



# EuroRegionalMap

## Pan-European Dataset at Medium Scale

### User Guide

- ERM release 11.1 -



## Table of Content

1	Introduction.....	3
1.1	Contact details .....	3
1.2	Product performance .....	3
1.3	Liability .....	3
1.4	Delivery of ERM .....	4
1.5	Data copyright .....	4
1.6	User Guide copyright .....	4
1.7	Trade marks .....	4
2	Overview of ERM data .....	5
2.1	General product description .....	5
2.2	Metadata .....	6
2.3	Minimum unit dataset.....	6
2.4	Standard products.....	8
2.5	Shapefile data structure .....	12
3	Using ERM .....	14
3.1	Hardware.....	14
3.2	Software .....	14
3.3	The Spatial reference.....	14
	Annex A: Product Report.....	15
	Annex B: Copyright statements .....	16

## Index of Figures

Figure 1: Coverage Central Europe. ....	9
Figure 2: Coverage Eastern Europe.....	9
Figure 3: Coverage Northern Europe. ....	10
Figure 4: Coverage Southern Europe. ....	10
Figure 5: Western Central Europe.....	11

# 1 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\\_v11\\_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.

## 1.1 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.

## 1.2 Product performance

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

## 1.3 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.

## 1.4 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.

## 1.5 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.

## 1.6 User Guide copyright

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## 1.7 Trade marks

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Excel and Word are trademarks of Microsoft.

## 2 Overview of ERM data

### 2.1 General product description

EuroRegionalMap v11.1 is a pan-European dataset containing topographic information at the scale 1:250 000 covering: 28 EC member states, 4 EFTA states, Republic of Moldova, Serbia and Kosovo, The Former Yugoslav Republic Of Macedonia and Georgia as well as 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 arc-seconds or 0.00005 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 ISO19115/19139 profile.

**Coverage:** Andorra<sup>2</sup>, Austria, Belgium, Bulgaria, Croatia, 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).

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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").

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

See more information on ERM project's website:

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

## 2.2 Metadata

Discovery Metadata for the ERM v11.1 are provided in XML format and are INSPIRE compliant and according to the ISO 19115/19139 profile.

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 European coverage:  
ERM\_v11.1\_Lineage\_FullEurope.doc
- Lineage file per European region
- Lineage files at minimum unit dataset (i.e. AT\_ERM\_v11\_Lineage.doc and AT\_ERM\_v11\_Lineage.xls)

## 2.3 Minimum unit dataset

EuroRegionalMap 11.1 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:

Dataset Coding	Minimum Unit Dataset Description
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
HR	Croatia
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

