

# EuroRegionalMap

## User Guide

Refers to ERM 10.1, released in May 2017



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## Introduction

This User Guide has been designed to provide you information needed to use the EuroRegionalMap (ERM) dataset.

The Guide is arranged into the following sections:

- "Introduction": contact details, copyrights, other general information
- "Overview of ERM data" provides an introduction to ERM product
- "Using ERM" contains some instructions on how to use the dataset

Supporting document for detailed information is:

- ERM Specifications and data Catalogue: [ERM\\_v10\\_DataSpecification.pdf](#)

If you find an error, omission, or have a suggestion about how this guide can be improved, please contact EuroGeographics at the address shown below, under contact details.

## Contact details

If you have problems using ERM or any questions related to the dataset or its use please contact EuroGeographics or the distributor from which you purchased the data.

EuroGeographics' address is:

EuroGeographics  
76, Rue du Nord  
1000 Brussels  
Belgium

Telephone: +32 (2) 888 71 93  
Facsimile: +32 (2) 888 71 94  
E-mail: [contact@EuroGeographics.org](mailto:contact@EuroGeographics.org)  
Web: <http://www.EuroGeographics.org>

The addresses of the contact persons responsible for the production are listed in corresponding metadata files.

## Product performance

If you have any problems or identify any errors in the data, please complete the product report provided in Annex A.

## Liability

A full description of the terms and conditions of supply and use of ERM is included in the Licence signed by your organisation.

EuroGeographics and the National Mapping and Cadastral Agencies (NMCA) contributing to ERM have made every effort to ensure that data supplied are free from errors and omissions. The quality checking of the data is made by ERM Production Management Team. Possible exceptions from ERM specifications are described in the metadata files.

It is the Customer's responsibility to ensure that the data ordered are suitable for the intended purpose. Neither EuroGeographics nor the National Mapping and Cadastral Agencies will be liable to the customer or any other party for any loss, damage, inconvenience or expense resulting from the use of, or reliance upon, the data.

## **Delivery of ERM**

You are advised to make a back-up copy of the data delivered.

Written notification of any deficiency in the ERM data or damage to the goods must be given to EuroGeographics or the distributor from which you bought the data.

## **Data copyright**

ERM data are copyright of EuroGeographics and the contributing National Mapping and Cadastral Agencies. As standard, ERM data may be used for internal business use only. Internal business use means use of EuroGeographics' products or services in the ordinary day-to-day activities involved in the internal administration and running of the End User's business or organisation.

Your licence agreement specifies the number of concurrent users, which may use the data. Additionally, any printed output, which is based on ERM data must bear an appropriate copyright acknowledgement.

Copyright statements are named in Annex B.

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Excel and Word are trademarks of Microsoft.

# Overview of ERM data

## General product description

EuroRegionalMap v10.1 is a pan-European dataset containing topographic information at the scale 1:250 000 covering: 27 EC member states (excluding Croatia), 4 EFTA states, Republic of Moldova, Serbia and Kosovo, The Former Yugoslav Republic Of Macedonia, Georgia, Andorra (included with Spain), Liechtenstein (included with Switzerland), Monaco (included with France), Vatican City State and San Marino (included with Italy), Faroe Islands and Isle of Man (see the map on the first page of this document and the list below). It is a seamless<sup>1</sup> and harmonised data and is produced in cooperation by the National Mapping and Cadastral Agencies of Europe, using official national databases.

EuroRegionalMap is ideal for a wide range of uses, including spatial analysis, cartographic publishing and backdrop visualisation, or in combination with other datasets for marketing planning and socio-economic analysis, environmental analysis, and transport management.

EuroRegionalMap contains 7 themes:

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

**Coordinates:** Geographical in decimal degrees (longitude, latitude) and based on the ETRS89 spatial reference system (which corresponds to WGS84 reference system).

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

**Positional accuracy:** 125 meters

**Minimum size of polygon:** 0.06 km<sup>2</sup>

**Feature coding structure:** DIGEST FACC Edition 2.1, Sep. 2001.

**Character sets used:** ISO8859–series and UNICODE system.

**Metadata:** According ISO19115 standard.

**Coverage:** Andorra<sup>2</sup>, Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Faeroe Islands, Finland, France, Georgia, Germany, Gibraltar<sup>2</sup>, Greece, Hungary, Iceland, Ireland, Italy, Kosovo<sup>2</sup>, Latvia, Liechtenstein<sup>2</sup>, Lithuania, Luxembourg, Malta, Monaco<sup>2</sup>, Norway, Poland, Portugal, Republic of Moldova, Romania, San Marino<sup>2</sup>, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, The Former Yugoslav Republic Of Macedonia, The Netherlands, United Kingdom of Great Britain, Northern Ireland and Isle of Man, Vatican City State<sup>2</sup>. The product will be gradually extended targeting to cover the whole of the Europe.

