

The European Forest Fire Information System

User Guide to Current Situation and Fire History applications

Version 1.0, June 2012

The screenshot displays the EFFIS website interface. At the top, there is a blue header with the European Commission logo, the text 'European Commission Joint Research Centre Institute for Environment and Sustainability', and the title 'European Forest Fire Information System'. Below the header is a navigation menu with links: 'Europa', 'EC', 'JRC', 'IES', 'LMNH', 'Forest', and 'EFFIS'. A search bar is located on the right side of the navigation menu. The main content area is divided into several sections:

- EFFIS**: A sidebar menu with links to Home, EFFIS News, About EFFIS, Reports and publications, and Member Area.
- WELCOME TO EFFIS**: A text block stating that the EFFIS supports services in charge of forest protection against fires in EU countries and provides updated and reliable information on wildland fires in Europe.
- APPLICATIONS**: A sidebar menu with links to Current Situation, Fire News, Fire History, and Data and Services.
- CURRENT FIRE SITUATION**: A section featuring a map of Europe showing fire danger and hot spots, with text describing the most up-to-date information on the current fire season.
- FIRE NEWS**: A section with a text block about news from the press on wildland fires, updated daily by the EFFIS team, and a red RSS feed icon.
- EFFIS ADVANCED VIEWER**: A section with a screenshot of the web mapping interface and text describing its access to main modules, historical data, and advanced analysis capabilities.

At the bottom left, there are logos for the JRC (European Commission) and IES (Institute for Environment and Sustainability). At the bottom right, there is a link for 'Latest Fire News'. The page is dated 'Last Updated on Friday, 06 August 2010 14:14'.

Current Situation Application

The current situation enables the user to view and query map layers, giving an indication of the fire situation across Europe for the current date and surrounding short term time frame.

The Application is normally not updated from November to February.

The screenshot displays the 'EFFIS - Current Situation' web application interface. The interface is divided into several functional areas:

- Layer Controls:** Located at the top left, it includes a checked box for 'Fire Danger Forecast 2012', a 'Source' dropdown set to 'Meteo France (10 km resoli)', and an 'Index' dropdown set to 'Fire Weather Index (FWI)'. Below these are date selection options for July (4, 5, 6, 7) and a 'Daily Modis' section with a date dropdown set to 'Wednesday 4th of July 2012'. There are also sections for 'Hot Spots' and 'Burnt Areas' with their respective update and time range options.
- Map Tools:** A vertical toolbar on the left side of the map area, containing icons for home, full screen, pan, zoom, and other map navigation functions.
- Burnt area locator:** A section below the layer controls with dropdown menus for 'Country' (set to 'All') and 'Province' (set to '...Select...'). It lists two recent burnt areas: 'Castifao' in Haute-Corse (France) and 'Maronas' in Kypros/Kibris (Cyprus), each with its last update date, start date, and size.
- Base layer selector:** A small icon in the top right corner of the map area, used to switch between different map base layers.
- Legend:** A legend box at the bottom left titled 'Fire Danger Forecast' with a color-coded scale: Very Low (light green), Low (yellow), Moderate (orange), High (red), Very High (dark red), and Extreme (black).

The main map area shows a color-coded fire danger forecast for Europe, with a scale bar indicating 500 km and 500 mi. The map is overlaid on a satellite-style base layer. The application title 'EFFIS - Current Situation' is displayed at the top center of the map area.

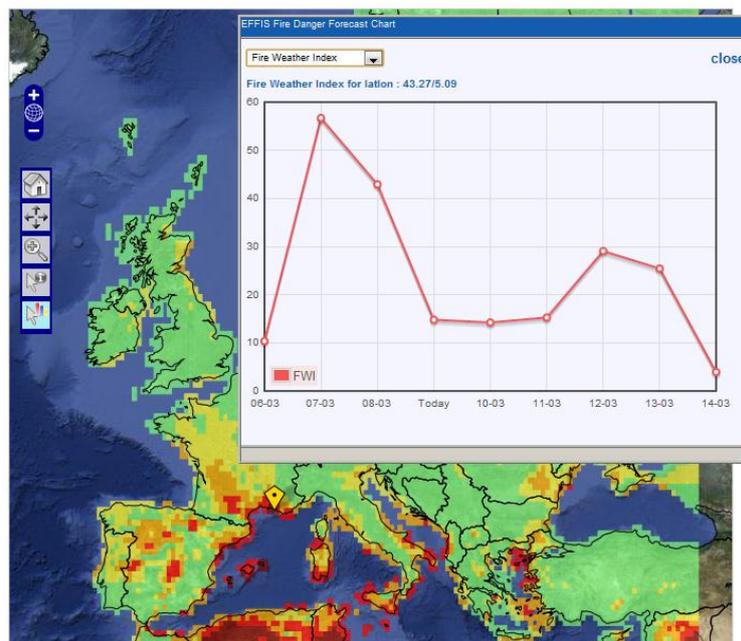
Map Tools

A set of map tool can be picked from the left side of the map image.