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



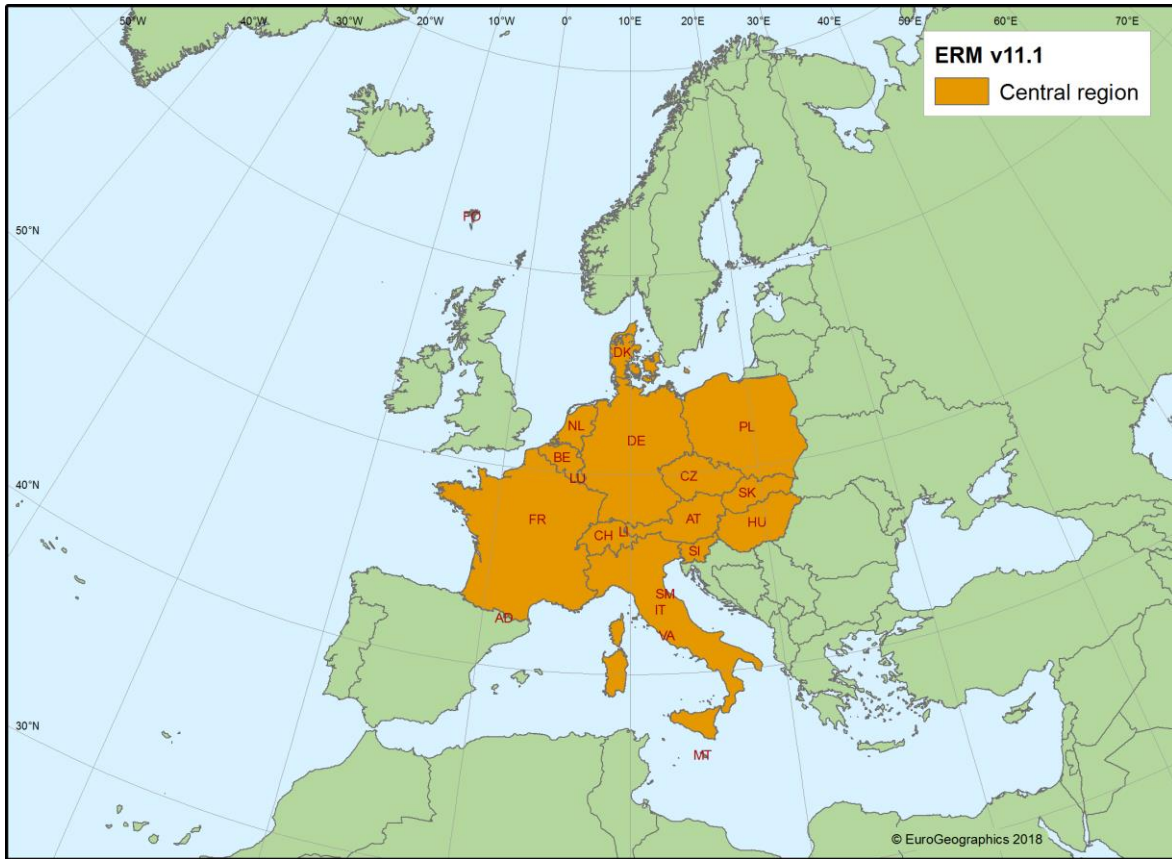


Figure 1: Coverage Central Europe.

