

Contents of the Site

On the MY NASA DATA homepage you can find:

- Data Access
- Lesson Plans
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- Science Focus
- E-Notes





Data Access

The Data Access link allows you to:

- Locate the Live Access Server (LAS)
- Look at the Microset descriptions.



	Microset Description	Lesson ID
٢	Area Coverage by Water Bodies around Earth's Equator	A
L	Area Coverage by Mixed Forest, Urban and Water Bodies around Latitude 40N	A
L	Area Coverage by all CERES Surface Categories for a few Sample Locations	A
L	Cloud Layer Area Fraction during a Late Winter Storm	С
4	Net Radiation at Latitude 20N	D
L	Temperature and Ozone Profile from SAGE-III	G
L	Weather Balloon data from August 5, 2004	2
	Weather Balloon data from July 26, 2005	2,20
L	Weather Balloon data from July 31, 2007	



Lesson Plans

This section will allow you to access a variety of lesson plans and search by:

- Grade, Time to Complete, All Lessons, Activities, Climate Change Lessons, Stand-Alone Lessons & Unit Plans
- Standards of Learning

MY NASA DAT Mentoring and ind	uirY using NASA Data	on Atmospheric and earth	science for Teachers and	Amateurs	
+MY NASA DATA HOME	+DATA ACCESS	+LESSON PLANS	+COMPUTER TOOLS	+SCIENCE FOCUS	
Lessons by Grade	MY NASA D	ATA Lesson Plan	S		
Grades: K - 2 IMPORTANT NOTICE: Please note, we have updated the Live Access Server (Grades: 3 - 5 IMPORTANT NOTICE: Please note, we have updated the Live Access Server (Grades: 6 - 8 usstem with new features and interface. Currently, the lesson procedures that u Grades: 9 - 12 LAS have not been modified but look for similar options in the new interface. Le will be updated for the new system. If you are having difficulties with the new LA please send us an email at mynasadata@lists.nasa.gov and we will do our bes you with the changed procedures. Thank you for your patience.				cess Server (LAS) edures that use the interface. Lessons th the new LAS, ill do our best to assis	
Lessons by Time	The collection of MY NASA DATA lesson plans is intended to provide the educator with a variety of specific examples, incorporating a more "teacher-directed" strategy, of how authentic satellite data can be integrated into the curriculum.				
All Lessons Activities	The majority of MY NASA DATA lessons were developed by classroom tear real NASA data in their curriculum. Other lessons were developed by the M DATA team as examples of lessons using microsets from the Data Access			oom teachers to use by the MY NASA	
Clmate Change Lessons Stand-alone Lessons	Featured on the s of our website are directed" strategy	Science Project Ideas se e examples of a more "si with an inquiry-based to rusing authentic dai	ction tudent-	-rage:	
	If you are a visito these illustrations used authentic se serve as an inspii them as is or to c rich data resource sharing it with oth	r to the MY NASA DATA a of how other teachers h tatellite data as a resourci ration. We invite you to u reate your own lesson fr that the LAS provides. her educators through thi	site, ave e may use om the f you create your own le s ever-growing list.	sson, please conside	
	CLICK the button grade level; or, Si cross over two su Please note that	s on the left of the page EARCH for lessons usin Iggested grade-bands w some lessons can be ad	to see the various lessor g one of the search tools ill appear in both applicat apted to a lower or highe	ns that are available b below. Lessons that ole lesson plans lists. r grade-band.	
		Search by Search	National Standards of Learn Virginia Standards of Learni Data Category Environmental Science Tonic	ing ng cs	



Computer Tools

This section features many tools that make using the data sets much easier and user friendly.

