EEA geospatial data catalogue

Geomorphology, Geology, Erosion trends and Coastal defence works, version 2.1

This metadata describe the "Geology, geomorphology and coastal erosion layer" database which is a result of EUROSION project of May 2004 (IGN France International). The database contains the Morpho-sedimentological and geological patterns of the European coastline. Both a geomorphological and a geological code is assigned to each segment. 20 different geomorphological types (and thus codes) and 13 geological types have been defined. The data also features both erosion trends, and the existence of coastal defence works along the European coast. Three codes have been defined to depict erosion trends (stable, erosion, accretion) and two codes to depict coastal defence works (presence, absence). Spatial data is provided at scale 1:100,000, in vector format, and consists in a segmentation of the EUROSION shoreline. Geographical coverage note: Romania, Bulgaria, Cyprus, and ultra-peripheral regions are only covered 20%. Also, only EU25 countries with coast are included in the data set.

Simple

Date (Creation)	2005-02-22
Date (Publication)	2005-02-22
Edition	02.01
Citation identifier	dg-env_v_4258_100_k_eurosion-coast-line_p_2005_v02_r01
Point of contact	**Organisation name** / **Individual name** / **Electronic mail address** / **Website** / **Role** European Environment Agency / / sdi@eea.europa.eu / http://www.eea.europa.eu / Point of contact European Environment Agency / / sdi@eea.europa.eu / / Custodian

Point of contact

No information provided.

Point of contact

No information provided.

Maintenance and update frequency	Unknown
GEMET - INSPIRE themes, version 1.0	• Geology
Keywords	
Keywords	
GEMET	• coast protection • coastal erosion
Continents, countries, sea regions of the world.	• Belgium • Democratic Republic of the Congo • Portugal • France • Greece • Estonia • Bulgaria • Netherlands • Cyprus

	• Ireland • Germany • Poland • Lithuania • Romania • Malta • Denmark • Slovenia • United Kingdom • Spain • Italy • Sweden • Finland • Latvia
Spatial scope	• European
EEA topics	• Seas and coasts
Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	As a EUROSION assignment, this layer is publicly available inside and outside the European Commission provided that the source is acknowledged (http://www.eea.europa.eu/legal/copyright). Copyright holder: European Environment Agency (EEA).
Spatial representation type	Vector
Denominator	100000
Language of dataset	English
Topic category	• Environment

65.91	N	4.21	S	34.61	E	-61.81	W

Begin date	2002-01-01
End date	2004-12-31
Additional Information	Source data have been severely checked and corrected. Double control on the quality of the produced database is currently ensured. This version has been geometrically modified using ESRI's ArcMap spatial adjustment on SABE 2001 v1.0 coastline. Spatial adjustment method used was "rubbersheet". The layer mainly results from an update of CORINE Coastal Erosion version 1.0 (CCEr v1.0). CCEr v1.0 was carried out by the European Commission from 1985 to 1990. This version covers European Union countries as of 1990. The update of CCEr version 1.0 and the extension of the database to countries which joined EU after 1990 and to accession countries was part of EUROSION assignments. These new or updated data are mainly derived from ancillary data such as national geological maps, reports, or existing database (such as FutureCoast for England and Wales).
Coordinate reference system identifier	EPSG:4258
Distribution format	• SHP ( )

OnLine resource

Protocol	Linkage	Name
EEA:FOLDERPATH	https://sdi.eea.europa.eu/webdav/datastore/public/dg-env_v_4258_100_k_eurosion-coast-line_p_2005_v02_r01/	
WWW:URL	https://sdi.eea.europa.eu/data/2c7b31f9-193e-48bb-a9a7-02470fb6b042	Direct download
WWW:LINK-1.0-http--link	http://www.eurosion.org/	

OnLine resource

No information provided.

