


A satellite map of Brazil showing fire data. Red dots indicate fire locations, and white plumes represent smoke. Labels on the map include 'Peixoto de Azevedo', 'Indigena Terena Gleba Irim', 'Brazill', 'Marcelândia', 'Sinop', 'Mato Grosso', 'Feliz Natal', 'Terra Indigena Waw', and 'Terra Indigena Waw'.

# NASA's Fire Information for Resource Management System (FIRMS): Near Real-Time Global Fire Monitoring using Data from MODIS and VIIRS


Presented by Diane Davies  
NASA LANCE Operations Manager


Diane Davies<sup>1,2</sup>, Greg Ederer<sup>3</sup>, Otmar Olsina<sup>3</sup>, Minnie Wong<sup>2</sup>, Matthew Cechini<sup>2</sup>, Ryan Boller<sup>4</sup>  
Trigg-Davies Consulting Ltd, UK <sup>2</sup>Science Systems and Applications Inc. / NASA GSFC, USA. <sup>3</sup>Global. Science & Technology Inc./ NASA GSFC, USA <sup>4</sup>NASA GSFC, USA


 EARTHDATA


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Feedback ?


 **FIRMS**  
Fire Information for Resource Management System







 FIRE MAP

 ACTIVE FIRE DATA

 FIRE ALERTS

 ARCHIVE  
DOWNLOAD

 WEB SERVICES

[Earth Observation Data](#) • [LANCE: NASA Near Real-Time Data and Imagery](#) • **Fire Information for Resource Management System (FIRMS)**

## FIRE INFORMATION FOR RESOURCE MANAGEMENT SYSTEM (FIRMS)



The Fire Information for Resource Management System (FIRMS) distributes Near Real-Time (NRT) active fire data within 3 hours of satellite observation from both the Moderate Resolution Imaging Spectroradiometer (MODIS) and the Visible Infrared Imaging Radiometer Suite (VIIRS).

The active fire / hotspot data can be viewed in [FIRMS Fire Map](#) or in [NASA's Worldview](#), delivered as email alerts or downloaded in the following formats: [SHP](#), [KML](#), [TXT](#), [WMS](#)

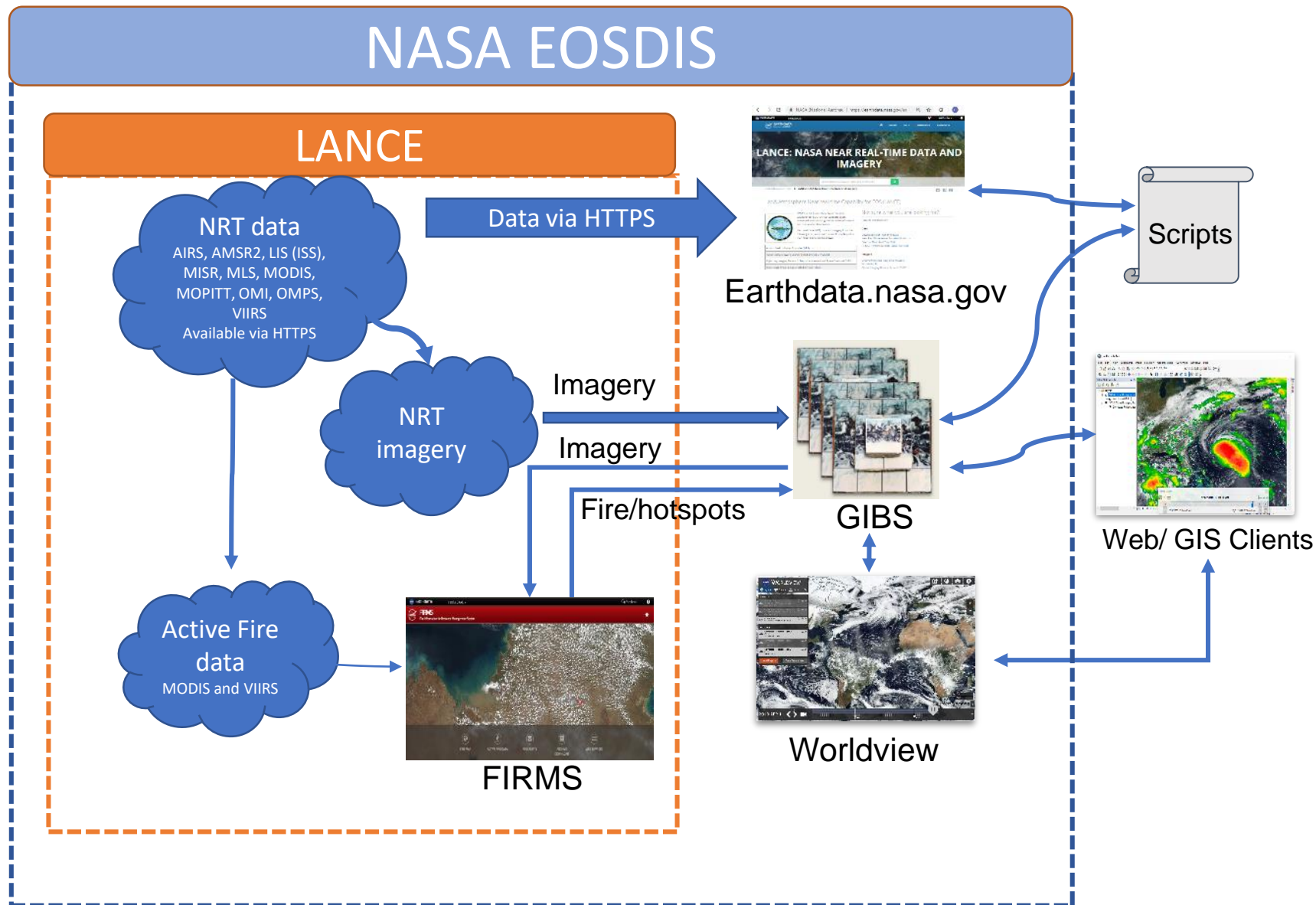
FIRMS is part of NASA's Land, Atmosphere Near real-time Capability for EOS (LANCE).

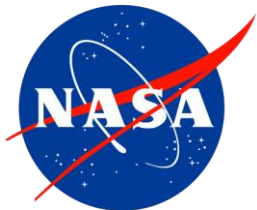
<https://firms.modaps.eosdis.nasa.gov/> or <https://earthdata.nasa.gov/firms>





# FIRMS - LANCE - EOSDIS





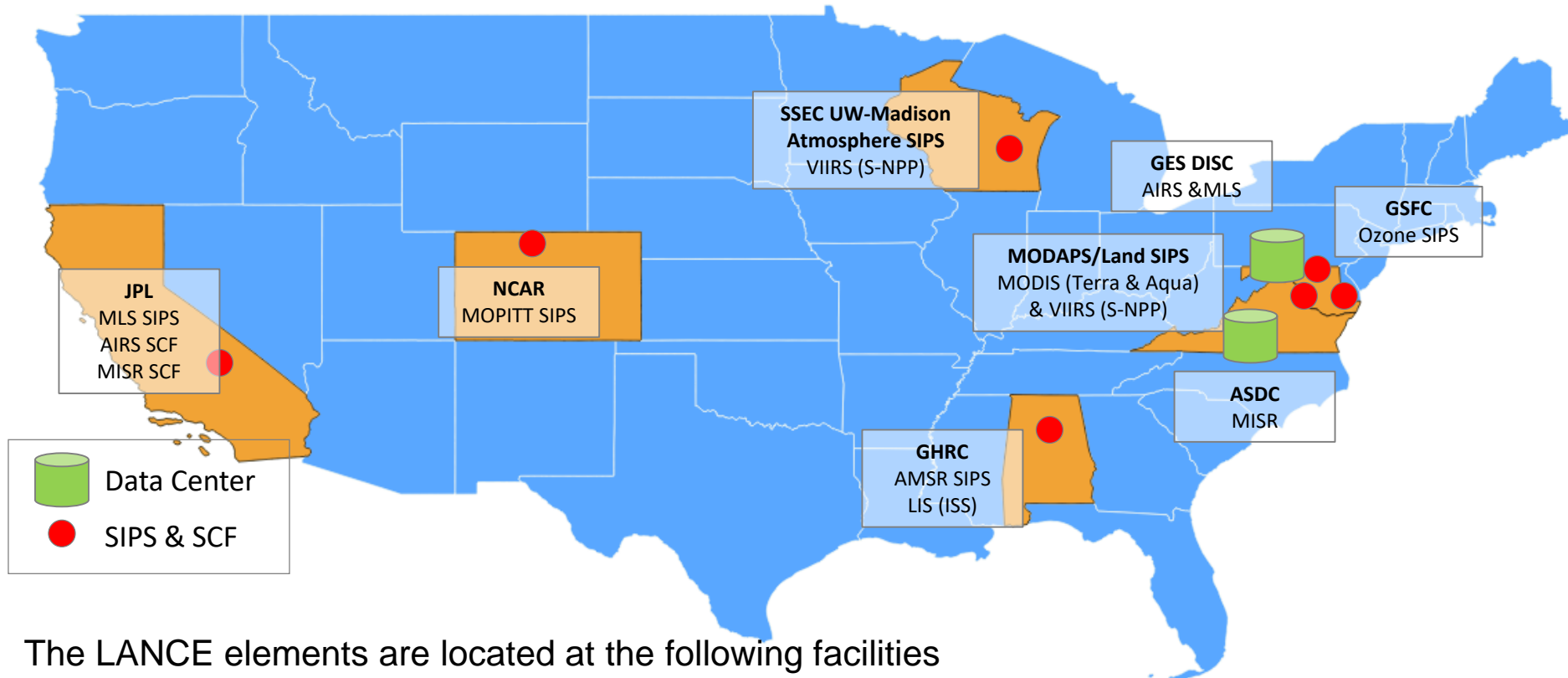
# Land, Atmosphere Near Real-time Capability for Earth Observing Systems (LANCE)

- NASA LANCE provides near real-time data and imagery much quicker than routine processing allows - to meet the timely needs of applications users
- Data products are available within 3 hours. Imagery generally takes another 1-2 hours.
- LANCE is used by a broad range of users including: natural resource managers, those monitoring hazards and disasters, scientists and researchers monitoring and analyzing natural and man-made phenomena, the press and members of the public.
- More information: <https://earthdata.nasa.gov/lance>



