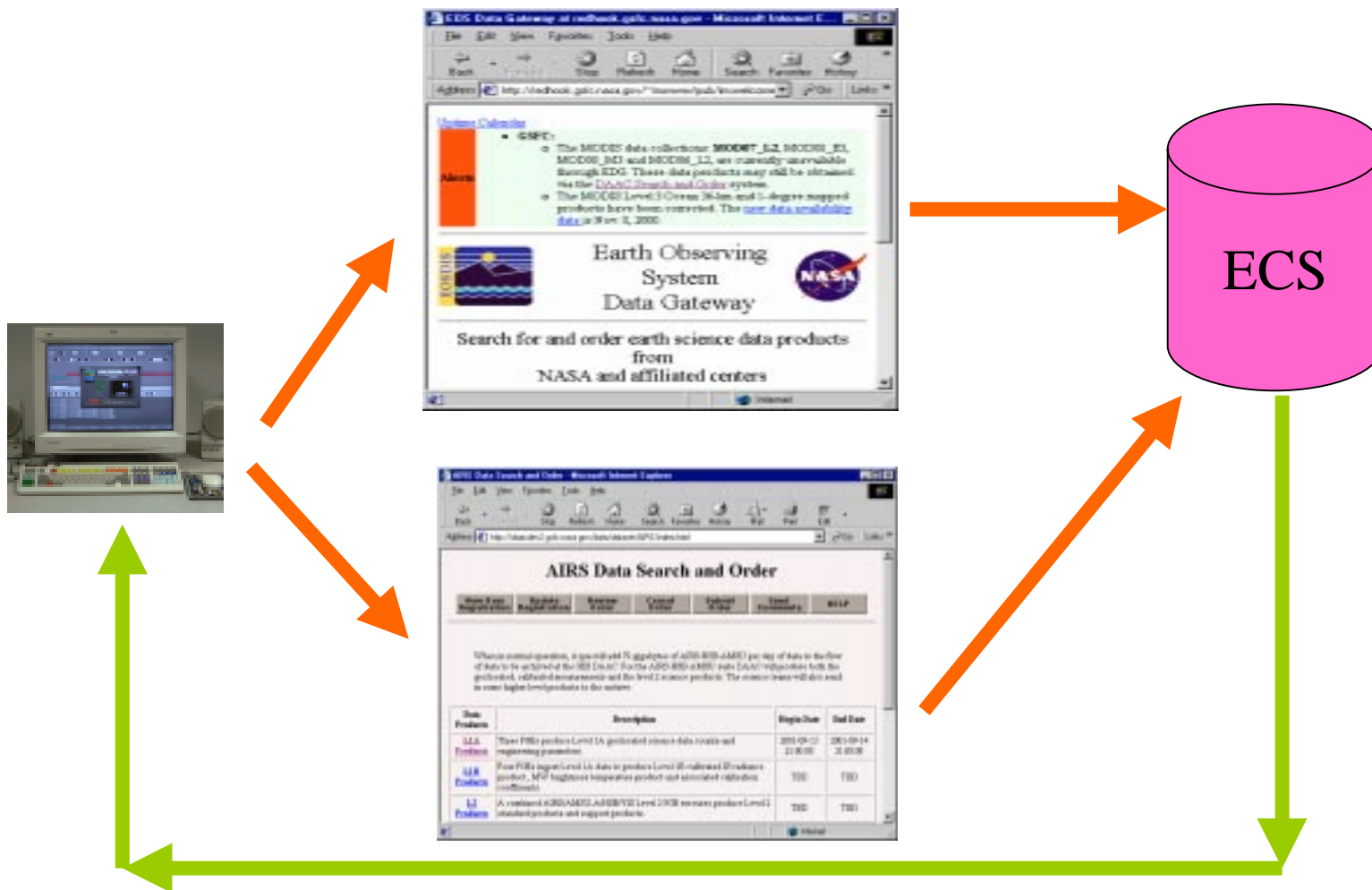
- DATA PRODUCT ACCESS ASSISTANCE
- ASSISTANCE WITH VISUALIZATION OF AIRS PRODUCTS
- DATA PRODUCTS DOCUMENTATION
- ASSISTANCE WITH SCIENTIFIC CONTENT OF AIRS PRODUCTS
- ASSISTANCE WITH METADATA
- USER ASSISTANCE (i.e., answer questions from users)

Launch on July 12, 2001, [Click to Check AIRS News](#)