The following table explains how the tools work

Tool	Icon	Details
Home		Tool returns the map to the original extent covering Europe.
Pan		Tool enables to pan around the map by holding down the left mouse button and dragging the map image.
Zoom In		Tool enables to zoom in to an area of interest either by a single click, or by holding down the left mouse button and dragging the mouse to create a zoom box area.
Identify		Tool returns information for layers switched on, by clicking on the point of interest on the map.
Fire Danger Chart		Tool displays a chart for the components making up the Fire Danger Value. Select the tool and then click on the map in the area of interest.

Example: by selecting the fire danger chart button and then clicking on a point in the map, the graph below will be shown. Note the point on the map is shown with a yellow icon. The user can further interact with the graph by selecting the FWI components for which the forecasted values of next 6 days are wanted.



Mouse Controls

Zoom In: You can zoom in on the map by rolling the mouse wheel forward.

Zoom Out: You can zoom out on the map by rolling the mouse wheel backward.

Resize Map

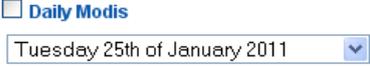
 [increase map](#) The increase map tool can be found at the top left of the map image. This will increase the map to the full width of the EFFIS page template hiding the layer controls.

 [decrease map](#) The decrease map tool returns the map image to the original size and redisplay the layer controls.

Layer Controls

The layer controls are used to add and remove layers from the map. This can be done by clicking either on the checkbox or on the layer name.

Further explanations on the content of individual layers can be found here: <http://effis.jrc.ec.europa.eu/about/technical-background>.

	<p>The Fire Danger Forecast Controller enables to display the Fire Danger Forecast for the current date and the following six days.</p> <p>Fire Danger Forecast is calculated from different meteorological forecast sources selectable from the top drop down menu.</p> <p>A second drop down menu allows selecting the fire danger index to map. The selectable fire danger indices are the components of the Fire Weather Index (FWI) System.</p> <p>To change the displayed day, click on the date of interest, or use the arrows aside the <Day> tool to page through the layers.</p>
	<p>The Daily MODIS drop down allows displaying satellite imagery of Europe for the last available day (typically the day before current one) and previous six days.</p>
	<p>The Hot Spots control allows viewing the hot spots layer from three alternative time frames. Hot spots have different colours depending on the time frame they belong to.</p>
	<p>The Burnt Areas control allows viewing the burned area layer from three alternative time frames of the current fire season. Perimeters of the burnt areas are drawn in different colours depending on the time frame they belong to.</p>

Burnt Area Locator

	<p>The burnt area locator allows navigating through all fires mapped along the current fire season and displaying a given fire of interest.</p> <p>Use the drop down boxes on top to filter the list of burned areas based on country/province of interest.</p> <p>Fires in the list are colour coded to match the time frames of the map (orange for fires of last seven days, yellow for last 30 days fires and cyan for older fires).</p> <p>To view the fire on the map, click on the  icon for that fire in the list. This will zoom the map to the location of the fire and display the fire properties in the identification popup window.</p>
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Legend and Layer Information

	<p>The legend area is updated with the selected layer details when a layer is added to the map. The "layer information" link provides further information describing how the layer was derived.</p>
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Fire History Application

The purpose of the application is to query and map historical information on forest fires extracted from the European Fire Database.

Data are aggregated on administrative districts from NUTS¹ level 3, i.e. provinces (NUTS2 for Germany) to Country levels.

The selectable information comprises total burnt area, number of fires, and average fire size. The information is displayed as classified maps.

The map layer attributes can be viewed using the identify tool.

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European Forest Fire Information System

Europa > EC > JRC > IES > LMNH > Forest > EFFIS > Fire History

search...

HOME

Wednesday 30th of March 2011

EFFIS - Fire History

MAP LAYERS

Burnt areas in 2008, nuts 0 (>0 ha)

No fires

1 - 1000 ha

1001 - 10000 ha

10001 - 50000 ha

50001 - 100000 ha

>100000 ha

Under assessment

Opacity +

information

remove

FIRE HISTORY QUERY

Year: 2008

Agg Level: Country

Type: Burnt areas

Min Fire Size: 0 ha

Run Query

500 km
500 mi

Permalink
1732837,61434,4403853,13063

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¹ The NUTS classification (Nomenclature of territorial units for statistics) was established by Eurostat, to provide a single uniform breakdown of territorial units for the European Union.

See http://epp.eurostat.ec.europa.eu/portal/page/portal/nuts_nomenclature/correspondence_tables/national_structures_eu for the correspondence between NUTS and national structures of EU Member States.