*LANCE products are used for monitoring: Air Quality, Dust Storms, Fires, Smoke Plumes, Crops, Drought, Floods, Volcanic Eruptions, Ash plumes, Sea Ice and Severe Storms*

# LANCE FACILITIES



The LANCE elements are located at the following facilities

- **GSFC Earth Sciences Data and Information Services Center (GES DISC)** is providing AIRS with support from the AIRS Science Computing Facility (SCF) at JPL , and MLS data via the MLS SIPS at JPL
- **Atmospheric Science Data Center (ASDC)** is providing MISR data with support from the MISR SCF at JPL
- **AMSR Science Investigator-led Processing System (SIPS)** is providing AMSR2 and LIS data
- **MODIS Adaptive Processing System (MODAPS) and Land SIPS** are providing MODIS and VIIRS Land data
- **Ozone Science Investigator-led Processing System (SIPS)** is providing OMI and OMPS data
- **MOPITT SIPS (National Center for Atmospheric Research (NCAR))** is providing MOPITT data
- **Atmosphere SIPS (Space Science and Engineering Center (SSEC) University of Wisconsin)** is providing VIIRS Atmosphere data

# Earth Science Data Operations

## Earth Science Mission Operations

## ESDIS

### Data Acquisition

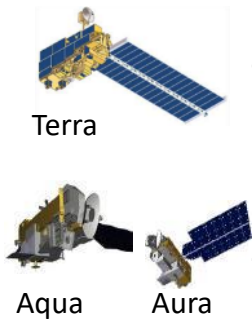
### Data Capture & Processing

### Data to SIPS

### Science Data Processing & Distribution

### Distribution & Access

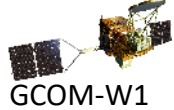
#### EOS Spacecraft



#### NOAA – NASA Spacecraft



#### JAXA Spacecraft



#### International Space Station

TDRSS

Ground Stations

JPSS SMD Hub (JSH)

Direct Broadcast / Readout Stations

EDOS Front End Processing: data capture

WAN Transfer

EDOS Level Zero Processing Facility (LZPF)

Format: RBD  
Format: RBD

MLS SIPS

Format: RBD

Format: S-PDS

Format: S-PDS

Format: S-PDS

Format: S-PDS

Format: S-PDS

Format: L1R via Aspera service

Format: L0 Data

Land SIPS PDR Server

#### GES DISC

AIRS (L1 & L2)

MLS (L2)

#### Ozone SIPS

OMI (L2)

OMPS (L2)

#### ASDC

MISR (L1, L2)

#### NCAR

MOPITT (L2)

#### MODAPS

MODIS (L1, L2, L2G\*L3\*)

#### VIIRS Land SIPS

VIIRS

#### VIIRS Atmosphere SIPS

VIIRS

#### AMSR SIPS

AMSR2 (L2, L3)

LIS (ISS)

Data via HTTPS

GIBS

Worldview

CMR

FIRMS

Earthdata Search

Users

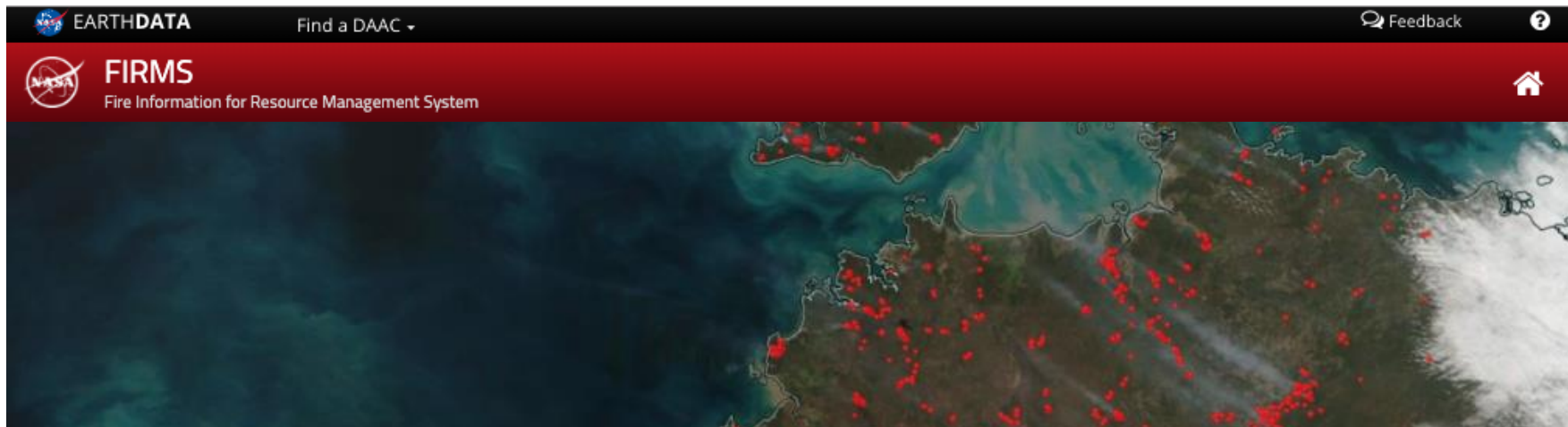
RBD: Rate Buffered Data, S-PDS: Session Based Production Data Set, T-PDS: Time Based Production Data Set

\*L2G and L3 products have a latency of 27 – 48 hours

SIPS: Science Investigator-led Processing Systems, TDRSS: Tracking and Data Relay Satellite System







FIRE MAP



ACTIVE FIRE DATA



FIRE ALERTS



ARCHIVE DOWNLOAD



WEB SERVICES

## FIRE INFORMATION FOR RESOURCE MANAGEMENT SYSTEM (FIRMS)



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<https://firms.modaps.eosdis.nasa.gov/> or <https://earthdata.nasa.gov/firms>





# FIRMS

Fire Information for Resource Management System

Fires: Today

Imagery: VIIRS 2019-07-03

Baru National Park

Fire Map

Active Fire Data

Fire Alerts

Archive Download

Web Services

VIIRS 375m [10]

latitude	longitude	brightness	scan	track	acquire_time	confidence	version	brightness2	frp	daynight
-11.45903	131.3091	337.1	0.58	0.52	2019-07-03 05:18:00	n	1.0NRT	300.8	6.6	D
-11.45613	131.29768	350.6	0.58	0.52	2019-07-03 05:18:00	n	1.0NRT	301.7	11	D
-11.45226	131.29153	342.2	0.58	0.52	2019-07-03 05:18:00	n	1.0NRT	300.4	4.5	D
-11.45128	131.29684	343.3	0.58	0.52	2019-07-03 05:18:00	n	1.0NRT	301.4	9	D
-11.44839	131.28542	331.6	0.58	0.52	2019-07-03 05:18:00	n	1.0NRT	300.4	4.5	D
-11.44741	131.29073	334	0.58	0.52	2019-07-03 05:18:00	n	1.0NRT	302.9	4.5	D
-11.44539	131.28693	355.4	0.58	0.52	2019-07-03 05:18:00	n	1.0NRT	305.9	13.2	D
-11.44446	131.29219	344.5	0.58	0.52	2019-07-03 05:18:00	n	1.0NRT	303.8	13.2	D
-11.44356	131.28456	349.2	0.58	0.52	2019-07-03 05:18:00	n	1.0NRT	301.6	9.9	D
-11.44257	131.28986	349.4	0.58	0.52	2019-07-03 05:18:00	n	1.0NRT	303.1	9.9	D

Last Updated: 2019-07-03 07:00 GMT  
Version: VIIRS 375 m

Latitude  
Longitude



PAN



IDENTIFY



BASEMAPS



OVERLAYS



MAXIMIZE



SHARE



HELP

NASA Official: Ed Masuoka

Web Privacy Policy

Data & Information Policy

Communications Policy

Freedom of Information Act

USA.gov

Quick View

Advanced

Burned Area

today

24 hrs

48 hrs

72 hrs

7 days

☒ VIIRS 375m

Fires

☒ Fire Radiative Power (FRP)

Confidence

0

200+

☒ MODIS / Aqua

Day

Night

Confidence

Auto

0

50

75

100

☒ MODIS / Terra

Day

Night

Fires

Auto

Satellite Imagery

2019-09-25

☐ VIIRS Corrected Reflectance (true color)

☐ VIIRS Corrected Reflectance (bands M11-I2-I1)

☐ MODIS/Aqua Corrected Reflectance 721

☐ MODIS/Aqua Corrected Reflectance (true color)

☐ MODIS/Terra Corrected Reflectance 721

☐ MODIS/Terra Corrected Reflectance (true color)

Orbit Tracks

☐ VIIRS (Asc)

☐ VIIRS (Desc)

☐ MODIS/Aqua (Asc)

☐ MODIS/Aqua (Desc)

☐ MODIS/Terra (Asc)

☐ MODIS/Terra (Desc)

Note: Cloud cover may obscure active fire detections.

# Obtaining MODIS or VIIRS active fire / hotspot data from FIRMS



## FIRMS

Fire Information for Resource Management System



Fire Map



Active Fire Data



Fire Alerts



Archive Download

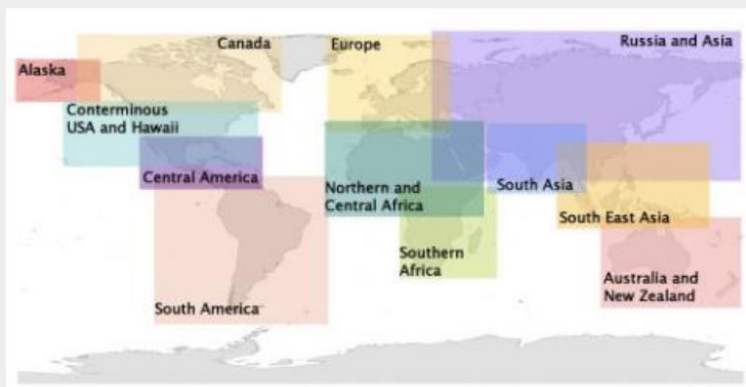


Web Services

## Active Fire Data

Download Near real-time [MODIS \(C6\)](#) and [VIIRS \(375 m\)](#) active fire data using the tables below.

