

NASA Earth Observing System Visualization Tools

Introduction to Remote Sensing and Air Quality Applications
Week 3 Presentation
Winter Webinar Series 2014

ARSET - AQ

Applied Remote Sensing Training – Air Quality

A project of NASA Applied Sciences





https://earthdata.nasa.gov/data/near-real-time-data/rapid-response

EOSDIS NASA's Earth Observing System
Data and Information System

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Discovering Data Data Tools Data Centers **Near Real-Time Data** Standards and References

Near Real-Time Data Land Atmosphere Near Real-time Capability for EOS

Near Real-Time Data

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Worldview

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Web Fire Mapper

MODIS Global Fire Maps

MODIS and OMI Browse

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Learn

► About LANCE

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Support

GET DATA

MODIS

AIRS

MLS

OMI

► Platform

► Hazards and Disasters

NRT HIGHLIGHTS



FIRMS

Download MODIS
fire data



Rapid Response

Get imagery from
MODIS, AIRS,
MLS and OMI



Worldview

Visualize near
real-time data

This presentation focuses on three services available in the RAPID RESPONSE Section of the NEAR-REAL-Time Data portal at NASA's EOSDIS site.



Worldview

Visualize and download subsets of 50+ products from MODIS, AIRS, and OMI for a variety of hazards and disasters categories. **Worldview** is supported by the [Global Imagery Browse Services \(GIBS\)](#) - a set of standard services that delivers imagery in a highly responsive manner.

NOTE: **Worldview** currently does not work with Internet Explorer.



Global Imagery Browse Services (GIBS)

Access global, full-resolution MODIS, AIRS and MLS imagery via a variety of standard services, such as Web Map Tile Services (WMTS), Tiled Web Map Service (TWMS) and KML.



MODIS Subsets

Download a large number of user-specified, geo-referenced and geographically sub-setted images around the world in GIS-compatible format. Examples include most of the AERONET sun photometer sites and the USDA Foreign Agriculture Service (FAS) sites.



MODIS Near Real Time (Orbit Swath) Images

View and download swath images for each five-minute interval for Terra and Aqua MODIS data. Data posted approximately 2.5 hours after the observation at the spacecraft.



Gallery

View and download imagery for interesting events and phenomena from MODIS.



Near Real-Time Data

Land Atmosphere Near Real-time Capability for EOS

- Near Real-Time Data
- ▶ Data
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 - Worldview
 - GIBS
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- Learn
- ▶ About LANCE
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- Support

Home > Data > Near Real-Time Data > Visualization > Rapid Response Visualization

Rapid Response Visualization

Rapid Response provides imagery for approximately 40 products from the MODIS, AIRS, MLS and OMI instruments. All imagery can be viewed through [Worldview](#)*. To help users, the imagery have been organized into 10 application categories to assist users in monitoring and analyzing a variety of natural and man-made **hazards and disasters** (e.g. ash plumes and fires). [MODIS Subsets](#) and [MODIS Near Real-Time \(Orbit Swath\) Images](#) are also available.



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GET DATA

- MODIS
- AIRS
- MLS
- OMI
- ▶ Platform
- ▶ Hazards and Disasters

MODIS Near Real Time Images provides a complete archive of Terra and Aqua true and false color images

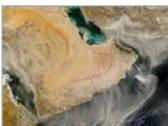
NRT HIGHLIGHTS

- FIRMS**
Download MODIS fire data
- Rapid Response**
Get imagery from MODIS, AIRS, MLS and OMI
- Worldview**
Visualize near real-time data



MODIS Near Real Time (Orbit Swath) Images

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Near Real-Time Data

Land Atmosphere Near Real-time Capability for EOS

- Near Real-Time Data
 - Data
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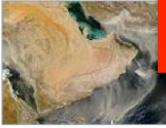
The gallery section is a searchable gallery of high quality MODIS images of selected events such as dust storms, fires, tropical storms, volcanic eruptions, etc.

- ### NRT HIGHLIGHTS
- FIRMS**
Download MODIS fire data
 - Rapid Response**
Get imagery from MODIS, AIRS, MLS and OMI
 - Worldview**
Visualize near real-time data



MODIS Near Real Time (Orbit Swath) Images

View and download swath images for each five-minute interval for Terra and Aqua MODIS data. Data posted approximately 2.5 hours after the observation at the spacecraft.



Gallery

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Near Real-Time Data

Land Atmosphere Near Real-time Capability for EOS

- Near Real-Time Data
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Home > Data > Near Real-Time Data > Visualization > Rapid Response Visualization

Rapid Response Visualization

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GET DATA

- MODIS
- AIRS
- MLS
- OMI
- Platform
- Hazards and Disasters

NRT HIGHLIGHTS

- FIRMS**
Download MODIS fire data
- Rapid Response**
Get imagery from MODIS, AIRS, MLS and OMI
- Worldview**
Visualize near real-time data

Worldview is an easy to use tool to visually examine many remote sensing products at one time against a backdrop of satellite imagery.



MODIS Subsets

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MODIS Near Real Time (Orbit Swath) Images

View and download swath images for each five-minute interval for Terra and Aqua MODIS data. Data posted approximately 2.5 hours after the observation at the spacecraft.



Gallery

View and download imagery for interesting events and phenomena from MODIS.

This part of the presentation will cover the Near Real Time (Orbital Swath) Images features of the Rapid Response section of LANCE

Near Real Time (Orbital Swath) Images

Swath images are generated for each five-minute interval for both Terra and Aqua MODIS data. These data are posted on this page approximately 2.5 hours after the observation at the spacecraft.



Features of the Orbital Swaths section of Rapid Response

1. Images correspond to 5 minute overpass periods referred to as “Granules”
2. Images are available for the entire data record of Terra and Aqua

Near Real Time (Orbit Swath) Images

Date: 2011/223 - 08/11/2011

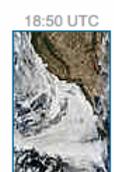
prev

Date: 08/11/2011 Display fa

Terra/MODIS (View Terra Orb



Orbital Swaths images on each page are arranged as follows:
Terra images in the top section
Aqua images in the bottom.



In each section the images are arranged in geographic order with North at the top and East to the left.

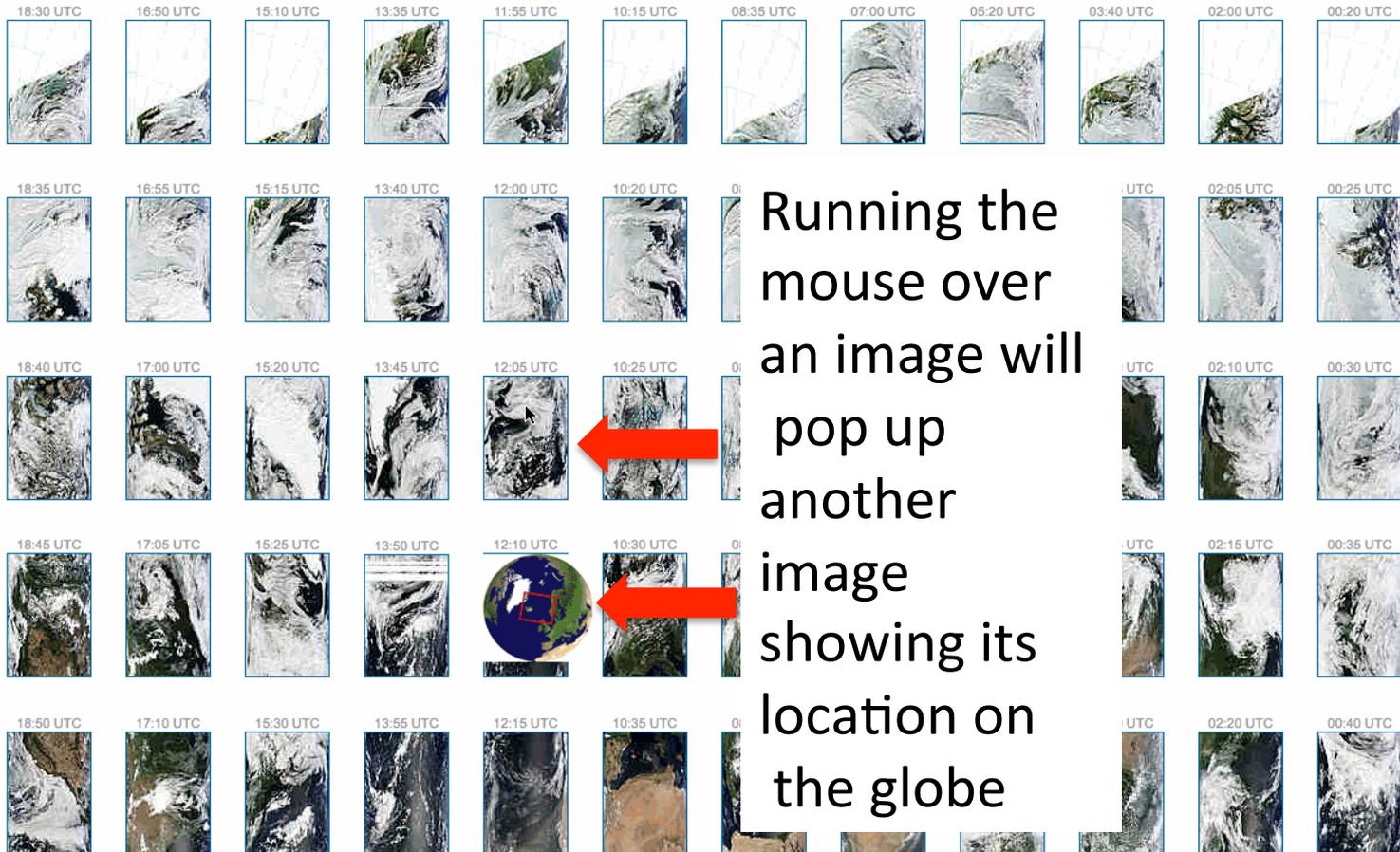
Near Real Time (Orbit S

Date: 2011/223 - 08/11/21

prev

Date: 08/11/2011

Terra/MODIS (View Terra Orbit Tracks)