NASA GSFC Goddard Space Flight Center FTP data Atmospheric Dynamics



AIRS Data Access

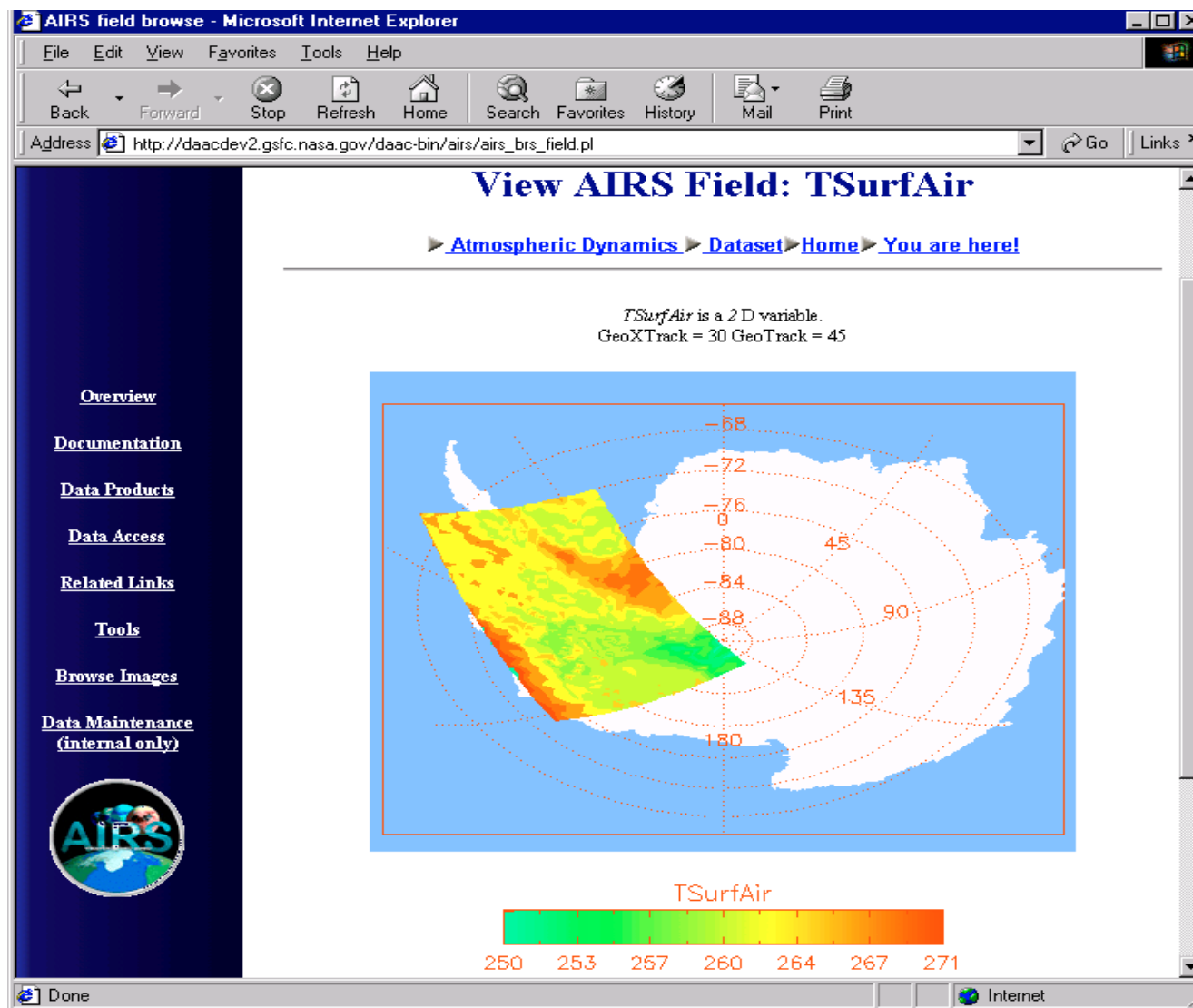




AIRS Data Visualization



--- AIRS browse data fields: Level2 Surface Air Temperature in Kelvins



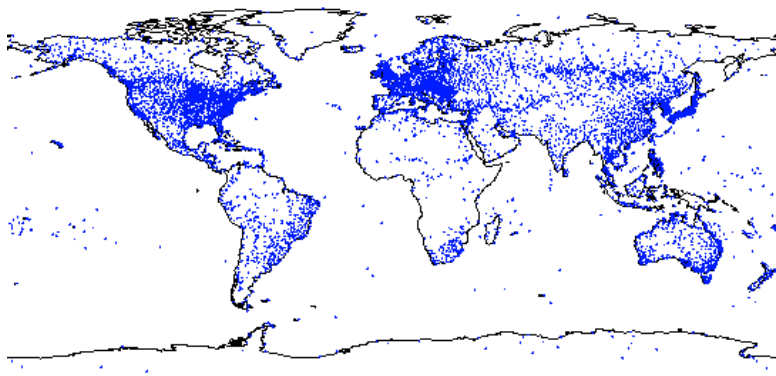


BUFR Data Support

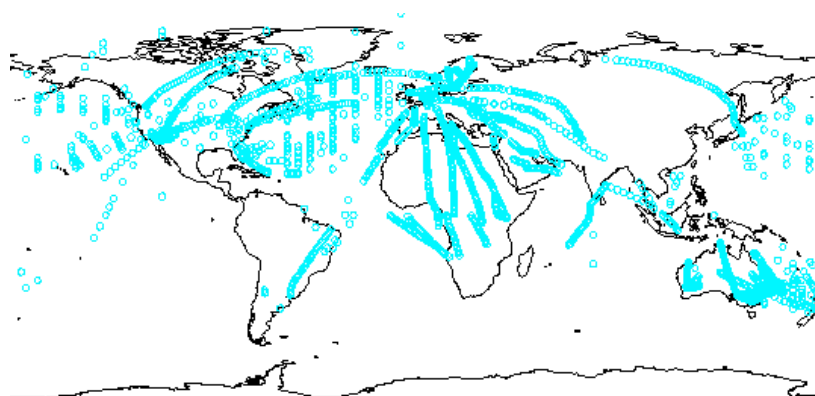


--- Examples of Data Location Graph

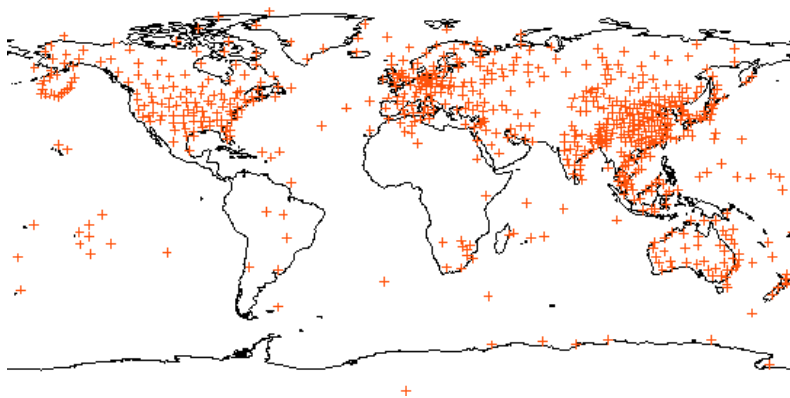
PREPQC FNL Surface Report Data Coverage 02/06/01 at 00Z