For data older than seven days, use the [Archive Download](#)



Shapefiles

Google Earth KML

Text Files (CSV)

	MODIS 1km	VIIRS 375m
World	<a href="#">24h</a> <a href="#">48h</a> <a href="#">7d</a>	<a href="#">24h</a> <a href="#">48h</a> <a href="#">7d</a>
Canada	<a href="#">24h</a> <a href="#">48h</a> <a href="#">7d</a>	<a href="#">24h</a> <a href="#">48h</a> <a href="#">7d</a>
Alaska	<a href="#">24h</a> <a href="#">48h</a> <a href="#">7d</a>	<a href="#">24h</a> <a href="#">48h</a> <a href="#">7d</a>

# FIRMS Email Notifications of MODIS or VIIRS Hotspot Detections in your Area of Interest



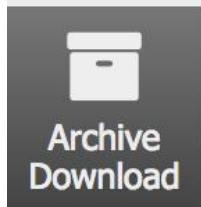
Fire Map



Active Fire Data



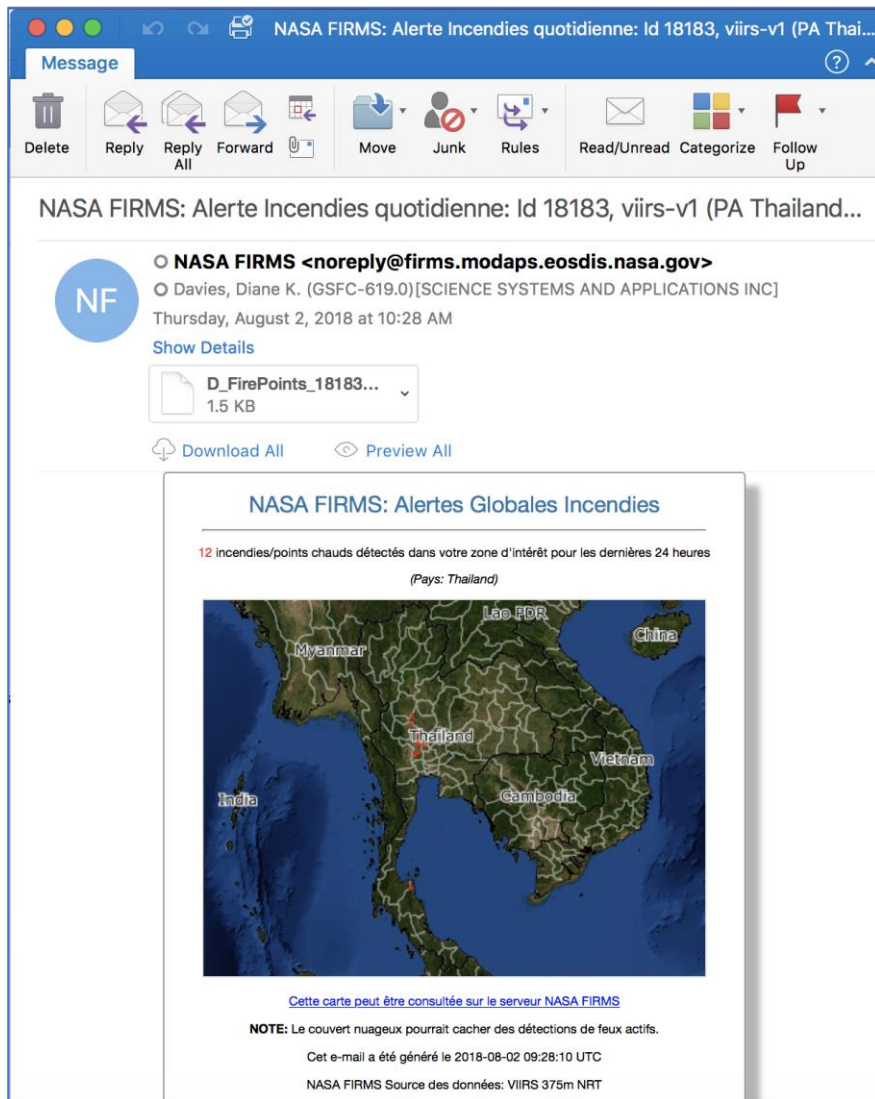
Fire Alerts



Archive Download



Web Services



**FIRMS Fire Alerts are sent to users in over 160 countries.**

**Users subscribe to their area of interest.**

**Alerts are sent when a fire is detected.**

**4,000 Daily alerts  
30,000 Rapid alerts per day  
600 Weekly alerts**





FIRMS

Fire Information for Resource Management System



Fire Map



Active Fire  
Data



Fire Alerts



Archive  
Download



Web  
Services

## Web Services

FIRMS fire-based maps (images) are offered through [Web Map Service \(WMS\)](#) and WMS with time support (WMS-Time).

Supported projections: Lat-long projection (EPSG:4326) and Web Mercator projection (EPSG:3857 or 900913).

- [WMS](#)
- [WMS-Time](#)

\* To use WMS and WMS-Time, please request free MAP\_KEY

[Get MAP\\_KEY](#)

To check the number of available map transactions:

/web-services/mapkey\_status.php?MAP\_KEY=YOUR\_MAP\_KEY

### Customization:

COLORS=R+G+B or COLORS=R G B - where R,G,B=[0..255]; ex: COLORS=220+120+120 or COLORS=220 120 120

SIZE=N - where N = [1..100]; ex: SIZE=5

SYMBOLS=circle,square,... - see Supported symbols below

### Supported symbols:

circle, circle-uf, cross, square, square-uf, triangle, triangle-uf, utriangle, utriangle-uf

\* uf - unfilled center

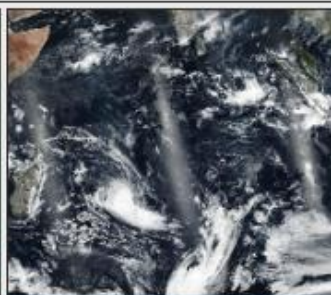
# Welcome to Worldview!



Visually explore the past and the present of this dynamic planet from a satellite's perspective. Select from an array of stories below to learn more about Worldview, the satellite imagery we provide and events occurring around the world. [Start using Worldview →](#)



Satellite Detections of Fire



Sunglint



Tropical Cyclone Idai (March 2019)



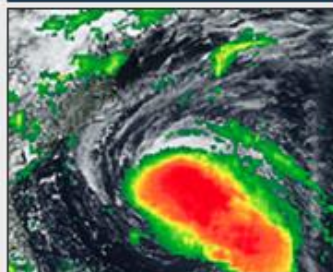
Earth at Night



Pine Island Glacier/Iceberg B-46, Nov 2018



Camp Fire (November 2018)



Hurricane Florence (September 2018)



California & British Columbia Wildfires (Summer 2018)



Swath Gaps

☐ Do not show until a new story has been added.

← → ↺ NASA (National Aero

**WORLDVIEW**

Layers Events Data

OVERLAYS

Place Labels  
© OpenStreetMap contributors, Natural Earth

Coastlines / Borders / Roads  
© OpenStreetMap contributors, Natural Earth

Coastlines  
© OpenStreetMap contributors

BASE LAYERS

Corrected Reflectance (True Color)  
Suomi NPP / VIIRS

Corrected Reflectance (True Color)  
Aqua / MODIS

Corrected Reflectance (True Color)  
Terra / MODIS

+ Add Layers

Start Comparison

2019 SEP 25

1 DAY

Search Star Settings

1000 km  
1000 mi

DAY



**NASA WORLDVIEW**

Layers Events Data

OVERLAYS

- Fires and Thermal Anomalies (Night) Terra / MODIS
- Fires and Thermal Anomalies (Day) Terra / MODIS
- Fires and Thermal Anomalies (Night) Aqua / MODIS
- Fires and Thermal Anomalies (Day) Aqua / MODIS
- Fires and Thermal Anomalies (Night, 375m) Suomi NPP / VIIRS
- Fires and Thermal Anomalies (Day, 375m) Suomi NPP / VIIRS
- Nighttime Imagery (Day/Night Band, Enhanced Near Constant Contrast) Suomi NPP / VIIRS
- Place Labels © OpenStreetMap contributors, Natural Earth
- Coastlines / Borders / Roads © OpenStreetMap contributors, Natural Earth
- Coastlines

