

## Current and projections of Fire Weather Index, 1981-2100, Mar. 2017

This dataset refers to the climate change assessment of the Fire Weather Index (FWI) aggregated component, computed daily from 1980 to 2100 for five models for two scenarios (2°C global warming and RCP8.5 high emissions scenario at the end of this century), see "Forest fire danger extremes in Europe under climate change", table 4 ( <https://doi.org/10.2760/13180> ).

The temporal extent covers these periods:

- \* Control period: 1981-2010;
- \* Two degrees global warming: 2016-2059 (variable depending on the specific run);
- \* Long-term: 2071-2100.

The main scope of the dataset covers Europe. A number of countries are partially covered: DZ, EG, EH, GE, GL, IQ, JO, KZ, LY, MA, ML, MR, SA, SJ, SY, TR, RU. Cells with missing data may be present in both totally and partially covered countries.

The dataset contributes to the EEA indicator CLIM035 "Forest fires in Europe" ( <https://www.eea.europa.eu/data-and-maps/indicators/forest-fire-danger-4/assessment> )

### Simple

<b>Date (Creation)</b>	2017-03-16				
<b>Date (Publication)</b>	2017-03-16				
<b>Edition</b>	1.0				
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	European Environment Agency		sdi@eea.europa.eu	<a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a>	Point of contact
	European Environment Agency		sdi@eea.europa.eu		Custodian
<b>Maintenance and update frequency</b>	Unknown				
<b>GEMET - INSPIRE themes, version 1.0</b>	<ul style="list-style-type: none"> <li><a href="#">Natural risk zones</a></li> </ul>				
<b>Keywords</b>					
<b>Keywords</b>					
<b>GEMET</b>	<ul style="list-style-type: none"> <li>climate change adaptation</li> <li>climate change impact</li> <li>risk</li> <li>climate</li> <li>fire</li> <li>disaster</li> <li>forest fire</li> </ul>				
<b>Continents, countries, sea regions of the world.</b>	<ul style="list-style-type: none"> <li>Belarus</li> </ul>				

	<ul style="list-style-type: none"> <li>• EEA38 (from 2020)</li> <li>• United Kingdom</li> <li>• Vatican</li> <li>• Andorra</li> <li>• Palestine</li> <li>• Gibraltar</li> <li>• Monaco</li> <li>• Lebanon</li> <li>• Isle of Man</li> <li>• San Marino</li> <li>• Jersey</li> <li>• Israel</li> <li>• Tunisia</li> <li>• Ukraine</li> <li>• Moldova</li> <li>• Faeroe Islands</li> <li>• Guernsey</li> </ul>
<b>Spatial scope</b>	<ul style="list-style-type: none"> <li>• European</li> </ul>
<a href="#">EEA topics</a>	<ul style="list-style-type: none"> <li>• Climate adaptation</li> </ul>
<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">public access limited according to Article 13(1)(a) of the INSPIRE Directive</a>
<b>Use constraints</b>	Other restrictions
<b>Other constraints</b>	The underlying dataset is owned by the Joint Research Centre (JRC) and cannot be further re-distributed without their permission. Copyright holder: Joint Research Centre (JRC).
<b>Spatial representation type</b>	Grid
<b>Distance</b>	25 km
<b>Language of dataset</b>	English
<b>Topic category</b>	<ul style="list-style-type: none"> <li>• Environment</li> <li>• Climatology, meteorology, atmosphere</li> </ul>

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Begin date	1981-01-01
End date	2100-12-31
Coordinate reference system identifier	<a href="#">EPSG:4258</a>
Distribution format	<ul style="list-style-type: none"> <li>SHP ( )</li> </ul>

### OnLine resource

No information provided.

Hierarchy level	Dataset
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### Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification

