

EU-Hydro River Network Database 2006-2012 (vector), Europe - version 1.3, Nov. 2020

EU-Hydro is a dataset for all EEA38 countries and the United Kingdom providing photo-interpreted river network, consistent of surface interpretation of water bodies (lakes and wide rivers), and a drainage model (also called Drainage Network), derived from EU-DEM, with catchments and drainage lines and nodes.

The EU-Hydro dataset is distributed in separate files (river network and drainage network) for each of the 35 major basins of the EEA38 + UK area, in GDB and GPKG formats.

The production of EU-Hydro and the derived layers was coordinated by the European Environment Agency in the frame of the EU Copernicus programme.

You can read more about the product here: <https://land.copernicus.eu/en/products/eu-hydro/eu-hydro-river-network-database> .

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|----------------------------|--|------------------------|--------------------------------|---|------------------|
| Date (Creation) | 2019-11-19 | | | | |
| Date (Publication) | 2019-11-19 | | | | |
| Date (Revision) | 2020-11-25 | | | | |
| Edition | 01.03 | | | | |
| Citation identifier | copernicus_v_3035_50_k_hydro-rn_p_2006-2012_v01_r03 | | | | |
| Citation identifier | DAT-194-en | | | | |
| Code | 10.2909/393359a7-7ebd-4a52-80ac-1a18d5f3db9c | | | | |
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Point of contact

No information provided.

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| Maintenance and update frequency | Continual |
| GEMET - INSPIRE themes, version 1.0 | <ul style="list-style-type: none"> Hydrography Land cover |
| Keywords | |
| Continents, countries, sea regions of the world. | <ul style="list-style-type: none"> United Kingdom EEA38 (from 2020) |

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|----------------------------|---|
| Keywords | |
| GEMET | <ul style="list-style-type: none"> • river • environment • ocean • catchment area • land • hydrographic network • drainage system • hydrology • landscape alteration • inland water • canal • drainage • catchment • water body |
| Spatial scope | <ul style="list-style-type: none"> • European |
| EEA topics | <ul style="list-style-type: none"> • Land use |
| EEA Management Plan | <ul style="list-style-type: none"> • 2017 3.6.1 |

Resource constraints

No information provided.

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| Access constraints | Other restrictions |
| Other constraints | no limitations to public access |
| Use constraints | Other restrictions |
| Other constraints | <p>Access to data is based on a principle of full, open and free access as established by the Copernicus data and information policy Regulation (EU) No 1159/2013 of 12 July 2013. This regulation establishes registration and licensing conditions for GMES/Copernicus users.</p> <p>Free, full and open access to this data set is made on the conditions that:</p> <ol style="list-style-type: none"> 1. When distributing or communicating Copernicus dedicated data and Copernicus service information to the public, users shall inform the public of the source of that data and information. 2. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the Union. 3. Where that data or information has been adapted or modified, the user shall clearly state this. 4. The data remain the sole property of the European Union. Any information and data produced in the framework of the action shall be the sole property of the European Union. Any communication and publication by the beneficiary shall acknowledge that the data were produced "with funding by the European Union". |
| Aggregate DatasetIdentifier | a4613aeb-ec3e-49c5-adca-69cd1c9204a3 |
| Association Type | revision of |
| Spatial representation type | Vector |

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|----------------------------|---|
| Denominator | 50000 |
| Language of dataset | English |
| Character set | UTF8 |
| Topic category | <ul style="list-style-type: none">• Environment• Imagery base maps earth cover |
| Begin date | 2006-01-01 |
| End date | 2012-12-31 |

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| Additional Information | Spatial Resolution information: Minimum Mapping Unit (MMU): 1 ha | | |
| CRS identifier | EPSG:3035 | | |
| Distribution format | <ul style="list-style-type: none"> GDB (9.3) Geopackage () | | |
| OnLine resource | Protocol | Linkage | Name |
| | ESRI:REST | https://image.discomap.eea.europa.eu/arcgis/rest/services/EUHydro/EUHydro_RiverNetworkDatabase/MapServer | |
| | OGC:WMS | https://image.discomap.eea.europa.eu/arcgis/services/EUHydro/EUHydro_RiverNetworkDatabase/MapServer/WMServer?service=WMS&request=GetCapabilities&version=1.3.0 | |
| | WWW:LINK-1.0-http--link | https://land.copernicus.eu/en/products/eu-hydro/eu-hydro-river-network-database#Download | Download (requires authentication) |
| OnLine resource | Protocol | Linkage | Name |
| | DOI | https://doi.org/10.2909/393359a7-7ebd-4a52-80ac-1a18d5f3db9c | |
| Hierarchy level | Dataset | | |
| Conformance result | | | |
| Date (Publication) | 2010-12-08 | | |
| Explanation | See the referenced specification | | |
| Statement | <p>Space imagery SP05 (resolution 2.5 m) and SP06 (resolution 2.5 m), space imagery IMAGE2009 (resolution 20 m), EEA member countries WFD reporting data on water bodies: for Türkiye (EEA member), Albania, Bosnia-Herzegovina, North Macedonia, Montenegro, Kosovo (UNSCR 1244/99) and Serbia (all EEA cooperating countries) no spatial data for any category of water bodies was available, European Catchments and Rivers Network System (ECRINS); ancillary data: European Lakes and Reservoirs database (Eldred), Russian topographic maps. The upgrade of the EU-Hydro beta version includes improvements of the usability of the dataset, of its topological and logical consistency and the River network characteristics. Catchments layers were also modified to fit the River networks. Topological overlapping and gaps between River Basin Districts were corrected. The EU-Hydro V1.1 upgrade includes the reclassification of polygons between InlandWater, Coastal-p, Transit_p and River_Net_p classes, the upgrade of the WFD codes using the WISE geospatial dataset for these feature classes, the improvement of logical consistency of attribute tables (deletion of irrelevant fields, recalculation of OBJECT_ID field, recalculation of geometry properties field). In Version 1.2 the Drainage network derived from EUDEM was incorporated to the river network of EU hydro: four feature classes were generated: River_Net_I_DN, Canals_I_DN, Ditches_I_DN and Nodes_DN. River names were updated using WISE geospatial database, except for Thames, Tweed and Türkiye where ECRINS was used instead. In version 1.3, "River_Net_I" topology was adjusted to fit Coastal_p and Transit_p: polylines were deleted for Gota, Skjern, Shannon, Tweed. Polylines were added in Skjern, Mesima and Tajo on areas overlapping Transit_p. Nodes were modified accordingly. CUM_LEN, LONGPATH, LENGTH GEO fields were recalculated.</p> | | |
| Source | <ul style="list-style-type: none"> European catchments and Rivers network system (Ecrins) - version 1. Jun. 2012 EU-DEM (raster) - version 1.1. Apr. 2016 | | |

- [WISE WFD Reference Spatial Datasets reported under Water Framework Directive 2016 - PUBLIC VERSION - version 1.3, Apr. 2019](#)
- [WISE WFD Reference Spatial Datasets reported under Water Framework Directive 2016 - PUBLIC VERSION - version 1.4, Apr. 2020](#)

Metadata

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|----------------------------------|--|------------------------|--|
| File identifier | 393359a7-7ebd-4a52-80ac-1a18d5f3db9c XML | | |
| Metadata language | English | | |
| Character set | UTF8 | | |
| Hierarchy level | Dataset | | |
| Date stamp | 2024-02-06T16:44:53.641Z | | |
| Metadata standard name | ISO 19115/19139 | | |
| Metadata standard version | 1.0 | | |
| Metadata author | Organisation name | Individual name | Electronic mail address Website Role |
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Overviews



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