**Update:** Two or three themes of EuroRegionalMap are yearly updated (according to a contract with Eurostat).

**Publishing:** The product is published once a year.

See more information on ERM project's website:

<http://www.eurogeographics.org/products-and-services/euroregionalmap>

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<sup>1</sup> The term "seamless" means that there are no gaps between graphical objects initially derived from different sources.

<sup>2</sup> The datasets covering these countries are included to the data directories of one of the neighbouring countries (see "Minimum unit dataset").

## Metadata

Discovery Metadata for the ERM v10.1 are provided in Excel format and XML format and are INSPIRE compliant and according to the ISO 19115/19139 profile. The metadata in XML have been created by using the Metadata editor of the INSPIRE geoportal.

Discovery metadata exist for full coverage of Europe and regional coverages.

The lineage files describing the data quality and up-to-dateness are the following:

- A lineage file for the ERM dataset full coverage: ERM\_v10.1\_lineage\_FullEurope.doc
- Lineage file per European region
- Lineage files at minimum unit dataset (i.e. AT\_ERM\_v10\_Lineage.doc and AT\_ERM\_v10\_Lineage.xls)

## Minimum unit dataset

EuroRegionalMap 10.1 is a seamless coverage of Europe. However the product has adopted a tile partition, which is delimited by the territories under the responsibility of a producing NMCA and named the minimum unit dataset. This implies that several states can be gathered into a single tile partition, i.e. Switzerland and Liechtenstein produced by the NMCA of Switzerland, others may be split like Northern Ireland and Great Britain of the United Kingdom.

Each minimum unit dataset 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/>

The minimum unit dataset naming description is following:

| <b>Dataset Coding</b> | <b>Minimum Unit Dataset Description</b>           |
|-----------------------|---|
| AT                    | Austria   |
| BE                    | Belgium including Luxembourg                      |
| BG                    | Bulgaria  |
| CH                    | Switzerland including Liechtenstein               |
| CY                    | Cyprus  |
| CZ                    | Czech Republic                                    |
| DE                    | Germany   |
| DK                    | Denmark   |
| EE                    | Estonia   |
| ES                    | Spain including Gibraltar and Andorra             |
| FI                    | Finland   |
| FO                    | Faroes Island                                     |
| FR                    | France including Monaco                           |
| GB                    | United Kingdom (Great Britain, Isle of Man)       |
| GE                    | Georgia   |
| GR                    | Greece  |
| HU                    | Hungary   |
| IE                    | Ireland   |
| IS                    | Iceland   |
| IT                    | Italy including San Marino and Vatican City State |
| LT                    | Lithuania   |
| LV                    | Latvia  |
| MD                    | Republic of Moldova                               |
| MK                    | The Former Yugoslav Republic Of Macedonia         |
| MT                    | Malta   |
| ND                    | United Kingdom (Northern Ireland)                 |
| NL                    | The Netherlands                                   |
| NO                    | Norway  |
| PL                    | Poland  |
| PT                    | Portugal  |
| RO                    | Romania   |
| RS                    | Serbia including Kosovo                           |
| SE                    | Sweden  |
| SI                    | Slovenia  |
| SK                    | Slovakia  |

## Standard products

EuroRegionalMap will be licensed according to two standard product options:

1. A full European coverage including all countries.
2. A predefined dataset covering one of the following 5 European regions:

| Central Europe                                    | Eastern Europe      | Northern Europe                             | Southern Europe                                   | Western Europe                              |
|---|---------------------|---|---|---|
| Austria   | Bulgaria            | Denmark                                     | Cyprus  | Austria                                     |
| Belgium including Luxembourg                      | Czech Republic      | Estonia                                     | France including Monaco                           | Belgium including Luxembourg                |
| Czech Republic                                    | Georgia             | Faroe Islands                               | Greece  | France including Monaco                     |
| Denmark   | Germany             | Finland                                     | Italy including San Marino and Vatican City State | Germany                                     |
| Faroe Islands                                     | Hungary             | Iceland                                     | Malta   | Ireland                                     |
| France including Monaco                           | Poland              | Ireland                                     | Portugal  | Switzerland including Liechtenstein         |
| Germany   | Republic of Moldova | Latvia                                      | Serbia including Kosovo                           | The Netherlands                             |
| Hungary   | Romania             | Lithuania                                   | Slovenia  | United Kingdom (Great Britain, Isle of Man) |
| Italy including San Marino and Vatican City State | Slovakia            | Norway                                      | Spain including Gibraltar and Andorra             | United Kingdom (Northern Ireland)           |
| Malta   |                     | Sweden                                      | The Former Yugoslav Republic Of Macedonia         |   |
| Poland  |                     | United Kingdom (Great Britain, Isle of Man) |   |   |
| Slovakia  |                     | United Kingdom (Northern Ireland)           |   |   |
| Slovenia  |                     |   |   |   |
| Switzerland including Liechtenstein               |                     |   |   |   |
| The Netherlands                                   |                     |   |   |   |



