



# How to create data

- From home page, click on *Live Access to data*

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## MY NASA DATA

Mentoring and inquiry using NASA Data on Atmospheric and earth science for Teachers and Amateurs

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**NASA**  
NASA Official: Lin H. Chambers  
Last Updated: January 13, 2006  
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Sea Surface Temperature  
Hurricane Alley, September 18, 2005



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- From the Data Access page, click on *Live Access Server*

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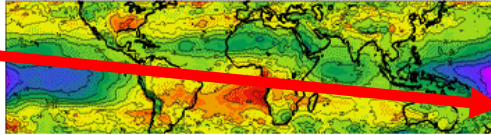
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The MY NASA DATA **Live Access Server (LAS)** is now available to create your own microsets for your class or your interests. The LAS contains over 127 parameters in atmospheric and earth science from five NASA scientific projects.

[+ Live Access Server](#)  
[+ Live Access Server Introduction](#)

NASA earth science satellite data has also been pre-packaged into easy-to-use data sets that contain appropriate content for K-12 classroom education or citizen scientist use. These **microsets** are accompanied by corresponding **lesson plans** and **computer tools**. The microsets have been made available by the NASA Langley Atmospheric Sciences Data Center (ASDC). The ASDC houses over 700 data sets which pertain to the Earth's radiation budget, clouds, aerosols and atmospheric chemistry. Please visit the [ASDC](#) web site for more information.

Please visit our **Science Focus** page for more information.

Microset Description	Resources
<a href="#">Area Coverage by Water Bodies around Earth's Equator</a>	 Lesson Plans  Computer Tools  Data Information  Science Glossary
<a href="#">Area Coverage by Mixed Forest, Urban and Water Bodies around Latitude 40N</a>	
<a href="#">Area Coverage by all CERES Surface Categories for a few Sample Locations</a>	
<a href="#">Cloud Layer Area Fraction during a Late Winter Storm</a>	
<a href="#">Net Radiation at Latitude 20N</a>	
<a href="#">Daily Cycle of Solar Zenith Angle in March</a>	
<a href="#">Temperature and Ozone Profile from SAGE-III</a>	
<a href="#">Weather Balloon data from August 5, 2004</a>	
<a href="#">Weather Balloon data from July 26, 2005</a>	

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# How to create data

- Choose the type of dataset you would like to explore by clicking on the dataset name
- For example, we are choosing Atmosphere

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ASDC Live Access Server

OPENTAP (PDF) | THERMOS | Index | Search:

+ MY NASA DATA HOME + DATA ACCESS + LESSON PLANS + COMPUTER TOOLS + SCIENCE FOCUS + GLOSSARY

single data set compare two

Select Datasets

Show Variables

Set constraints

Previous Output

Define variable

About Live Access Server

LAS UI Version 6.5

Database:

Click on a dataset to continue or an **i** for information about a dataset. Help

Select dataset:

Atmosphere

Snow and Ice

Surface

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# How to create data

- Now we choose the name of the dataset we want to explore
- For example we choose *Aerosols*

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ASDC Live Access Server [OPeNDAP \(FDS\)](#) | [THREDDS](#) | [Index](#) | Search:

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single data set compare two

Select Datasets

Show Variables

Set Constraints

Previous Output

Define variable

About Live Access Server

LAS UI Version 6.5

[Datasets > Atmosphere](#)

Click on a dataset to continue or an **i** for information about a dataset. [Help](#)

Select dataset:

- [Aerosols](#)
- [Air Quality](#)
- [Atmospheric Pressure](#)
- [Atmospheric Radiation](#)
- [Atmospheric Temperature](#)
- [Clouds](#)

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# How to create data

- We now select the name of the variable(s) we want to explore;
- To select the variable, check the box(es) of the variable(s) you want
- Note-for this dataset there is only one option available

The screenshot shows the MY NASA DATA interface. At the top, there is a banner with the text "MY NASA DATA" and "Mentoring and inquiry using NASA Data on Atmospheric and earth science for Teachers and Amateurs". Below the banner is the "ASDC Live Access Server" section with a search bar and a "Go" button. A navigation menu includes links for "MY NASA DATA HOME", "DATA ACCESS", "LESSON PLANS", "COMPUTER TOOLS", "SCIENCE FOCUS", and "GLOSSARY". The main content area shows a breadcrumb trail: "Datasets > Atmosphere > Aerosols". A instruction box says: "Select a variable and then click: **Next >** to proceed to the Constraints page. Click the GLOSSARY menu bar for acronym explanations." Below this, under "Dataset variable(s):", there is a list of variables. The first variable, "Monthly Aerosol Optical Depth (MISR)", has a checked checkbox. To the right of this variable are links for "Reset", "Select all", and "Unselect all". A red arrow points to the checked checkbox. To the right of the list is a "Next >" button. The footer contains the "FIRST GOV" logo, links to "Freedom of Information Act", "The President's Management Agenda", "FY2003 Agency Performance Report", and "Privacy Policy and Important Notices". It also features the NASA logo and text: "NASA Official: Lin H. Chambers Last Updated: March 14, 2006 + Contact Us".



# How to create data

- Now you choose your output options:
  - View (Hofmoeller or Time series)
  - Output (Color plot or line plot)
  - Region (Global or Continent)
  - Time (date range)
- For example, we choose *Longitude-Latitude map*, *Color plot*, *Full Region*, *June 2004*

The screenshot shows the ASDC Live Access Server interface. The main content area is titled "ASDC Live Access Server" and includes navigation links for "OPeNDAP (FDS)", "THREDDS", and "Index". Below the navigation bar, there are tabs for "single data set" and "compare two". The main configuration area is titled "Datasets > Atmosphere > Aerosols" and shows the variable "Monthly Aerosol Optical Depth (MISR)". The user is prompted to "Select your desired view (geometry of output) and output (type of product). Then set the 4-D region (lon-lat-depth-time) and any additional constraints." The configuration options are as follows:

- Select view:** Longitude-Latitude map (xy)
- Select output:** Color plot
- Select region:** Full Region
- Select time:** 2004-06, 52
- Select options:** Image format (Default), Plot size (default), View interpolation (Off), Show reference map (Default), Evaluate expression, Land fill style (Default), Palette (Default), Color fill style (Default), Color fill levels, Contour levels.

Red arrows from the text on the left point to the "Select view", "Select output", "Select region", and "Select time" fields in the interface.

# Resulting Plot:



## Aerosols

The Multi-angle Imaging Spectro-Radiometer (MISR) provides high quality aerosol optical depth (AOD) at various spatial and temporal resolutions. Shown is global monthly average of optical depth as shown in the MY NASA DATA LAS for June 2004.