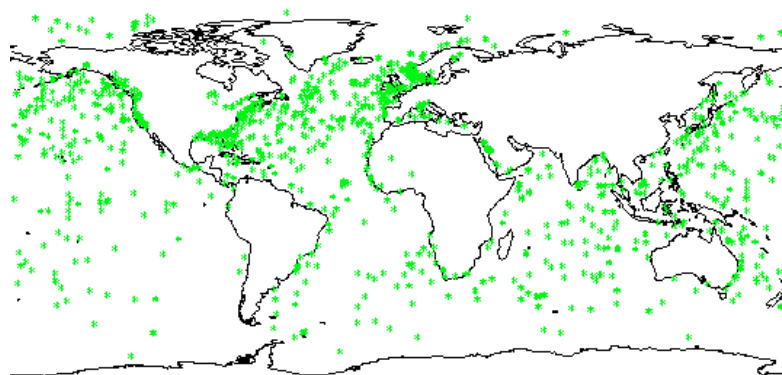
PREPQC FNL Aircraft Report Data Coverage 02/06/01 at 00Z



PREPQC FNL Upper Air Report Data Coverage 02/06/01 at 00Z



PREPQC FNL Ship Report Data Coverage 02/06/01 at 00Z





AIRS Data Subsetter



--- Extract metadata and fields from an AIRS file

Synopsis:

Usage: airmeta -i input_file -o outfile -v option

Option:

-i HDF swath input file name(mandatory)

-o output file name, default is the standard output device

-v view field, global and swath attributes, dimension information

your options:

field, global, swath, dim, or all (default option is all)

EXAMPLES: airmeta -i test.hdf -o test.out -v all

```
daacdev2$ airmeta -i test.hdf -v field
```

```
Input File: test.hdf
```

```
Swath Name: L2_Standard_atmospheric&surface_product
```

```
-----FIELD INFORMATION-----
```

```
field name(No.): Dimension name=dimension
```

```
-----
```

```
TSurfStd(36): GeoTrack=3 GeoXTrack=30
```

```
TSurfAir(37): GeoTrack=3 GeoXTrack=30
```

```
TAirStd(38): GeoTrack=3 GeoXTrack=30 StdPressureLev
```

```
.
```

```
.
```

```
.
```

```
Look at a field(y/n)?
```

```
y
```

```
Enter a variable number:
```

```
37
```

```
TSurfAir 5
```

```
295.099518; 296.741302; 296.601288; 298.912445; 298.099884;
```

```
299.682343; 301.930939; 302.054443; 2
```

```
94.642029; 300.308258; 296.617950; 300.388275; 300.757935;
```

```
295.108826; 300.068665; 288.623230; 29
```

```
0.594910; 297.742859; 297.783966; 299.649384; 298.996735;
```

```
295.220093; 298.105316; 297.207092; 297
```

```
.453979; 295.406067; 297.471710; 297.787842; 295.201691;
```

```
290.589172; 302.036957; 297.046539; 300.
```

```
708069; 302.788757; 297.340759; 297.962158; 297.026428;
```

```
298.574890; 298.690399; 289.927094; 297.8
```

```
95630; 296.480530; 298.857056; 299.750244; 298.203674; 303.456482;
```

```
293.109467; 297.786804; 298.87
```

```
9303; 299.160736; 301.716614; 298.149719; 300.395660; 299.267639;
```