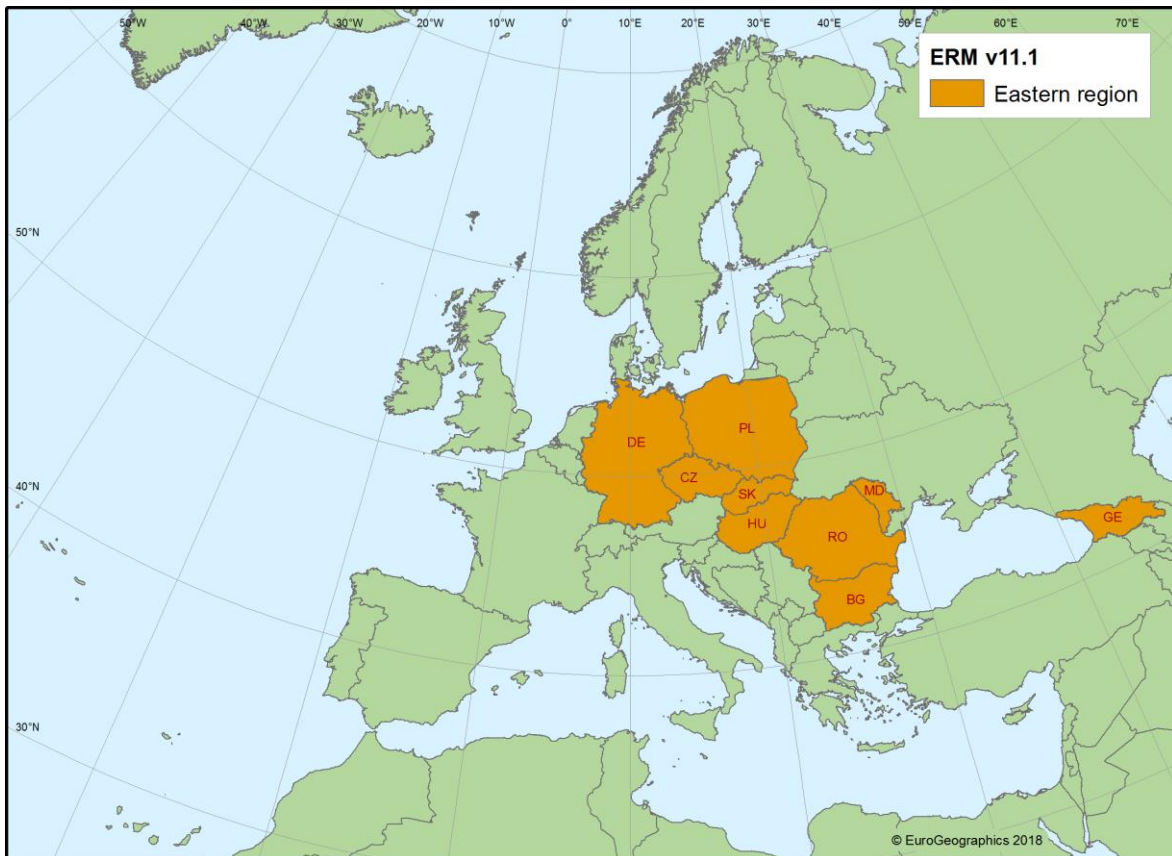


Figure 2: Coverage Eastern Europe.

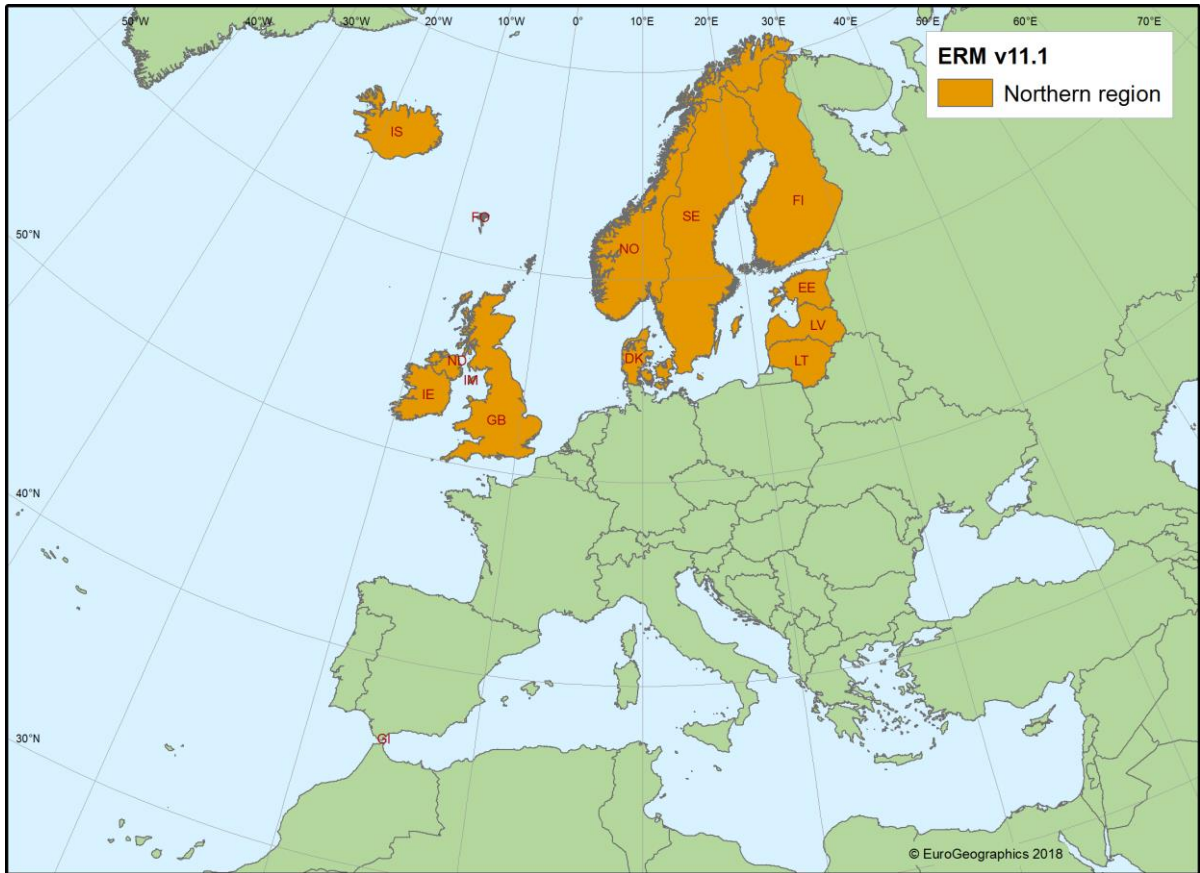


Figure 3: Coverage Northern Europe.

