JRC Dataset

Flood hazard map of the World - 50-year return period

Description:

The map depicts flood prone areas at global scale for flood events with 50-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:

- Dottori, Francesco francesco.dottori@ec.europa.eu
- Alfieri, Lorenzo lorenzo.alfieri@ec.europa.eu
- Salamon, Peter peter.salamon@ec.europa.eu
- Bianchi, Alessandra alessandra.bianchi@ext.ec.europa.eu
- Feyen, Luc luc.feyen@ec.europa.eu
- Hirpa, Feyera feyera.hirpa@ouce.ox.ac.uk

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Keywords:

flood hazard, global, map

Related resources:

Data access

GeoTiff image

Flood hazard map of the World - 50-year return period

http://cidportal.jrc.ec.europa.eu/ftp/jrc-opendata/FLOODS/GlobalMaps/floodMapGL_rp50y.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

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

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