

Report by EFFIS on wildfires in Europe, Middle East and North Africa

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Outline:

- 1. EFFIS at the basis of wildfire monitoring in Europe
- 2. The 2017 wildfire season
- 3. Spatial distribution of wildfires
- 4. Fire size in relation to burnt area in the EU
- 5. Trends of burnt areas and fires in the EU
- 6. Impact of wildfires in Europe: 2000 to 2017
- 7. Conclusions







COPERNICUS



Emergency Management Service

European Commission > JRC EU Science Hub > DRM > Copernicus EMS > European Forest Fire Information System (EFFIS)

About EFFIS ~

Reports and Publications ~

Applications ~

Partners

Welcome to EFFIS

The European Forest Fire Information System (against fires in the EU countries and provides t with updated and reliable information on wildla

A number of specific applications are available

Current Situation Viewer

Long-term seasonal fire weather forecast

Long-term monthly fire weather forecast

Fire History

Fire news

Since 1998, EFFIS is supported by a network of **Data and services**

e Expert Group on

rotection of forests

opean Parliament

Forest Fires, which is registered under the Secretariat General of the European Commission. Currently, this group consists on experts from 40 countries in European, Middle East and North African countries. In 2015, EFFIS became one of the components of the Emergency Management Services in the EU Copernicus program.

The link to some of the most widely used applications is provided below. Additional applications such as the extension of EFFIS to the global level into a Global Wilfire Information System (GWIS) are available through the side "Applications" box.



Current Situation

The most up to date information on the current fire season in Europe and in the Mediterranean area. This includes today meteorological fire danger maps and forecast up to 6 days, daily updated maps of hot spots and fire perimeters.



Fire News

A selection of news from the press on wildland fires in Europe updated daily by the EFFIS team. News can be browsed for specific countries selected by the user from the news map.

Visit the brand-new

GWIS Current Situation Viewer

EFFIS Damage Assesment

EFFIS Burned Area (ha) Total EU28 Countries

Mapped: 56156 (13.3 % Forest) Estimated: 74874.67

Total EFFIS Coverage

Mapped: 100025 Estimated: 133366.67

(Updated daily)

DA Disclaimer and layer information

Applications

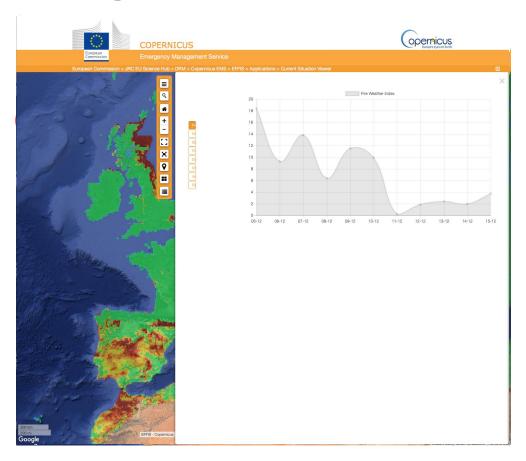
Fire news

Current Situation Viewer Long-term seasonal fire weather forecast Long-term monthly fire weather forecast Fire History

