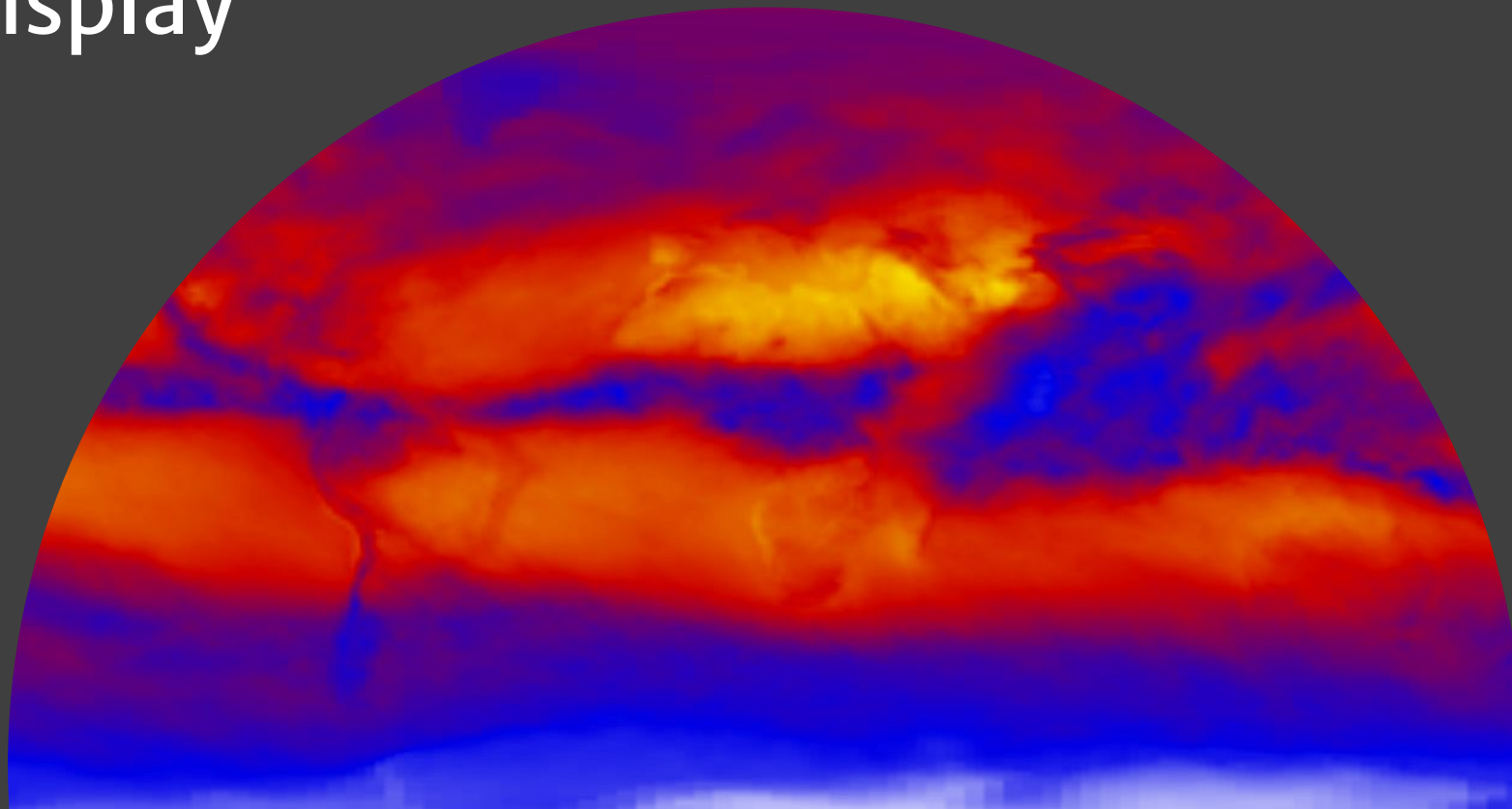


Using NASA Earth Observations (NEO) for Spherical Display Systems

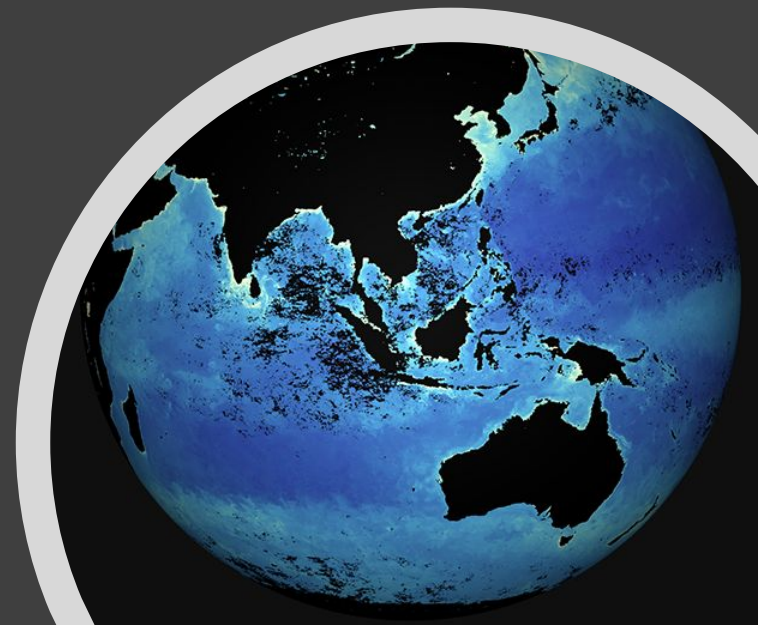
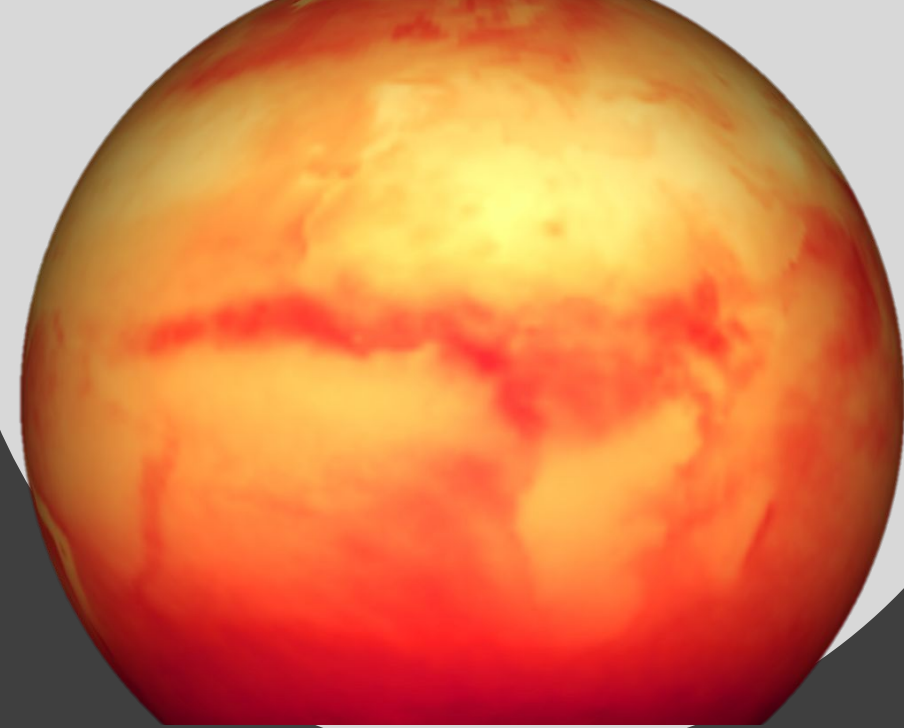
Andi Brinn Thomas

Earth Science Outreach Specialist



What is NEO?

- Our mission is to help you picture climate and environmental changes as they occur on our home planet.
- Browse and download imagery of satellite data from NASA's constellation of Earth Observing System satellites.
- Over 50 different global datasets are represented with daily, weekly, and monthly snapshots, and images are available in a variety of formats including JPEG, PNG, Google Earth, and GeoTIFF.