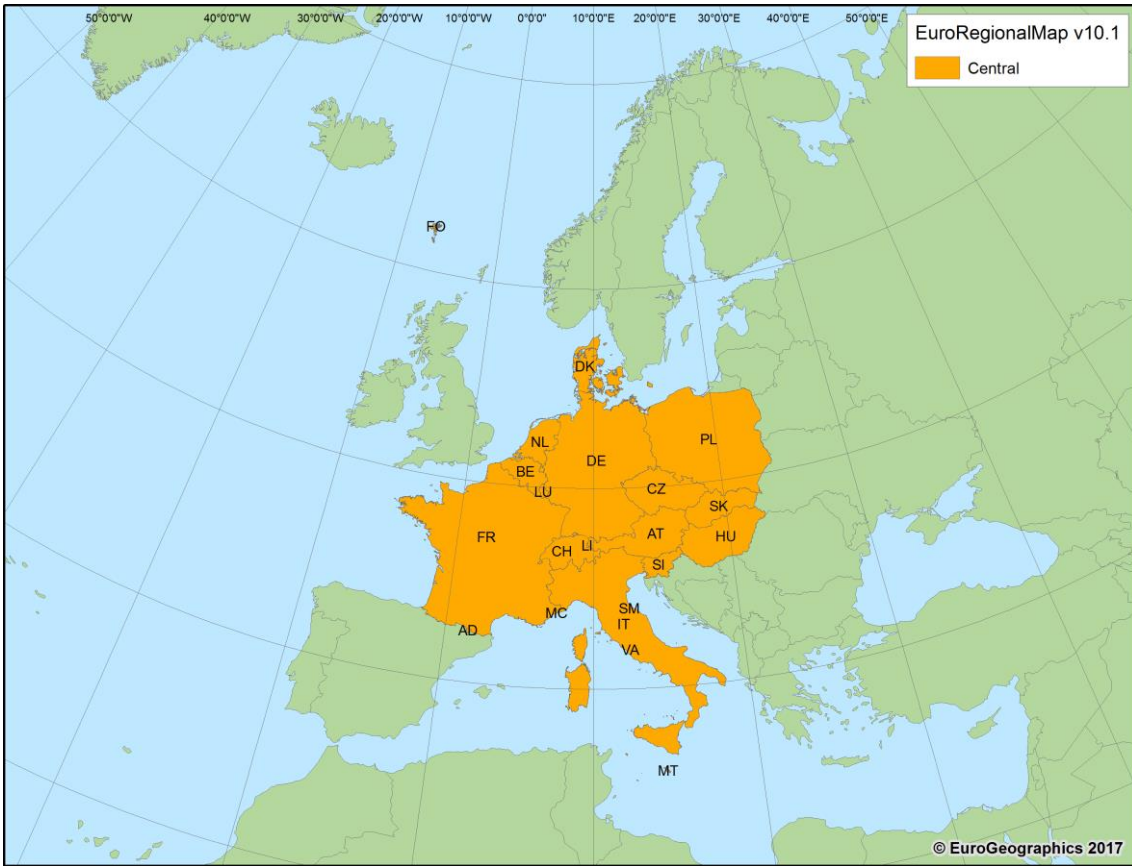


Figure 1: Coverage Central Europe.