+ Add Layers Start Comparison

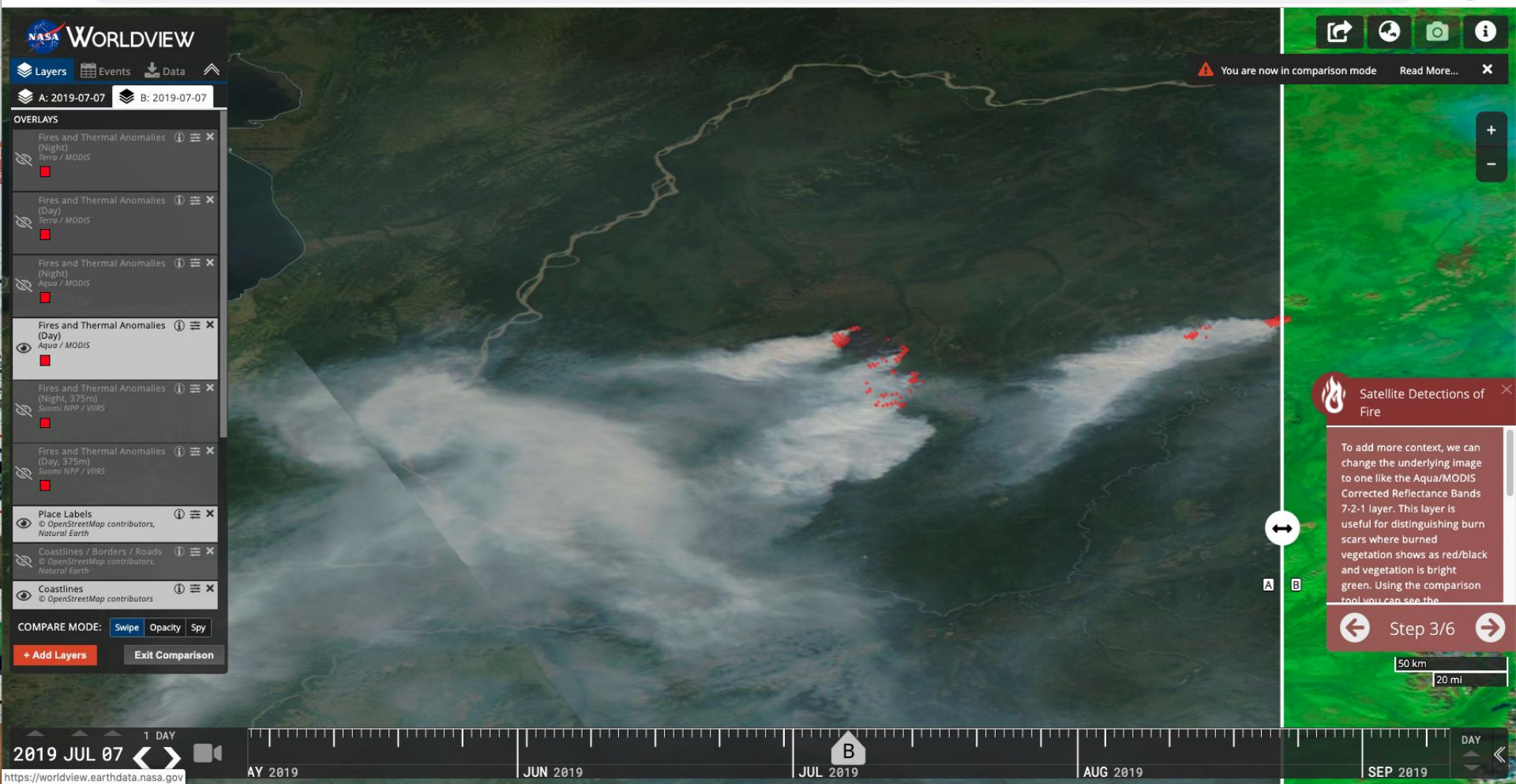


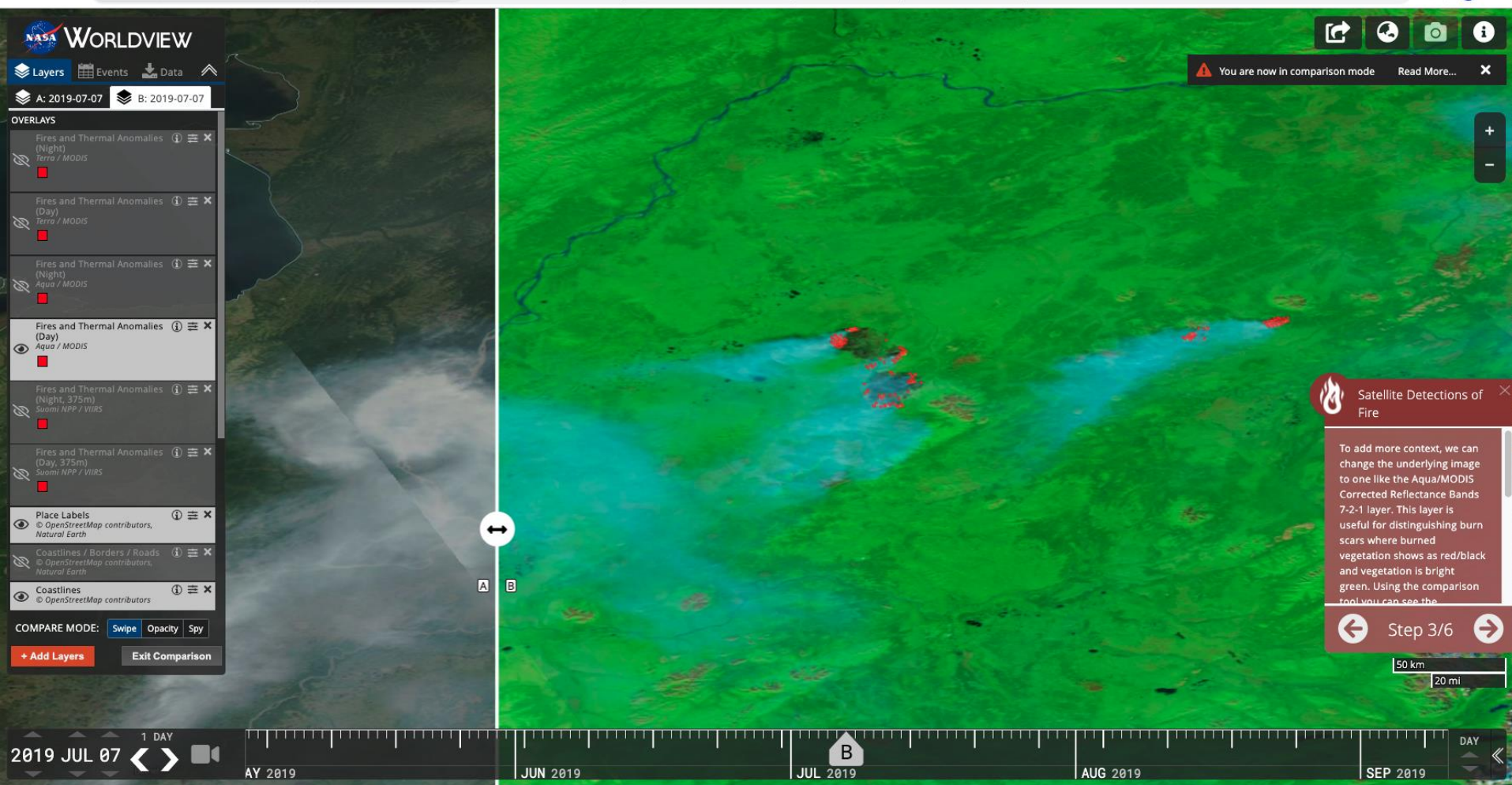
**Satellite Detections of Fire**

Data collected by the satellites utilize an algorithm that exploits the strong emission of mid-infrared radiation from fires and thermal anomalies - these fires and thermal anomalies are shown here as red points. The points represent the center of a pixel within which one or multiple fires have

Step 2/6









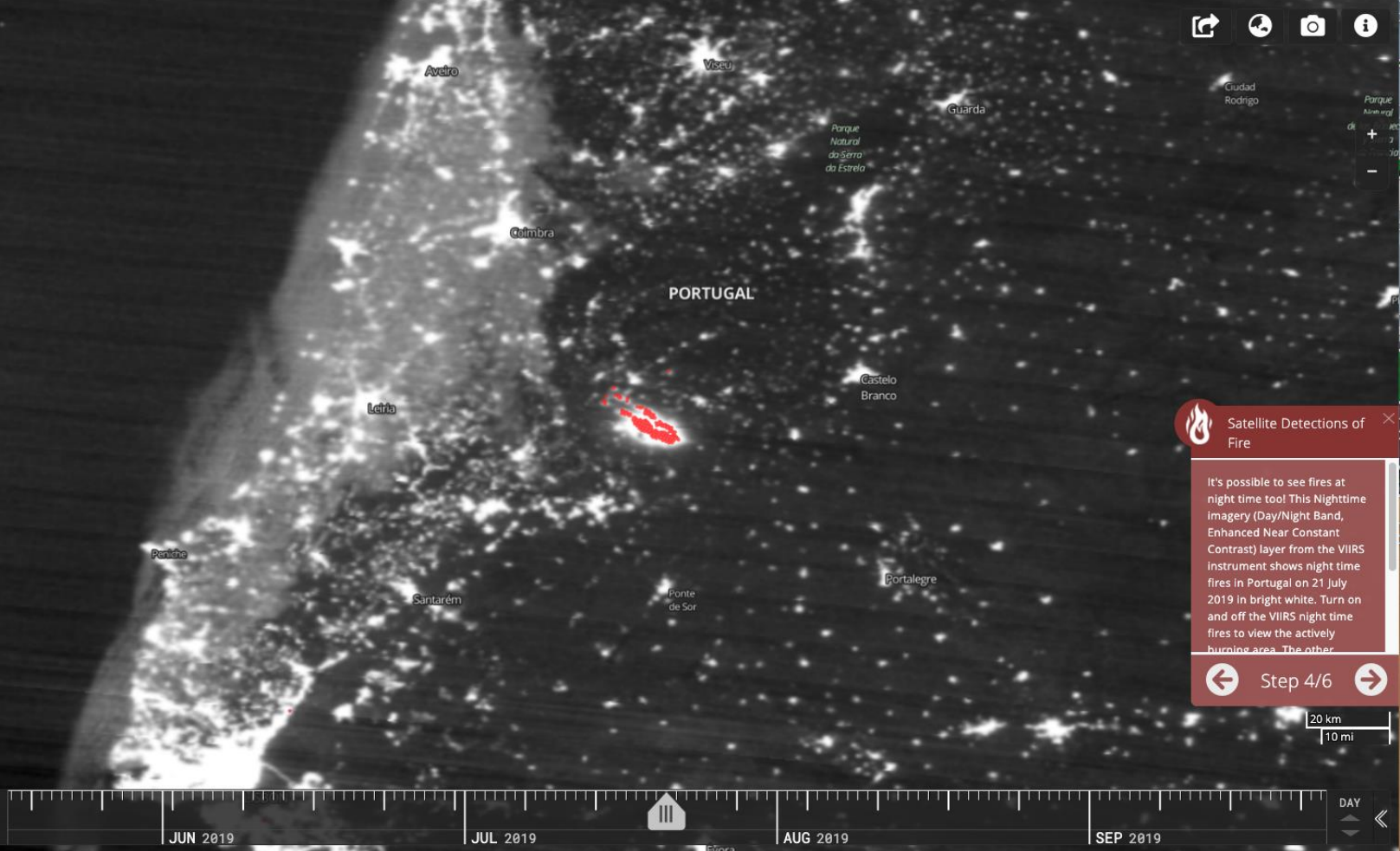
**NASA WORLDVIEW**

Layers Events Data

OVERLAYS

- Fires and Thermal Anomalies (Night) Terra / MODIS
- Fires and Thermal Anomalies (Day) Terra / MODIS
- Fires and Thermal Anomalies (Night) Aqua / MODIS
- Fires and Thermal Anomalies (Day) Aqua / MODIS
- Fires and Thermal Anomalies (Night, 375m) Suomi NPP / VIIRS
- Fires and Thermal Anomalies (Day, 375m) Suomi NPP / VIIRS
- Place Labels © OpenStreetMap contributors, Natural Earth
- Nighttime Imagery (Day/Night Band, Enhanced Near Constant Contrast) Suomi NPP / VIIRS
- Coastlines / Borders / Roads © OpenStreetMap contributors, Natural Earth
- Coastlines

