EEA geospatial data catalogue

# EEA potential flood-prone area extent, Jan. 2020

The EEA potential flood prone area extent delineates the area that is flooded once every 100 years, i.e. the probability of flooding is 1% assuming that flooding is unrestricted. The potential flood prone area is comprised of the river channel and floodplain. In reality, the floodplain is split into an active floodplain where flooding still occurs, and former floodplain where flooding is restricted due to flood protection. The former floodplain could be flooded again either if a flood exceeds the capacity of flood protection, or if factors that control the presence of water were removed. These factors include channel and floodplain morphological alterations as well as structural flood protection measures.

The spatial coverage of the data set is EEA39 countries.

## Simple

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| **Date (Creation)** | 2019-02-01 |
| **Date (Publication)** | 2020-01-31 |
| **Edition** | 01.00 |
| **Citation identifier** | eea_v_3035_50_k_flood-prone_p_2011_2016_v01_r00 |
| **Citation identifier** | DAT-231-en |
| **Point of contact** | **Organisation name** / **Individual name** / **Electronic mail address** / **Website** / **Role**<br>European Environment Agency / sdi@eea.europa.eu / http://www.eea.europa.eu / Point of contact<br>European Environment Agency / sdi@eea.europa.eu / Custodian |
| **Maintenance and update frequency** | As needed |
| **GEMET - INSPIRE themes, version 1.0** | • Natural risk zones |
| **Keywords** | |
| **Keywords** | |
| **GEMET** | • hydrography<br>• alluvial plain<br>• flooding<br>• aquatic environment<br>• sensitive environment<br>• geography<br>• natural risk analysis<br>• flood risk management<br>• sensitive natural area<br>• Water Framework Directive<br>• environmental policy<br>• water<br>• surface water management<br>• natural risks prevention |

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| | • wetland<br>• animal habitat<br>• land use<br>• flood<br>• adaptation strategy<br>• inland water<br>• wildlife protection |
| **Continents, countries, sea regions of the world.** | • EEA39 |
| **Spatial scope** | • European |
| **EEA Management Plan** | • 2020 1.5.3 |
| **EEA topics** | • Water<br>• Land use<br>• Extreme weather<br>• Climate change adaptation |
| **Access constraints** | Other restrictions |
| **Other constraints** | no limitations to public access |
| **Use constraints** | Other restrictions |
| **Other constraints** | EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged ( http://www.eea.europa.eu/legal/copyright ). Copyright holder: European Environment Agency (EEA). |
| **Spatial representation type** | Vector |
| **Denominator** | 50000 |
| **Distance** | 100 100 m |
| **Language of dataset** | English |
| **Topic category** | • Climatology, meteorology, atmosphere<br>• Elevation |

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|---|---|---|---|---|---|---|---|
| 71.16 | N | 27.64 | S | 44.81 | E | -31.28 | W |


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| **Begin date** | 2011-01-01 |
| **End date** | 2016-02-11 |
| **Coordinate reference system identifier** | EPSG:3035 |
| **Distribution format** | • GDB ( ) |

**OnLine resource**

| Protocol | Linkage | Name |
|---|---|---|
| EEA:FILEPATH | https://sdi.eea.europa.eu/webdav/datastore/public/eea_v_3035_50_k_flood-prone_p_2011_2016_v01_r00/Potential_flood-prone_area_extent.gdb | potentialFloodProneAreaExtent_Geodatabase |
| WWW:URL | https://sdi.eea.europa.eu/data/28c36420-c31b-440e-80c5-8064696f3517 | Direct download |
| OGC:WMS | https://water.discomap.eea.europa.eu/arcgis/services/Flood/Potential_flood_prone_area/MapServer/WMSServer?request=GetCapabilities&service=WMS | 0 |
| ESRI:REST | https://water.discomap.eea.europa.eu/arcgis/rest/services/Flood/Potential_flood_prone_area/MapServer | |

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| **Hierarchy level** | Dataset |

## Conformance result

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

**Statement**

The spatial layer: Potential flood prone area extent, was derived from two spatial layers:

1. “JRC flood hazard map for Europe 100-year return period” and

2. “Copernicus Potential Riparian Zone layer” from the ‘Delineation of Riparian Zone’ data set.

JRC flood hazard map 100-year return period” layer is a result of flood model “LisFlood” and available for Europe in resolution of 100x100 m ( https://data.jrc.ec.europa.eu/dataset/jrc-floods-floodmapeu_rp100y-tif ).

Copernicus Potential Riparian Zone layer is based on combining different hydrological and geomorphological parameters. These parameters are derived from the input data sets and are weighted differently dependent on their significance and quality. The resulting membership degree of each input parameter is finally combined into a single membership degree expressing the likelihood of an area to be part of a potential riparian zone. The minimum mapping unit of the Potential Riparian Zone (RZ) layer is 0.5 ha (geometric resolution and equivalent scale: raster 25 m and vector 1:50000).

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| | Since "JRC flood hazard map 100-year return period" was provided in raster format, it was first converted to vector (polygon), then it was merged with "Copernicus Potential Riparian Zone layer" into one data set and clipped to EEA39 assessment extent. Derived spatial data set of the “Potential flood-prone area extent” covers 15% of EEA39 assessment area (or an area of 1,221,828 km2 ). |
| **Source** | • |

## Metadata

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|---|---|
| **File identifier** | 28c36420-c31b-440e-80c5-8064696f3517 XML |
| **Metadata language** | English |
| **Character set** | UTF8 |
| **Hierarchy level** | Dataset |
| **Date stamp** | 2021-05-25T16:25:04.75Z |
| **Metadata standard name** | ISO 19115/19139 |
| **Metadata standard version** | 1.0 |
| **Metadata author** | **Organisation name** / **Individual name** / **Electronic mail address** / **Website** / **Role**<br>European Environment Agency / / sdi@eea.europa.eu / / Point of contact |

## Overviews

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