Running the mouse over an image will pop up another image showing its location on the globe

Near Real Time (Orbit Swath) Images

Date: 2011/223 - 08/11/2011

prev

Date: 08/11/2011

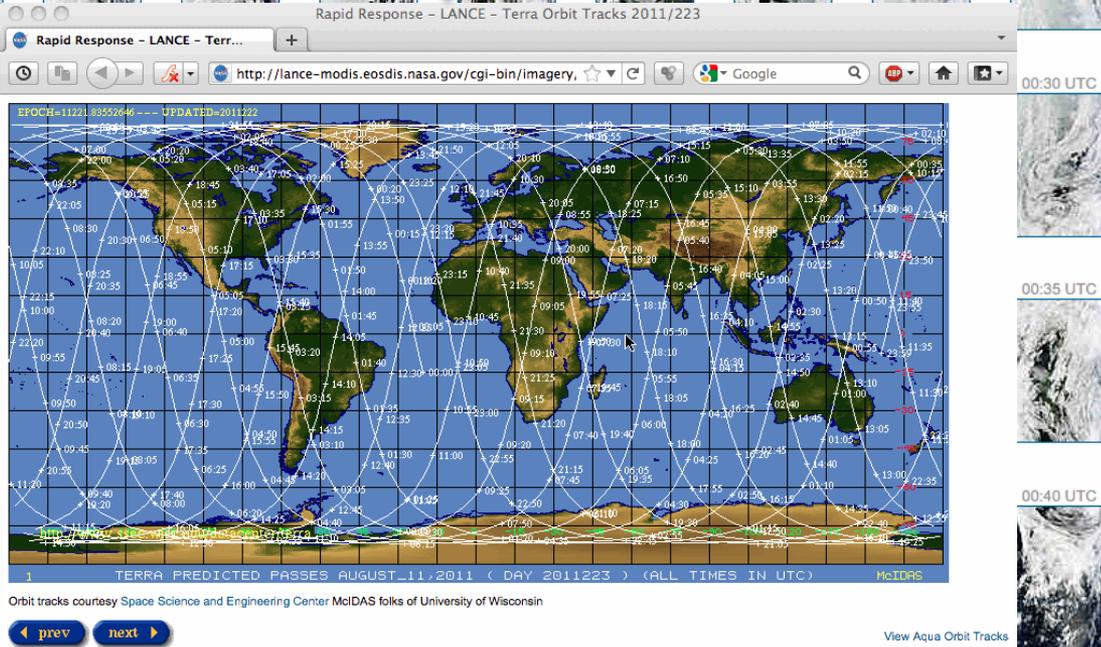
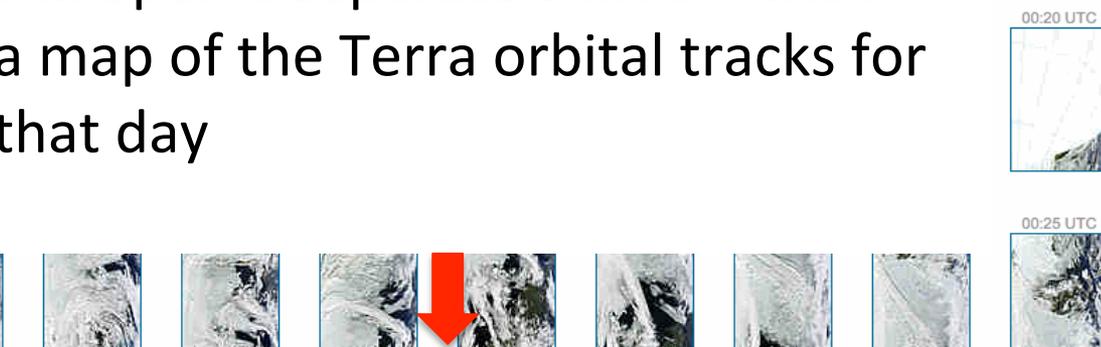
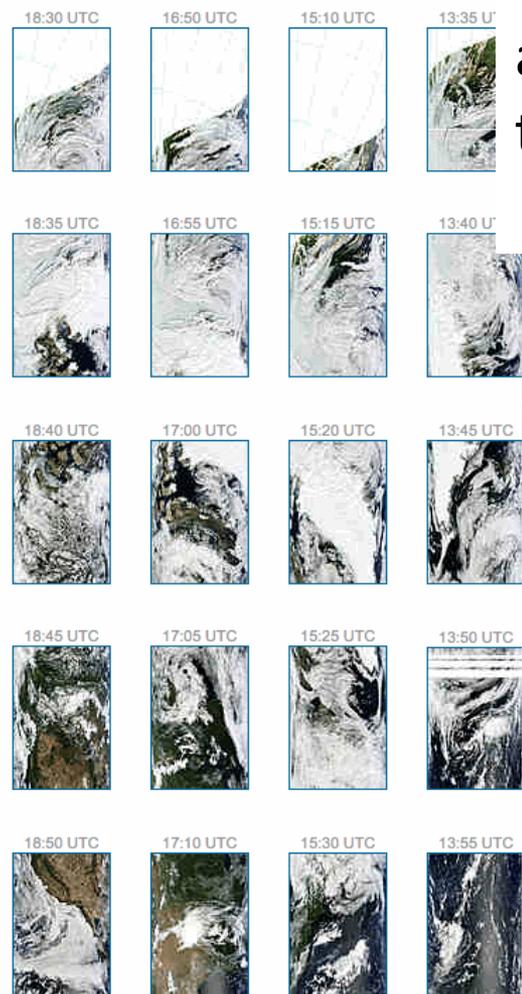
Display false-color with true-color