Joint Research Centre



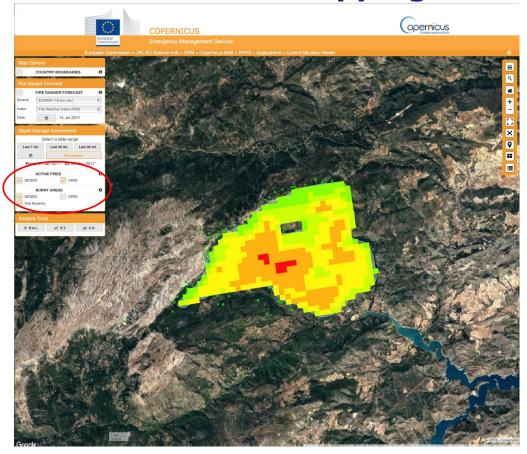
EFFIS - Fire Danger Forecast





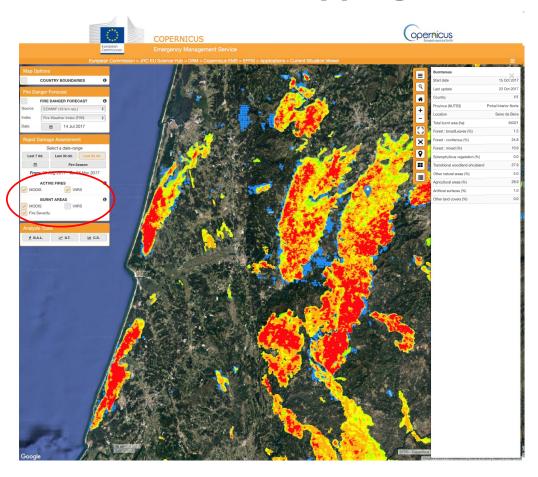


Active fire and burnt area mapping



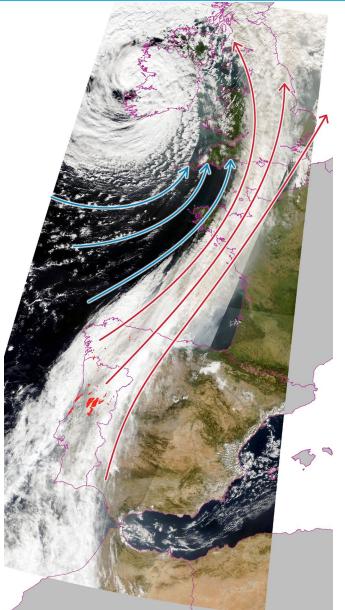


Active fire and burnt area mapping



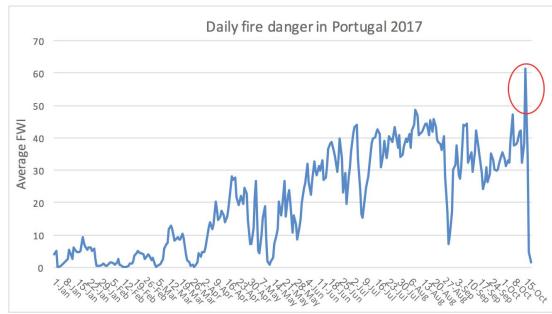






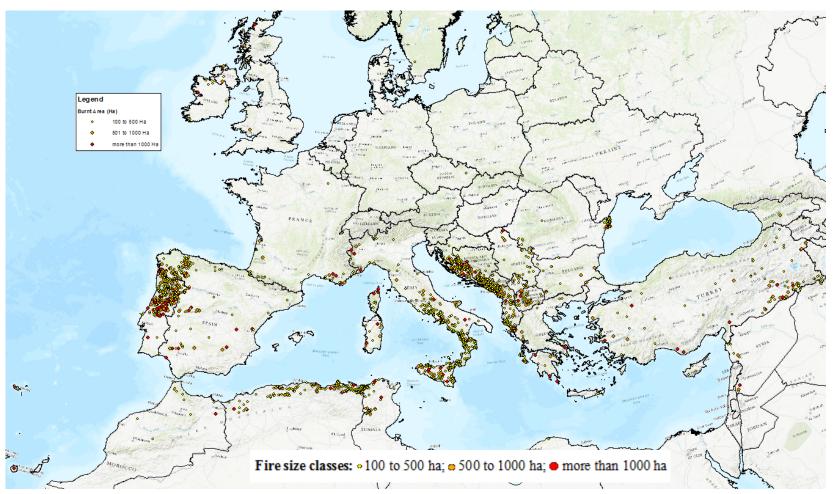
Ophelia winds fueling wildfires in Portugal and Spain and blowing the smoke plume north.

Burnt scars of the fires in Portugal and Spain on Oct. 15th-16th are over imposed of NASA Terra satellite images (JRC Tech. Report JRC108603 of Sept. 19th).





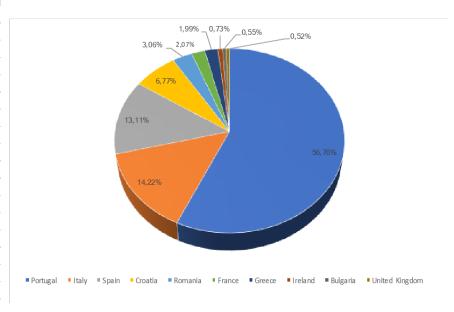
2017 - Spatial distribution of large fires





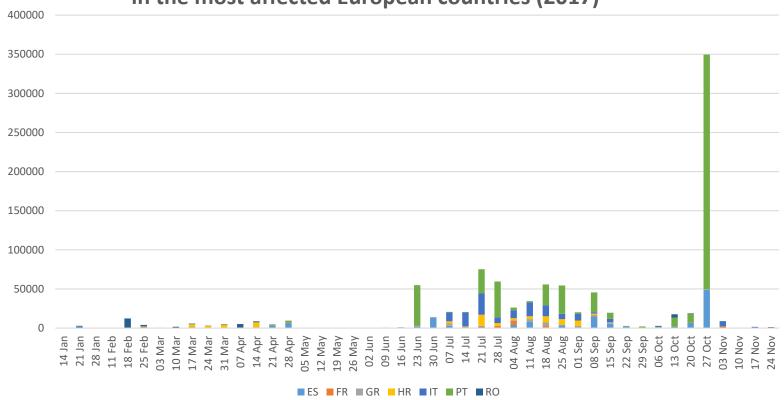
2017 - Burned area by mapped in the EU countries*