There is:

- MY NASA DATA Computer Tools —
- Microsoft Excel Tools _____
- TI-84 Calculator Tools ______
- GIS Tools ______

MY NASA DATA Mentoring and in	guirY using NASA Data	on Atmospheric and earth	h science for Teachers and Amateur	3
MY NASA DATA HOME	+DATA ACCESS	+LESSON PLANS	+COMPUTER TOOLS +SC	IENCE FO
Lessons by Grade Grades: K - 2 Grades: 3 - 5 Grades: 6 - 8 Grades: 9 - 12	Example software listed below	We encourage our us programs would mait more useable. We low tools for use with the MY NA	ters to let us know which software too ke the MY NASA DATA microsets and ok forward to receiving your ideas! ASA DATA microsets from the Data Ac	Is or com lesson p ccess page
Lessons by Time		MY NASA DATA	Computer Tools	Grad
All Lessons	Latitude-Longi	tude Tool		6-12
Activities	How to explore	e LAS Data (MS PowerPoint	t Document)	6-12
Acuviues	Creating PDF	s from MY NASA DATA less	ons	9-12
Cimate Change Lessons	How to downlo	ad YouTube videos		9-12
Stand-alone Lessons	Using Image J	Software to create movies	of MND images (MS Word Document)	9-12
Unit Plans	Viewing MY N	ASA DATA Microsets using	free IDL software	9-12
	Tutorial on Us	Tutorial on Using GLOBE Data to Study the Earth System		
	Downloading a	Downloading and Graphing GLOBE Ozone Data		
	TerraLook: Sa	tellite imagery to view a cha	nging world	6-12
	World Wind: z	Making Vocabulary Word Searches and Puzzles by The Discovery Channel World Wind: zoom from satellite altitude into any place on Earth		
		Microsoft E	xcel Tools	Grad
	Snow and Lan	d Mask Excel File (MS Exce	el Document)	4-12
	Opening MY N	ASA DATA Microsets in Mic	prosoft Excel	6-12
		TI-84 Calcu	lator Tools	Grad
	Directions for Word Docume	importing data into the TI-84 nt)	Silver Plus graphing calculator (MS	9-12
	Important TI-8	4 Keys Diagram		9-12
		GIS T	ools	Grad
	L			



Science Focus

The Science Focus section features links to pages that provide additional explanation and information about certain features of our website, related science concepts, and other sources of scientific data.



Carbon Monoxide - Click to explore



MY

• From home page, click on The *Data Access* icon.





- From the Data Access page, choose one of the *Live Access Server* options
- Basic simplest and fewer parameters
- Intermediate data organized by "spheres"
- Advanced more options and all available parameters



Please visit our Science Basics page for more information.

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- Choose the type of data you would like to explore by topic area
- For example, Atmosphere



NOTE: This is the Advanced Edition interface. The others are similar (but simpler).



 Now we choose the specific kind of atmospheric data we want to explore

• For example we choose *Aerosols*

MY NAS	A DATA Home Intermediate LAS Basic LAS Climate Change LAS		Help OPeNDAP (F-TDS) / THREDDS
MY	NASA DATA Live Access Server – Advanced		
hoo:	Close		Sesktop Application Save As Link To Print
	Datasets ☐ Atmosphere		
8		?	
	Air Quality	?	
	+ Atmospheric Pressure	?	
	H Atmospheric Temperature Atmospheric Temperature	?	
e 1.	★ Atmospheric Water Vapor	?	NASA
_	Clouds Clouds		
	Precipitation	?	LAT NASA DATA JER
_	Atmospheric Radiation		ICCESS SP.
	Biosphere Biosphe	2	
		?	
	➡ Land Surface		
	Oceans	?	
	Surface Meteorology and Solar Energy		



- 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 data type there is only one option available



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.



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Note: White areas in this plot are missing data due to persistent clouds, or lack of sunlight (South Pole) to detect the aerosols

- Now you choose your plot options:
 - Animation
 - Plot Comparison _
 - Plot to Google Earth
 - Show plot Values
 - Location Via Latitude and longitude.
 - Hovmoller plots _
 - Line Plote and date -
- For example, we choose • *Longitude-Latitude map* and March 2000
- Click "Update Plot" on the • top menu next to "Choose dataset"



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