+ Add Layers Start Comparison



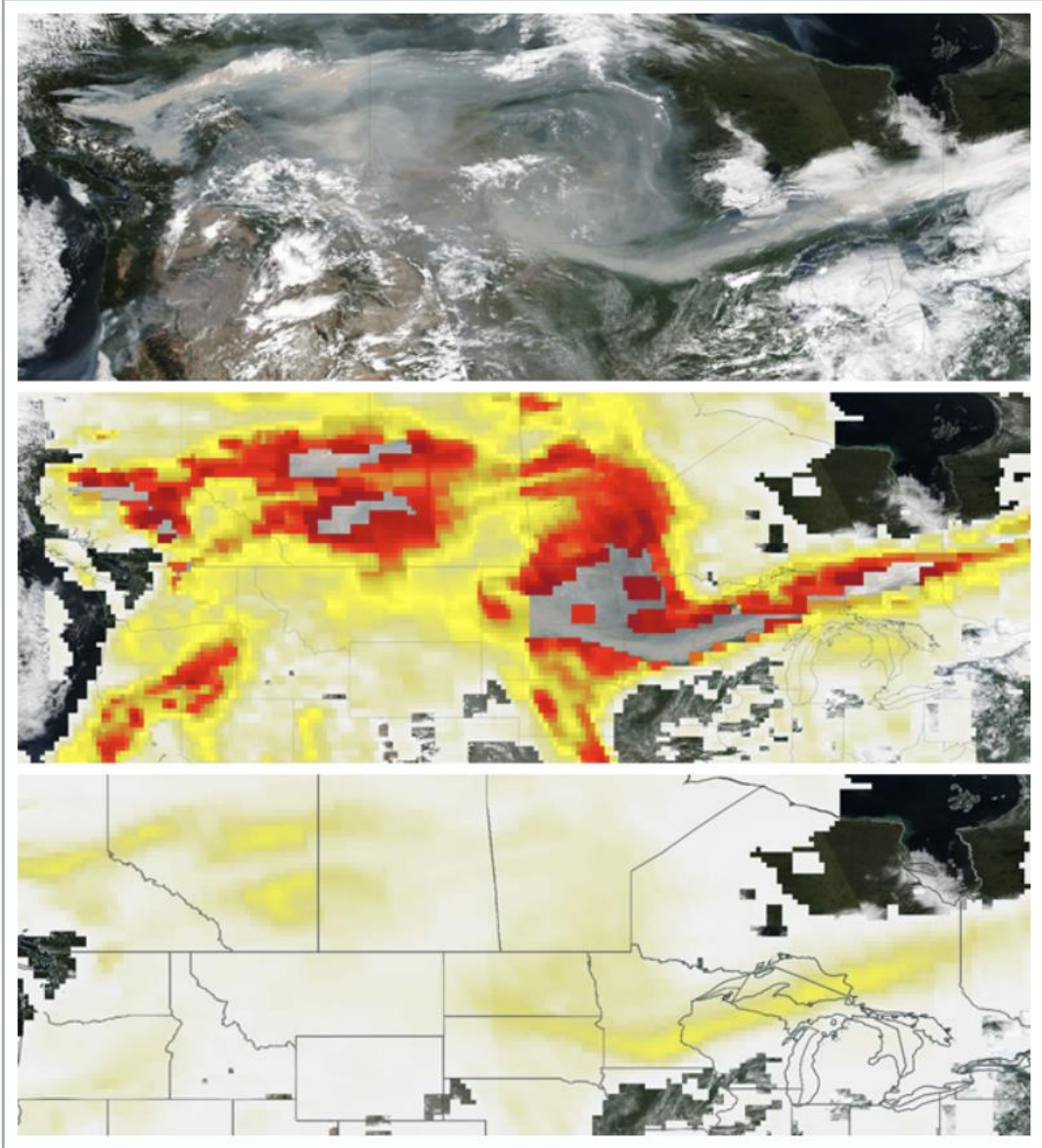
**Satellite Detections of Fire**

It's possible to see fires at night time too! This Nighttime Imagery (Day/Night Band, Enhanced Near Constant Contrast) layer from the VIIRS instrument shows night time fires in Portugal on 21 July 2019 in bright white. Turn on and off the VIIRS night time fires to view the actively burning area. The other

Step 4/6








# PyroCumuloNimbus product from OMPS




*Suomi-NPP images from August 17, 2018, showing the utility of the new OMPS PyroCumuloNimbus AI product. Top image is a true color Visible Infrared Imaging Radiometer Suite (VIIRS) image of the Northern U.S. and Southern Canada. Milky white areas are smoke from wildfires in British Columbia (bright white areas are clouds or snow). Middle image is the same area overlain with the OMPS AI product. Note the red indicating AI values at the extreme high end of the AI scale and the gaps in the image where AI values are so high they are screened out. Bottom image is the same area overlain with the new OMPS PyroCumuloNimbus AI product. Note the correlation of the bright yellow areas in the lower image and the bright red areas in the middle image. Images courtesy of NASA Worldview.*