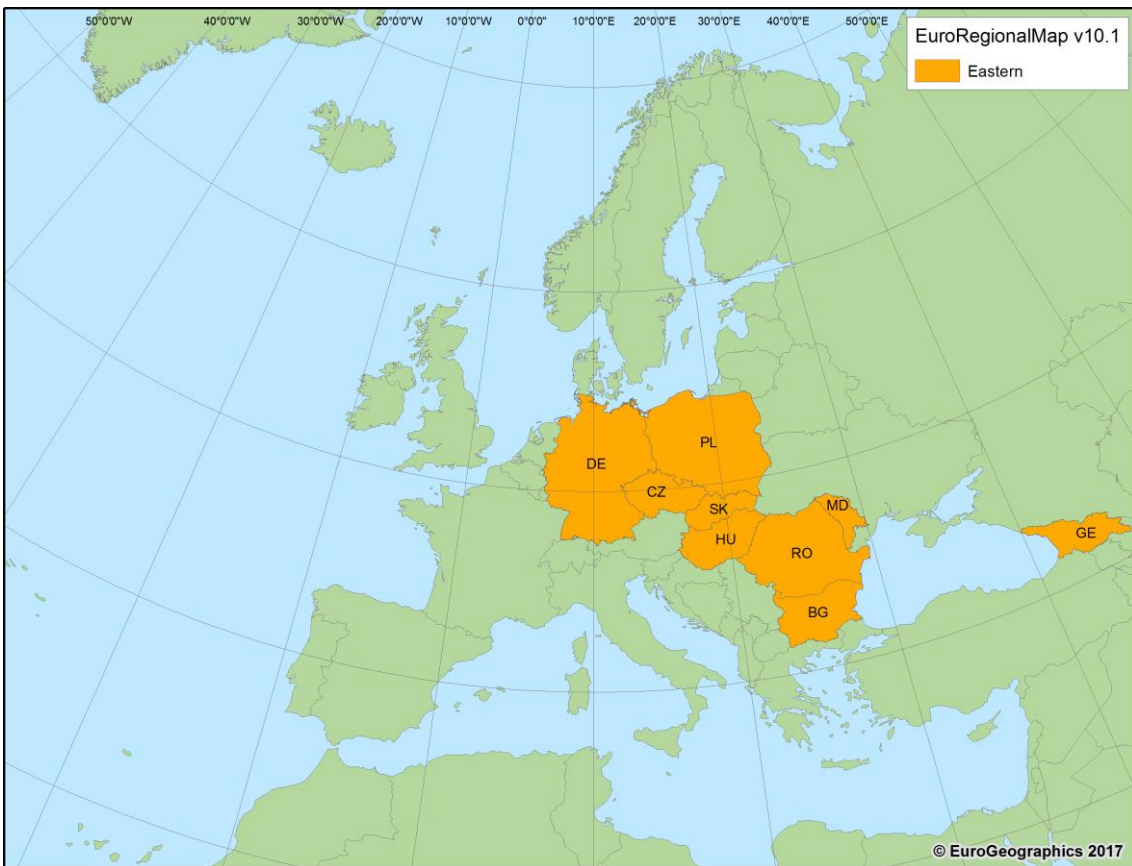


Figure 2: Coverage Eastern Europe.