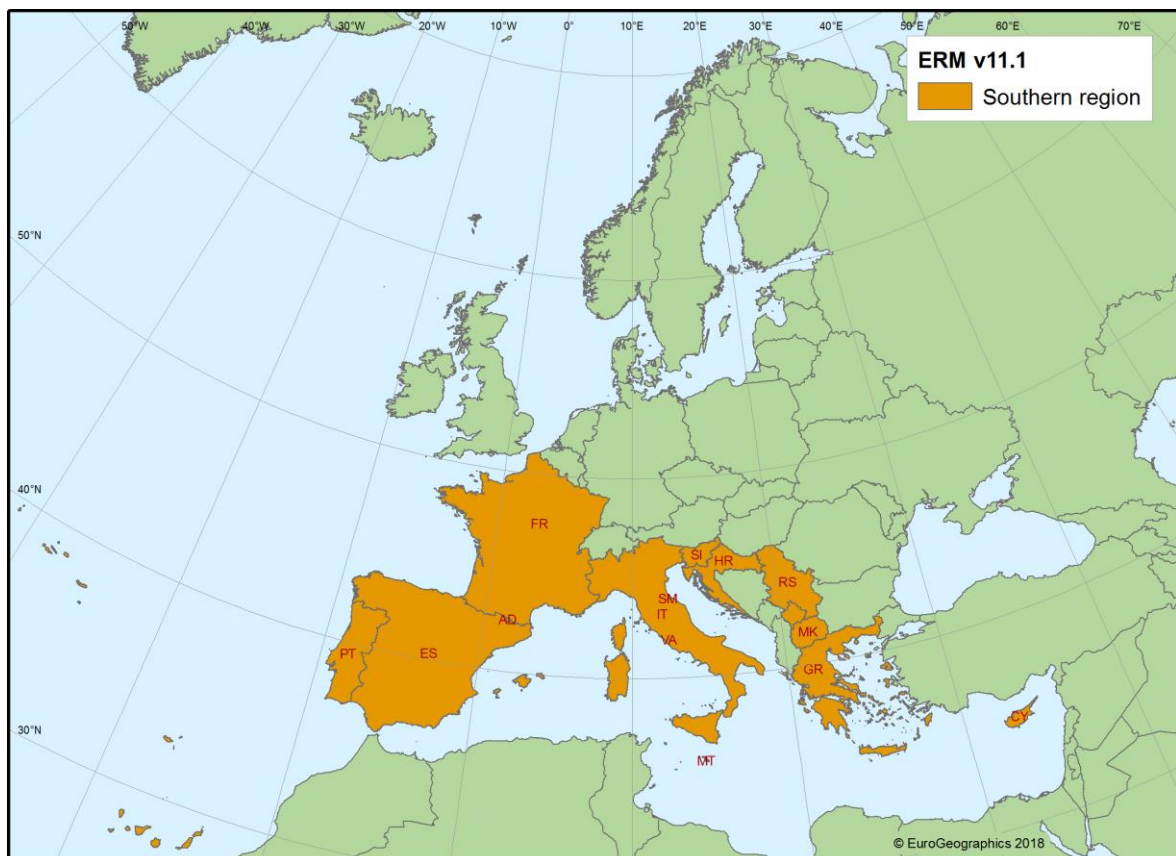


Figure 4: Coverage Southern Europe.