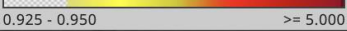
 **WORLDVIEW**

 Layers  Events  Data 


**OVERLAYS**




**Aerosol Index**  
Suomi NPP / OMPS




0.925 - 0.950 >= 5.000




**Aerosol Index**  
(PyroCumuloNimbus)  
Suomi NPP / OMPS




5.00 - 5.25 >= 50.00





**Fires and Thermal Anomalies**  
(Night)  
Terra / MODIS







**Fires and Thermal Anomalies**  
(Day)  
Terra / MODIS







**Fires and Thermal Anomalies**  
(Day, 375m)  
Suomi NPP / VIIRS




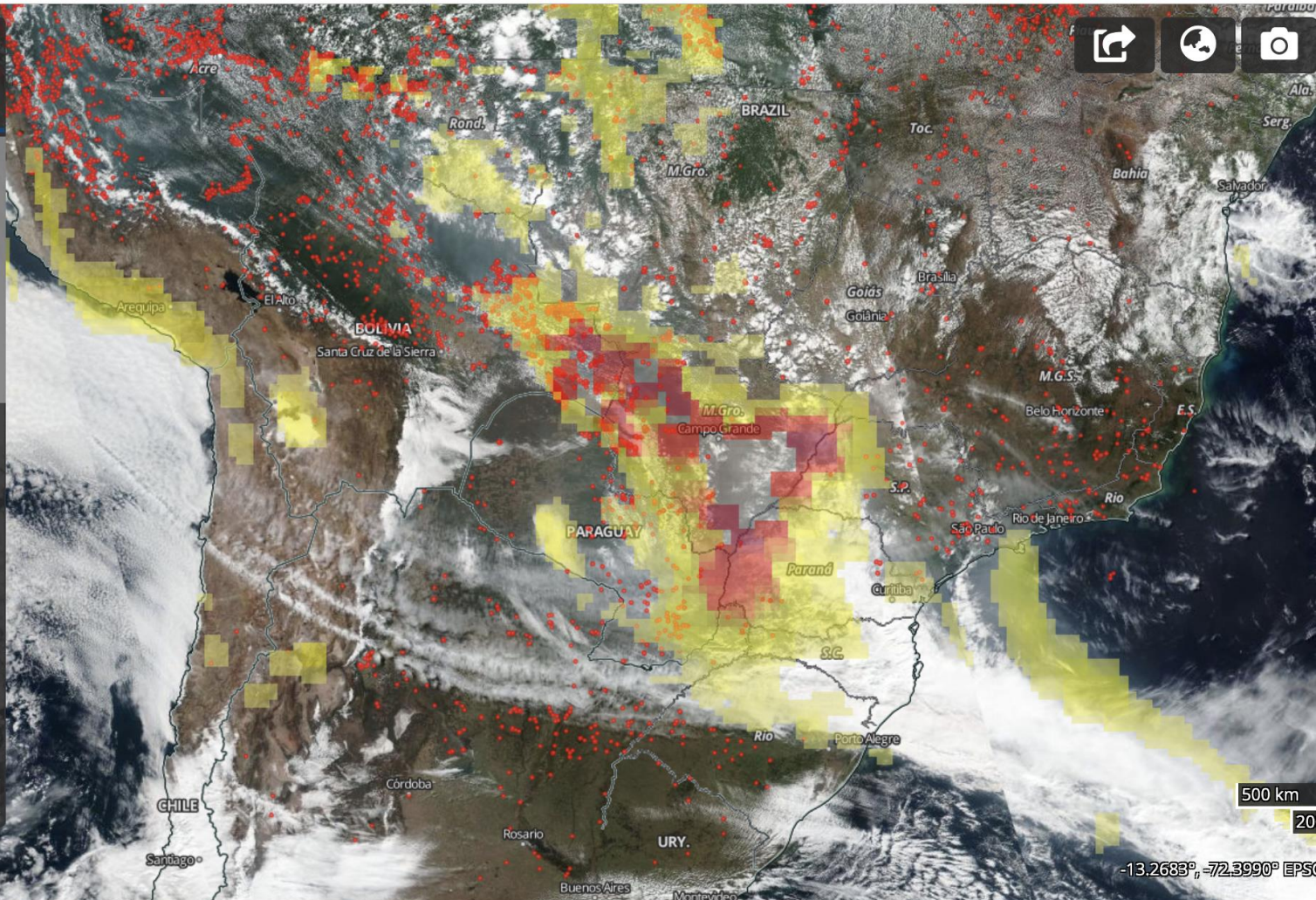


**Fires and Thermal Anomalies**  
(Night, 375m)  
Suomi NPP / VIIRS








 + Add Layers

 Start Comparison








 **WORLDVIEW**


 Layers  Events  Data 

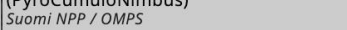
OVERLAYS


 Aerosol Index  
Suomi NPP / OMPs


  
0.925 - 0.950 >= 5.000





 Aerosol Index  
(PyroCumuloNimbus)  
Suomi NPP / OMPs


  
5.00 - 5.25 >= 50.00





 Fires and Thermal Anomalies  
(Night)  
Terra / MODIS








 Fires and Thermal Anomalies  
(Day)  
Terra / MODIS








 Fires and Thermal Anomalies  
(Day, 375m)  
Suomi NPP / VIIRS







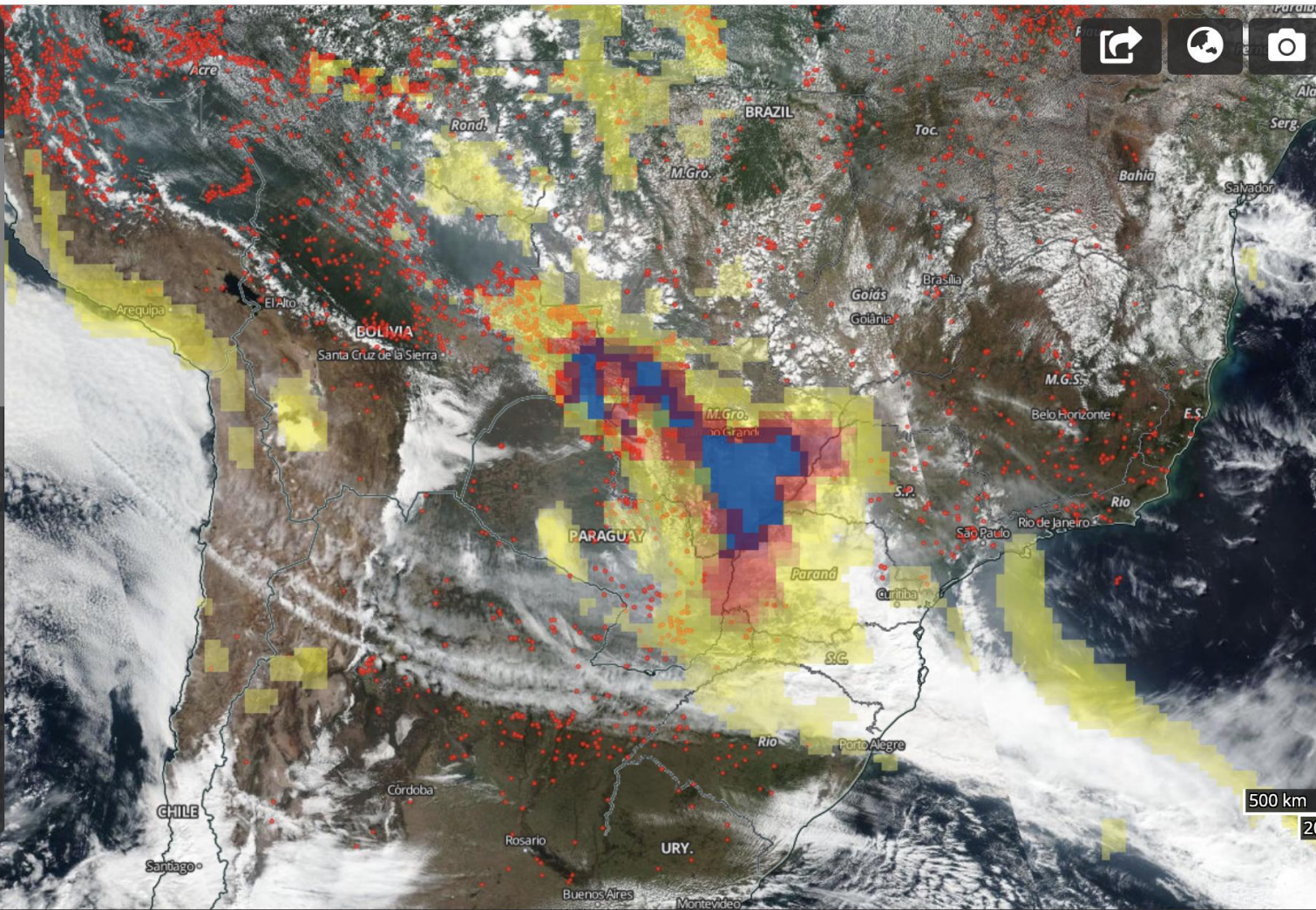
 Fires and Thermal Anomalies  
(Night, 375m)  
Suomi NPP / VIIRS





 + Add Layers







# Next Steps

- Active fire data from VIIRS NOAA 20 will be added to FIRMS
- Additional Vector support for the Global Imagery Browse Services (GIBS) and to Worldview will enable users to query the active fire data from FIRMS
- Geostationary imagery will be added to GIBS and Worldview this year



## More Information

FIRMS: <https://firms.modaps.eosdis.nasa.gov/>

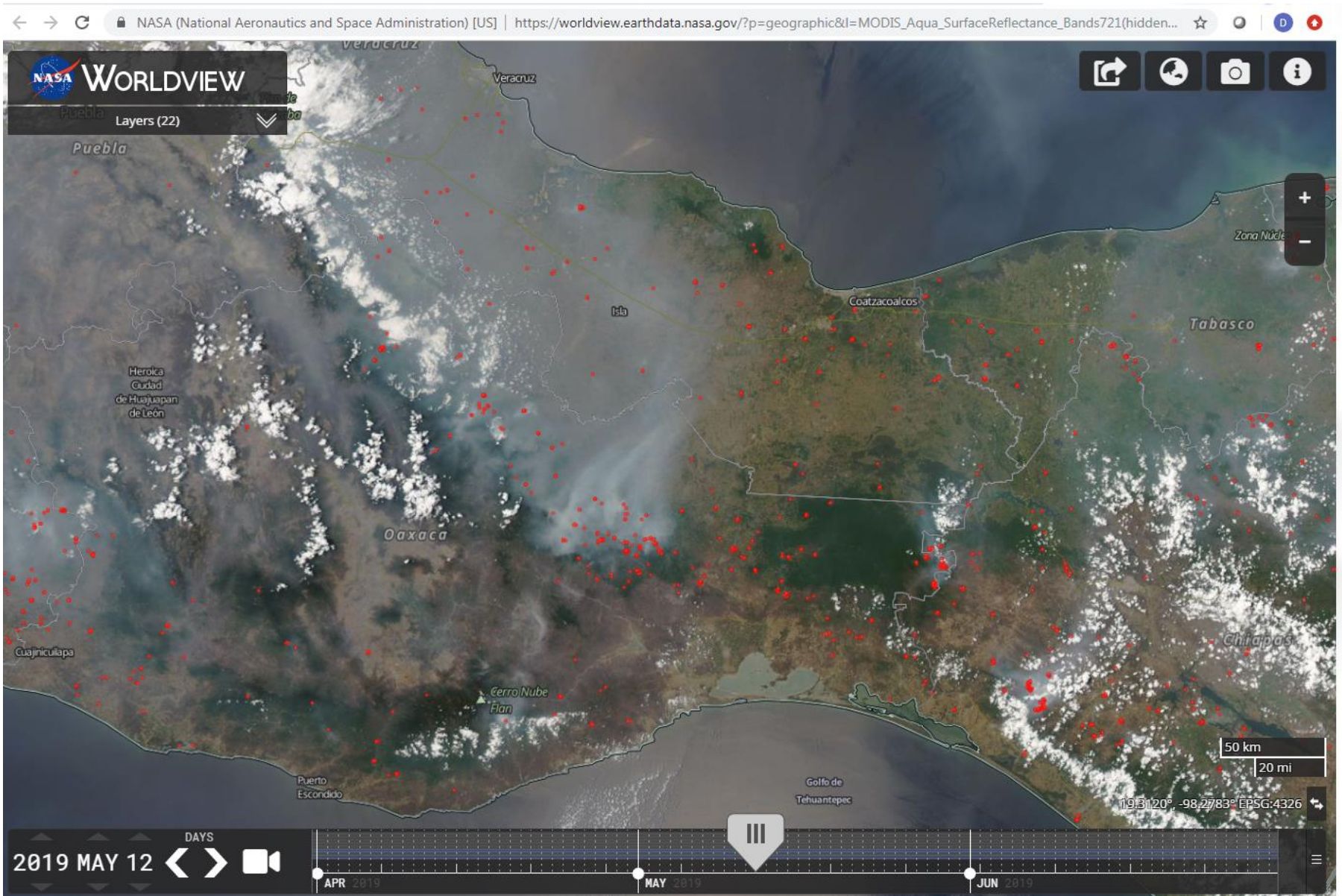
Worldview: <https://worldview.earthdata.nasa.gov>

LANCE: <https://earthdata.nasa.gov/lance>

NASA Earthdata article: Wildfires Can't Hide from Earth Observing Satellites  
<https://earthdata.nasa.gov/learn/articles/wildfires-cant-hide-from-earth-observing-satellites>

FIRMS Webinar – part of the [NASA Earthdata Webinar Series](#):

- [Discover NASA's Fire Information for Resource Management System \(FIRMS\)](#)  
: <https://www.youtube.com/watch?v=OfPVmnY6pBs&feature=youtu.be>



This image was posted on social media and Worldview went from about 4000 users to 63,000 users in one day



# NACIÓN

**Es Noticia:** ▶ AMLO 100 días ▶ Sentencia de "El Chapo" ▶ Transición 2018 ▶ Caravana migr

INICIO // NACIÓN // SOCIEDAD // ASÍ SE VEN LOS INCENDIOS EN EL PAÍS DESDE SATÉLITES DE LA NASA



## Así se ven los incendios en el país desde satélites de la NASA

13/05/2019 | 12:51 | Redacción [Ciudad de México]

<https://www.eluniversal.com.mx/nacion/sociedad/asi-se-ven-los-incendios-en-el-pais-desde-satelites-de-la-nasa> had 14,000 users referred to Worldview



