

Dataset collection

Flood Hazard Maps at European and Global Scale

Description:

This collection contains a set of flood hazard maps, based on streamflow data from the European and Global Flood Awareness System (EFAS and GloFAS) and computed using two-dimensional hydrodynamic models. The European and global maps are documented in the following publications, respectively: 1. Alfieri, L., Salamon, P., Bianchi, A., Neal, J., Bates, P.D., Feyen, L., 2014. Advances in pan-European flood hazard mapping, *Hydrol. Process.*, 28 (18), 4928-4937, doi:10.1002/hyp.9947. 2. Dottori, F., Salamon, P., Bianchi, A., Alfieri, L., Hirpa, F.A., Feyen, L., 2016a. Development and evaluation of a framework for global flood hazard mapping. *Advances in Water Resources* 94, 87-102. IMPORTANT NOTE: the maps in this dataset are based on JRC modelling tools and have several limitations which should be taken into account during usage (see mentioned references for a detailed description). In particular, note that the maps might differ from official national flood hazard maps.

Datasets organisation:

The data is organized in two folders (European and global maps). Each folder contains flood hazard maps for several return periods (i.e. flood probability), from 10 to 500 years. Maps in GeoTIFF format and can be loaded in any GIS program. The folder of global maps contains also a map of permanent water bodies (lakes and reservoirs) which integrate the flood hazard maps.

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Landing page:

<https://ec.europa.eu/jrc/en/research-topic/floods>

Datasets:

- [Flood hazard map for Europe - 100-year return period \[jrc-floods-floodmapeu_rp100y-tif\]](#)
- [Flood hazard map for Europe, 10-year return period \[jrc-floods-floodmapeu_rp10y-tif\]](#)
- [Flood hazard map for Europe, 200-year return period \[jrc-floods-floodmapeu_rp200y-tif\]](#)
- [Flood hazard map for Europe, 20-year return period \[jrc-floods-floodmapeu_rp20y-tif\]](#)
- [Flood hazard map for Europe, 500-year return period \[jrc-floods-floodmapeu_rp500y-tif\]](#)
- [Flood hazard map for Europe, 50-year return period \[jrc-floods-floodmapeu_rp50y-tif\]](#)
- [Map of permanent water bodies of the World \[jrc-floods-floodmapgl_permwb-tif\]](#)
- [Flood hazard map of the World - 100-year return period \[jrc-floods-floodmapgl_rp100y-tif\]](#)
- [Flood hazard map of the World - 10-year return period \[jrc-floods-floodmapgl_rp10y-tif\]](#)
- [Flood hazard map of the World - 200-year return period \[jrc-floods-floodmapgl_rp200y-tif\]](#)
- [Flood hazard map of the World - 20-year return period \[jrc-floods-floodmapgl_rp20y-tif\]](#)
- [Flood hazard map of the World - 500-year return period \[jrc-floods-floodmapgl_rp500y-tif\]](#)
- [Flood hazard map of the World - 50-year return period \[jrc-floods-floodmapgl_rp50y-tif\]](#)