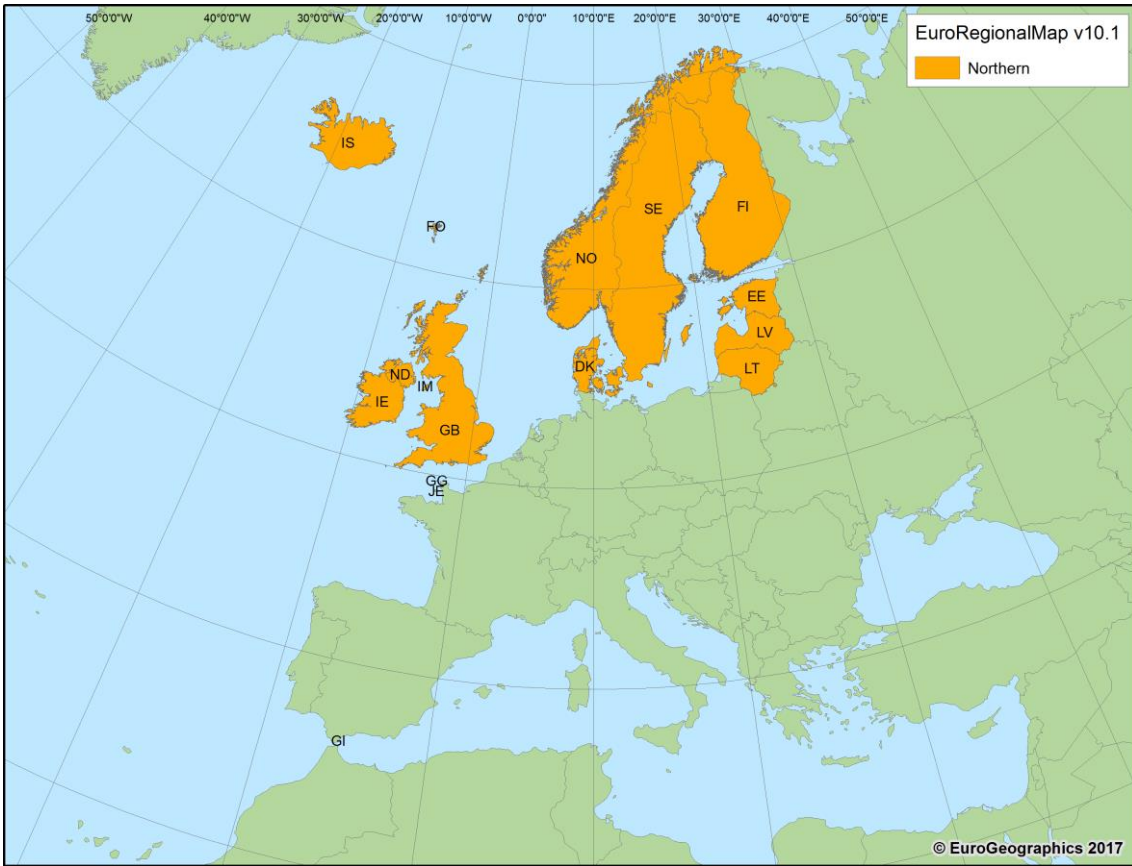


Figure 3: Coverage Northern Europe.

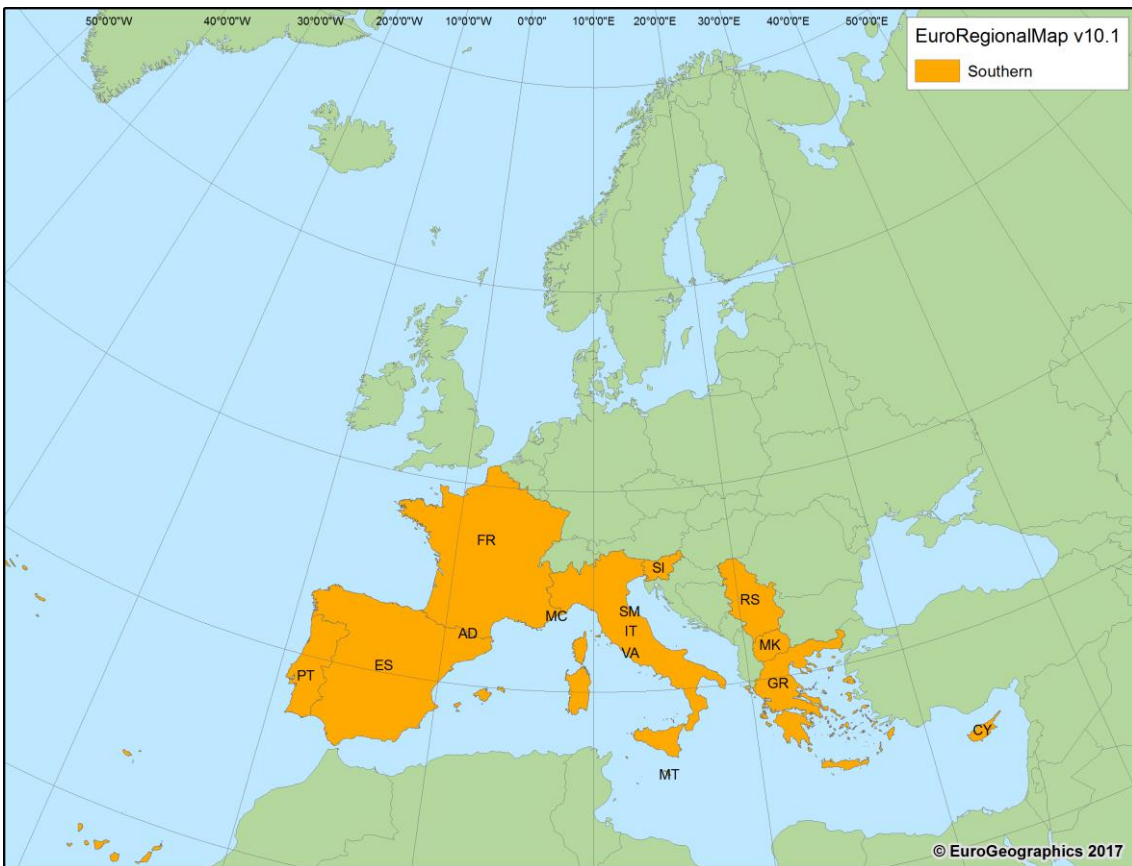


Figure 4: Coverage Southern Europe.