**NASAEarthdata**   
@NASAEarthData



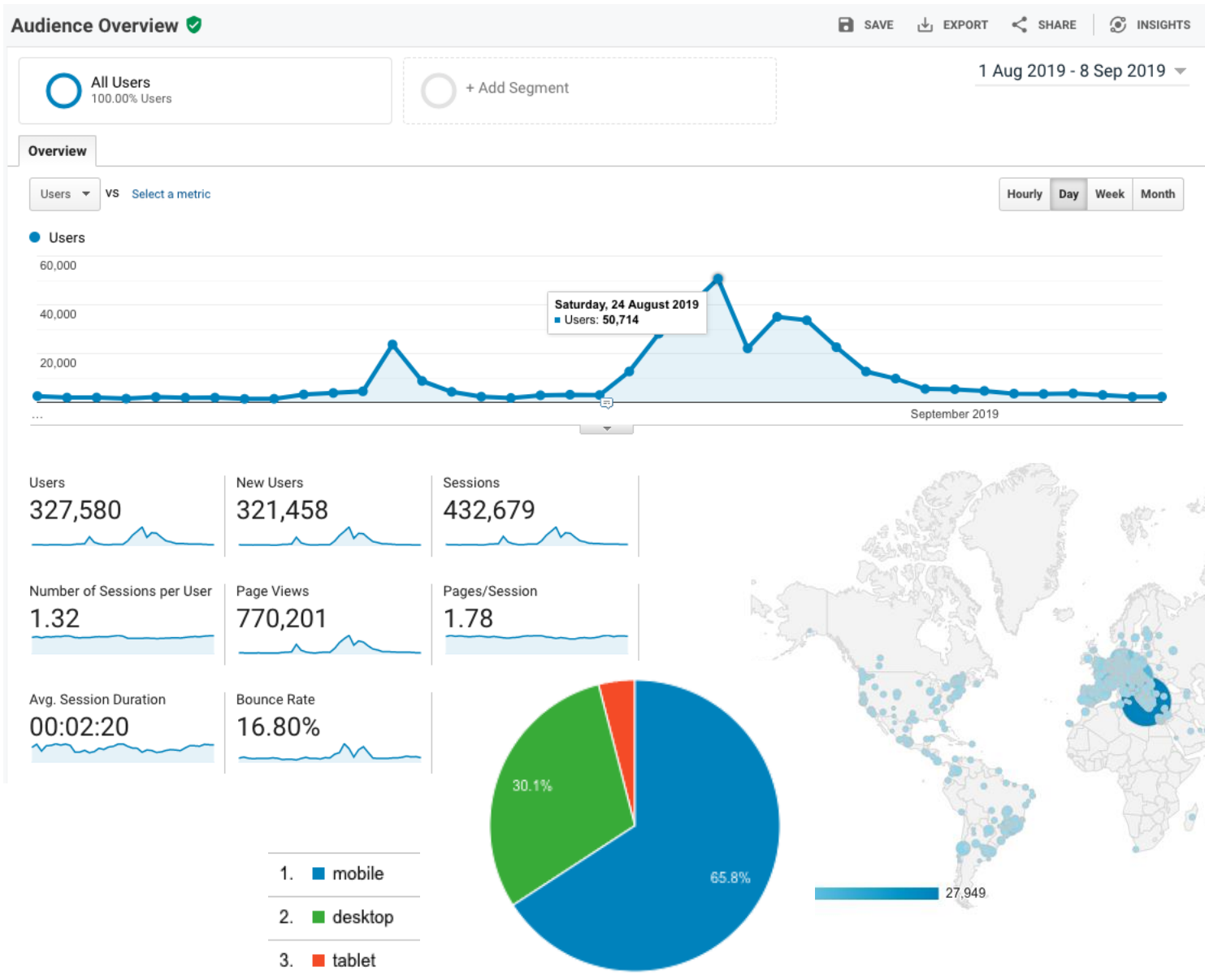
**#NASAWorldview** Image of the Week: Fires in Southern Mexico, as observed by the NASA Aqua MODIS instrument on 5/12/19. [go.nasa.gov/2Hhaec8](https://go.nasa.gov/2Hhaec8) Interact with image using Worldview: [go.nasa.gov/2JCKOqU](https://go.nasa.gov/2JCKOqU)

♡ 7.584 10:31 - 13 may. 2019

💬 6.704 personas están hablando de esto

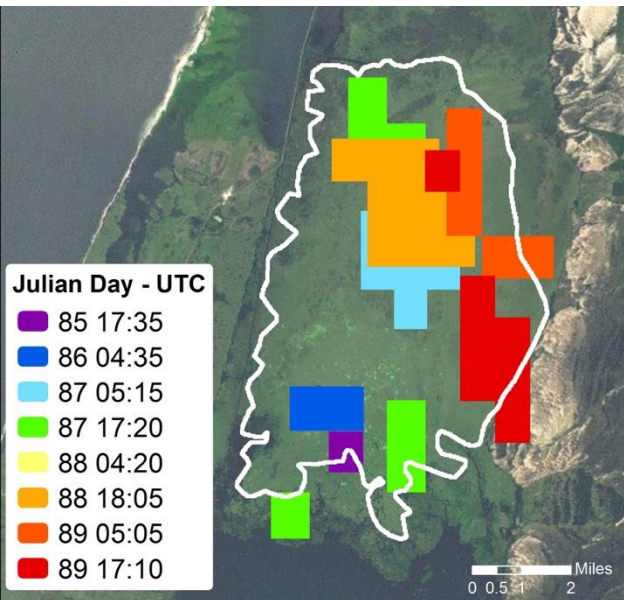


# FIRMS Metrics

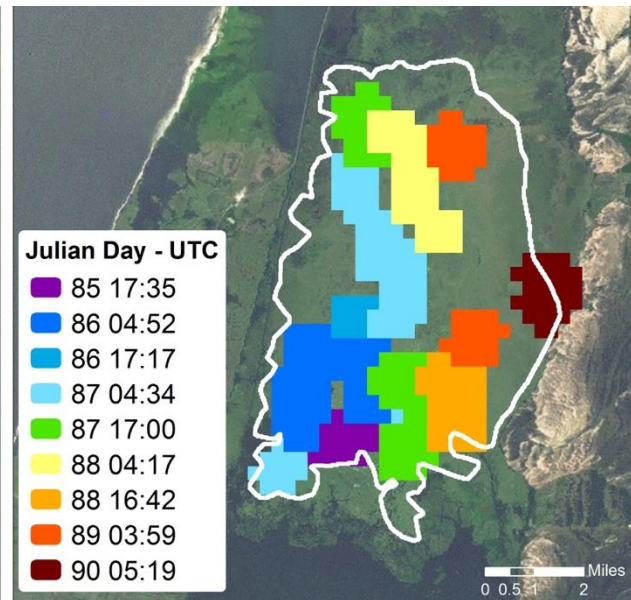


# Differences between MODIS and VIIRS

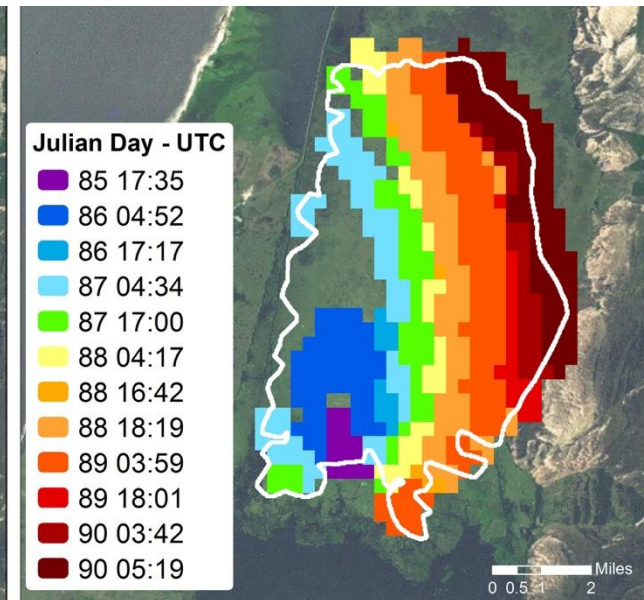
Aqua/MODIS 1KM Pixel



VIIRS 750m



VIIRS 375m



Daily fire spread mapped by 1km Aqua/MODIS (left), 750 m VIIRS (center) and 375 m VIIRS (right) data at the Taim Ecological Reserve in southern Brazil. The data cover the period 26 -31 March 2013. The white outline shows represents the burned area mapped using 30m Landsat-7 on 31 March. This figure is reproduced here courtesy of Wilfrid Schroeder, NOAA University of Maryland



# Fire Detections

The fire detection algorithms use a contextual algorithm that exploits the strong emission of mid-infrared radiation from fires.

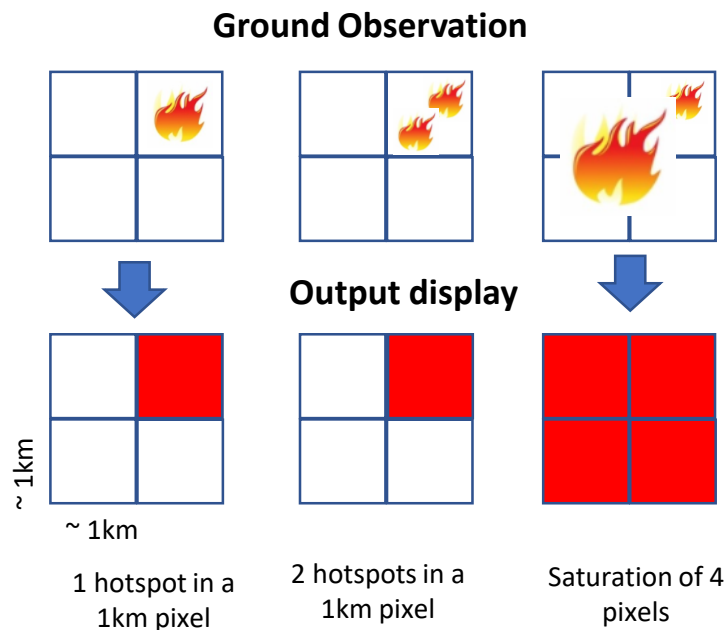
See FIRMS FAQs for references –

<https://earthdata.nasa.gov/firms-faq#ed-fire-detection>

- MODIS PI: Louis Giglio (UMD)
- VIIRS PI: Wilfrid Schroeder (NOAA/UMD)

