

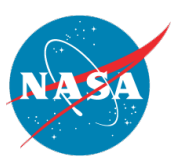


Online Resources in a Nutshell

ARSET

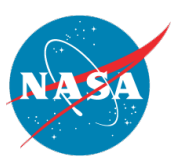
Applied Remote Sensing Training

A project of NASA Applied Sciences



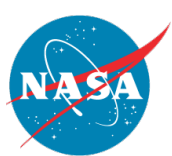
OMI NO₂ DATA

Type/Source	Name	Level	Format	Resolution	SOURCE
Standard product	OMNO2G	2G	HDF5	0.25x0.25deg NOT cloud screened	http://disc.sci.gsfc.nasa.gov/Aura/data-holdings/OMI/omno2g_v003.shtml
Standard product	OMNO2d	3	HDF5, NetCDF	0.25x0.25deg cloud-screened	http://disc.sci.gsfc.nasa.gov/Aura/data-holdings/OMI/omno2e_v003.shtml
NRT	DOMINO	L2	HDF5	13x24km (nadir) to 13x128km at the swath edge	http://www.temis.nl/airpollution/no2col/no2regioomi_v2.php
AVDC	NO2TropCS30	L3	HDF, ASCII	0.05x0.05km (cloud screened)	http://avdc.gsfc.nasa.gov/ under DATA/Air Quality link
			HDF, ASCII	0.25x0.25km (cloud screened)	http://avdc.gsfc.nasa.gov/ under DATA/Air Quality link
GIOVANNI subset data	OMNO2e	3	HDF, NetCDF, ASCII	0.25x0.25km (cloud screened)	(COMING SOON) http://gdata1.sci.gsfc.nasa.gov/daac-bin/G3/gui.cgi?instance_id=Air_Quality
BEHR Product	US coverage only	L2	ASCII, HDF	0.05x0.05km	http://behr.cchem.berkeley.edu/TheBEHRProduct.aspx



OMI NO₂ Images

Type/Source	Name	Level	Format	Resolution	SOURCE
NRT	DOMINO	L2	KML, png	13x24km (nadir) to 13x128km at the swatch edge	http://www.temis.nl/airpollution/no2col/no2regioomi_v2.php
AVDC	NO2TropCS30	L3	KML, jpg	0.05x0.05km (cloud screened)	http://avdc.gsfc.nasa.gov/ under DATA/Air Quality link
			KML, jpg	0.25x0.25km (cloud screened)	http://avdc.gsfc.nasa.gov/ under DATA/Air Quality link
Giovanni subset images	OMNO2e	L	gif, KMZ	0.25x0.25km (cloud screened)	http://gdata1.sci.gsfc.nasa.gov/daac-bin/G3/gui.cgi?instance_id=Air_Quality

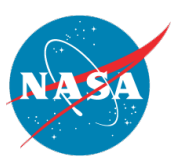


OMI SO₂ DATA

Type/Source	Name	Level	Format	Resolution	SOURCE
Standard product	OMSO2G, PBL, TRL, TRM	2G	HDF5	0.25x0.25deg NOT cloud screened	http://disc.sci.gsfc.nasa.gov/Aura/data-holdings/OMI/omso2g_v003.shtml
Standard product	OMSO2e, PBL only	3	HDF5, NetCDF	0.25x0.25deg cloud-screened	http://disc.sci.gsfc.nasa.gov/Aura/data-holdings/OMI/omso2e_v003.shtml
Giovanni subset data	OMSO2e	3	HDF, NetCDF, ASCII	0.25x0.25km (cloud screened)	http://gdata1.sci.gsfc.nasa.gov/daac-bin/G3/gui.cgi?instance_id=omi

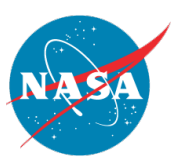
OMI SO₂ Images

Type/Source	Name	Level	Format	Res	SOURCE
NRT	OMSO2	L2	gif	13x24km (nadir) to 13x128km at the swatch edge	http://satepsanone.nesdis.noaa.gov/pub/OMI/OMISO2/index.html
VFD (very Fast Delivery) over Europe only	OMSO2 volcanic	L2	png	13x24km (nadir) to 13x128km at the swatch edge	http://omivfd.fmi.fi/index.html
Volcanic Image Archive	OMSO2	L2	gif	13x24km (nadir) to 13x128km at the swatch edge	http://so2.gsfc.nasa.gov/omi_2004_now.php
Giovanni subset images	OMSO2e	3	gif, KMZ	0.25x0.25km (cloud screened)	http://gdata1.sci.gsfc.nasa.gov/daac-bin/G3/gui.cgi?instance_id=omi