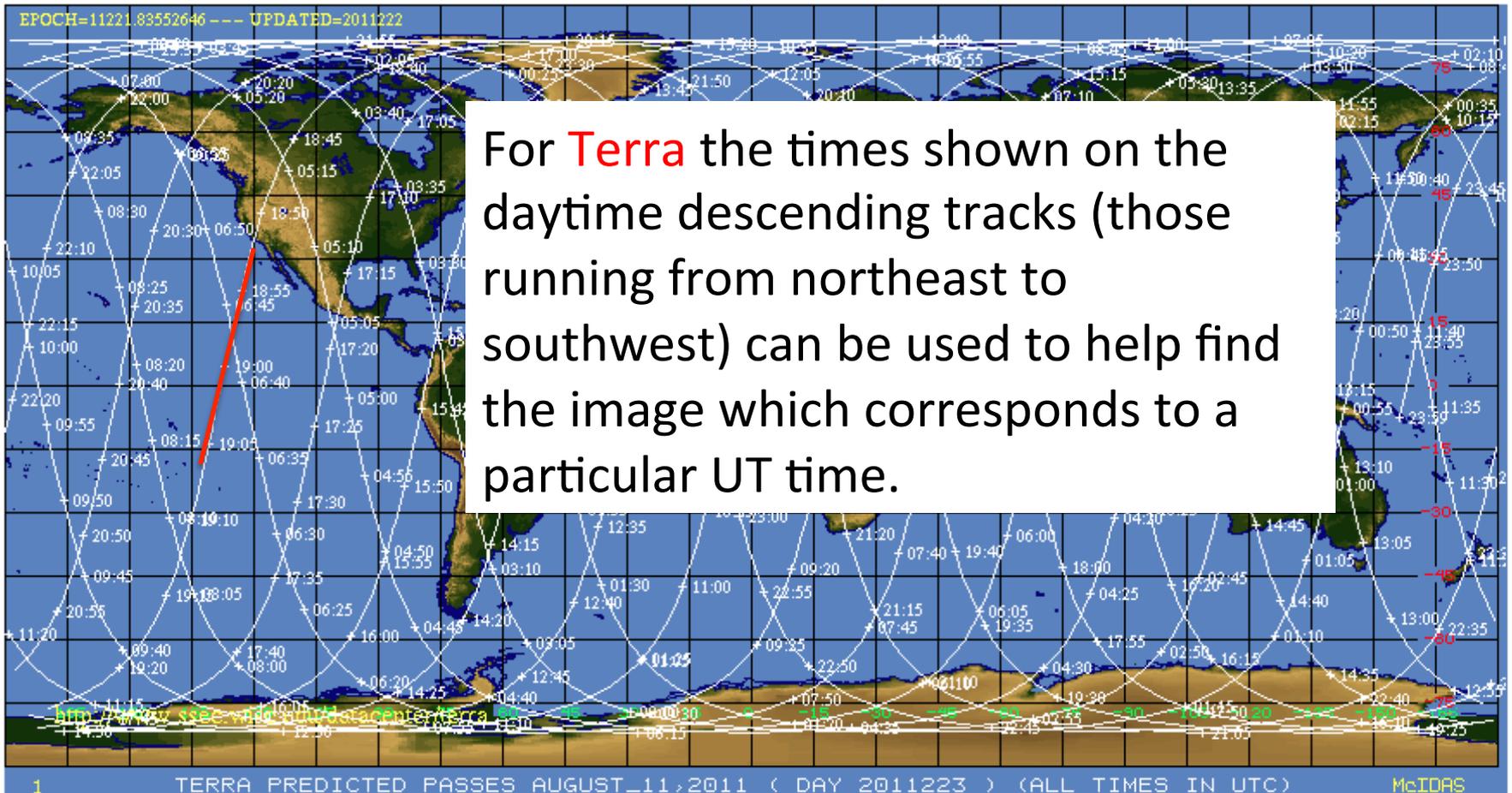
Displ

Usage Guidelines

Clicking on "View Terra Orbit Tracks" will open a separate window with a map of the Terra orbital tracks for that day

Terra/MODIS (View Terra Orbit Tracks)





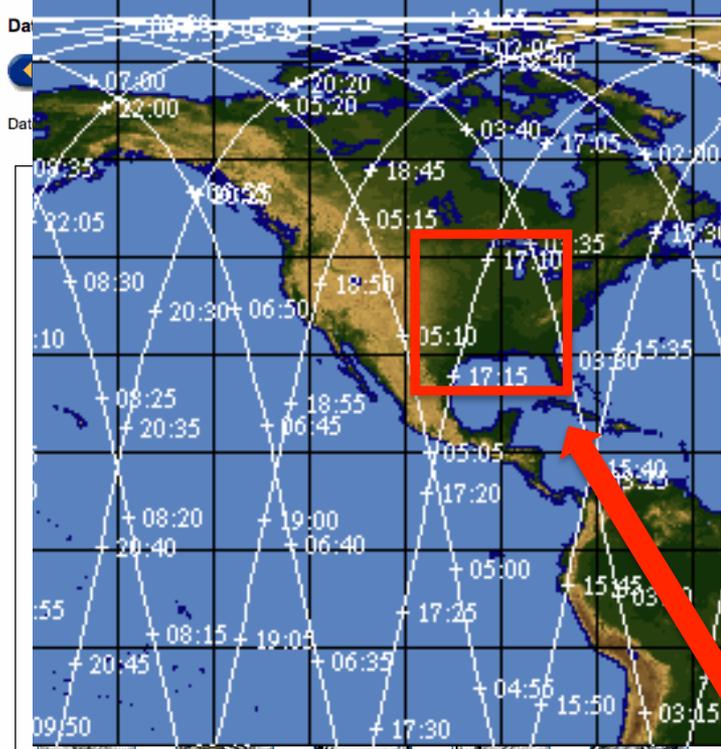
Orbit tracks courtesy [Space Science and Engineering Center](#) McIDAS folks of University of Wisconsin

◀ prev

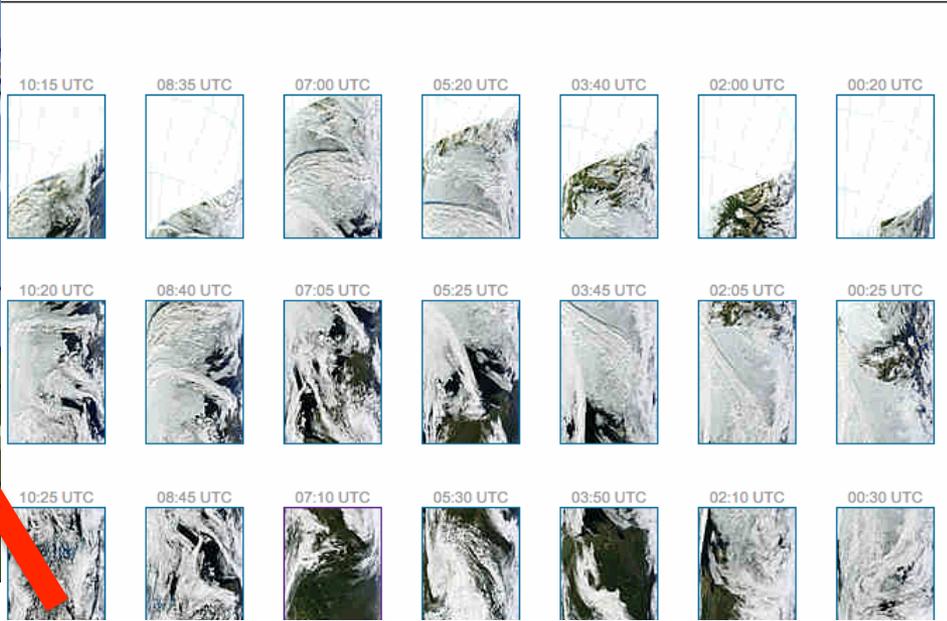
next ▶

[View Aqua Orbit Tracks](#)

Near Real Time (Orbit Swath) Images

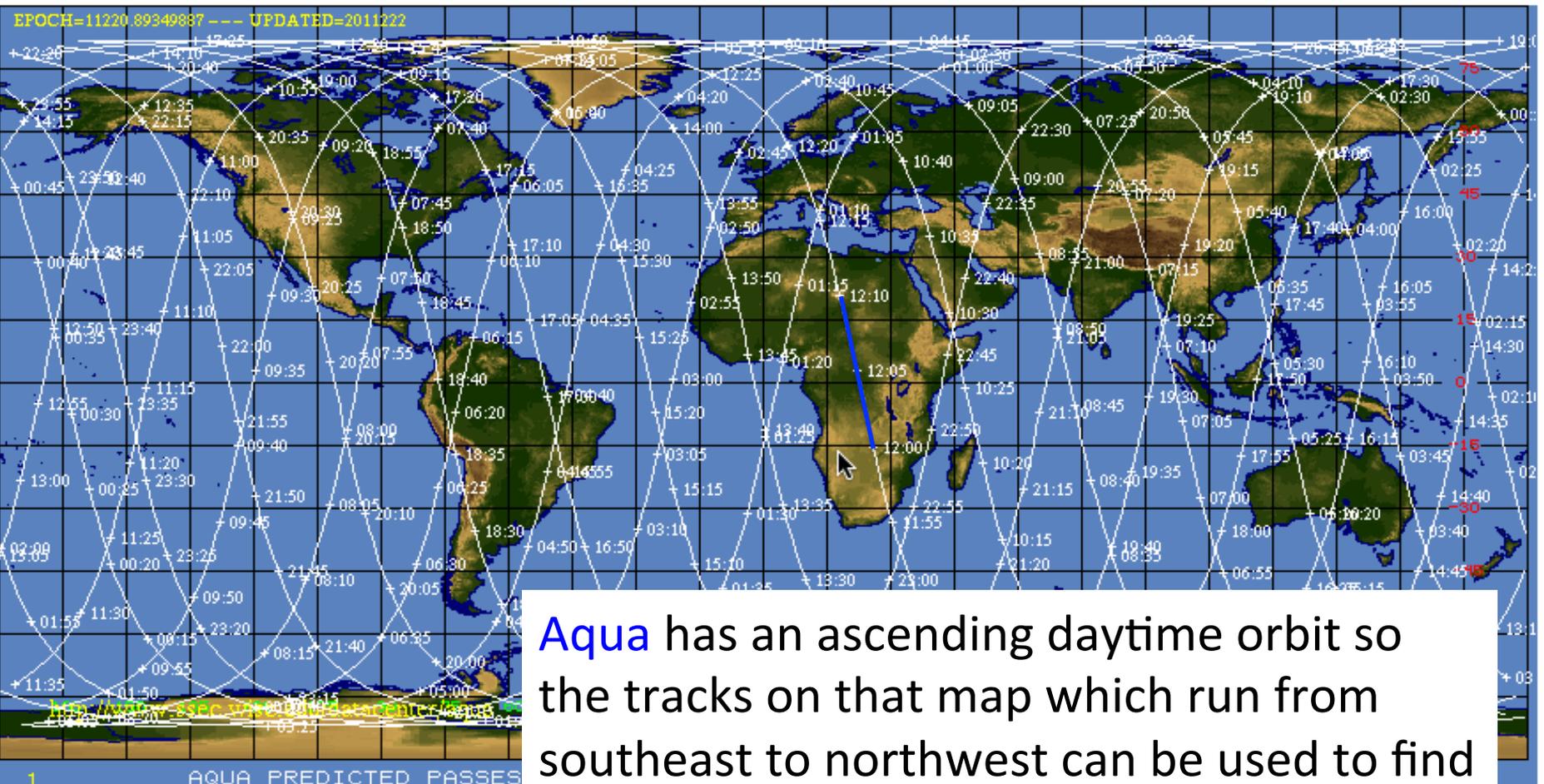


Usage Guidelines



For example if you want to find the image that corresponds to the central U.S., the orbital map shows you that it is the 17:10 UTC image.