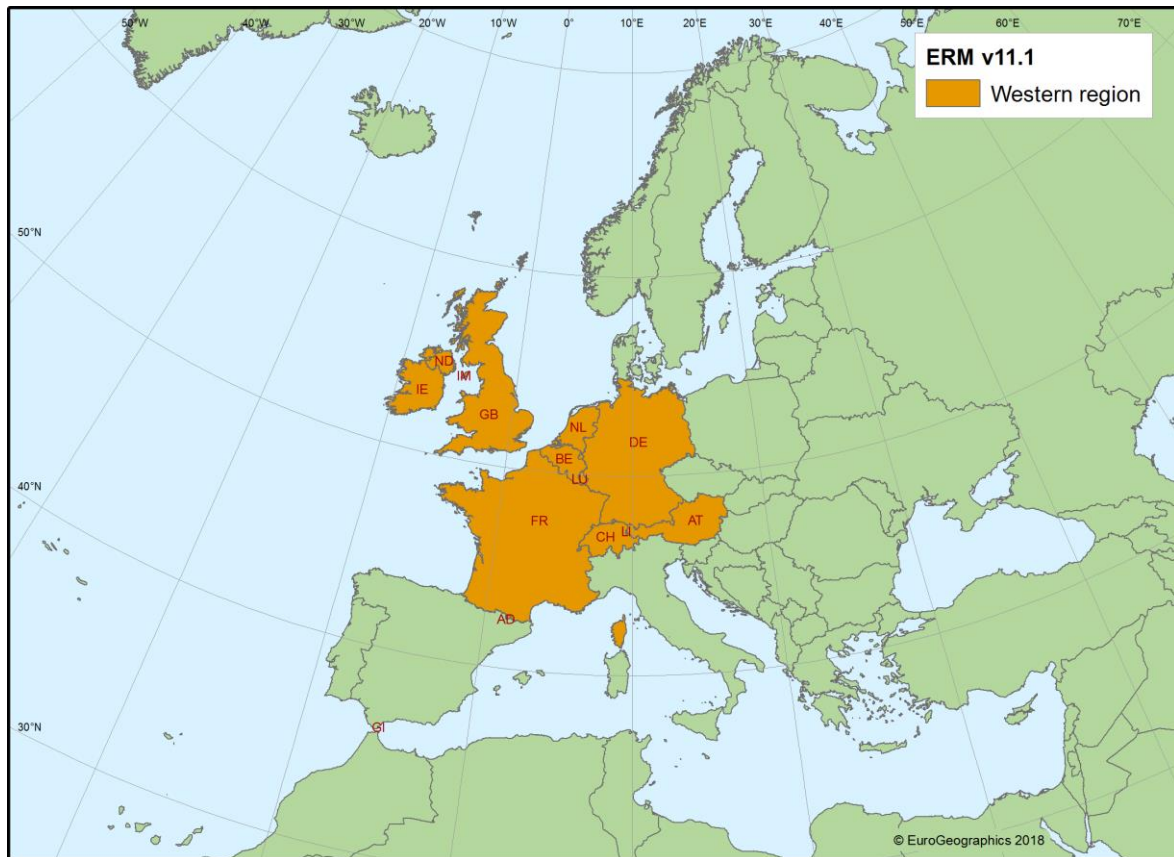


Figure 5: Western Central Europe.

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.

## 2.5 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 A	Area	FA001	POLBND A.SHP
	POLBND L	Line	FA000	POLBND L.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	GNAMET	Text	ZD040	GNAMET.SHP
	GNAMEL	Line	ZD040	GNAMEL.SHP
MISC	BUILD P	Point	AL015	BUILD P.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.

## 3 Using ERM

### 3.1 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.

### 3.2 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.

### 3.3 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 arc-seconds or 0.00005 decimal degrees.

Coordinate accuracy: ArcGIS FileGeodatabase 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: [ebrm@bkg.bund.de](mailto:ebrm@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: \_\_\_\_\_

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

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

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

## Annex B: Copyright statements

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

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Cyprus	© Department of Lands and Surveys (DLS)
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Greece	© Hellenic Military Geographical Service (HMGS)
Guernsey	© States of Guernsey
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Iceland	© Landmælingar Íslands (LMI)
Ireland	© Ordnance Survey Ireland (OSI)
Italy including San Marino and Vatican City State	© Istituto Geografico Militare Italiano (IGM)
Jersey	© States of Jersey
Latvia	© Latvijas Ģeotelpiskās informācijas aģentūra (LGIA)
Lithuania	© Nacionalinė žemės tarnyba (NLS-L)
Malta	© Malta Planning Authority (MEPA)
Norway	© Kartverket (KARTVERKET)
Poland	© Główny Urząd Geodezji i Kartografii (GUGIK)
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Sweden	© Lantmäteriet (LANTMÄTERIET)
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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