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Country	Area (HA)	%	Number of fires (>30 ha)
Portugal	563,790.30	56.70%	412
Italy	141,425.40	14.22%	788
Spain	130,389.30	13.11%	318
Croatia	67,362.80	6.77%	104
Romania	30,445.80	3.06%	65
France	20,623.70	2.07%	90
Greece	19,779.40	1.99%	57
Ireland	7,241.10	0.73%	18
Bulgaria	5,438.80	0.55%	18
United Kingdom	5,126.70	0.52%	19
Sweden	732.9	0.07%	8
Cyprus	672.4	0.07%	4
Hungary	458.3	0.05%	3
Finland	234	0.02%	4
Slovenia	187.7	0.02%	2
Czech republic	144.9	0.01%	1
Denmark	130.4	0.01%	2
Estonia	57.5	0.01%	1
Germany	56.7	0.01%	1
Latvia	34.5	0.00%	1
Total:	994,332.60	100.00%	1,916.00





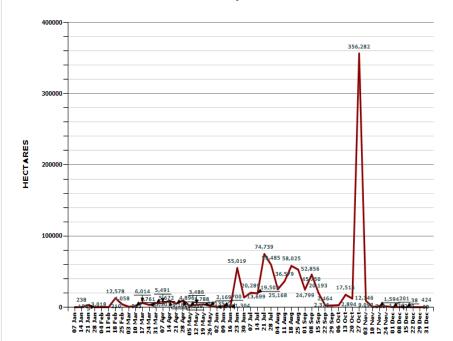
Weekly burnt area mapped by EFFIS in the most affected European countries (2017)*



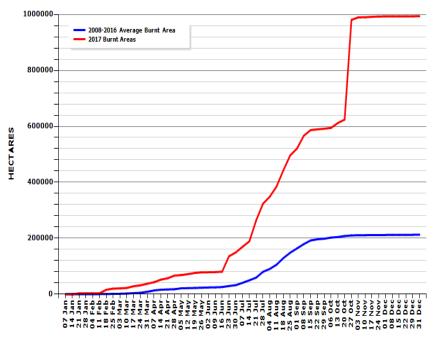


2017 – Weekly mapping of fires and burnt areas in EU countries*



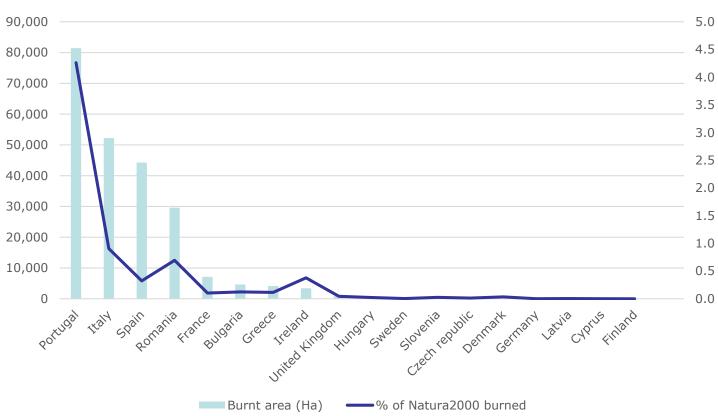


Cumulative Burnt areas in EU Countries (effis data)





Burnt area in Natura 2000 sites



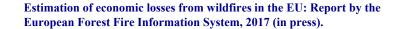
Nearly 25% of the total burnt area in the EU occurred in Natura 2000 sites





Impact of wildfires in the EU in 2017

- Area burnt: approx. 1.2 Million ha
- Firefighters and civilians killed by wildfires: 127 people
- Economic losses: 9.8 Billion Euro







European Commission - Press release

Increased prevention efforts needed to curb the growing risk of future wildfires

Brussels, 20 September 2018

The latest Commission report on forest fires¹ shows the need to tackle climate change "to leave a healthier planet for those that follow", as President Jean-Claude Juncker highlighted in his latest State of the Union Address and calls for stronger measures to prevent wildfires.

http://europa.eu/rapid/press-release IP-18-5805 en.htm

¹ San-Miguel-Ayanz, J., Durrant, T., Boca, R., Libertà, G., Branco, A., de Rigo, D., Ferrari, D., Maianti, P., Artés Vivancos, T., Costa, H., Lana, F., Löffler, P., Nuijten, D., Ahlgren, A.C., Leray, T. 2017, Forest Fires in Europe, Middle East and North Africa 2017. EUR 29318 EN, ISBN 978-92-79-92831-4, doi: 10.2760/663443





Thank you

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