Hierarchy level	Dataset

Conformance result

Title	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Date (Publication)	2010-12-08
Explanation	See the referenced specification
Statement	The European Coastal Erosion Layer (CEL) data is compatible with a scale of 1:100,000. The design approach is an update of the 1990 CORINE Coastal Erosion (CCEr) methodology in which three criteria were used: i) morpho-sedimentology (rocky coasts, beaches, muddy coasts, etc.) ii) evolutionary trends (erosion, aggradation, stability) and iii) presence or not of coastal defence measures.

Two further criteria were applied for the CEL:

- Coastline geology, to provide information on the potential scale of possible erosion

- Data status and availability:

i) no data available, data are from the CCEr database,

ii) updated or new information.

The CEL inventory is extended to East Germany and to new EU-15 members (Finland, Sweden) and to applicant countries with coastlines i.e. Bulgaria, Cyprus, Estonia, Latvia, Lithuania, Malta, Poland, Romania, Slovenia. The codes of the different attributes are explained where necessary in order to avoid

different interpretations of the same object and thus provide a homogeneous and consistent method for describing the European coastline. The data were provided by national or local contact organisations, with specific files which

have been merged into a seamless coastline database.

The data were verified in different ways:

- checking and correction of polyline topological errors such as dangle nodes (i.e. disjoined

segments) and auto-intersections (i.e. loops and peaks)

- verifying that national coastline data, which are supplied by national contacts in a specific

file, comply with database specifications

- for each file (country), the projection used and datum are verified

- compliance with the defined methodology i.e. length of segments, coding of segments

(codes have to correspond to lexicon, no voids), consistency between codes (to detect

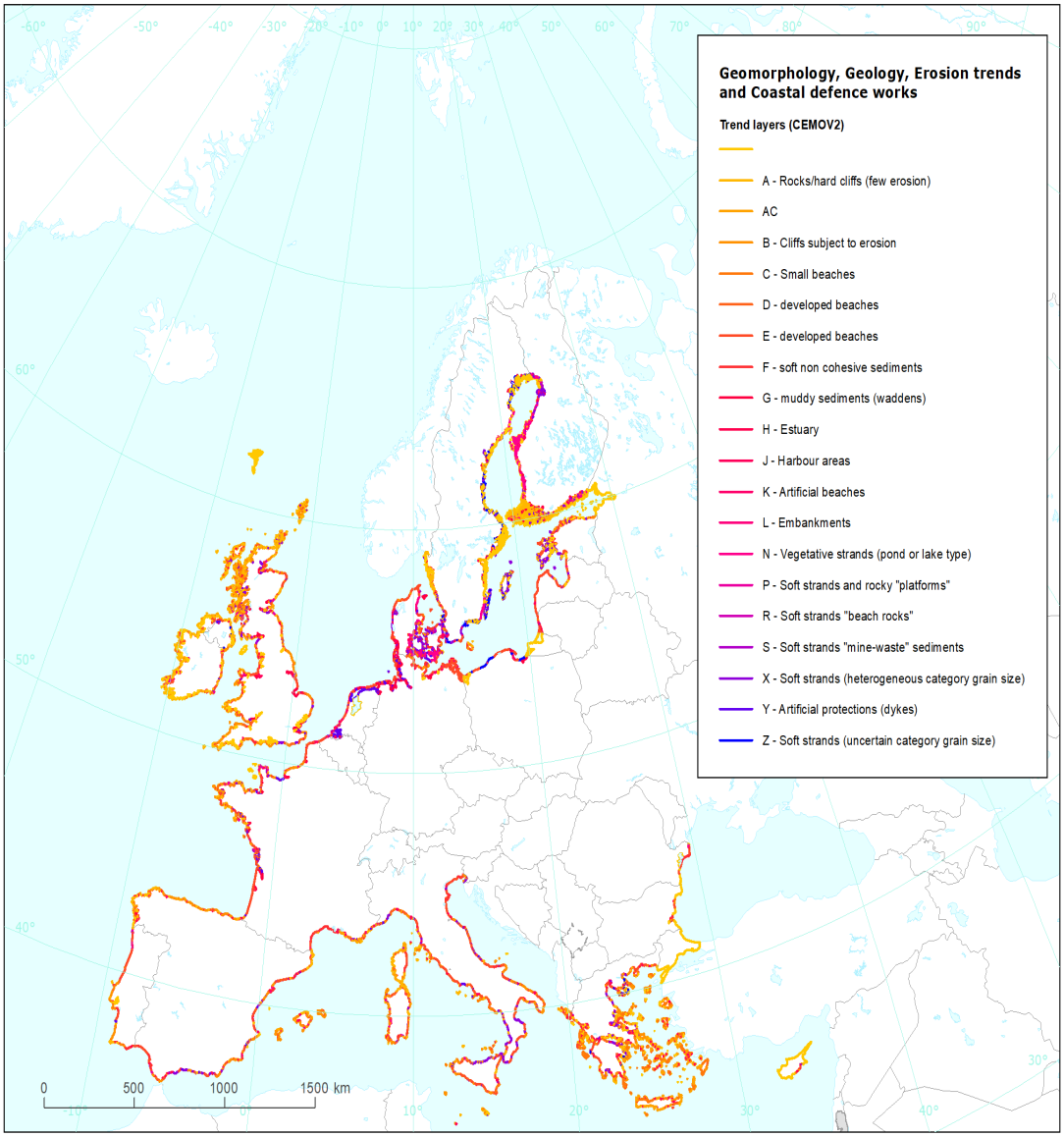
any inconsistent combination between the codes of the different attributes),

