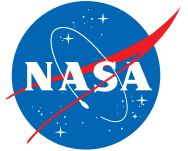
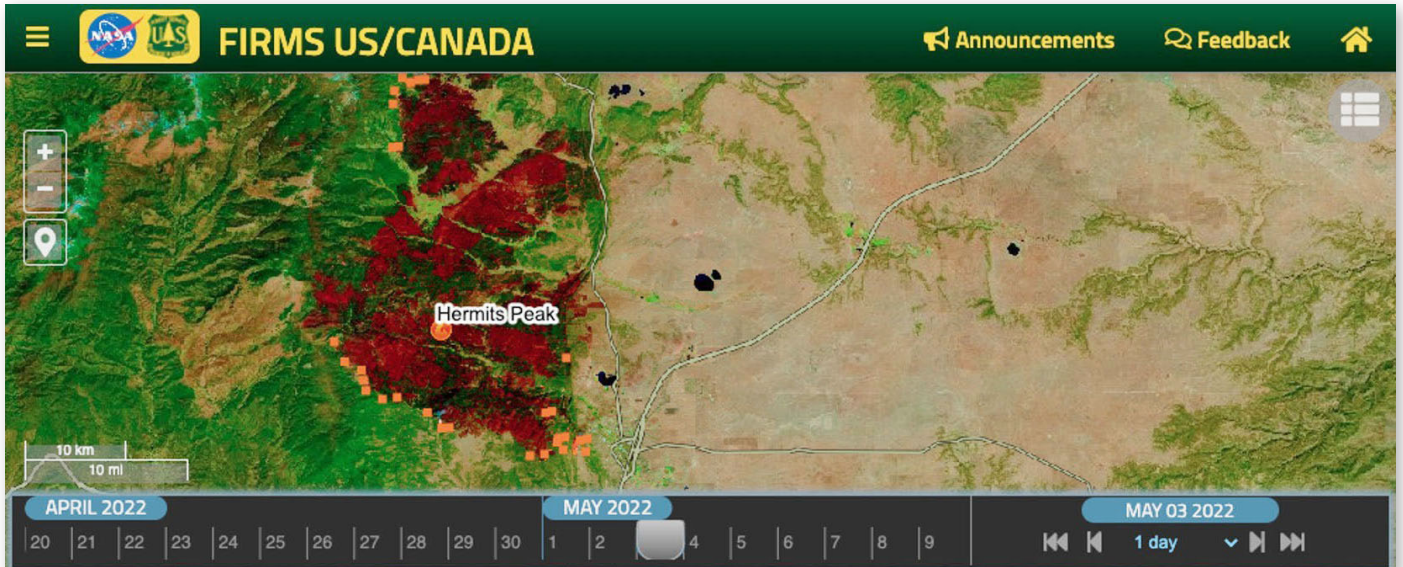




National Aeronautics and Space Administration



FIRMS US/CANADA Fire Information for Resource Management System



FIRMS US/Canada Fire Map Viewer showing burned area (in brick red) and active fires (in orange) at the Hermit's Peak fire in New Mexico on May 3, 2022. The active fires are from NASA's Terra MODIS¹. The underlying false color Harmonized Landsat Sentinel-2 (HLS) adjusted reflectance image is created using bands 12, 8a, and 4 from the Multi-Spectral Instrument (MSI) aboard the European Space Agency's Sentinel-2 satellites, dynamically generated by NASA's Interagency Implementation and Advanced Concepts Team (IMPACT). View image: <https://go.nasa.gov/3EVkN2B>

Overview

NASA's Fire Information for Resource Management System for the US and Canada (FIRMS US/Canada) provides real-time and near real-time (NRT) active fire detections, satellite imagery and regionally specific data products for North America. This is part of an ongoing collaboration between NASA and the USDA Forest Service to integrate new technologies and data enhancements.

Key features

- Updated situational awareness on the location, extent and intensity of wildland fires
- Landsat active fire data for US and Canada added Fall 2022
- Provisional geostationary active fire data added Fall 2022
- Enhanced tools to visualize satellite imagery, active fire detections and other NASA products
- Integration of US and Canadian fire geospatial data and incident reporting system
- Customized maps for viewing and sharing
- Active fire detection data in multiple GIS formats and WMS, WMS-T and WFS web services
- Extract and download satellite imagery for areas of interest
- Dynamically generated HLS imagery (true-color and false-color composites available)

¹ MODIS (Moderate Resolution Imaging Spectroradiometer)

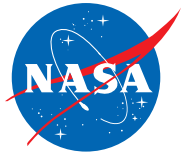
Explore **FIRMS US/Canada**

US/Canada Fire Map: <https://firms.modaps.eosdis.nasa.gov/usfs/map/>

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



FIRMS US/Canada combines FIRMS capabilities, value-added and regionally specific data products for North America as well as ongoing efforts by NASA and the USDA Forest Service to integrate new technologies and data enhancements.



Active Fire Data and Imagery available from **FIRMS US/CANADA**

Product	Sensor (Platform)	Source	Spatial Resolution	Latency ⁴ (Coverage)
Polar Orbiting Active Fire Detections	MODIS (Terra/Aqua)	SSEC University of Madison	1km	<1-30 mins (US-Canada)
	VIIRS (Suomi NPP/NOAA-20)		375m	<1-30 mins (US-Canada)
	MODIS (Terra/Aqua)	NASA LANCE	1km	<3 hours (Global)
	VIIRS (Suomi NPP/NOAA-20)		375m	<3 hours (Global)
	OLI (Landsat 8 & 9)	USGS EROS	30m	30 - 60 mins (US-Canada)
Provisional Geostationary Active Fire Detections	ABI (GOES-16 & 17) ¹	NOAA	2km sub-satellite ²	~20-30 mins (Americas)
	ABI (GOES-16 & 17) ³	IPMA / CAMS	2km sub-satellite ²	~20-30 mins (Americas)
True/False Color Composite Imagery	ABI (GOES-16 & 17)	NASA GIBS	1km	40 min (Americas)
	MODIS (Terra/Aqua)		250m	<3 hours (Global)
	VIIRS (Suomi NPP/NOAA-20)		250m	<3 hours (Global)
	OLI (Landsat 8 & 9)	NASA IMPACT / HLS	30m	2-4 days (Global)
	MSI (Sentinel 2A & 2B)		30m	2-4 days (Global)
Aerosol Index (AI)	OMPS (Suomi NPP)	NASA LANCE / GIBS	~50km	<3 hours (Global)
AI PyroCumulo Nimbus			~50km	<3 hours (Global)
Burned Area	MODIS (Terra/Aqua)	NASA	500m	~3 months (Global)

¹ FDC (Fire / Hot Spot Characterization)

² The pixel size systematically grows from sub-satellite towards the edge of the disk

³ FRPIXEL (Fire Radiative Power)

⁴ Latency refers to the estimated time from satellite observation to availability in FIRMS