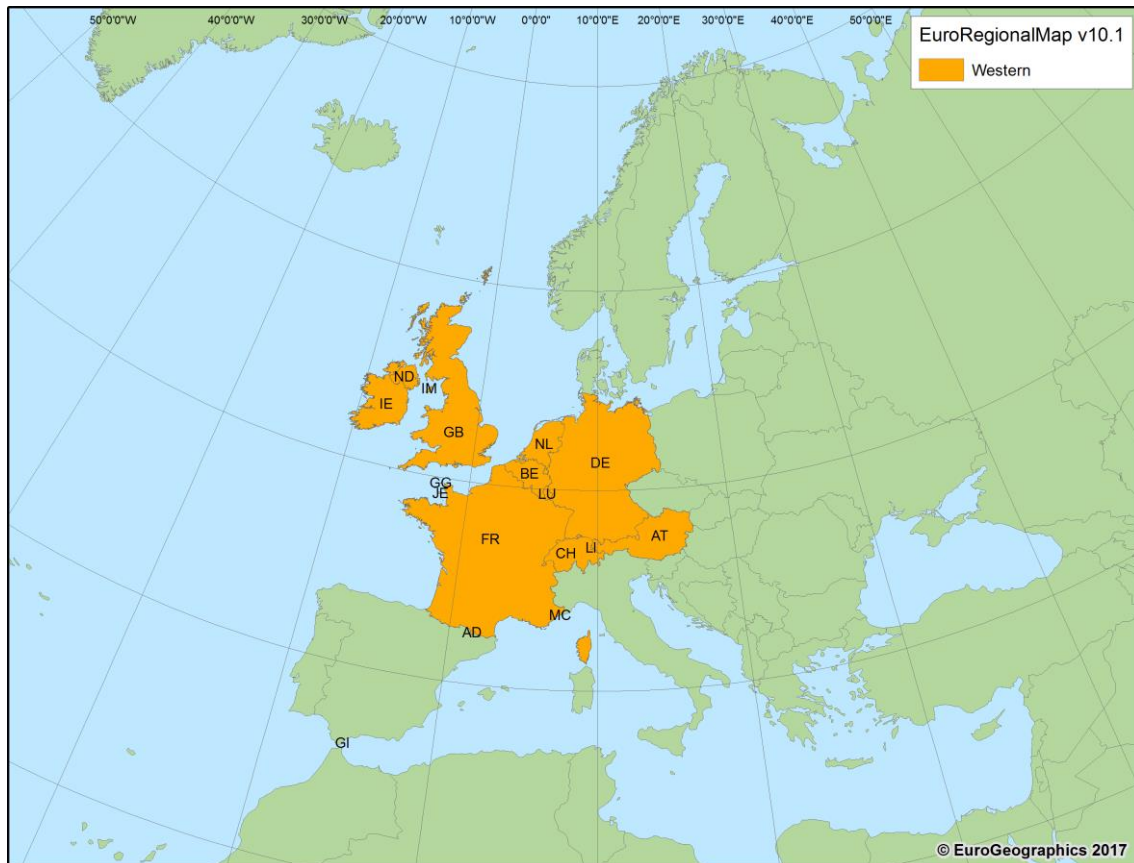


Figure 5: Coverage Western Europe.

The coverages of the European regions overlap each other so that a country may be included into several regions.

EuroGeographics will not licence individual country dataset directly to customers. Single country datasets and cross border regions may be licenced from EuroGeographics Licenced Distributors:

<http://www.eurogeographics.org/content/partners-value-added-resellers>

**Product delivery formats:**

The Full Europe and the European regions can be provided as following:

- As a seamless coverage into one dataset using ArcGIS File Geodatabase (ArcGIS v10).
- Partitioned into minimum unit dataset.

Diverse formats might be available from distributors.