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European Commission
Joint Research Centre European Forest Fire Information System
 Institute for Environment and Sustainability

Europa > EC > JRC > IES > LMNH > Forest > EFFIS > Fire History

HOME Wednesday 30th of March 2011

EFFIS - Fire History

MAP LAYERS

- Burnt areas in 2008, nuts 0 (0 ha)
- No fires
- 1 - 1000 ha
- 1001 - 10000 ha
- 10001 - 50000 ha
- 50001 - 100000 ha
- >100000 ha
- Under assessment

Map Layer Control area

Map Viewer Tools

User defined Map Layer

FIRE HISTORY QUERY

Year: 2008
 Agg Level: Country
 Type: Burnt areas
 Min Fire Size: 0 ha

Query Tool Input fields

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Creating a layer

To create a layer a query to the database must be run using the query tool in the Fire History Panel.

FIRE HISTORY QUERY

Year: 2004

Agg Level: Nuts level 2

Type: Number of fires

Min Fire Size: 0.01 ha

 Run Query

The Fire History Query panel allows the user to add a new layer(s) to the map.

Using the drop down fields the user can select the options of interest.

For example a user may want to display a layer based on the number of fires, aggregated at nuts level 2, in the year 2004 where the minimum fire size was greater than 0.01 ha.

After selected the input parameters the user can add the layer by clicking on the 'Run Query' button.

The user can add up to 5 different layers using this tool.

On clicking the 'Run Query' an entry for the layer will be generated and added to the map layers panel as shown.

From this control, the user can do the following

- Show/hide the layer using the checkbox.
- Show/hide the legend using the +/- sign respectively.
- Increase or decrease the opacity allowing the user to view layers under the current layer.
- Remove the layer completely from the map by clicking on 'remove'.
- Display basic layer information by clicking on 'information'. This information includes a link to the description of the European Fire Database.

To close this window click 'close' in the window.

MAP LAYERS

Number of fires in 2004, nuts 2 (>0.01 ha)

No fires ◀ - Opacity ▶

1 - 200 fires information

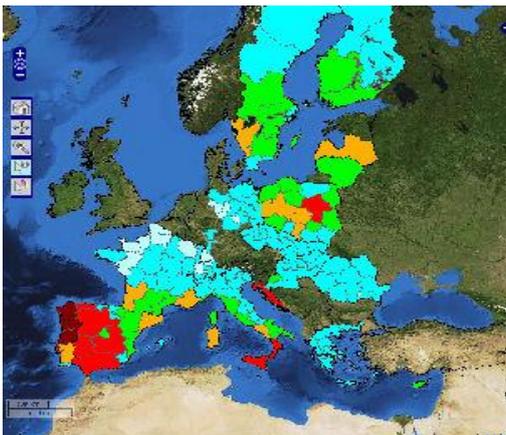
201 - 500 fires

501 - 1000 fires

1001 - 2500 fires

>2500 fires remove

Under assessment

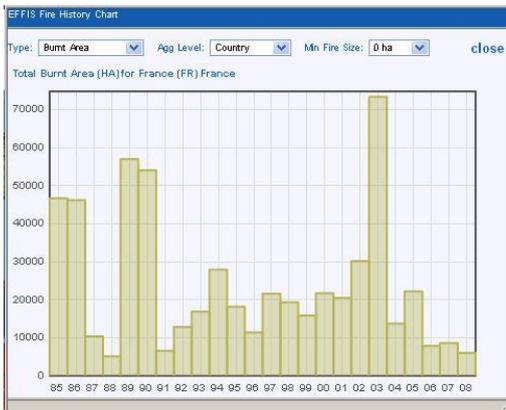


After clicking the 'Run Query' button the layer will be generated on the map. This layer can be panned, zoomed, queried using the map tools which will be discussed.

Map Tools

Tool	Icon	Details
Home		Tool returns the map to the original extent covering Europe.
Pan		Tool enables you to pan around the map by holding down the left mouse button and dragging the map image.
Zoom In		Tool enables you to zoom in to an area of interest either by a single click, or by holding down the left mouse button and dragging the mouse to create a zoom box area.
Identify		Tool returns information for layers switched on, by clicking on the point of interest on the map. The information returned includes all 3 query types (Number of fires, Average fire size, burned area total), for every layer.
Chart tool		Tool displays a chart for the components making up the Burned area for all years. Select the tool and then click on the map in the area of interest. Having clicked on the map a graphical window will appear containing the chart.

Chart Tool



Having selected the chart tool and clicked on the map, a chart window will appear as shown.

As default the chart displays the burned area, at country level, with no minimum fire size for all years. The information relates to the NUTS on the map selected by the user by pointing on it. If the map is showing country levels the information will relate to countries, if the map is showing NUTS3, it will relate to NUTS3 statistics and so on.

The user can change the information displayed by the chart by updating the dropdown boxes above the chart.