

# JRC Dataset

## Fire emissions in the Global Wildfire Information System (version 2-3-1)

### Description:

This dataset series refers to the information on fire emissions provided by the Global Wildfire Information System (GWIS). [How to cite: see below](#) Fire emissions information is a selection of fire emissions species presented in GWIS to allow compatibility with the emissions estimates provided in the European Forest Fire Information System (EFFIS). Available fire emissions species are black carbon; methane; carbon dioxide; carbon monoxide; sulfur dioxide; nitrogen oxides; organic carbon; particulate matter; non-methane hydro-carbon; and total carbon in aerosols. [How to cite](#) - When using these data, please cite the relevant data sources. A suggested citation is included in the following: - San-Miguel-Ayanz, J., Houston Durrant, T., Boca, R., Libertà, G., Branco, A., de Rigo, D., Ferrari, D., Maianti, P., Artés Vivancos, T., Schulte, E., Löffler, P., Benchikha, A., Abbas, M., Humer, F., Konstantinov, V., Pešut, I., Petkoviček, S., Papageorgiou, K., Toumasis, I., Kütt, V., Kõiv, K., Ruuska, R., Anastasov, T., Timovska, M., Michaut, P., Joannelle, P., Lachmann, M., Pavlidou, K., Debreceni, P., Nagy, D., Nugent, C., Di Fonzo, M., Leisavnieks, E., Jaunķiķis, Z., Mitri, G., Repšienė, S., Assali, F., Mharzi Alaoui, H., Botnen, D., Piwnicki, J., Szczygieł, R., Janeira, M., Borges, A., Sbirnea, R., Mara, S., Eritsov, A., Longauerová, V., Jakša, J., Enriquez, E., Lopez, A., Sandahl, L., Reinhard, M., Conedera, M., Pezzatti, B., Dursun, K. T., Baltaci, U., Moffat, A., 2017. Forest fires in Europe, Middle East and North Africa 2016. Publications Office of the European Union, Luxembourg. ISBN:978-92-79-71292-0, <https://doi.org/10.2760/17690> - Goldammer, J. G., Mangeon, S., Keywood, M., Kaiser, J. W., de Groot, W. J., Gunawan, D., Gan, C., Field, R., Sofiev, M., Baklanov, A., 2018. Vegetation Fire and Smoke Pollution Warning and Advisory System (VFSP-WAS): concept note and expert recommendations. Vol. 235 of GAW Report series. World Meteorological Organization, Geneva, Switzerland. [https://library.wmo.int/doc\\_num.php?explnum\\_id=4519](https://library.wmo.int/doc_num.php?explnum_id=4519) - Monteiro, A., Corti, P., San-Miguel-Ayanz, J., Miranda, A. I., Borrego, C., 2014. The EFFIS forest fire atmospheric emission model: application to a major fire event in Portugal. Atmospheric Environment 84, 355-362. <https://doi.org/10.1016/j.atmosenv.2013.11.059>

### How to cite:

EFFIS team(2018): Fire emissions in the Global Wildfire Information System (version 2-3-1). European Commission, Joint Research Centre (JRC) [Dataset] PID: <http://data.europa.eu/89h/603455f1-ab7d-485c-b10e-3d278c9579d9>

### Keywords:

Copernicus, Copernicus Emergency Management Service, Global Wildfire Information System (GWIS), Modelled family of quantities: Fire emissions, Natural risk zones, disaster, environmental data, fire, forest resource, modelling, scientific research, spatial distribution, vegetation, world

### Related resources:

#### Data access

##### [VIEW] [WMS] GWIS View Service

GWIS view service for thematic typologies of data related to global wildfires (including fire danger; active fires; fire emissions).

[http://gwis.jrc.ec.europa.eu/static/gwis\\_current\\_situation/public/](http://gwis.jrc.ec.europa.eu/static/gwis_current_situation/public/)

##### [Download] Data Download Service

Data download service for thematic typologies of data related to global wildfires (including fire danger; active fires; fire emissions).

<http://gwis.jrc.ec.europa.eu/applications/data-and-services/>

### Additional information:

Last Modified: 2018-01-07

Issue date: 2018-09-28

Landing page: <http://gwis.jrc.ec.europa.eu/>

Temporal coverage: From: 2015-01-01

Language: English

Data theme(s): Environment

EuroVoc domain(s): 52 ENVIRONMENT; 64 PRODUCTION, TECHNOLOGY AND RESEARCH

EuroVoc concept(s): fire; natural hazard; scientific research

Identifier: <http://data.europa.eu/89h/603455f1-ab7d-485c-b10e-3d278c9579d9>

### Geographic information:

Lineage: Fire emissions information in GWIS is provided by the Copernicus Atmosphere Monitoring Service (CAMS) operated by the European Centre for Medium-Range Weather Forecast (ECMWF). Further information on fire emissions presented in GWIS is available at

[http://www.gmes-atmosphere.eu/about/project\\_structure/input\\_data/d\\_fire/](http://www.gmes-atmosphere.eu/about/project_structure/input_data/d_fire/) .

Geographic bounding box: 90.0° N, 180.0° E, -90.0° S, -180.0° W

Coordinate Reference System: WGS 84