**Distribution media:** DVD, FTP.

## Shapefile data structure

Shape files are converted from geodatabases. Each feature class is saved to a separate shape file, e.g. "AirfldP.shp", see the table below:

| Themes | Feature class name | Feature class type | Feature codes                            | Shape File Name |
|--------|--------------------|--------------------|--|-----------------|
| BND    | POLBND             | Area               | FA001                                    | POLBND.SHP      |
|        | POLBNDL            | Line               | FA000                                    | POLBNDL.SHP     |
| HYDRO  | AQUEDCTL           | Line               | BH010                                    | AQUEDCTL.SHP    |
|        | COASTA             | Area               | BA020                                    | COASTA.SHP      |
|        | COASTL             | Line               | BA010,XX500                              | COASTL.SHP      |
|        | DAML               | Line               | BI020, BI030                             | DAML.SHP        |
|        | DAMC               | Point              | BI020, BI030                             | DAMC.SHP        |
|        | LAKERESA           | Area               | BH080, BH130                             | LAKERESA.SHP    |
|        | LANDICEA           | Area               | BJ030,BJ100                              | LANDICEA.SHP    |
|        | ISLANDA            | Area               | BA030                                    | ISLANDA.SHP     |
|        | SEAA               | Area               | BA040                                    | SEAA.SHP        |
|        | SPRINGP            | Point              | BH170                                    | SPRINGP.SHP     |
|        | SPRINGC            | Point              | BH170                                    | SPRINGC.SHP     |
|        | SWAMPA             | Area               | ED010                                    | SWAMPA.SHP      |
|        | RAPIDSL            | Line               | BH180                                    | RAPIDSL.SHP     |
|        | RAPIDSC            | Point              | BH180                                    | RAPIDSC.SHP     |
|        | WATRCRSA           | Area               | BH502                                    | WATRCRSA.SHP    |
|        | WATRCRSL           | Line               | BH502                                    | WATRCRSL.SHP    |
|        | WELLP              | Point              | AA050                                    | WELLP.SHP       |
|        | LANDMASKA          | Area               | XX501                                    | LANDMASKA.SHP   |
|        | SHOREL             | Line               | BH210                                    | SHOREL.SHP      |
|        | HYNODEC            | Point              | BH503                                    | HYNODEC.SHP     |
| NAME   | GNAME              | Text               | ZD040                                    | GNAME.SHP       |
|        | GNAMEL             | Line               | ZD040                                    | GNAMEL.SHP      |
| MISC   | BUILD              | Point              | AL015                                    | BUILD.SHP       |
|        | CTOWERP            | Point              | AT080                                    | CTOWERP.SHP     |
|        | EXTRACTP           | Point              | AA010                                    | EXTRACTP.SHP    |
|        | INDPRODL           | Line               | AQ113                                    | INDPRODL.SHP    |
|        | INDPRODP           | Point              | AB000, AC000, AQ116                      | INDPRODP.SHP    |
|        | LANDMRKP           | Point              | AH050, AK030, AK130, AK160, AL130, AL200 | LANDMRKP.SHP    |
|        | PARKA              | Area               | FA080, FA081                             | PARKA.SHP       |
|        | PHYSL              | Line               | DB010, DB090                             | PHYSL.SHP       |
|        | PHYSP              | Point              | DB030                                    | PHYSP.SHP       |
|        | POWERL             | Line               | AT030                                    | POWERL.SHP      |
| POWERP | Point              | AD010              | POWERP.SHP                               |                 |
| TOWERP | Point              | AL240              | TOWERP.SHP                               |                 |
| POP    | BUILTUPA           | Area               | AL020                                    | BUILTUPA.SHP    |
|        | BUILTUPP           | Point              | AL020, AL022                             | BUILTUPP.SHP    |
|        | URBANP             | Point              | ZD040                                    | URBANP.SHP      |
| TRANS  | AIRFLDA            | Area               | GB005                                    | AIRFLDA.SHP     |
|        | AIRFLDP            | Point              | GB005                                    | AIRFLDP.SHP     |
|        | EXITC              | Point              | AQ090                                    | EXITC.SHP       |
|        | FERRYL             | Line               | AQ070                                    | FERRYL.SHP      |
|        | FERRYC             | Point              | AQ080                                    | FERRYC.SHP      |
|        | HARBORA            | Area               | BB009                                    | HARBORA.SHP     |
|        | HARBORP            | Point              | BB009                                    | HARBORP.SHP     |
|        | HARBORC            | Point              | BB009                                    | HARBORC.SHP     |
|        | HARBORL            | Line               | BB190                                    | HARBORL.SHP     |



| Themes | Feature class name | Feature class type | Feature codes       | Shape File Name |
|--------|--------------------|--------------------|---------------------|-----------------|
|        | HELIP              | Point              | GB035               | HELIP.SHP       |
|        | INTERCC            | Point              | AP020               | INTERCC.SHP     |
|        | LEVELCC            | Point              | AQ062, AQ063        | LEVELCC.SHP     |
|        | MISAEROP           | Point              | AQ060               | MISAEROP.SHP    |
|        | RAILRDL            | Line               | AN010, AN500        | RAILRDL.SHP     |
|        | RAILRDC            | Point              | AQ125               | RAILRDC.SHP     |
|        | RETC               | Point              | AQ135               | RETC.SHP        |
|        | ROADL              | Line               | AP030, AP500        | ROADL.SHP       |
|        | RUNWAYL            | Line               | GB055               | RUNWAYL.SHP     |
| VEG    | SOILA              | Area               | DA010               | SOILA.SHP       |
|        | VEGA               | Area               | EC050, EA015, EA045 | VEGA.SHP        |