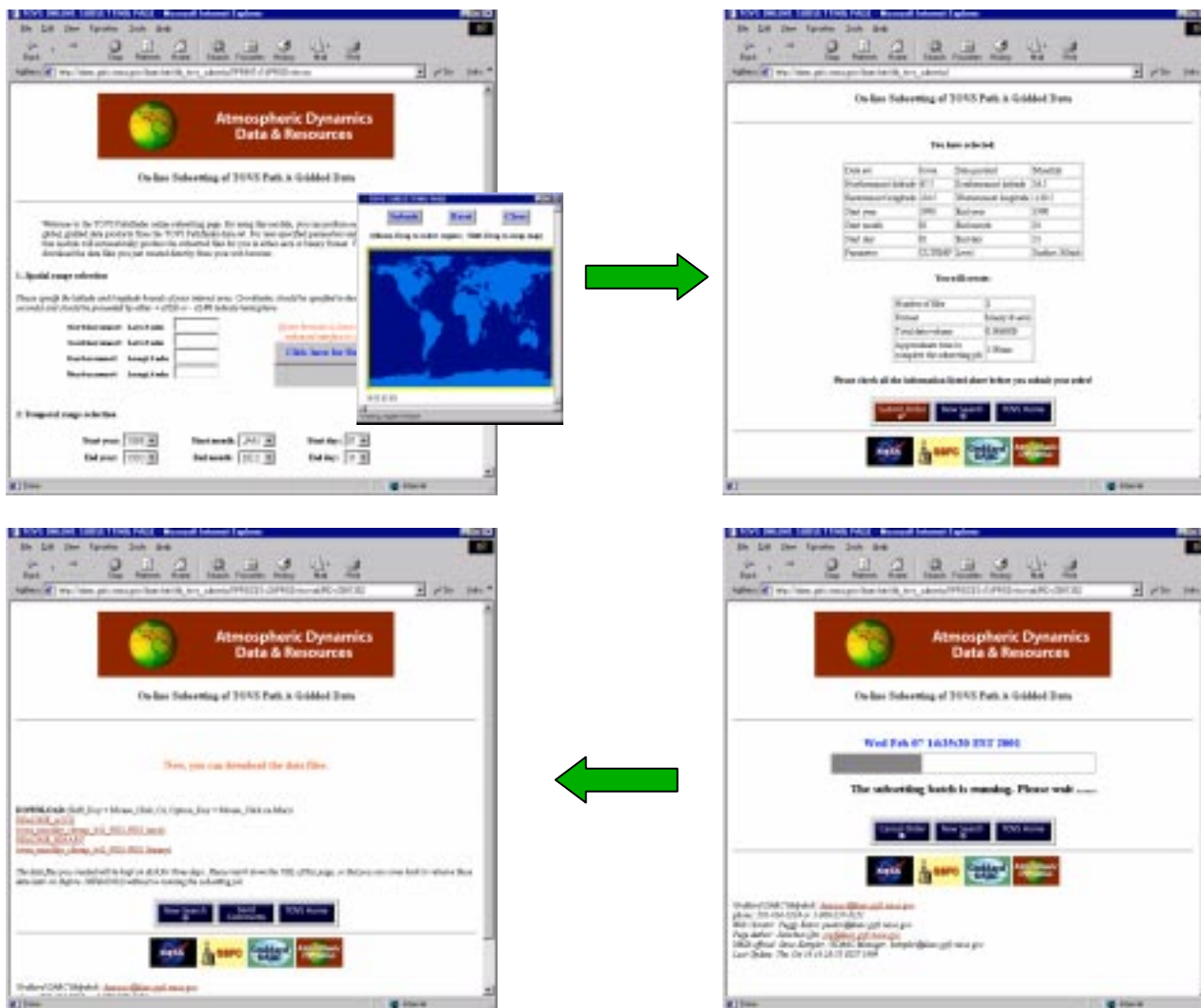
```
298.915924; 299.536133; 299.905
```

```
296.176727;
```

```
Continue (c) or quit (q)?
```



On-the-fly Subsetting





On-the-fly Subsetting



Atmospheric Dynamics Data & Resources

Online Subsetting of TOVS Path A Orbited Data

Welcome to the TOVS Path A online subsetting page. By using this module, you can perform regional subsetting of the global, gridded data products from the TOVS Path A data set. For non-spatial parameters and spatial and temporal ranges, this module will automatically produce the sub-set files for you in either ASCII or binary format. You will then be able to download the data files you just created directly from your web browser.

1. Spatial range selection

Please specify the latitude and longitude bounds of your interest area. Coordinates should be specified in decimal form (not degree, minute, seconds) and should be presented by either + (N/E) or - (S/W) notation depending on the direction of the coordinate.

Please increase a data spatial, click the button for a data sub-set interface to select the spatial range of interest.

[Click here for Weather Road-Map Interface](#)

North latitude	Latitude	34.2
South latitude	Latitude	32.4
West longitude	Longitude	100.0
East longitude	Longitude	108.0

2. Temporal range selection

Start year: 2001 Start month: JAN Start day: 01
 End year: 2001 End month: JAN End day: 31

3. Parameter selection

Monthly Mean 5 Day Mean

<input checked="" type="checkbox"/> Lower layer temperature (L3700)	Level: 500-1000h
<input type="checkbox"/> Temperature water (T8000)	Level: Above surface
<input type="checkbox"/> Surface skin temperature (S3700)	Level: Surface
<input type="checkbox"/> Total water cloud fraction (TCLD)	Level: 100
<input type="checkbox"/> Mean layer cloud fraction (MCLD)	Level: 1000h
<input type="checkbox"/> Cloud top pressure (CTOP)	Level: 100
<input type="checkbox"/> Cloud top temperature (CTOP)	Level: 100
<input type="checkbox"/> Ozone layer mass radiance (OLR)	Level: Top-of-atmo
<input type="checkbox"/> Longwave cloud radiative forcing (LCRF)	Level: Top-of-atmo
<input type="checkbox"/> Precipitation estimate (PCLD)	Level: Surface
<input type="checkbox"/> Surface pressure (SPRES)	Level: Surface

4. Output file format selection

Binary (After loading your dataset, user request, data values cannot be displayed directly through your browser.)
 ASCII (For convenience of the user.)

3/26/2001

Atmospheric Dynamics Data & Resources

Online Subsetting of TOVS Path A Orbited Data

Now, you can download the data files.

DOWNLOAD (Ctrl+Key+Mouse_Click, Or, Option+Key+Mouse_Click on Mac):
[ASCII \(*.ASCII\)](#)
[Binary \(*.BINARY\)](#)

The data files you created will be kept on disk for three days. Please make a note for the URL of the data, so that you can come back to retrieve these data later on the Web (ORBITAL) without re-submitting the subsetting job.

[Home Search](#)
[Send Comments](#)
[TOVS Home](#)

[NASA](#)
[GPO](#)
[Food and Drug Administration](#)

Orbiting DAC Helpdesk: orbitdac@gsfc.nasa.gov
 phone: 301.616.1200 or 1.800.271.2131
 Web Contact: Peggy Rains: pgrains@gsfc.nasa.gov
 Peggy Dalton: pdalton@gsfc.nasa.gov
 Helpdesk Staff: Steve Tompkins, M. Ann Hinesman: tmhines@gsfc.nasa.gov
 Last Update: The Oct 17, 2000 09:07 AM



Data Parameter Search





Data Parameter Search



http://dasr.KAMPAIGN_DOCS/atmospheric_dynamics/parameter_search/view.html - Microsoft Internet Explorer

Parameter View

View available parameters by using either the search box or the graphical navigation below.

