



EuroRegionalMap

Pan-European Dataset at Medium Scale

Lineage information

- Version for ERM 2021 -

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Table of Content

1	Contact Information	3
1.1	Liability	3
1.2	Copyright information	3
2	Product description	5
2.1	Scope	5
2.2	Production process	5
2.3	Changes from ERM 2020 to ERM 2021	6
2.4	Geographic extent	6
2.5	Specification	7
2.6	Data model	7
2.7	Coordinate reference system	7
2.8	Reference dates	8
2.9	Metadata	8
3	Product publication	8
3.1	Update	8
3.2	Product delivery formats	8
3.3	Distribution media	8

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¹ This designation is without prejudice to positions on status, and is in line with UNSC 1244 and the ICJ Opinion on the Kosovo Declaration of Independence.

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2 Product description

ERM is the digital topographic dataset that covers Europe at the scale 1:250 000. It is seamless and harmonised authoritative data and is produced by EuroGeographics' members using their national databases.

2.1 Scope

The release ERM 2021 contains the following themes (topographic layers):

- Administrative Boundaries (BND)
- Hydrography (HYDRO)
- Miscellaneous (MISC)
- Named Location (NAME)
- Settlement (POP)
- Transportation (TRANS)
- Vegetation and Soils (VEG)

In the Administrative Boundaries theme, separate Feature Classes are provided:

- a) Kosovo as independent state and Serbia without Kosovo (KS)
- b) Serbia including Kosovo (RS)

Data is produced using ArcGIS 10 and structured in File Geodatabase.

2.2 Production process

NMCAs provide national datasets of most suitable geometric and semantic quality to meet the specification set up for ERM. Therefore some NMCAs have to map their national data to ERM format, others are working directly on the previous version of the product. For validation NMCAs use the 'ERM Validator' maintained by the ERM quality manager.

Because of the complexity and the large coverage of ERM the production is not centralised. Therefore five groups across Europe are installed. The groups are coordinated by so called Regional

Coordinators who assemble and aggregate the data of their group members and also do partly quality management.

In the final step the Production Management Team assembles the data of the regions to a full European seamless database, creates feature classes which are not in the responsibility of the NMCAs and do a final quality check.

2.3 Changes from ERM 2020 to ERM 2021

The administrative boundaries have been updated using EBM 2021 as data source.

The transportation theme has been updated by data producers.

The settlement theme has been updated by data producers.

An INSPIRE-ID was calculated centrally for all features of the dataset from the Production Management Team where no national INSPIRE-ID was available.

2.4 Geographic extent

The release ERM 2021 covers: 27 EU member states, 4 EFTA states including the arctic region of Svalbard and Jan Mayen, Georgia, Moldova, North Macedonia, Serbia and Kosovo, Ukraine, United Kingdom as well as Andorra (included with Spain), Liechtenstein (included with Switzerland), Monaco (included with France), Vatican City and San Marino (included with Italy), Faroe Islands, Isle of Man and French overseas departments/collectivities.

Each country contribution is identified by the ICC code of the producing country (ISO 3166 two character country code), with the exception of Northern Ireland which has the code "ND".

Refer to: <https://www.iso.org/obp/ui/#search/code/>

Dataset Coding	Country contribution description
AT	Austria
BE, LU	Belgium including Luxembourg
BG	Bulgaria
CH, LI	Switzerland including Liechtenstein
CY	Cyprus
CZ	Czechia
DE	Germany
DK, FO	Denmark including Faroe Islands
EE	Estonia
ES, AD, GI	Spain including Andorra and Gibraltar
FI	Finland
FR, GF, GP, MQ, YT, MC, RE, BL, MF	France including French Guiana, Guadeloupe, Martinique, Mayotte, Monaco, Réunion, Saint Barthélemy and Saint Martin
GB, IM	United Kingdom (Great Britain, Isle of Man)
GE	Georgia
GR	Greece
HR	Croatia
HU	Hungary
IE	Ireland
IS	Iceland
IT, SM, VA	Italy including San Marino and Vatican City
LT	Lithuania
LV	Latvia
MD	Moldova

MK	North Macedonia
MT	Malta
ND	United Kingdom (Northern Ireland)
NL	Netherlands
NO	Norway
PL	Poland
PT	Portugal
RO	Romania
RS	Serbia (including Kosovo)
SE	Sweden
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
UA	Ukraine

2.5 Specification

The specification has been designed according to ISO 19131 to provide all information needed to use the ERM product. The name of the specification is ERM_2021_Specification.pdf

2.6 Data model

The data model is defined as an ArcGIS geodatabase template (XML, FGDB) for the release 2021 according to the ERM 2021 specification.

2.7 Coordinate reference system

ERM data is stored in two-dimensional geographical coordinates, degrees (longitude, latitude) with decimal fraction. The spatial reference system is ETRS89 (WGS84) with ellipsoid GRS80.

Geographic Coordinate System: ETRS89

- Datum: D_ETRS_1989
- Spheroid: GRS_180
- Semi major Axis: 6378137
- Semi minor Axis: 6356752.3141403561

Note: In practice it is considered WGS84 = ETRF89 = ETRS89 = GRS80.

Vertical Datum: European Vertical Reference System (EVRS)

Absolute horizontal accuracy: 125 m

Horizontal geometric resolution: Equivalent precision of 5 meters or 0.2 arc-seconds or 0.00005 decimal degrees.

Coordinate accuracy: 9 significant digits e.g. 61.0000001 dd.

ERM is provided without a specific map projection. If required, it is recommended to apply one of the European map projections proposed by INSPIRE:

- Lambert Azimuthal Equal Area projection,
see <http://www.opengis.net/def/crs/EPSSG/0/3035>
- Lambert Conformal Conic projection,
see <http://www.opengis.net/def/crs/EPSSG/0/3034>

2.8 Reference dates

In the metadata, the reference dates are those of the different sets of national data sources used to provide the European 1:250 000 topographic data. Those reference dates are provided by country in the lineage file holding updates/currency remarks where it is possible to detail the reference dates by theme and/or by feature classes.

The reference date of population size classification or of the population is also indicated in the lineage file.

The general reference date for ERM 2021 is December 2019.

2.9 Metadata

The metadata files are in accordance with the ISO 19115/19139 standards. All core metadata elements defined in the standards and additional ones are included. The metadata files are also compliant with the INSPIRE Metadata Implementing Rules.

Metadata are available for

- FullEurope ERM dataset: ERM_2021_Metadata.xml
- At country level (e.g. DE_ERM_2021_Metadata.xml)

The lineage files describe the production process, data quality and completeness of the data.

Lineage files are available for

- FullEurope ERM dataset: ERM_2021_Lineage.pdf
- At country level (e.g. DE_ERM_2021_Lineage.pdf)

3 Product publication

The product is published once a year.

For more information on ERM visit the EuroGeographics website:

<https://eurogeographics.org/maps-for-europe/euroregionalmap/>

3.1 Update

Each year two to four themes of ERM are updated by NMCAs.

3.2 Product delivery formats

The ERM product will be provided as standard in ArcGIS File Geodatabase (v10.6) format, but ESRI Shape can be delivered on request.

3.3 Distribution media

Secured URL