

# JRC Dataset

## Flood hazard map of the World - 100-year return period

### Description:

The map depicts flood prone areas at global scale for flood events with 100-year return period. Resolution is 30 arcseconds (approx. 1km). Cell values indicate water depth (in m). The map can be used to assess flood exposure and risk of population and assets. NOTE: this dataset is based on JRC elaborations and is not an official flood hazard map (for details and limitations please refer to related publications).

### Contributors:

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Dottori, Francesco; Alfieri, Lorenzo; Salamon, Peter; Bianchi, Alessandra; Feyen, Luc; Hirpa, Feyera(2016): Flood hazard map of the World - 100-year return period. European Commission, Joint Research Centre (JRC) [Dataset] PID: [http://data.europa.eu/89h/jrc-floods-floodmapgl\\_rp100y-tif](http://data.europa.eu/89h/jrc-floods-floodmapgl_rp100y-tif)

### Keywords:

flood hazard, global, map

### Related resources:

#### Data access

##### GeoTiff image

Flood hazard map of the World - 100-year return period

[http://cidportal.jrc.ec.europa.eu/ftp/jrc-opendata/FLOODS/GlobalMaps/floodMapGL\\_rp100y.zip](http://cidportal.jrc.ec.europa.eu/ftp/jrc-opendata/FLOODS/GlobalMaps/floodMapGL_rp100y.zip)

#### Publications

##### The credibility challenge for global fluvial flood risk analysis

Trigg M; Birch C; Neal J; Bates P; Smith A; Sampson C; Yamazaki D; Hirabayashi Y; Pappenberger F; Dutra E; Ward P; Winsemius H; Salamon P; Dottori F; Rudari R; Kappes M; Simpson A; Hadzilacos G; Fewtrell T. The credibility challenge for global fluvial flood risk analysis. ENVIRONMENTAL RESEARCH LETTERS 11 (9); 2016. p. 094014. JRC102849

DOI:[10.1088/1748-9326/11/9/094014](https://doi.org/10.1088/1748-9326/11/9/094014)

##### Development and evaluation of a framework for global flood hazard mapping

Dottori F, Salamon P, Bianchi A, Alfieri L, Hirpa F, Feyen L. Development and evaluation of a framework for global flood hazard mapping. ADVANCES IN WATER RESOURCES 94; 2015. p. 87-102. JRC93811

DOI:[10.1016/j.advwatres.2016.05.002](https://doi.org/10.1016/j.advwatres.2016.05.002)

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