Parameter: temp Search

Dataset: All Datasets Dataset Search

Clouds

Altitude

Ozone

Precipitation

Surface Character

Atmospheric Dynamics Data

Pressure

Radiation

Winds

NASA OSFC Goddard DAAC

Goddard DAAC Help Desk: 202-454-5224 or 1-877-794-2347 - dasr@daac.gsfc.nasa.gov
 Author: Atmospheric Dynamics DSI - atmosdyn@daac.gsfc.nasa.gov
 Web Curator - web-curator@daac.gsfc.nasa.gov
 NASA Official: Steve Kammer, DAAC Manager - skammer@daac.gsfc.nasa.gov
 Last updated: Wed Oct 17 16:27:18 EDT 2001

Parameter Search

Search Result

Home Register Register Register Contact Us Contact Us HELP

Atmospheric Dynamics Parameter View Only Parameter Search Previous Next

Parameter temp

File 77

- Click the link in "Data Product" column to go to a list of years of the data product(s).
- To narrow down search results:
 - Select Data product
 - Specify Temporal Range below the table
 - Click "Search"

Dataset	Data Product	Temporal Coverage	Spatial Coverage	Temporal Resolution	Format	Average Item Size (KB)	Parameter	Selected
DA01	Full 3-Dimensional reanalysis diagnostic meteorology and land	1960-01-01 01:30:00 1991-12-31 02:30:00	Global	Monthly	Binary	250000	List	<input type="checkbox"/>
DA02	Full 3-Dimensional reanalysis diagnostic meteorology and oceanology	1960-01-01 01:30:00 1991-12-31 02:30:00	Global	Monthly	Binary	250000	List	<input type="checkbox"/>
DA03	reanalysis sea level diagnostic temperature at 2 levels	1960-01-01 01:30:00 1991-12-31 02:30:00	Global	Monthly	Binary	250000	List	<input type="checkbox"/>
DA04	Model diagnostic reanalysis sea level diagnostic temperature at right angles	1960-01-01 01:30:00 1991-12-31 02:30:00	Global	Monthly	Binary	250000	List	<input type="checkbox"/>
DA05	reanalysis reanalysis sea level diagnostic temperature at a corner	1960-01-01 01:30:00 1991-12-31 02:30:00	Global	Monthly	Binary	250000	List	<input type="checkbox"/>
DA06	reanalysis reanalysis reanalysis sea level diagnostic temperature at right angles corner	1960-01-01 01:30:00 1991-12-31 02:30:00	Global	Monthly	Binary	250000	List	<input type="checkbox"/>
DA07	reanalysis sea level diagnostic ground temperature	1960-01-01 01:30:00 1991-12-31 02:30:00	Global	Monthly	Binary	250000	List	<input type="checkbox"/>
DA08	reanalysis reanalysis sea level diagnostic ground temperature	1960-01-01 01:30:00 1991-12-31 02:30:00	Global	Monthly	Binary	250000	List	<input type="checkbox"/>
TOYS	TOYS Reanalysis A, TRS20, 6 days	1976-12-20 04:30:00 1978-01-01 01:30:00	Global	Daily	HEF	109636	List	<input type="checkbox"/>
TOYS	TOYS Reanalysis A, ITCNA, 6 days	1961-12-27 05:00:00 1971-01-01 01:30:00	Global	Monthly	HEF	109632	List	<input type="checkbox"/>
TOYS	TOYS Reanalysis A, ITCNA, 12 days	1961-12-27 05:00:00 1971-01-01 01:30:00	Global	Daily	HEF	868111	List	<input type="checkbox"/>
TOYS	TOYS Reanalysis A, ITCNA, 12 days	1961-12-27 05:00:00 1971-01-01 01:30:00	Global	Daily	HEF	868111	List	<input type="checkbox"/>
TOYS	TOYS Reanalysis A, ITCNA, 12 days	1961-12-27 05:00:00 1971-01-01 01:30:00	Global	Daily	HEF	868111	List	<input type="checkbox"/>
TOYS	TOYS Reanalysis A, TRS20, 6 days	1976-12-20 04:30:00 1978-01-01 01:30:00	Global	Monthly	HEF	302094	List	<input type="checkbox"/>
TOYS	TOYS Reanalysis A, ITCNA, 6 days	1961-12-27 05:00:00 1971-01-01 01:30:00	Global	Monthly	HEF	109632	List	<input type="checkbox"/>
TOYS	TOYS Reanalysis A, ITCNA, 12 days	1961-12-27 05:00:00 1971-01-01 01:30:00	Global	Monthly	HEF	278320	List	<input type="checkbox"/>
TOYS	TOYS Reanalysis A, ITCNA, 12 days	1961-12-27 05:00:00 1971-01-01 01:30:00	Global	Monthly	HEF	302094	List	<input type="checkbox"/>
TOYS	TOYS Reanalysis A, ITCNA, 12 days	1961-12-27 05:00:00 1971-01-01 01:30:00	Global	Monthly	HEF	302094	List	<input type="checkbox"/>



DAAC Data Access Methods



There are 3 ways to obtain data from the DAAC:

- **WWW User Interface**
 - Global EOS Data Gateway (EDG), URL <http://eos.nasa.gov/imswelcome/>
 - Local DAAC User Interface, URL <http://eosdata.gsfc.nasa.gov>
- **Anonymous FTP at**
http://eosdata.gsfc.nasa.gov/CAMPAIGN_DOCS/FTP_SITE/ftp_site.html
- **Subscriptions**
 - Specified once and for all by user
 - User receives email for either push or pull operation



Data Selection Example (EDG)



EDG Data Gateway: Data Search and Order (Advanced) - Netscape

Search Creation:
Data Search and Order (Advanced)

User: guest

[User Preferences](#)
[Search Creation](#)
[Search Status](#)
[Results Data Set](#)
[Results Granule](#)
[My Folder](#)
[Shopping Cart](#)
[Exit to Home](#)

1. Select search type

Summary Document Search: Search for summary information on collections of data products
 Detailed Document Search: Search for detailed information on collections of data products
 Data Search and Order: Search for and order data products
 Data Granule ID: Search for individual data products, using product or data granule IDs

Switch to...