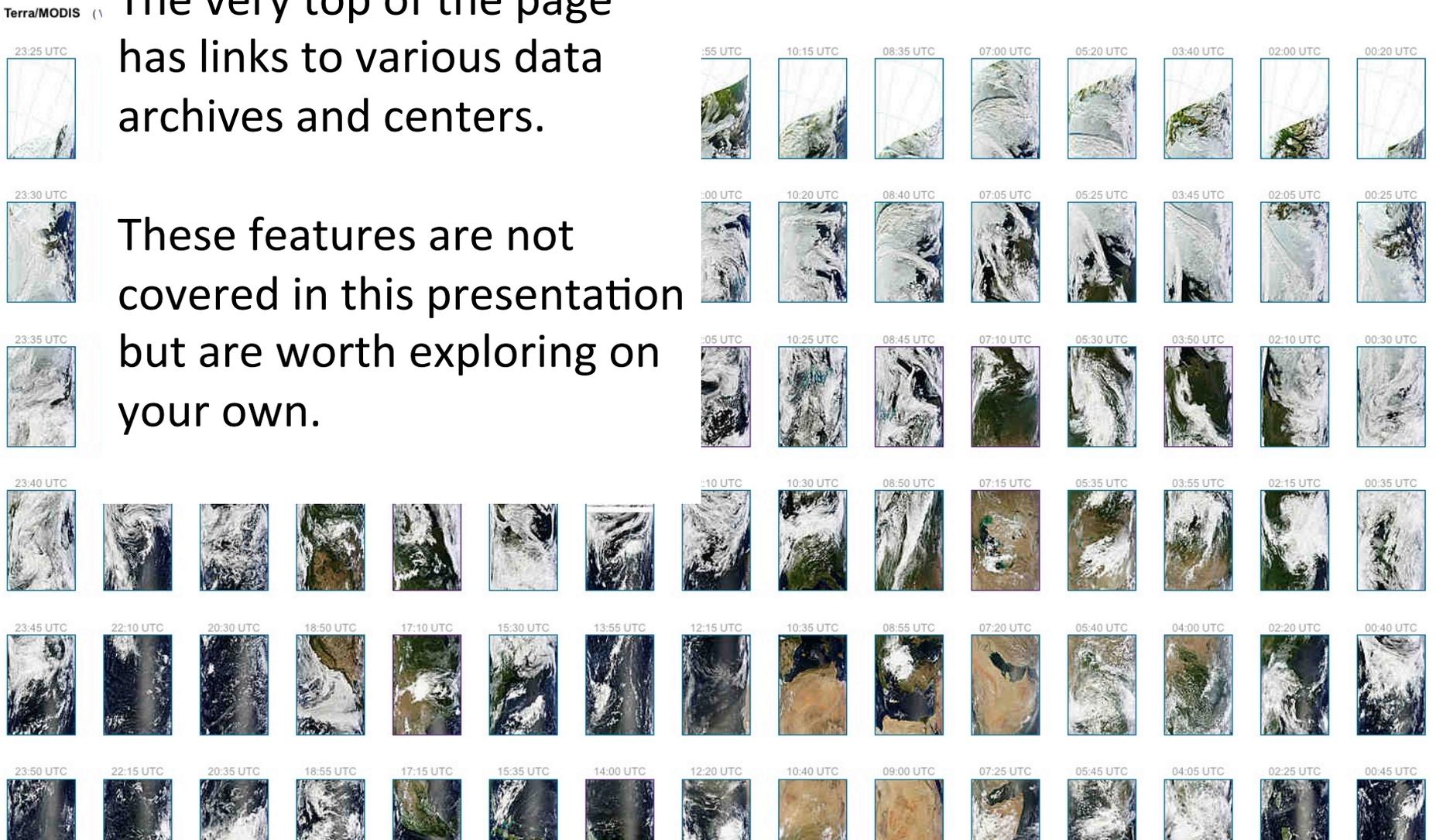
Aqua has an ascending daytime orbit so the tracks on that map which run from southeast to northwest can be used to find images corresponding to a particular time

Orbit tracks courtesy Space Science and Engineering Center



The very top of the page has links to various data archives and centers.

These features are not covered in this presentation but are worth exploring on your own.



Near Real Time (Orbit Swath) Images

Date: 2011/223 - 08/11/2011

◀ prev

Date: 08/11/2011 Display false-color with true-color Display resolution list

Usage Gu

Terra/MODIS (View Terra Orbit Tracks)

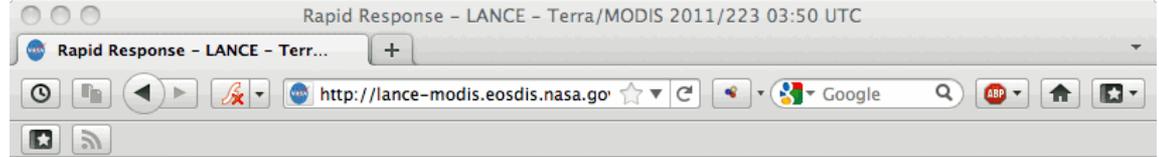


Clicking on one of the small images on this page opens a new window with many imaging options and links to download the original data files used to create the images.

This default image is a true color image at 2 KM resolution

Options to change resolution →

Options to select various band combination images →



Terra/MODIS
2011/223
08/11/2011
03:50 UTC



Pixel sizes:

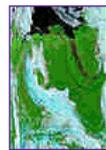
- 4km
- 2km
- 1km
- 500m
- 250m



Bands 1-4-3 (true color)



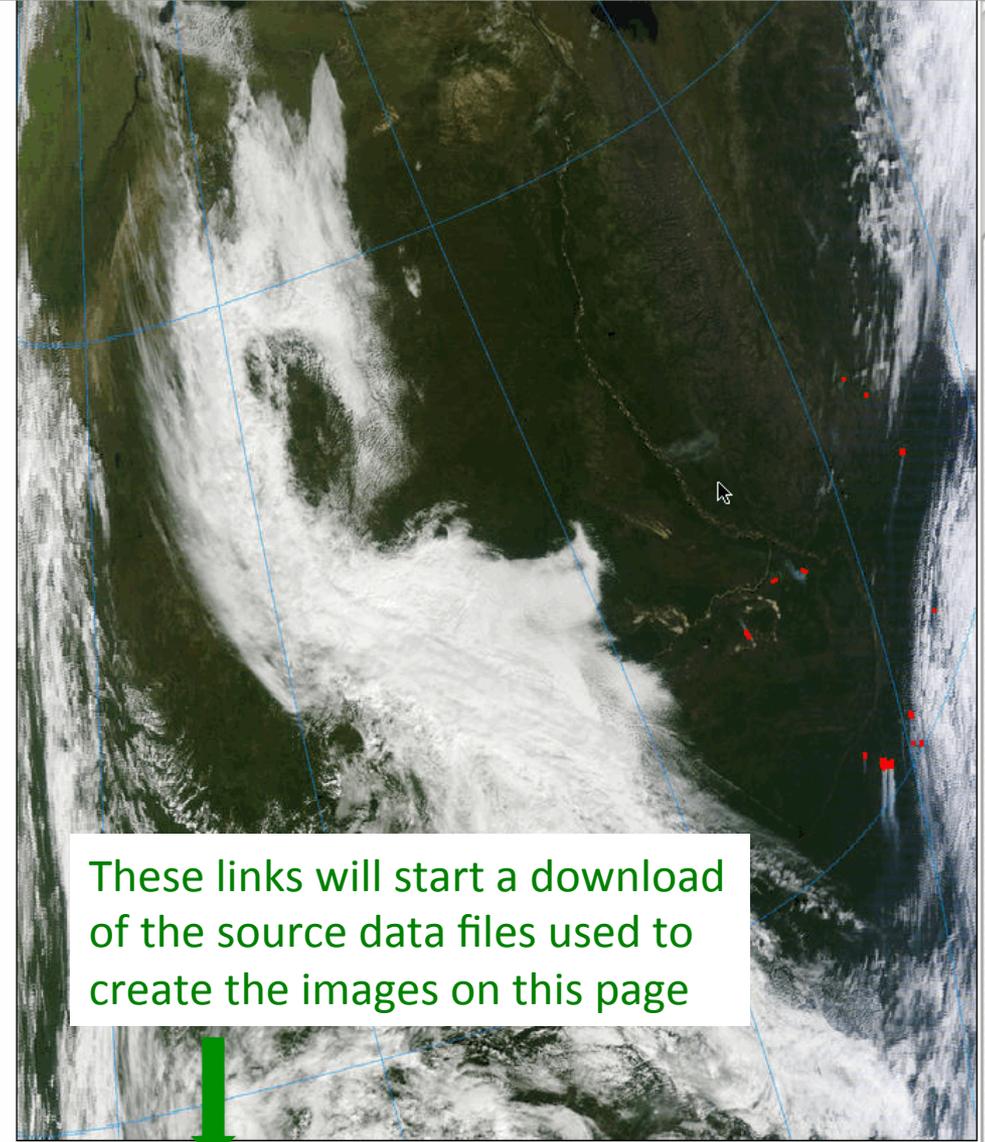
Bands 3-6-7



Bands 7-2-1



Band 31



These links will start a download of the source data files used to create the images on this page

