EEA geospatial data catalogue

EEA coastline for analysis (raw) - version 3.0, Mar. 2017

The EEA coastline for analysis is created for highly detailed analysis, e.g. 1:100 000, for geographical Europe. The coastline is a hybrid product obtained from projects using satellite imagery as data source: EUHYDRO (https://land.copernicus.eu/imagery-in-situ/eu-hydro) and GSHHG (http://www.soest.hawaii.edu/pwessel/gshhg/). The defining criteria was altitude level = 0 from EUDEM (https://land.copernicus.eu/pan-european/satellite-derived-products/eu-dem/view). Outside the coverage of the EUDEM, the coastline from GSHHG was used without modifications. A few manual amendments to the dataset were necessary to meet requirements from EU Nature Directives, Water Framework Directive and Marine Strategy Framework Directive. In 2015, several corrections were made in the Kalogeroi Islands (coordinates 38.169, 25.287) and two other Greek little islets (coordinates 36.766264, 23.604318), as well as in the peninsula of Porkkala (around coordinates 59.99, 24.42).

In this revision (v3, 2017), 2 big lagoons have been removed from Baltic region, because, according to HELCOM, are freshwater lagoons.

Simple

Date (Creation)	2017-03-28
Date (Publication)	2017-03-28
Edition	3.0
Citation identifier	eea_v_3035_100_k_coastline-raw_1995-2012_p_v03_r00
Citation identifier	DAT-132-en
Point of contact	**Organisation name** / **Individual name** / **Electronic mail address** / **Website** / **Role** European Environment Agency / info@eea.europa.eu / http://www.eea.europa.eu / Point of contact European Environment Agency / mette.lund@eea.europa.eu / Custodian irene.barrio@eea.europa.eu
Maintenance and update frequency	As needed
EEA topics	• Biodiversity
GEMET - INSPIRE themes, version 1.0	• Sea regions
Keywords	
Continents, countries, sea regions of the world.	• Europe
Keywords	
GEMET	• coastal area • coast
EEA Management Plan	• 2018 2.6.1
Use limitation	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).
Access constraints	Other restrictions

Other constraints	no limitations to public access
Code	https://land.copernicus.eu/imagery-in-situ/eu-hydro
Association Type	Source
Code	https://land.copernicus.eu/imagery-in-situ/eu-hydro
Association Type	Source
Code	
Association Type	Source
Spatial representation type	Vector
Denominator	100000
Language of dataset	English
Character set	UTF8
Topic category	• Oceans • Elevation

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Begin date	1995-08-01
End date	2012-12-31
Coordinate reference system identifier	EPSG:3035
Distribution format	• SHP (1.0)

OnLine resource

No information provided.

Hierarchy level	Dataset

Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification
Statement	The criteria for defining the coastline is the line separating water from land. The EEA coastline is a product derived from two sources: EUHYDRO (https://land.copernicus.eu/imagery-in-situ/eu-hydro) and GSHHG (http://www.soest.hawaii.edu/pwessel/gshhg/) A priority defined in the input data, first EUHYDRO geometry and, as auxiliary data, GSHHG dataset. The EUHYDRO do not cover the required extension of EEA coastline. The EUHYDRO gaps are in Iceland, Canarias, Madeira, Azores, small islands (not represented in EUDEM) and the northern of Black Sea. For that reason, the GSHHG dataset is an input for the process which allow to populate the EUHYDRO shapefile. The creation process was focused on generate the coastline as line datasets and, later, as secondary product, defining the polygon layer sea-land. Thank reiterative processes based on conversion (from water mask of EUHYDRO to polygon), selection, dissolving and conversion (to line) tools, it was possible to obtain a continuous and homogeneous coastline. The fundamental step into the workflow was the selection of sea features using the water mask polygon (with 255 value into EUHYDRO datasets). The inland water bodies (freshwaters) are rejected by these criteria, except the water bodies connected, at least by one point, to the sea (it is the cases of some transitional water bodies). Two Baltic lagoons have been modified with the data from SVAR geodatabase version 2012_2, Swedish Meteorological and Hydrological Institute (SMHI). The patchwork coastline has been subjected to quality assessment based on evaluate the degree of coverage and topological errors.
Source	• EU-DEM (raster) - version 1.1, Apr. 2016

Metadata

File identifier	db4cfdd3-0687-4460-a2c7-fd10ca29c214 XML

Metadata language	English
Character set	UTF8
Hierarchy level	Dataset
Date stamp	2022-09-06T09:17:48.958Z
Metadata standard name	ISO 19115/19139
Metadata standard version	1.0

Metadata author

Organisation name	Individual name	Electronic mail address	Website	Role
European Environment Agency		sdi@eea.europa.eu		Point of contact

Overviews

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