2. Build search

Geographic Region
[Help](#) [Data](#) [Map](#)



RANGE:
90.0000° to 90.0000° Lat
-180.0000° to 180.0000° Lon.

Parameter	(A physical property being measured in the data (e.g., humidity).)
Data Set	(A named collection of data/observations.)
Sensor	(An instrument used in gathering the data.)
Data Center	GSFC
Source	(The spacecraft, airplane, etc. the sensor was located on.)

EDG Data Gateway: Valid Selection: Data Set - Netscape

Search Form: Data Search and Order:
Valid Selection: Data Set

User: guest

[User Preferences](#)
[Search Creation](#)
[Search Status](#)
[Results Data Set](#)
[Results Granule](#)
[My Folder](#)
[Shopping Cart](#)
[Exit to Home](#)

Filters for Data Set:

Type in patterns (where "*" separates patterns and "*" is a wildcard) or select predefined filters from the list below and hit APPLY. Example: for choices beginning with A or B, type: A*, B*. Note: the type-in field will be used in conjunction with the filters!

Sorry... there are no compatible filters for Data Set.

Data Sets:

Select the Data Sets which you would like to be a part of your query, and hit OK.

Definition Detailed Document for ...
There are a total of 79 compatible choices for Data Set.

Data Set list 1

- UARS HALOE LEVEL 3AT DAILY TIME ORDERED DATA
- UARS HRDI LEVEL 3AL DAILY LATITUDE ORDERED DATA
- UARS HRDI LEVEL 3AT DAILY TIME ORDERED DATA
- UARS ISAMS LEVEL 3AL DAILY LATITUDE ORDERED DATA
- UARS ISAMS LEVEL 3AT DAILY TIME ORDERED DATA
- UARS ISAMS LEVEL 3B DAILY LATITUDE GRIDDED FOURIER COEFFICIENTS
- UARS MLS LEVEL 3AL DAILY LATITUDE ORDERED DATA
- UARS MLS LEVEL 3AT DAILY TIME ORDERED DATA
- UARS MLS LEVEL 3B DAILY LATITUDE GRIDDED FOURIER COEFFICIENTS
- UARS NMC CORRELATIVE DAILY GRIDDED DATA

Shortcuts: these buttons select all/none from the above list.



Data Selection Example (Local UI)



MODIS Level 1B Calibrated Radiances 1km Data for 2000 - Netscape

File Edit View Go Communicator Help

MODIS Level 1B Calibrated Radiances 1km Data for 2000

New User Registration Update Registration Order Status Keyword Search HELP

Order Options:

1. Click on a [highlighted day](#).
2. Use the [Temporal Order](#) section at the bottom of this page.

NOTE: Numbers shown in red are data granule counts.

2000

JANUARY 78 Data Granules						
Su	Mo	Tu	We	Th	Fr	Sa
						01
02	03	04	05	06	07	08
09	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24 35	25 43	26	27	28	29
30	31					

FEBRUARY 2346 Data Granules						
Su	Mo	Tu	We	Th	Fr	Sa
		01	02	03	04	05
06	07	08	09	10	11 31	12 109
13 47	14 112	15 20	16 123	17 131	18 63	19 204
20 138	21 76	22 56	23 171	24 188	25 61	26 221
27 127	28 254	29 221				

MARCH 1672 Data Granules						
Su	Mo	Tu	We	Th	Fr	Sa
			01 242	02 209	03 79	04 127
05 265	06 272	07 168	08 216	09 67	10 28	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

APRIL						
Su	Mo	Tu	We	Th	Fr	Sa
						01
02	03	04	05	06	07	08
09	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MAY						
Su	Mo	Tu	We	Th	Fr	Sa
	01	02	03	04	05	06
07	08	09	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JUNE						
Su	Mo	Tu	We	Th	Fr	Sa
					01	02
03	04	05	06	07	08	09
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

MODIS MOD021KM Data for 2000-MAR-07 - Netscape

File Edit View Go Communicator Help

MODIS MOD021KM Data for 2000-MAR-07

New User Registration Update Registration Review Order Cancel Order Submit Order HELP

Select Spatial Range

The map below uses a Java applet that may take several seconds to load. This map allows Java capable browsers to create a spatial search box. Using your mouse, click on the map and drag the mouse to create the boundaries of the box. Alternatively, the latitude and longitude boundaries for a region can be provided in decimal form (not degree, minutes, seconds). Use + for North and East and - for South and West. Coordinates must be entered if the WWW browser is not Java-enabled.

West Longitude South Latitude

East Longitude North Latitude

Color area

Number of granules per area 1 4 7 10 14




HDF Data Access Tools

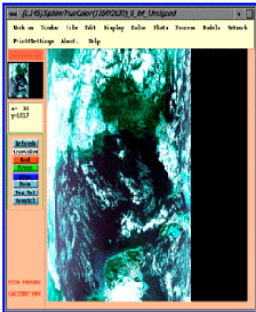


File Edit View Go Communicator Help

Visualization

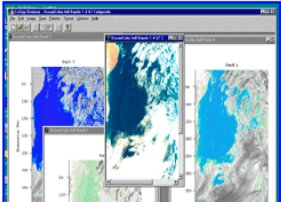


EOSView is a tool for examining, viewing and verifying HDF and HDF-EOS data files. This tool enables the user to view the contents of HDF files and individual objects by being able to read and display all metadata fields and data objects. Supported record types for viewing and display capability include images, Raster images, multidimensional arrays, text, tables, (Vdatas) and Vgroups. Attributes and annotations can also be viewed. EOSView was developed for various platforms for the Earth Observing System Data and Information System (EOSDIS) Core System (ECS).