Users may download science quality Level-1B and Geolocation data corresponding to this granule from LAADS Web:

- [MOD021KM.A2011223.0350.005.2011223131825.hdf](#)
- [MOD02HKM.A2011223.0350.005.2011223131825.hdf](#)
- [MOD02QKM.A2011223.0350.005.2011223131825.hdf](#)
- [MOD03.A2011223.0350.005.2011223093644.hdf](#)

The most recent images produced in near real time will have “NRT” in the links to the file downloads

Note the NRT and final products may have significant differences.

Unless you need data in near real time it is always better to use the final products.

Terra/MODIS
2011/223
08/11/2011
17:05 UTC

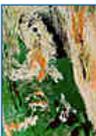
▶ prev
▼ next



Pixel sizes:
4km
2km
1km
500m
250m



Bands 1-4-3 (true color)



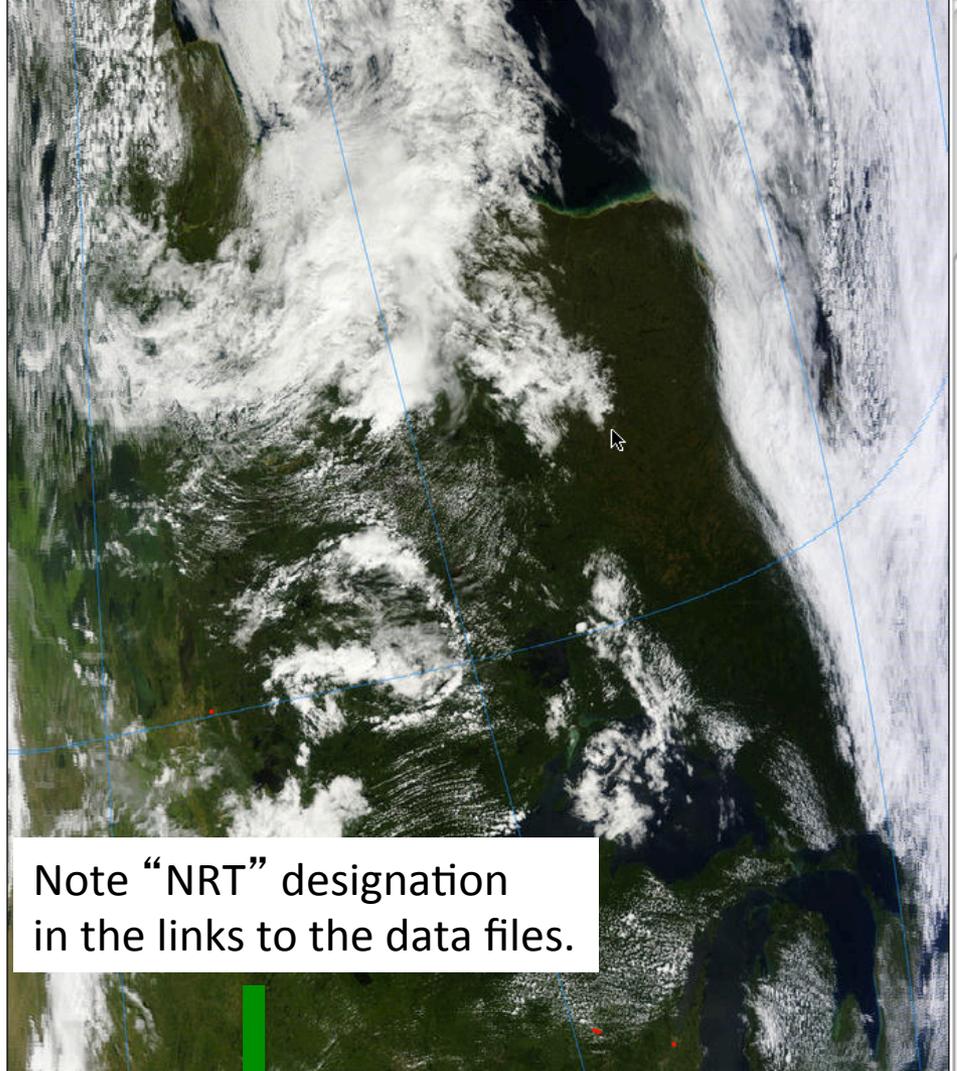
Bands 3-6-7



Bands 7-2-1



Band 31



Note “NRT” designation in the links to the data files.

Users may download near-real time Level-1B and Geolocation data corresponding to this granule from LANCE:

- MOD021KM.A2011223.1705.005.NRT.hdf
- MOD02HKM.A2011223.1705.005.NRT.hdf
- MOD02QKM.A2011223.1705.005.NRT.hdf
- MOD03.A2011223.1705.005.NRT.hdf

This part of the presentation will cover the Gallery features of the Rapid Response section of LANCE

Gallery

A number of images are selected each day and posted on this page as soon as possible after data acquisition. These images are selected because they show some interesting event.



The Gallery features a selection of images of interesting phenomena posted each day.

Rapid Response - LANCE - Gall...

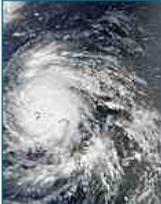
http://lance-modis.eosdis.nasa.gov/cgi-bin/imagery/gallery.c...

NASA Earth Data Data Discovery Data Centers Community Science Disciplines Search EOSDIS

Gallery

Date: Keyword: [Search by keyword](#)

[Display most recent images](#)

Most Recent Images		
<p>Date: 2011/236 - 08/24</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>15:05 UTC Hurricane Irene (09L) over the Bahamas Satellite: Terra</p>	<p>Date: 2011/235 - 08/23</p> <p>Pixel size: 1km 500m 250m</p>  <p>17:35 UTC Smoke and fires in north central United States Satellite: Terra</p>	<p>Date: 2011/235 - 08/23</p> <p>Pixel size: 1km 500m 250m</p>  <p>09:20 UTC Greece Satellite: Terra</p>
<p>Date: 2011/234 - 08/22</p> <p>Pixel size: 1km 500m 250m</p>  <p>16:55 UTC Iceberg P11-A splits in two off Newfoundland (afternoon overpass) Satellite: Aqua</p>	<p>Date: 2011/234 - 08/22</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>15:20 UTC Hurricane Irene (09L) over Puerto Rico Satellite: Terra</p>	<p>Date: 2011/234 - 08/22</p> <p>Pixel size: 1km 500m 250m</p>  <p>15:10 UTC Iceberg P11-A splits in two off Newfoundland Satellite: Terra</p>
<p>Date: 2011/234 - 08/22</p> <p>Pixel size: 1km 500m 250m</p>  <p>10:15 UTC Italy Satellite: Terra</p>	<p>Date: 2011/233 - 08/21</p> <p>Pixel size: 1km 500m 250m</p>  <p>19:05 UTC Southernmost Argentina and Chile Satellite: Aqua</p>	<p>Date: 2011/233 - 08/21</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>17:45 UTC Tropical Storm Irene (09L) approaching Puerto Rico Satellite: Aqua</p>
<p>Date: 2011/231 - 08/19</p> <p>Pixel size: 1km 500m 250m</p>  <p>19:15 UTC Eruption of Puyehue-Cordón Caulle volcano, Chile Satellite: Aqua</p>	<p>Date: 2011/230 - 08/18</p> <p>Pixel size: 1km 500m 250m</p>  <p>10:35 UTC Activity at Nabro volcano, Eritrea Satellite: Aqua</p>	<p>Date: 2011/229 - 08/17</p> <p>Pixel size: 1km 500m 250m</p>  <p>10:05 UTC Phytoplankton bloom in the Barents Sea Satellite: Aqua</p>

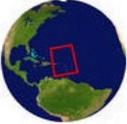
Clicking on an image thumbnail will load a high resolution image with links that allow you to download a Google Earth or GIS file of the image.