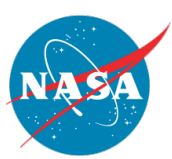
AIRS CO DATA

Type/Source	Name	Level	Format	Resolution	SOURCE
NRT	AIRXRET_NRT	L2	HDF	45km @ nadir	http://disc.sci.gsfc.nasa.gov/nrt/data-holdings/airs-nrt-products/airs-nrt-products#Data
Standard Product	AIRS2RET	L2	HDF, NetCDF	45km @ nadir	http://mirador.gsfc.nasa.gov/cgi-bin/mirador/presentNavigation.pl?tree=project&dataset=AIRS2RET.005&project=AIRS&dataGroup=V5%20AIRS-only%20L2&version=005&CGISESSID=ea966d527b9d8e2da4c646ea2d2af7dc
Standard daily Product	AIRS3STD	L3	HDF, NetCDF	1x1deg	http://mirador.gsfc.nasa.gov/cgi-bin/mirador/presentNavigation.pl?tree=project&dataset=AIRS3STD.005&project=AIRS&dataGroup=V5%20AIRS-only%20L3&version=005&CGISESSID=ea966d527b9d8e2da4c646ea2d2af7dc
Standard 8-day Product	AIRS3ST8	L3	HDF, NetCDF	1x1deg	http://mirador.gsfc.nasa.gov/cgi-bin/mirador/presentNavigation.pl?tree=project&dataset=AIRS3ST8.005&project=AIRS&dataGroup=V5%20AIRS-only%20L3&version=005&CGISESSID=ea966d527b9d8e2da4c646ea2d2af7dc
Giovanni subset data	AIRS3STD	L3	HDF, NetCDF, ASCII	1x1deg	http://gdata1.sci.gsfc.nasa.gov/daac-bin/G3/gui.cgi?instance_id=AIRS_Level3Daily



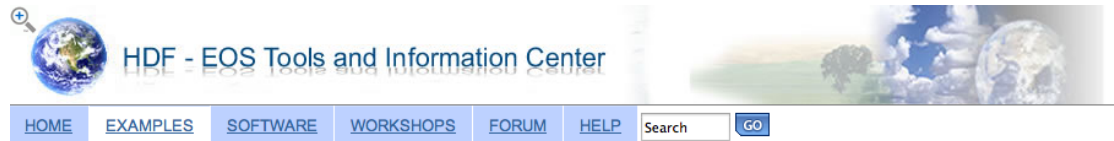
AIRS CO Images

Type/Source	Name	Level	Format	Resolution	SOURCE
NRT	AIRXRET_NRT	L2	PNG, GeoTIFF, KMZ	33x33km	http://disc.sci.gsfc.nasa.gov/nrt/data-holdings/airs-nrt-products/airs-nrt-products#WMS
Granule maps	AIRXAMAP_Ascending, AIRXAMAP_Descending	L1B	jpg	45km @ nadir	http://disc.sci.gsfc.nasa.gov/daac-bin/airs/airs_gallery.pl
Giovanni subset images	AIRS3STD	L3	Gif, KMZ	1x1deg	http://gdata1.sci.gsfc.nasa.gov/daac-bin/G3/gui.cgi?instance_id=AIRS_Level3Daily



HDF Zoo – provides examples on how to read and visualize various NASA HDF/HDF-EOS files using IDL and MATLAB

<http://hdfeos.org/zoo/>



COMPREHENSIVE EXAMPLES

This page provides comprehensive examples on how to access and visualize various NASA HDF/HDF-EOS files using [IDL](#)®, [MATLAB](#)® and [NCL](#). Other tools and programming languages examples can be found [here](#).

Please read this [special note](#) first before you proceed further.

For a list of examples for the different data centers, click on the examples in the table below.

NASA Data Centers	Product Examples using different tools
GESDISC	[Examples]
LAADS	[Examples]
LP DAAC	[Examples]
LaRC	[Examples]
NSIDC	[Examples]
PO.DAAC	[Examples]
Ocean Biology Processing Group	[Examples]
GHRC	[Examples]
ICESat-2	[Examples]

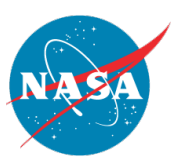
Table 1: Sample Data Files and Code Examples

We also provide examples for other data centers that produce HDF4 files.


Other Data Centers	Product Examples using different tools
CloudSAT Data Processing Center	[Examples]
Ocean Productivity	[Examples]

Table 2: Sample Data Files and Code Examples from Other Data Centers

We also extracted and documented information for sample HDF-EOS2/HDF4 and HDF-EOS5 files that are useful to determine the EOS contents stored in the sample files. Please click [here](#) for HDF-EOS2/HDF4 and [here](#) for HDF-EOS5 to read comprehensive description and retrieve sample files.



Panoply – netCDF, HDF, and GRIB data Viewer



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Panoply netCDF, HDF and GRIB Data Viewer

panoply \PAN-uh-plee\, noun: 1. A splendid or impressive array. ...

Panoply is a cross-platform application which plots geo-gridded arrays from [netCDF](#), [HDF](#) and [GRIB](#) datasets. You can:

- Slice and plot specific latitude-longitude, latitude-vertical, longitude-vertical, or time-latitude arrays from larger multidimensional variables.
- Combine two arrays in one plot by differencing, summing or averaging.
- Plot lon-lat data on a global or regional map (using any of over 75 map projections) or make a zonal average lineplot.
- Overlay continent outlines or masks on lon-lat plots.
- Use any ACT, CPT, GGR, or PAL color table for scale colorbar.
- Save plots to disk GIF, JPEG, PNG or TIFF bitmap images or as PDF or PostScript graphics files.
- Export lon-lat map plots in KMZ format.
- Export animations as AVI or MOV video or as a collection of individual frame images.
- Explore remote THREDDS and OpenDAP catalogs and open datasets served there.

The current version of Panoply is 3.1.5, released 2012-09-20.

Panoply requires that your computer have a [Java SE 6 runtime environment](#), or better, installed.

To be plotted by Panoply, dataset variables must be tagged with metadata information using a [convention](#) such as [CF](#).

