EEA geospatial data catalogue

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.

Simple

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

Point of contact

No information provided.

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No information provided.

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No information provided.

Maintenance and update frequency	Continual
GEMET - INSPIRE themes, version 1.0	• Hydrography • Land cover
Keywords	
Continents, countries, sea regions of the world.	• United Kingdom • EEA38 (from 2020)
Keywords	
GEMET	• environment

	• drainage • ocean • catchment area • land • catchment • canal • river • water body • hydrographic network • drainage system • hydrology • landscape alteration • inland water
Spatial scope	• European
EEA topics	• Land use
EEA Management Plan	• 2017 3.6.1

Resource constraints

No information provided.

Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	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. Free, full and open access to this data set is made on the conditions that: 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 Datasetindentifier	a4613aeb-ec3e-49c5-adca-69cd1c9204a3
Association Type	revision of
Spatial representation type	Vector
Denominator	50000
Language of dataset	English

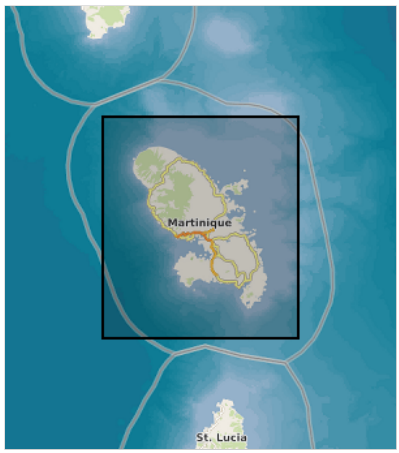
Character set	UTF8
Topic category	• Environment • Imagery base maps earth cover
Begin date	2006-01-01
End date	2012-12-31

71.41	N	27.41	S	44.82	E	-31.56	W

16.61	N	15.74	S	-60.91	E	-61.91	W

7.01	N	1.17	S	-51.08	E	-55.66	W

14.97	N	14.30	S	-60.71	E	-61.33	W



-20.78	N	-21.48	S	55.94	E	55.11	W

Additional Information	Spatial Resolution information: Minimum Mapping Unit (MMU): 1 ha
CRS identifier	EPSG:3035
Distribution format	• GDB (9.3) • Geopackage ( )

OnLine resource

Protocol	Linkage	Name
WWW:LINK-1.0-http--link	https://land.copernicus.eu/imagery-in-situ/eu-hydro/eu-hydro-river-network-database	
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/WMSServer?service=WMS&request=GetCapabilities&version=1.3.0	

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

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_l_DN, Canals_l_DN, Ditches_l_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_l" 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.

More information about the product is available with the dataset in the user manual, also available at the CLMS website: https://land.copernicus.eu/user-corner/technical-library/eu-hydro_user_guide.pdf.

Source

- 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

File identifier	393359a7-7ebd-4a52-80ac-1a18d5f3db9c XML
Metadata language	English
Character set	UTF8
Hierarchy level	Dataset
Date stamp	2023-08-15T15:13:38.821Z
Metadata standard name	ISO 19115/19139
Metadata standard version	1.0
Metadata author	**Organisation name**: European Environment Agency **Individual name**: **Electronic mail address**: sdi@eea.eur sdi@eea.europa.eu **Role**: Point of contact

Overviews

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