Rapid Response - LANCE - Aqua...

http://lance-modis.eosdis.nasa.gov/cgi-t

Aqua/MODIS
2011/233
08/21/2011
17:45 UTC

Tropical Storm
Irene (09L)
approaching Puerto
Rico

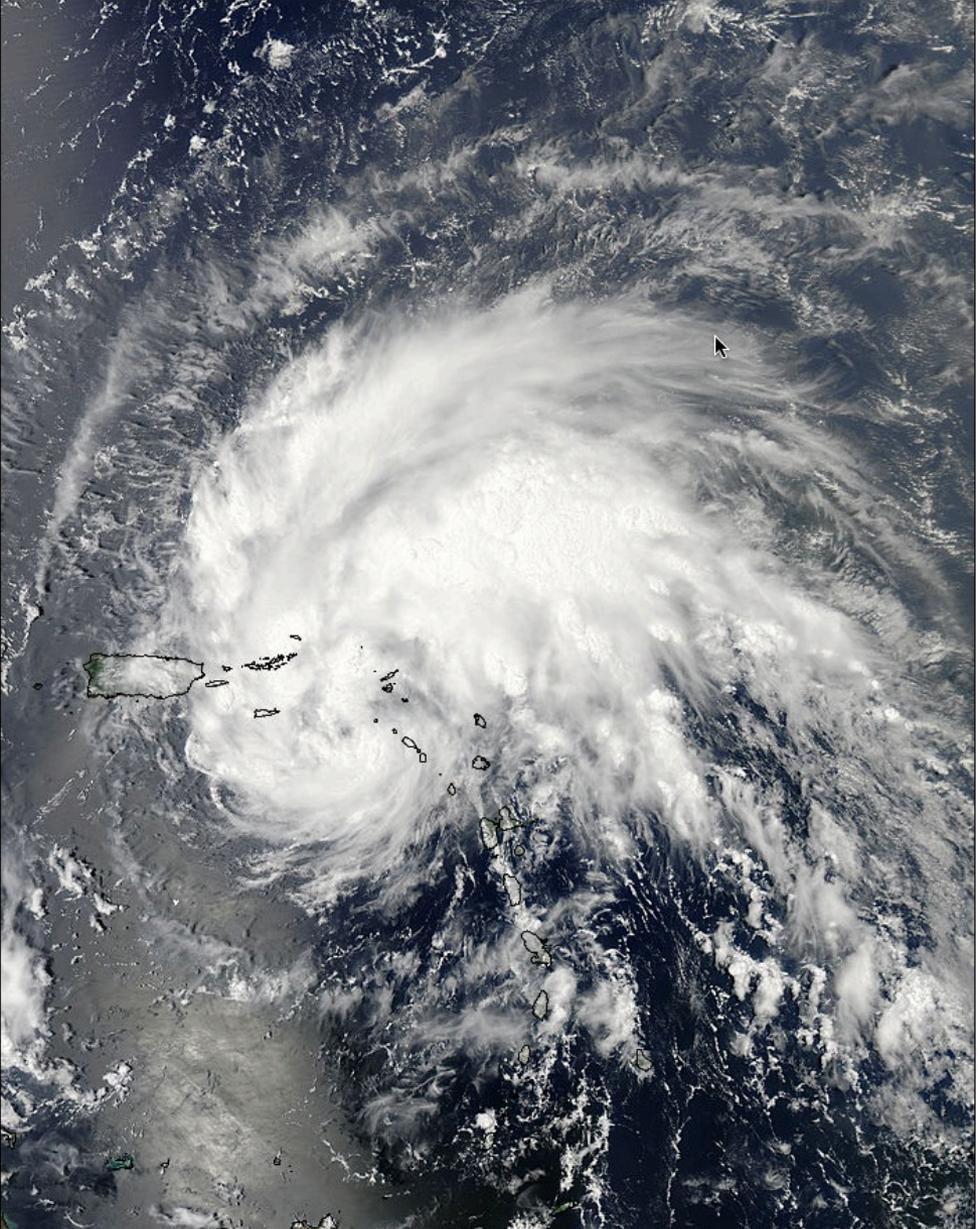


Pixel sizes:
2km
1km
500m
250m

[More information](#)

[Download a world file
\(for GIS\)](#)

[Download a KML file
\(for Google Earth\)](#)



Rapid Response - LANCE - Gallery

http://lance-modis.eosdis.nasa.gov/cgi-bin/imagery/gallery.c...

NASA Earth Data Data Discovery Data Centers Community Science Disciplines Search EOSDIS

Gallery

Date: Keyword:

[Display most recent images](#)

Search Results: Fires AND South America

<p>Date: 2011/206 - 07/25</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>17:50 UTC Fires in central South America Satellite: Aqua</p>	<p>Date: 2010/251 - 09/08</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>17:55 UTC Fires and smoke in South America Satellite: Aqua</p>	<p>Date: 2010/235 - 08/23</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>17:55 UTC Fires and smoke in South America Satellite: Aqua</p>
<p>Date: 2010/234 - 08/22</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>17:10 UTC Smoke and fires in South America Satellite: Aqua</p>	<p>Date: 2010/228 - 08/16</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>17:50 UTC Fires in South America Satellite: Aqua</p>	<p>Date: 2010/223 - 08/11</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>17:30 UTC Fires in South America Satellite: Aqua</p>
<p>Date: 2010/219 - 08/07</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>17:55 UTC Fires in South America Satellite: Aqua</p>	<p>Date: 2009/241 - 08/29</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>17:45 UTC Fires in South America Satellite: Aqua</p>	<p>Date: 2008/239 - 08/26</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>17:45 UTC Fires in central South America Satellite: Aqua</p>
<p>Date: 2007/275 - 10/02</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>17:50 UTC Smoke and fires across central South America Satellite: Aqua</p>	<p>Date: 2007/247 - 09/04</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>17:25 UTC Fires and smoke across central South America Satellite: Aqua</p>	<p>Date: 2006/235 - 08/23</p> <p>Pixel size: 2km 1km 500m 250m</p>  <p>17:35 UTC Fires and smoke across South America Satellite: Aqua</p>

The Gallery can also be searched using multiple search terms.

Search terms must be connected using “AND” or “OR” (they do not have to be in quotes)

The images here were returned from the search “Fires and South America”

This last section of this presentation will cover the Worldview visualization tool

http://earthdata.nasa.gov/data/near-real-time-data/visualization/worldview

Near Real-Time Data

Land Atmosphere Near Real-time Capability for EOS

- Near Real-Time Data
 - Data
 - Visualization
 - Worldview
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Home > Data > Near Real-Time Data > Visualization > Worldview

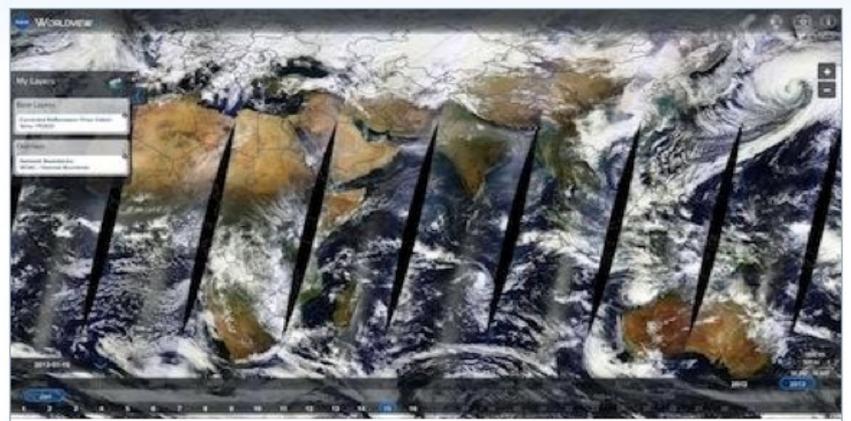
Worldview

Interactively browse full-resolution, global, near real-time satellite imagery from 50+ data products from LANCE.

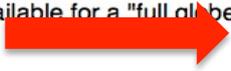
In essence, **Worldview*** shows the entire Earth as it looks "right now" - or at least as it has looked within the past few hours. Worldview supports time-critical application areas such as wildfire management, air quality measurements, and weather forecasting.

The imagery is generally available within three hours of observation and can easily be compared to observations from the past - just click or drag the time sliders at the bottom of the page. Imagery is available from May 2012 onward and we are working to provide access to earlier dates.

Arctic and Antarctic polar stereographic views of the Arctic and Antarctic are also available for a "full globe" view.



Select "Launch Worldview"



Currently Worldview only contains visualization data from May 2012 through the present.

Browsing on tablet devices (iPad 2+ recommended) is currently supported for mobile access to this spacecraft imagery while in the field or on the couch. Please note, however, that this is an alpha (preview) release and many features are still under development. Comments and feedback are welcome. [Learn more about Worldview.](#)

Please also note that Worldview is currently only available on larger displays and can be accessed [here](#).

On the backend, Worldview is supported by the **Global Imagery Browse Services (GIBS)** – a new set of standard services provided by EOSDIS to deliver global, full-resolution satellite imagery in a highly responsive manner. GIBS enable interactive exploration of NASA's Earth imagery for a broad range of users. GIBS serve the imagery to any internet-enabled client.