Statement	<p>Data are derived from the EURO-CORDEX runs ( <a href="http://www.euro-cordex.net">http://www.euro-cordex.net</a> ). A summary table of all the EURO-CORDEX variables is accessible at: <a href="http://is-enes-data.github.io/CORDEX_variables_requirement_table.pdf">http://is-enes-data.github.io/CORDEX_variables_requirement_table.pdf</a> . A bias correction procedure was applied to the EURO-CORDEX data, as described in <a href="https://doi.org/10.1029/2011jd015934">https://doi.org/10.1029/2011jd015934</a> . <a href="https://doi.org/10.1029/2012jd017968">https://doi.org/10.1029/2012jd017968</a> . <a href="https://doi.org/10.1002/2015jd024411">https://doi.org/10.1002/2015jd024411</a> . The processing from the bias-adjusted weather data to the fire danger estimates is described in <a href="https://doi.org/10.2760/13180">https://doi.org/10.2760/13180</a> .</p> <p>Climate change assessment of the Fire Weather Index (FWI) aggregated component, computed daily from 1980 to 2100 for five models (see Table 4 of de Rigo et al., 2017 <a href="https://doi.org/10.2760/13180">https://doi.org/10.2760/13180</a> ). The daily FWI is computed for each scenario realisation based on a corresponding model. The entire time series has been estimated (from the end of the control period, the scenario RCP8.5 has been used) and the 90 % quantile of each time period has been computed. The median of the five model ensemble is shown for each period.</p> <p>The maps are reprojected in EPSG:4258 (ETRS89 LAEA) while the original data are under a rotated-pole projection, as pecified in the EURO-CORDEX project ([1] <a href="https://www.euro-cordex.net">https://www.euro-cordex.net</a> ; see in particular e.g. [2] <a href="https://is-enes-data.github.io/cordex_archive_specifications.pdf">https://is-enes-data.github.io/cordex_archive_specifications.pdf</a> and [3] <a href="http://www.cordex.org/images/pdf/cordex_regions.pdf">http://www.cordex.org/images/pdf/cordex_regions.pdf</a> ). In the NetCDF format, the maps include the coordinates in EPSG:4326 (WGS84 lat-lon)</p> <p>The original grid cells follow the EURO-CORDEX rotated-pole projection (see above), with grid spacing of 0.11 degrees. Approximately, the spatial resolution of a cell is about 12 km.</p> <p>The temporal coverage is as follows:</p> <ul style="list-style-type: none"> <li>Control period (per-Control): 1981-2010</li> <li>Two degrees global warming (per-2-0-deg): 2016-2059 (variable 30-year interval, depending on the specific model)</li> <li>Long-term (per-Long-tm): 2071-2100 (under RCP8.5)</li> </ul> <p>As a statistic, the multi-model median of the model-specific q90 extremes is estimated.</p>
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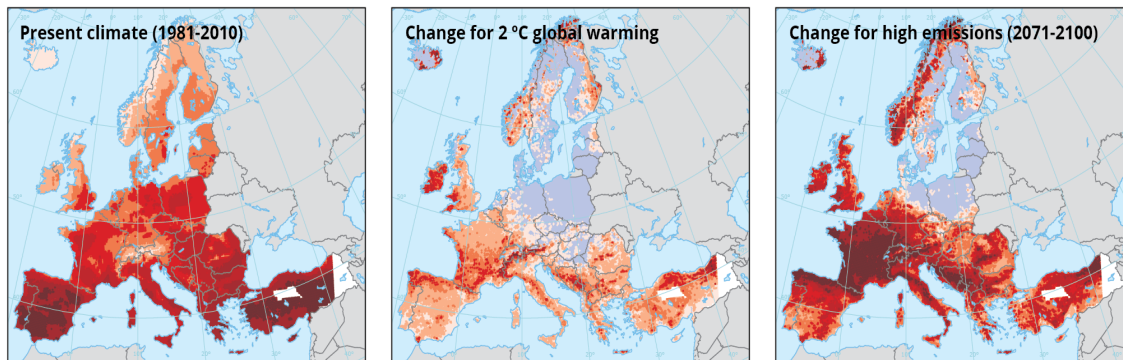
The columns of the tabular dataset are as follows:

- LAEA-x, LAEA-y : point (centroid) coordinates in EPSG:3035
- longitude, latitude : point (centroid) coordinates in EPSG:4326
- FWI\_per-Control, FWI\_per-2-0-deg, FWI\_per-Long-tm : FWI multi-model statistic for each time period.

## Metadata

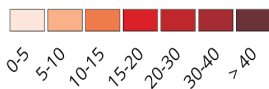
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Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2021-11-30T15:56:03.608Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	Organisation name	Individual name	Electronic mail address Website Role Point of contact
	European Environment Agency		sdi@eea.europa.eu

## Overviews

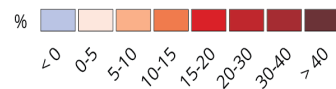


### Overall weather-driven forest fire danger in the present climate and projected changes under two climate change scenarios

Fire Weather Index



Projected change in Fire Weather Index



No data

Outside coverage

0 750 1 500 km

Provided by