MSPHINX (MODIS Satellite Process Handling Images uNder Xwindow) is a freeware package for image analysis, data plotting, format conversion, and many other sophisticated tasks. It was designed by [Laboratoire d'Optique Atmosphérique](#), a French planetary research institution. MSPHINX is a UNIX, menu-driven package that is easy to install and use.

If you encounter any problems with MSPHINX, please report them to the University of Lille (sphinx@loa.univ-lille1.fr).



The **SciSpy** Browser from [Fortner Software\(TM\)](#) is a PC windows utility that allows you to examine scientific data by viewing the hierarchy and objects of a HDF file.

Objects that can be viewed within an HDF file include Scientific Datasets (up to 7-dimensions), Data Tables, Raster Images

Document: Done

File Edit View Go Communicator Help



WebWinds, the successor to [LinkWinds](#), is an interactive science data visualization system developed by [JPL NASA](#). WebWinds is written in Java, is available for all major computer platforms, and is based on LinkWinds in that it inherits LinkWinds functionality. Because it is written in Java, WebWinds is modular, allowing flexibility in tool construction and application. WebWinds is also largely platform and operating system independent so that it functions efficiently in today's heterogeneous environment.



geoview is an interactive IDL program to read Level 1B and Level 2 MODIS products, list SDS and their attributes, and show granule location on a world map. geoview is also a [visualization](#) tool. It can overlay the first three user-selected channels or other data layers, geolocate each one of them, and produce a mapped true color image. [Documentation](#) on geoview is available. [Examples](#) on how to extract different cloud masks from MOD35 are also given.

Geographic Information System

Software is currently being evaluated and tested.

Scientific

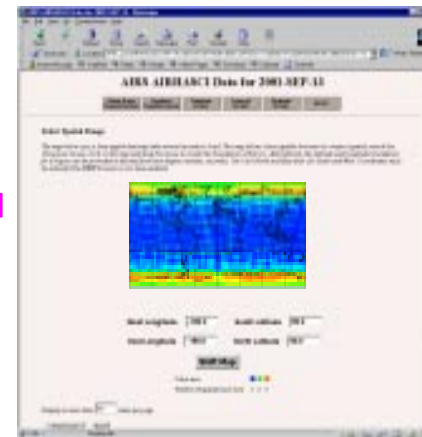
Document: Done



BACKUPS



Data Selection Example (Local UI)



FTP
CD
Tap
D



Data Selection Example (Local UI)



AIRS Data Support Overview - Microsoft Internet Explorer

Address: http://daacdev2.gsfc.nasa.gov/CAMPAGN_DOCS/atmospheric_dynamic/at_data/air_access.html

AIRS Data Support At DAAC

Data Access

► Atmospheric Dynamics ► Dataset ► Home ► You are here!

AIRS data products archived at the DAAC are available via several systems. Please select the system that will best meet your needs.

System	Description
GES DAAC Search and Order	The Goddard DAAC Search and Order system is a simple point-and-click web interface used to search for and order data products archived locally. Data is displayed in tables based on a hierarchical organization. Descriptive information is provided about the data.
Earth Observing System Data Outpost	A WWW interface which allows you to search for, browse and order Earth Science data from NASA and from other data centers around the world.

Goddard DAAC Helpdesk: helpdesk@daac.gsfc.nasa.gov
 Author: Atmospheric Dynamics COY: atmos@daac.gsfc.nasa.gov
 Curator: Peggy Eaton: peaton@daac.gsfc.nasa.gov
 Responsible NASA Official: Steve Kempler, DAAC Manager: kempler@daac.gsfc.nasa.gov
 Last update: 01/26/2001 13:47:24

AIRS Data Search and Order - Microsoft Internet Explorer

Address: http://daacdev2.gsfc.nasa.gov/Data/daacnet/WRS/index.html

AIRS Data Search and Order

[New User Registration](#)
[Update Registration](#)
[Review Order](#)
[Cancel Order](#)
[Submit Order](#)
[Send Comments](#)
[HELP](#)

When in normal operation, Aps will add 79 gigabytes of AIRS-HIS-AMSU per day of data to the flow of data to be archived at the GES DAAC. For the AIRS-HIS-AMSU data DAAC will produce both the geolocated, calibrated measurements and the level 2 science products. The science teams will also send in some higher level products to the archive.

Data Products	Description	Begin Date	End Date
L1A Products	Three POEs produce Level 1A geolocated science data records and engineering parameters.	2001-09-13 21:00:00	2001-09-14 21:00:00
L1B Products	Four POEs ingest Level 1A data to produce Level 1B calibrated IR radiances product, MW brightness temperature product and associated calibration coefficients.	TBD	TBD
L2 Products	A combined AIRS/AMSU-AMSU/HSR Level 2 POE extracts produce Level 2 standard products and support products.	TBD	TBD

Additional Resources

Visit [AIRS Data Support at DAAC](#) for more information about AIRS.