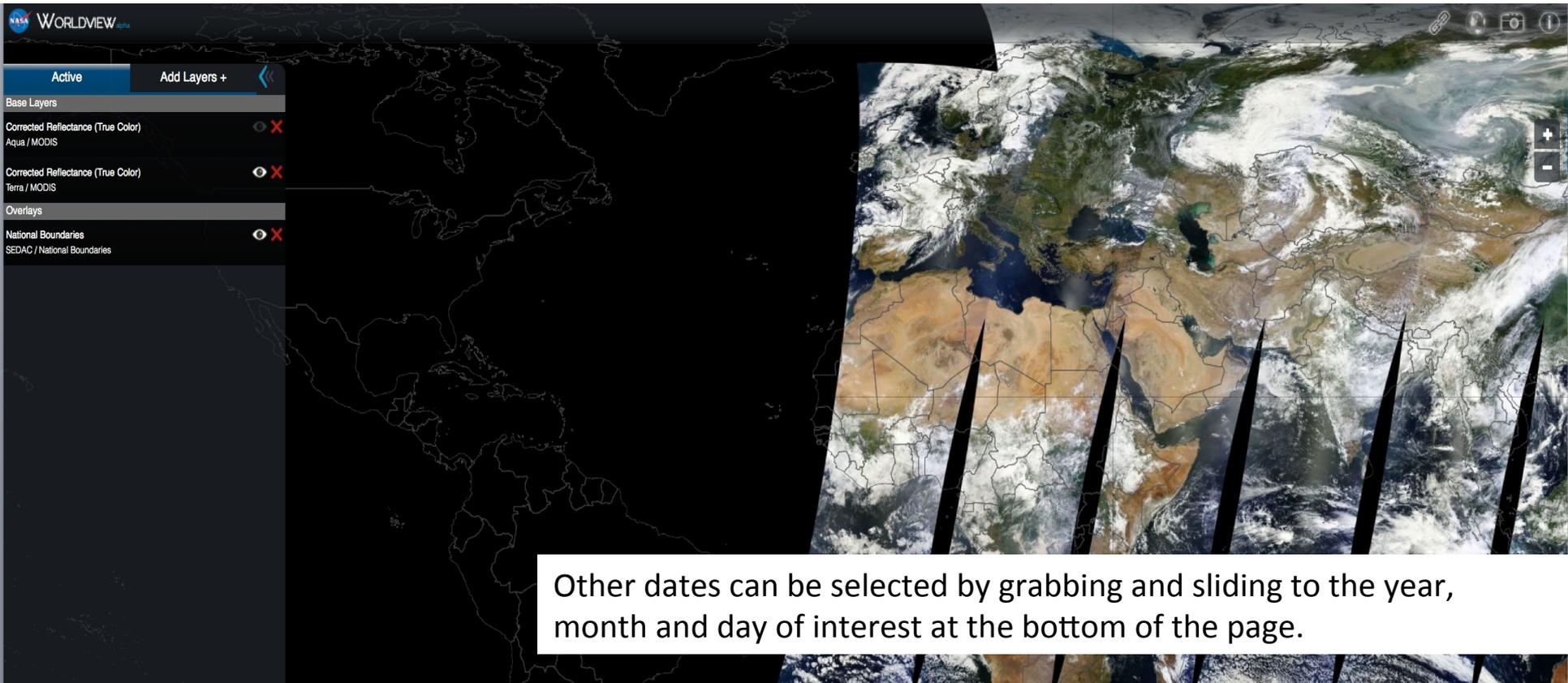
* Worldview currently does not work with Internet Explorer

- GET DATA
- MODIS
 - AIRS
 - MLS
 - OMI
 - Platform
 - Hazards and Disasters

NRT HIGHLIGHTS



On launch Worldview will display the current day's MODIS true color imagery within a few hours of the actual overpass time.



Other dates can be selected by grabbing and sliding to the year, month and day of interest at the bottom of the page.

You can hide and reveal the date bar using the arrow at the bottom left of the page.



Active Add Layers +

All ex. modis, terra, fire

Base Layers

- Corrected Reflectance (True Color) Terra / MODIS
- Corrected Reflectance (True Color) Aqua / MODIS
- Land Surface Reflectance (True Color) Terra / MODIS
- Land Surface Reflectance (True Color) Aqua / MODIS
- Land Surface Reflectance (1-2-1) Terra / MODIS
- Land Surface Reflectance (1-2-1) Aqua / MODIS

Overlays

- Aerosol Optical Depth Terra / MODIS
- Aerosol Optical Depth Aqua / MODIS
- MODIS Combined Value-Added Aerosol Optical Depth Terra and Aqua / MODIS
- Brightness Temperature (Band 31-Day) Terra / MODIS
- Brightness Temperature (Band 31-Night) Terra / MODIS
- Brightness Temperature (Band 31-Day) Aqua / MODIS

Click on the "Add Layers" tab to access additional display options.

"Basic Layers" allows you to select a variety of true and false color images as the background. Only one background image can be selected at one time

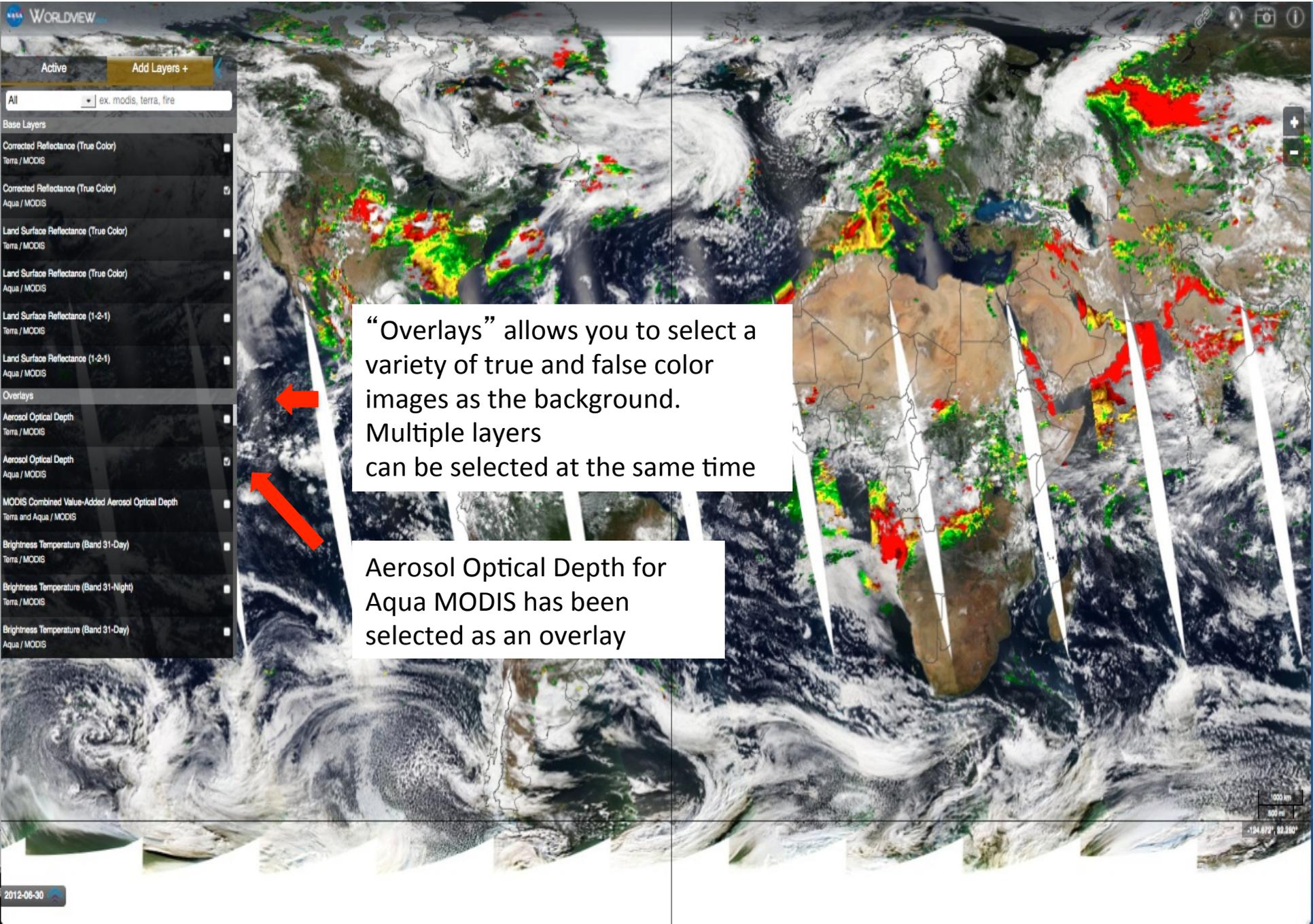
Aqua true color has been selected for this display