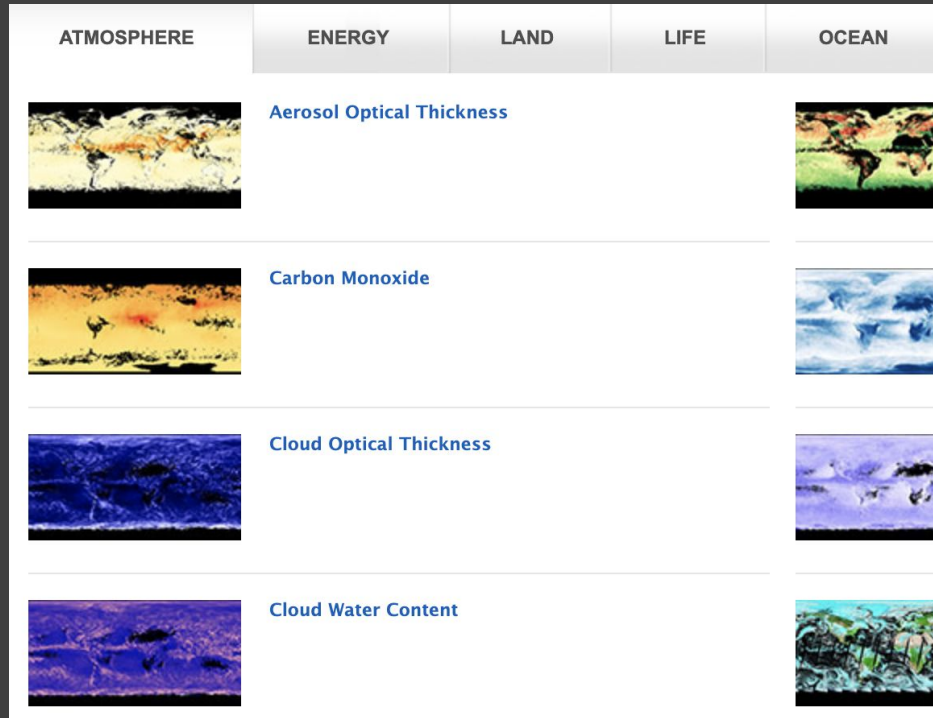


Tour de NEO



Browse Datasets by Category

- Atmosphere
- Energy
- Land
- Life
- Ocean



Blogs/ News

- Applying color palettes
- Visualizing NEO imagery in Excel
- Seeing changes in NO₂ during the pandemic

Frequently Asked Questions

Can I use NEO for scientific research?

Where can I find the original data NEO uses?

How can I bulk download NEO imagery?

How can I zoom to and download a specific region for analysis?

Tour de NEO – Dataset Page

NASA NEO NASA EARTH OBSERVATIONS

ATMOSPHERE ENERGY LAND LIFE OCEAN NEWS ABOUT 0 IMAGES ANALYZE

VEGETATION INDEX [NDVI] (1 MONTH - TERRA/MODIS)

ADD TO ANALYSIS

Currently viewing:
October 2020
Permalink

Downloads ⓘ

File Type:

Color Grayscale

1.0 degrees	360 x 180 ▶
0.5 degrees	720 x 360 ▶
0.25 degrees	1440 x 720 ▶
0.1 degrees	3600 x 1800 ▶

View by date:

Dataset you are currently viewing: October 2020 Select Year

2020 August 2020 September 2020 **October 2020** November 2020 December 2020

● Data ● No Data ● Currently Viewing

What do the colors mean?
Dark green areas show where there was a lot of green leaf growth; light greens show where there was some green leaf growth; and tan areas show little or no growth. Black means "no data."





Related Websites
MODIS
Terra
MODIS Land Science Team
MODIS on Earthdata

1. Choose dataset to visualize and download
2. Read data description
3. Select date for single download
4. Choose file type and select spatial resolution desired
5. Visit related websites to download raw data for scientific analysis

**There is also an analysis tool called Image Composite Explorer to compare imagery with basic analysis functions. See [blog](#) for more details

The NEO SOS Archive

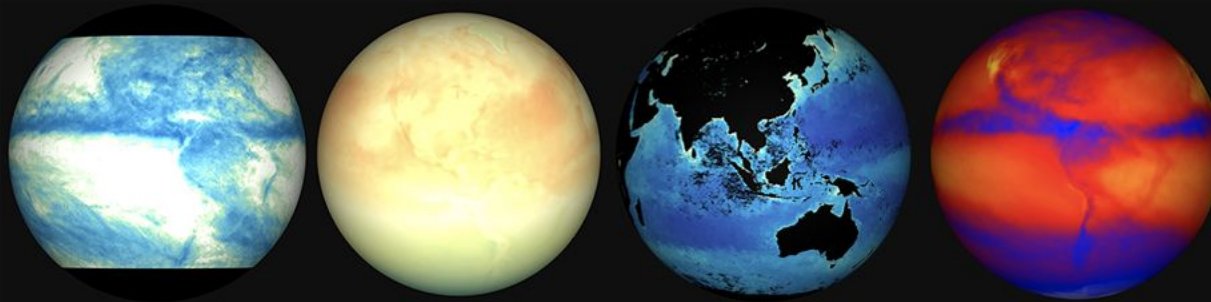
Index of /archive/sos

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
Parent Directory		-	
ActiveFires/	22-Apr-2011 18:41	-	
Index of /archive/sos/ActiveFires/MOD14A1_D_FIRE			
Parent Directory		-	
2048/	18-Nov-2020 05:00	-	
 colorbar.png	23-Aug-2017 15:40	2.3K	
 labels.txt	23-Nov-2020 05:00	117K	
 playlist_2048.sos	23-Aug-2017 15:41	423	
 world.200408.3x2048x1024.png	25-Apr-2011 17:12	1.3M	
SeaIce/	26-Apr-2011 18:47	-	
SeaSurfaceTemperature/	07-Apr-2015 18:40	-	
SeaSurfaceTemperatureAnomaly/	26-Apr-2011 16:50	-	
SnowCover/	26-Apr-2011 17:07	-	
SolarInsolation/	26-Apr-2011 17:59	-	
Vegetation/	18-Sep-2017 19:08	-	
WaterEquivalentAnomaly/	29-Jun-2011 14:53	-	

- 14 datasets available
- Will create more based on request
- Follows the SOS Content Creation Guidelines
- Includes:
 - Labels text file
 - PIP file
 - Time series in 2048 resolution
 - Color bar file

For SOS dataset requests, please contact Kevin Ward and Andi Thomas
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neo.sci.gsfc.nasa.gov



thank you