## What does a MODIS fire detection mean on the ground?

MODIS represented by a 1km pixel  
VIIRS 375m spatial resolution



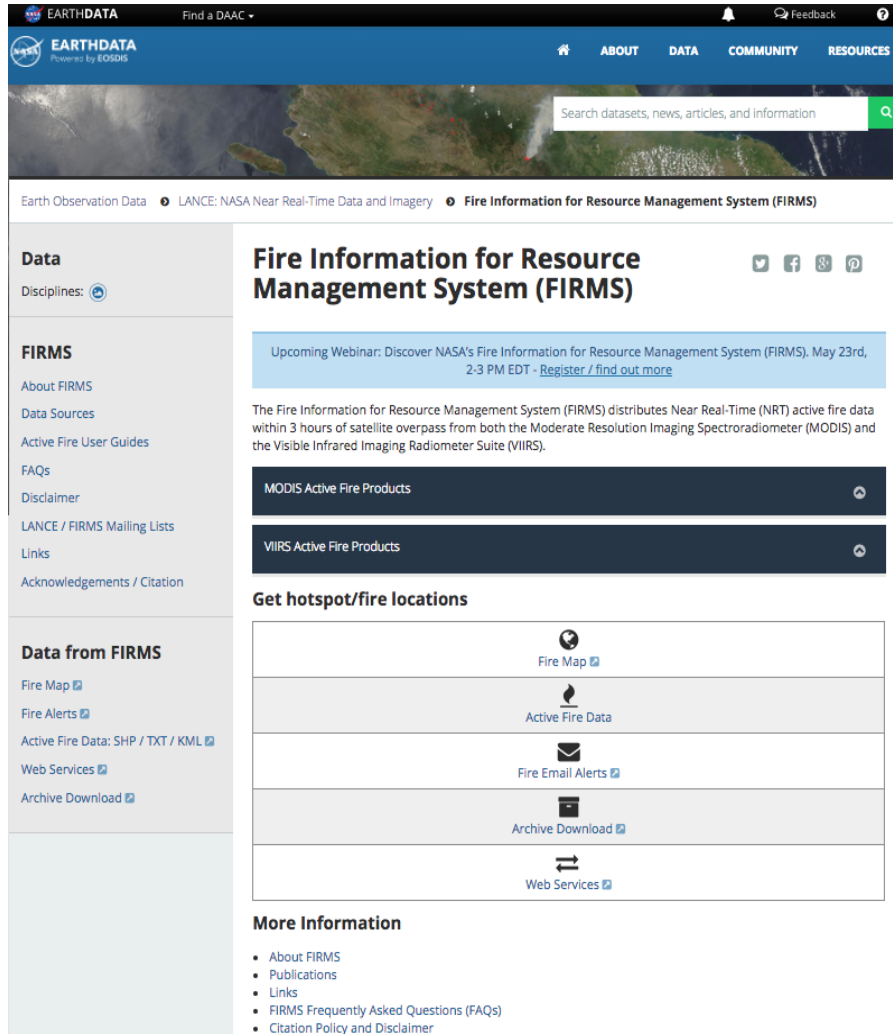
FIRMS has 2 landing pages: they are interlinked and provide links to the same data

## [Earthdata FIRMS Landing page](https://earthdata.nasa.gov/firms)

<https://earthdata.nasa.gov/firms>

## [LANCE MODAPS FIRMS Landing page](https://firms.modaps.eosdis.nasa.gov/)

<https://firms.modaps.eosdis.nasa.gov/>



**Earthdata** Find a DAAC

**EARTHDATA** Powered by EOSDIS

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Search datasets, news, articles, and information

Earth Observation Data **LANCE: NASA Near Real-Time Data and Imagery** **Fire Information for Resource Management System (FIRMS)**

**Data**

Disciplines:

**FIRMS**

About FIRMS  
Data Sources  
Active Fire User Guides  
FAQs  
Disclaimer  
LANCE / FIRMS Mailing Lists  
Links  
Acknowledgements / Citation

**Data from FIRMS**

Fire Map   
Fire Alerts   
Active Fire Data: SHP / TXT / KML   
Web Services   
Archive Download

**Fire Information for Resource Management System (FIRMS)**

Upcoming Webinar: Discover NASA's Fire Information for Resource Management System (FIRMS). May 23rd, 2-3 PM EDT - [Register / find out more](#)

The Fire Information for Resource Management System (FIRMS) distributes Near Real-Time (NRT) active fire data within 3 hours of satellite overpass from both the Moderate Resolution Imaging Spectroradiometer (MODIS) and the Visible Infrared Imaging Radiometer Suite (VIIRS).

**MODIS Active Fire Products**

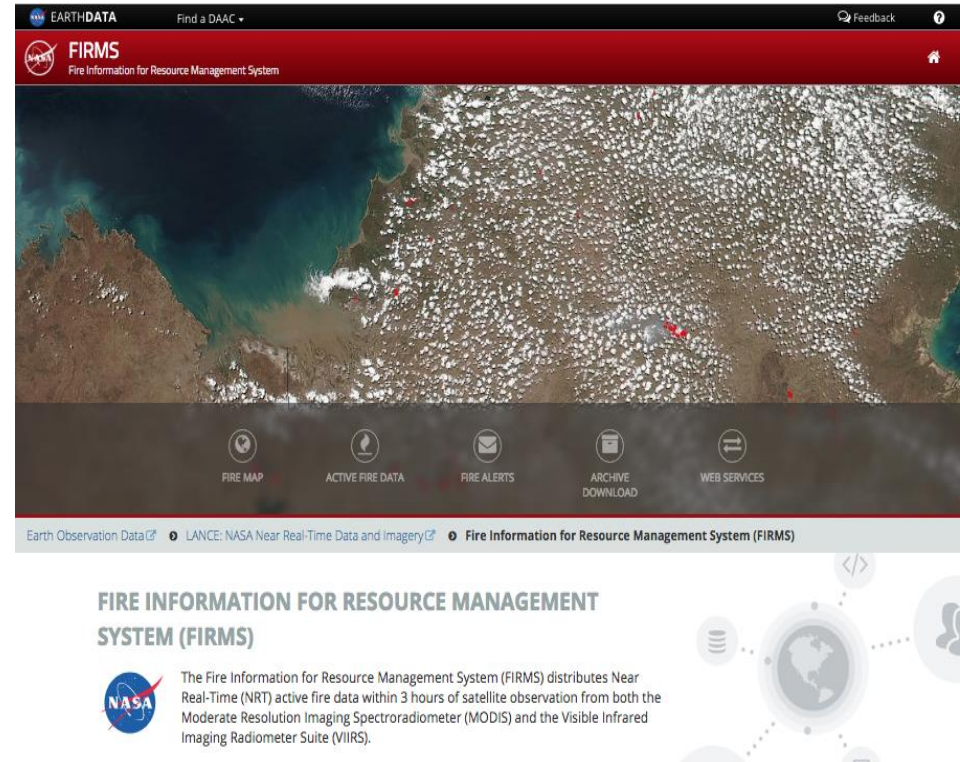
**VIIRS Active Fire Products**

**Get hotspot/fire locations**

	<a href="#">Fire Map</a>
	<a href="#">Active Fire Data</a>
	<a href="#">Fire Email Alerts</a>
	<a href="#">Archive Download</a>
	<a href="#">Web Services</a>

**More Information**

- About FIRMS
- Publications
- Links
- FIRMS Frequently Asked Questions (FAQs)
- Citation Policy and Disclaimer



**Earthdata** Find a DAAC

**FIRMS** Fire Information for Resource Management System

**FIRE INFORMATION FOR RESOURCE MANAGEMENT SYSTEM (FIRMS)**

The Fire Information for Resource Management System (FIRMS) distributes Near Real-Time (NRT) active fire data within 3 hours of satellite observation from both the Moderate Resolution Imaging Spectroradiometer (MODIS) and the Visible Infrared Imaging Radiometer Suite (VIIRS).

**Earth Observation Data** **LANCE: NASA Near Real-Time Data and Imagery** **Fire Information for Resource Management System (FIRMS)**

**Fire Map** **Active Fire Data** **Fire Alerts** **Archive Download** **Web Services**



# FIRMS

Fire Information for Resource Management System



Fire Map



Active Fire  
Data



Fire Alerts



Archive  
Download



Web  
Services

## Fire Alert Subscription

- Subscribe to receive email alerts notifying you of fires in your area-of-interest.
- Alerts can be sent in near real-time or as daily or weekly summaries.

**This service is free of charge.**


Enter your email address to create a new subscription or manage your existing subscription


Proceed


☒ LANCE-MODIS mailing list

☒ FIRMS mailing list

### ABOUT

[MODIS Active Fire Data](#) 

[VIIRS Active Fire Data](#) 

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### DATA

[Fire Map](#)


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[SHP](#) | [TXT](#) | [KML](#)

### RESOURCES

[VIIRS Active Fire User Guide](#) 

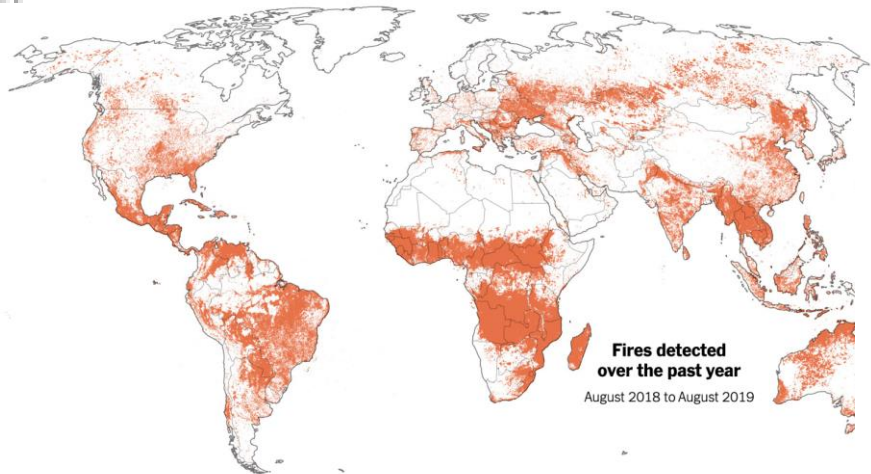
[MODIS Active Fire User Guide](#) 

[Acknowledgements & Citation](#) 

[FIRMS Mailing List](#) 

[Links](#) 



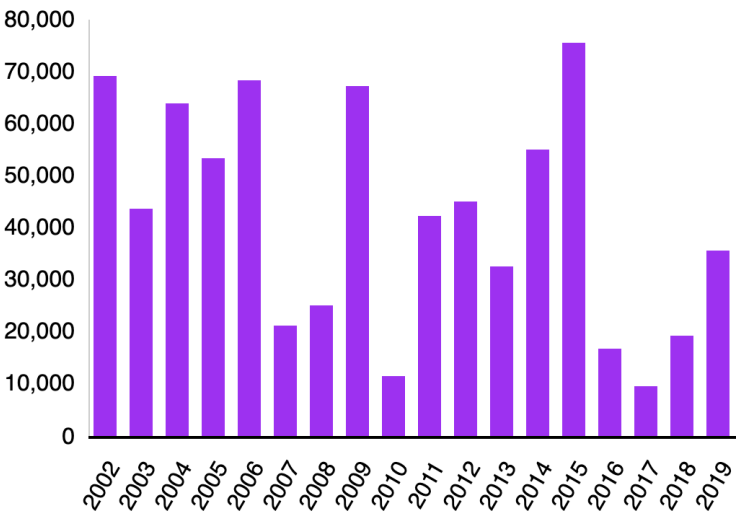


Source: NASA • By The New York Times



## Fires in Indonesia

(Data covers 1 Jan - 19 September for all years)



Source: University of Maryland and distributed by Nasa Fire Information for Resource Management System (FIRMS)



of human population.

### Fires detected by satellite, 2000 to 2019

Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