### Related tables

|              |   |                  |
|--------------|---|------------------|
| EBM_NAM      | → | EBM_NAM.DBF      |
| EBM_ISN      | → | EBM_ISN.DBF      |
| SYMBOL_RAT   | → | SYMBOL_RAT.DBF   |
| ERM_CHR      | → | ERM_CHR.DBF      |
| Ferry_Link   | → | Ferry_Link.DBF   |
| FERRY_LINES  | → | FERRY_LINES.DBF  |
| LAKERES_WBSC | → | LAKERES_WBSC.DBF |
| WATERCRS_MDC | → | WATERCRS_MDC.DBF |
| CountryCodes | → | CountryCodes.DBF |

Note: As the shapefile format cannot store annotation/text, the GNameT feature class is converted into point before or while exporting to the shapefile format.

# Using ERM

What you need to use ERM.

## Hardware

ERM can be used with any computer platform from a PC to a mainframe.

There are no specific hardware requirements for managing ERM data.

## Software

ERM is a dataset and is delivered without a user interface for displaying or analysing it. Whatever you want to do with the data, you need to have appropriate software.

ERM can be used directly with the Esri ArcGIS system and may also be imported into other GIS software packages.

## The Spatial reference

**Geodetic Datum:** ETRS89

**Vertical Datum:** EVRS

**Coordinate System:** Lat/Lon in DD

**Absolute horizontal accuracy:** 125 m

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

**Coordinate accuracy:** ArcGIS Personal Geodatabase and Shape files; 9 significant digits e.g. 61.0000001 dd.

**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.

**Annex A: Product report**

Please complete and send to the Production Manager of ERM:

Regine Elling  
Federal Agency for Cartography and Geodesy (BKG)  
Richard-Strauss-Allee 11  
D-60598 Frankfurt am Main  
Germany

Telephone: +49 (0)69 6333-346  
Facsimile: +49 (0)69 6333-441  
E-mail: [regine.elling@bkg.bund.de](mailto:regine.elling@bkg.bund.de)  
Web: <http://www.bkg.bund.de>

Description of problem encountered / suggestion:

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Version of data (from DVD): \_\_\_\_\_

Your name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_\_

Facsimile: \_\_\_\_\_

E-mail: \_\_\_\_\_

## Annex B: Copyright statements

ERM data copyright is held by European National Mapping and Cadastral Agencies:

|   |  |
|---|--|
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| Czech Republic                                    | © Český úrad zeměměřický a katastrální (CUZK)  |
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| France including Monaco                           | © Institut national de l'information géographique et forestière (IGN-France)                       |
| Georgia   | © Sajaro Reestris Erovnulli Saagento (NAPR)  |
| Germany   | © Bundesamt für Kartographie und Geodäsie (BKG)  |
| Greece  | © Hellenic Military Geographical Service (HMGS)  |
| Hungary   | © Földmérési és Távérzékelési Intézet (FÖMI)   |
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| Ireland   | © Ordnance Survey Ireland (OSI)  |
| Italy including San Marino and Vatican City State | © Istituto Geografico Militare Italiano (IGM)  |
| Latvia  | © Latvijas Ģeotelpiskās informācijas aģentūra (LGIA)   |
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| Norway  | © Kartverket (KARTVERKET)  |
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| Republic of Moldova                               | © Agenția Relații Funciare și Cadastru a Republicii Moldova (ARFC)                                 |
| Romania   | © Agenția Națională De Cadastru Și Publicitate Imobiliară (ANCPI)                                  |
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| Switzerland including Liechtenstein               | © Bundesamt für Landestopografie (SWISSTOPO)   |
| The Former Yugoslav Republic Of Macedonia         | © Agency for Real Estate Cadastre (KATASTAR)   |
| The Netherlands                                   | © Kadaster (KADASTER)  |
| United Kingdom (Great Britain, Isle of Man)       | © Ordnance Survey (OS)   |
| United Kingdom (Northern Ireland)                 | © Land and Property Services (LPS)   |



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