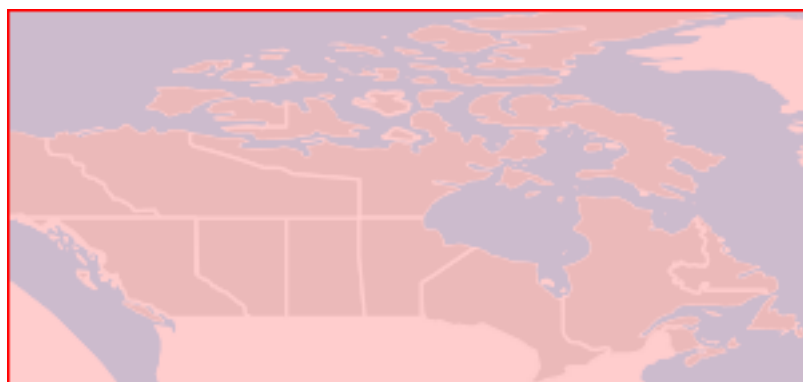


## Fire M3 Hotspots

### Description

A hotspot is a satellite image pixel with high infrared intensity, indicating a heat source. Hotspots from known industrial sources are removed; the remaining hotspots represent vegetation fires, which can be in forest, grass, cropland, or logging debris. A hotspot may represent one fire or be one of several hotspots representing a larger fire. Not all fires can be identified from satellite imagery, either because the fires are too small or because cloud cover obscures the satellite's view of the ground. The goals of Fire M3 are to use low-resolution satellite imagery to identify and locate actively burning fires on a daily basis; to estimate daily and annual area burned; and to model fire behavior and biomass consumption from fires. The Fire M3 hotspots are obtained from multiple sources: 1. Advanced Very High Resolution Radiometer (AVHRR) imagery, courtesy of the U.S. National Oceanic and Atmospheric Administration (NOAA) National Environmental Satellite, Data and Information Service (NESDIS). 2. Moderate Resolution Imaging Spectroradiometer (MODIS) imagery, courtesy of the National Aeronautics and Space Administration (NASA) Land, Atmosphere Near real-time Capability for EOS (LANCE) Fire Information for Resource Management System (FIRMS), and from the Active Fire Mapping Program, Remote Sensing Applications Center (RSAC), USDA Forest Service. (<https://fsapps.nwccg.gov/afm/>) 3. Visible Infrared Imaging Radiometer Suite (VIIRS) imagery, courtesy of NASA LANCE FIRMS, University of Maryland and RSAC. Subsequent processing of hotspot data involves combining the datasets from multiple sources, estimating fire weather conditions and fire behavior potential at hotspot locations using the Canadian Forest Fire Danger Rating System, and mapping burned area. Fire M3 maps and reports are updated daily from May through September. More information about Fire M3 is available at: <http://cwfis.cfs.nrcan.gc.ca/background/dsm/fm3>

Geographic Extent SW:-141.003 41.676, NE:-52.617 83.114

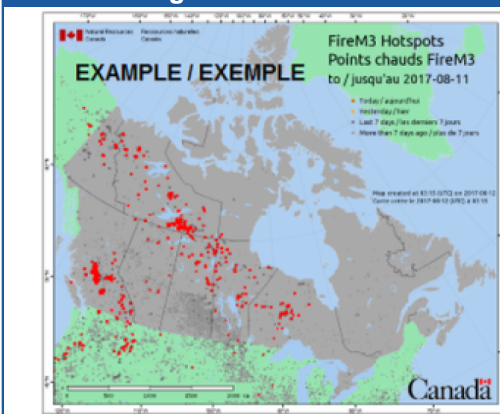


Time Period From:1994 - To:2019

### Resources

Resource Name	Resource Type	Language	Format
<a href="#">hotspots_last24hrs (Layer)</a>	Web Service	English, French	WMS
<a href="#">Daily Hotspots</a>	Dataset	English	CSV
<a href="#">Daily Hotspots Map</a>	Web Service	English, French	PNG
<a href="#">Canadian Wildland Fire Information System</a>	Web Service	English, French	HTML

### Preview Image



### Data Classification

GC Core Subject Thesaurus	Forest fires, Remote sensing
Topic category	Environment

### Metadata Contact

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Protocol	http
Role	Point of contact

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## Additional Information

Dataset Identification	
Date	2019 (Publication)
Date Type	Publication
Date	2019-09-09 (Creation)
Date Type	Creation
Status	On going
Maintenance and Update Frequency	Daily
Use Limitation	Open Government Licence - Canada ( <a href="http://open.canada.ca/en/open-government-licence-canada">http://open.canada.ca/en/open-government-licence-canada</a> )
Access Constraints	License
Use Constraints	Other restrictions
Use Constraints	License End User
Other constraints	Please note, an End-User Agreement is required for accessing these data. Please refer to this agreement for information regarding restrictions of use: <a href="http://cfs.nrcan.gc.ca/common/cwfis/End_User_Agreement_gen_EN.html">http://cfs.nrcan.gc.ca/common/cwfis/End_User_Agreement_gen_EN.html</a>
Spatial representation type	Vector
Metadata language	English
Supplemental Information	<p>The Fire Monitoring, Mapping, and Modeling System (Fire M3) began operations in 1998 as an initiative of the Canada Centre for Remote Sensing and the Canadian Forest Service, both agencies of Natural Resources Canada.</p> <p>The goals of Fire M3 are to use low-resolution satellite imagery to identify and locate actively burning fires on a daily basis; to estimate daily and annual area burned; and to model fire behavior and biomass consumption from fires.</p> <p>Hotspot locations and attributes are obtained from the US National Oceanic and Atmospheric Administration (NOAA), the US National Atmospheric and Space Administration (NASA), the US Forest Service, and the University of Maryland. Hotspots are identified from infrared satellite imagery acquired by the Advanced Very High Resolution Radiometer (AVHRR), Moderate Resolution Imaging Spectroradiometer (MODIS) and the Visible Infrared Imaging Radiometer Suite (VIIRS).</p> <p>Subsequent processing of hotspot data involves combining the datasets</p>

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Role	Custodian

Distributor Contact	
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Protocol	http
Role	Distributor

from multiple sources, estimating fire weather conditions and fire behavior potential at hotspot locations using the Canadian Forest Fire Danger Rating System, and mapping burned area. In addition to images and reports for the web, data is made available to partners in fire management and industry, and it is used as input to other models such as smoke forecasting.

More information about Fire M3 is available at: <http://cwffis.cfs.nrcan.gc.ca/background/dsm/fm3>

## Distribution Information

### Distribution format

Name	SHP
Version	ESRI shapefiles geospatial vector data format

### Distribution format

Name	CSV
Version	Comma separated text files

## Metadata Record

File Identifier	a7710f05-84dc-4ce2-a732-1a3fe67b600e
Hierarchy Level	Dataset
Date Stamp	2019-09-09T16:52:07
Metadata language	English (Other language:French)
Character set	UTF8
Metadata standard name	North American Profile of ISO 19115:2003 - Geographic information - Metadata
Metadata standard version	CAN/CGSB-171.100-2009

## Reference System Information

Unique resource identifier	EPSG:3978
Codespace	<a href="http://www.epsg-registry.org">http://www.epsg-registry.org</a>