Goddard DAAC Help Desk: 301.616.5224 or 1.800.257.6151 - helpdesk@daac.gsfc.nasa.gov
 Web Curator: Peggy Eaton - peaton@daac.gsfc.nasa.gov
 Author: Atmospheric Dynamics Data Support Team - atmos@daac.gsfc.nasa.gov
 NASA Official: Steve Kempler, DAAC Manager - kempler@daac.gsfc.nasa.gov
 Last updated: 2001-01-08 11:44:30



Data Selection Example (Local UI)



http://daacdev2/data/dataset/AIRS/01_L1A_Products/01_AIRHASCI/2001/index.html - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print

Address http://daacdev2/data/dataset/AIRS/01_L1A_Products/01_AIRHASCI/2001/index.html

AIRS HSB L1A Science Footprints Data for 2001

New User Registration Update Registration Review Order Cancel Order Submit Order HELP

The total number of available granules for a month is listed under the month name on the calendar. Days with available granule data are colored. The undefined day is a link to a map illustrating the location of the granules.

2001 → 2002

JANUARY							FEBRUARY							MARCH							
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	
	01	02	03	04	05	06						01	02	03	04	05	06	07	08	09	10
	4	3	12	32	132	12															
07	08	09	10	11	12	13	11	12	13	14	15	16	17	11	12	13	14	15	16	17	
12							18	19	20	21	22	23	24	18	19	20	21	22	23	24	
14	15	16	17	18	19	20	25	26	27	28	25	26	27	28	29	30	31				
21	22	23	24	25	26	27															
28	29	30	31																		

APRIL							MAY							JUNE							
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	
	01	02	03	04	05	06			01	02	03	04	05						01	02	
08	09	10	11	12	13	14	06	07	08	09	10	11	12	03	04	05	06	07	08	09	
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16	
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	
							27	28	29	30	31	24	25	26	27	28	29	30			

Local intranet

AIRS AIRHASCI Data for 2001-SEP-13 - Netscape

File Edit View Go Communications HTML

Back Forward Home Search Netscape Find Security Stop

Bookmarks Location UPD_L1A_L1A_PRODUCTS/START_YEAR=2001&START_MONTH=09&START_DAY=13&END_YEAR=2001&END_MONTH=09&END_DAY=13

Instant Message Usenet Radio People Yellow Pages Download Calendar Channels

AIRS AIRHASCI Data for 2001-SEP-13

New User Registration Update Registration Review Order Cancel Order Submit Order HELP

Select Spatial Range

The map below uses a Java applet that may take several seconds to load. This map allows Java capable browsers to create a spatial search box. (Using your mouse, click on the map and drag the mouse to create the boundaries of the box. Alternatively, the latitude and longitude boundaries for a region can be provided in decimal form (not degree, minutes, seconds). Use + for North and East and - for South and West. Coordinates must be entered if the WWW browser is not Java enabled.

West Longitude South Latitude

East Longitude North Latitude

Shift Map

Color area

Number of granules per area:

Display no more than items per page.

Start Search Next



Data Selection Example (Local UI)



L1A AIRS Products - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Location: http://daacdev2.gsfc.nasa.gov/data/dataset/AIRS/01_L1A_Products/index.html What's Related

Members WebMail Connections BizJournal SmartUpdate Mktplace

L1A AIRS Products

[New User Registration](#)
[Update Registration](#)
[Review Order](#)
[Cancel Order](#)
[Submit Order](#)
[Send Comments](#)
[HELP](#)

Three independent Product Generation Executives (PGEs), one each for AIRS/VIS, AMSU-A, and HSB, execute at the DAAC to ingest Level 0 data to produce Level 1A geolocated science data counts and engineering parameters in HDF swath format.

Data Products	Description	Begin Date	End Date	Number of Items	Average Item Size (Kb)
L1A-HSB	L1A HSB data	2001-01-13 21:00:00	2001-09-15 21:00:00	14	46313
AMSU-A L1A	L1A AMSU-A data	2001-09-13 21:00:00	2001-09-14 21:00:00	5	46313
L1A-AIRS	L1A HSB data	2001-09-13 21:00:00	2001-09-14 21:00:00	5	46313
L1A-VIS	L1A HSB data	2001-09-13 21:00:00	2001-09-14 21:00:00	5	46313

Goddard DAAC Help Desk: 301-614-5224 or 1-800-257-6151 -- daacuso@gsfc.nasa.gov
 Web Curator: Peggy Eaton -- peaton@daac.gsfc.nasa.gov
 Author: Atmospheric Dynamics Data Support Team -- atmdyn-dst@daac.gsfc.nasa.gov
 NASA Official: Steve Kempier, DAAC Manager -- kempier@daac.gsfc.nasa.gov
 Last updated: 2001-02-16 15:56:27

http://www.gsfc.nasa.gov/

HSB L1A Science Footprints - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Location: p://daacdev2.gsfc.nasa.gov/data/dataset/AIRS/01_L1A_Products/01_AIRHASCI/index.html What's Related

Members WebMail Connections BizJournal SmartUpdate Mktplace

HSB L1A Science Footprints

[New User Registration](#)
[Update Registration](#)
[Review Order](#)
[Cancel Order](#)
[Submit Order](#)
[Send Comments](#)
[HELP](#)

Each link in the Year column below takes you to a calendar where you will be able to make your temporal selection.

Year	Begin Date	End Date	Number of Items	Average Item Size (kB)
2001	2001-01-13 21:00:00	2001-09-15 21:00:00	14	46313

Goddard DAAC Help Desk: 301-614-5224 or 1-800-257-6151 -- daacuso@gsfc.nasa.gov
 Web Curator: Peggy Eaton -- peaton@daac.gsfc.nasa.gov
 Author: Atmospheric Dynamics Data Support Team -- atmdyn-dst@daac.gsfc.nasa.gov
 NASA Official: Steve Kempier, DAAC Manager -- kempier@daac.gsfc.nasa.gov
 Last updated: 2001-02-16 14:47:12

Document: Done