- consistency with the 60 WP4 case studies

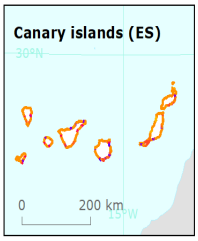
Metadata

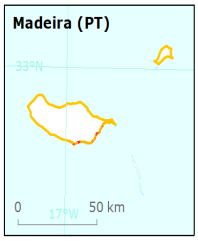
File identifier	2c7b31f9-193e-48bb-a9a7-02470fb6b042 XML
Metadata language	English
Character set	UTF8
Hierarchy level	Dataset
Date stamp	2024-02-14T09:41:00.635Z
Metadata standard name	ISO 19115/19139
Metadata standard version	1.0
Metadata author	**Organisation name** / **Individual name** / **Electronic mail address** / **Website** / **Role** European Environment Agency / / sdi@eea.europa.eu / / Point of contact

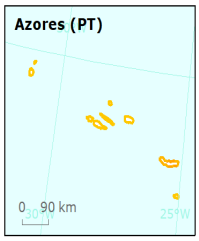
Overviews

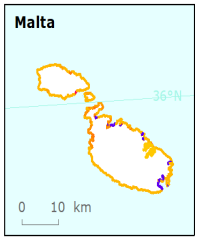


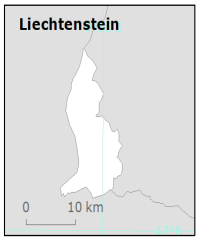
Reference data: © EuroGeographics, © FAO (UN), © TurkStat Source: European Commission – Eurostat/GISCO

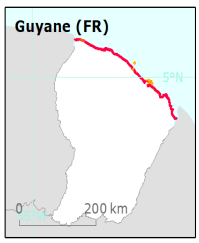


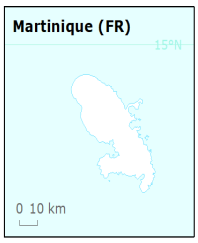


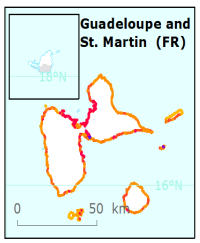


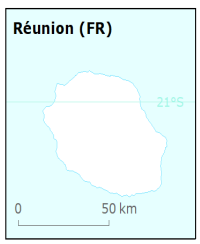


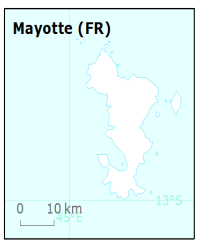












Provided by