2012-06-30

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

May Jun Jul Aug Sep Oct Nov

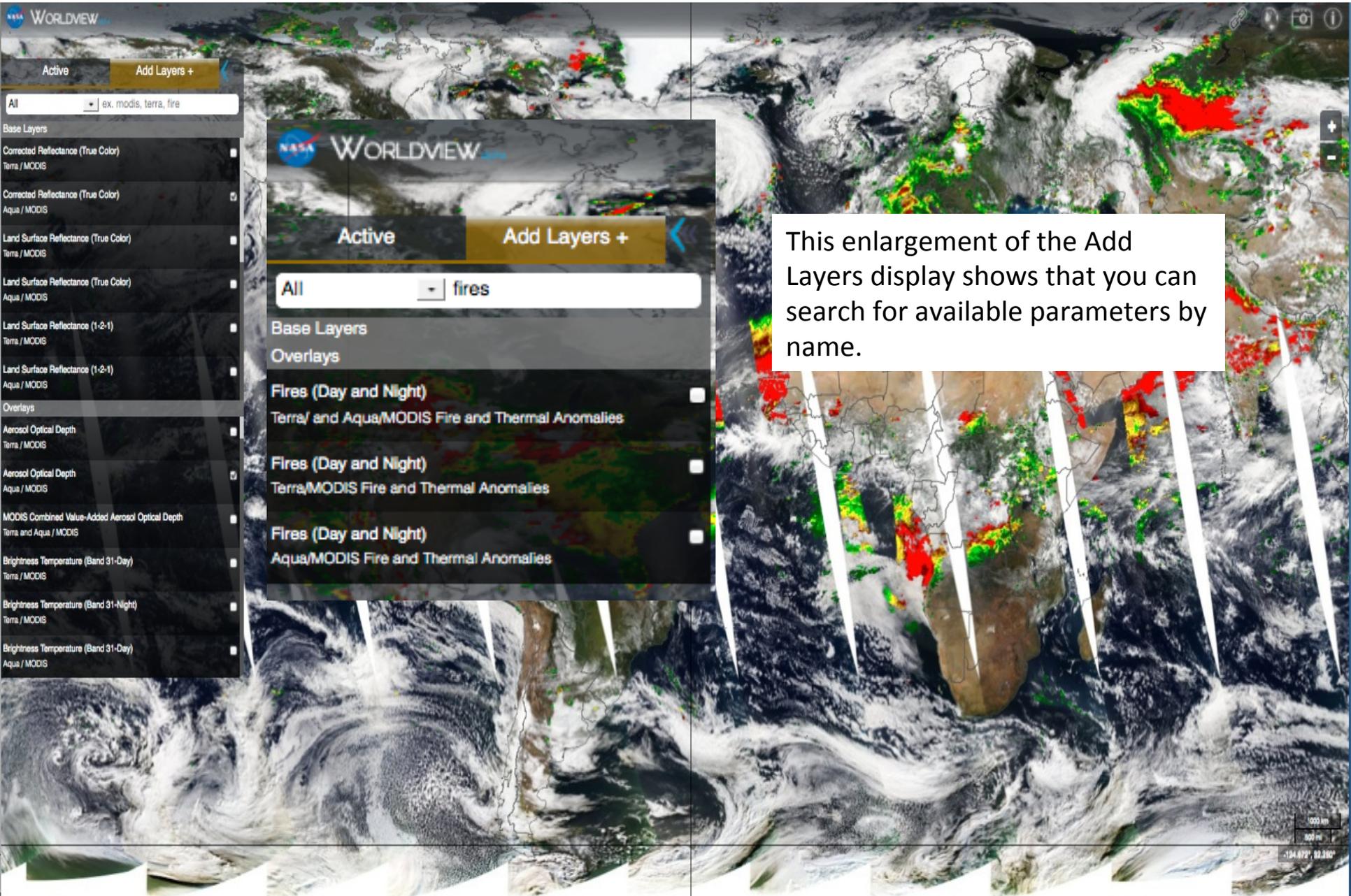
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



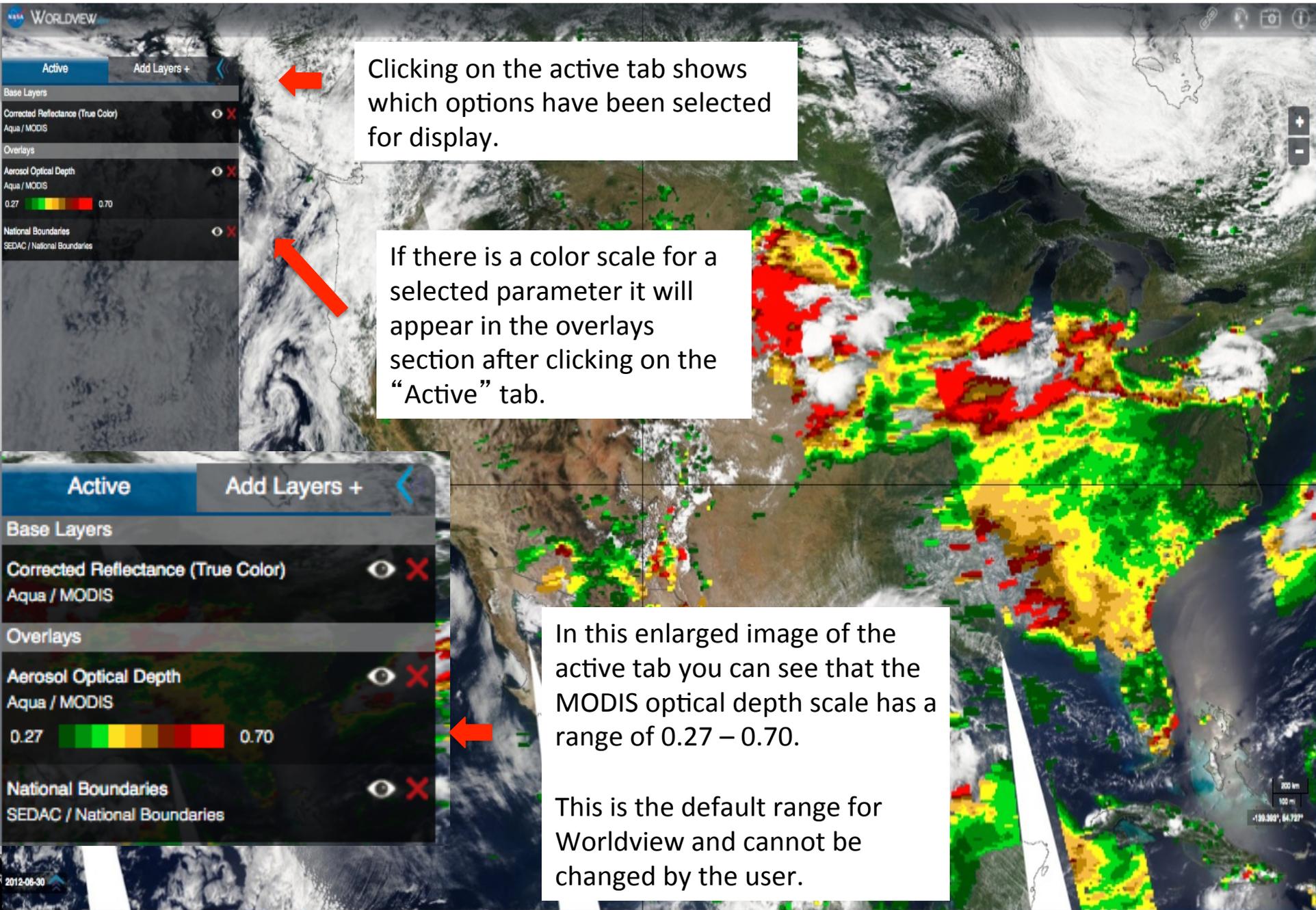
“Overlays” allows you to select a variety of true and false color images as the background. Multiple layers can be selected at the same time

Aerosol Optical Depth for Aqua MODIS has been selected as an overlay

- Active Add Layers +
- All ex. modis, terra, fire
- Base Layers
 - Corrected Reflectance (True Color) Terra / MODIS
 - Corrected Reflectance (True Color) Aqua / MODIS
 - Land Surface Reflectance (True Color) Terra / MODIS
 - Land Surface Reflectance (True Color) Aqua / MODIS
 - Land Surface Reflectance (1-2-1) Terra / MODIS
 - Land Surface Reflectance (1-2-1) Aqua / MODIS
- Overlays
 - Aerosol Optical Depth Terra / MODIS
 - Aerosol Optical Depth Aqua / MODIS
 - MODIS Combined Value-Added Aerosol Optical Depth Terra and Aqua / MODIS
 - Brightness Temperature (Band 31-Day) Terra / MODIS
 - Brightness Temperature (Band 31-Night) Terra / MODIS
 - Brightness Temperature (Band 31-Day) Aqua / MODIS



This enlargement of the Add Layers display shows that you can search for available parameters by name.



Clicking on the active tab shows which options have been selected for display.

If there is a color scale for a selected parameter it will appear in the overlays section after clicking on the “Active” tab.

In this enlarged image of the active tab you can see that the MODIS optical depth scale has a range of 0.27 – 0.70.

This is the default range for Worldview and cannot be changed by the user.

