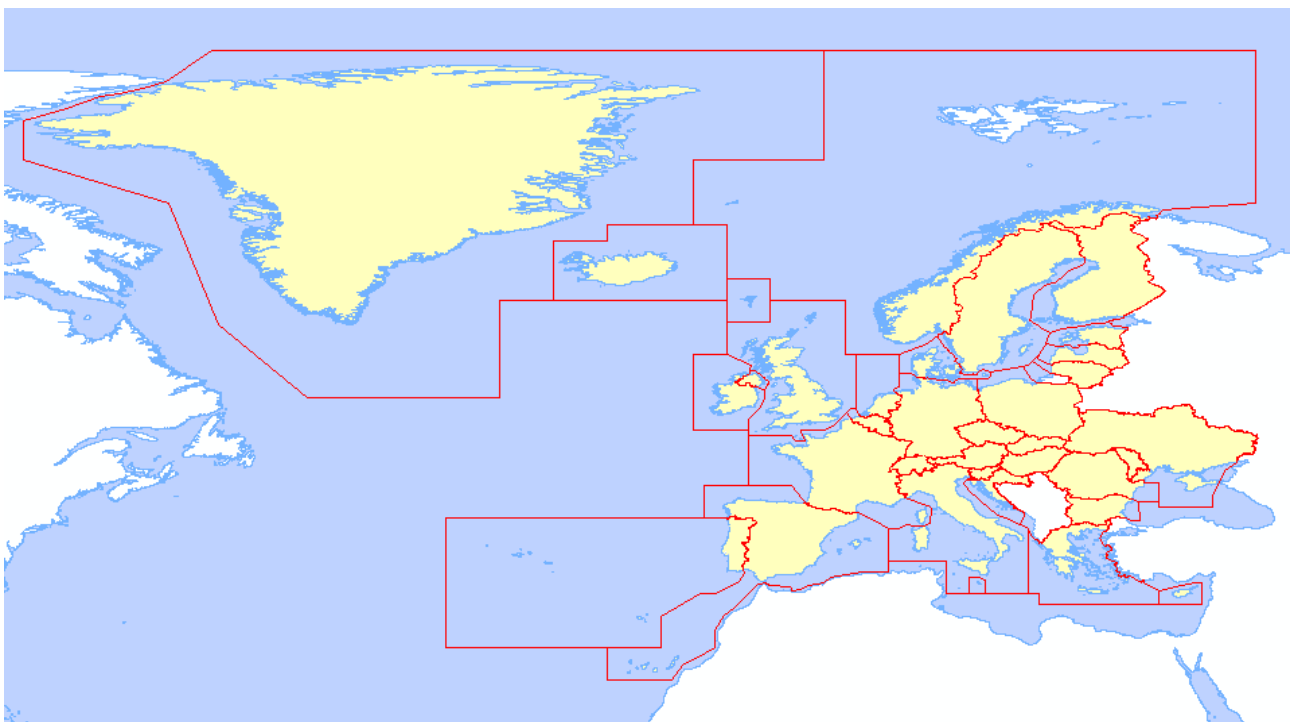




# EuroGlobalMap User Guide

Refers to EGM 4.0, released at January 2011



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## Introduction

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

The Guide is arranged into the following sections:

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

Additional documents for detailed information are:

- EGM specifications: *Egmspec3-3.pdf*
- Changes from v3.0 to v4.0: *EGM\_v4.0\_changes.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 EGM 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  
ru du Nord 76  
1000 Brussels  
BELGIUM

Telephone: +32 (0) 2 888 71 93  
Facsimile: +32 (0) 2 888 71 94  
WWW: <http://www.EuroGeographics.org>

The addresses of the contact persons in national mapping agencies are listed in corresponding metadata files.

## Product performance

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

## Liability

A full description of the terms and conditions of supply and use of EGM is included in the *End User Licence* signed by your organisation.

EuroGeographics and the national mapping agencies contributing to EGM have made every effort to ensure that data supplied are free from errors and omissions. Possible exceptions from EGM specifications, are named 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 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 EGM

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

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

### **Data copyright**

EGM data are copyright of EuroGeographics and the contributing national mapping agencies. As standard, EGM data may be used for internal business use only. It may not be used for Internet applications unless this has been explicitly agreed within a schedule addition to the licence. Your licence agreement specifies the number of concurrent users, which may use the data. Additionally, any printed output, which is based on EGM data must bear an appropriate copyright acknowledgement.

Copyright statements are named in Annex B.

### **User Guide copyright**

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## Overview of EGM data

### General product description

EGM v4.0 is a pan-European dataset containing basic geographic information at the scale 1:1 M covering 33 European countries and/or administrative areas (see attached table, Annex C). It is seamless<sup>1</sup> and harmonised data and is produced in cooperation by the National Mapping Agencies of Europe, using official national databases.

EuroGlobalMap contains six themes:

- Administrative boundaries
- Hydrography
- Transportation
- Built-up areas (settlements)
- Elevation (elevation points)
- Named location (geographical names)

**Coordinates:** Geographical in degrees (longitude, latitude) with decimal fraction and based on the ETRS89 spatial reference system, which corresponds WGS84 reference system. Data in diverse coordinates might be available from On-Line web service, VARs and distributors.

**Coordinate accuracy:**

- ArcGIS Personal Geodatabase (v9.3) and Shape files: 9 significant digits e.g. 61.0000001 dd.

**Positional accuracy:** 1000 meters (or at least 2000 meters).

**Feature selection:** Minimum size of areas or lines is feature dependent. Smallest areal units are about 0.5 km<sup>2</sup>. See detailed instructions in EGM v3.3 specifications.

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

**Character sets used:** ISO8859 –series (see the details in EGM specifications and the Technical Guide). UNICODE system is used in Geodatabase.

**Metadata:** According ISO19115 standard and INSPIRE implementation rules.

**Coverage:** Andorra, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Cyprus, Denmark, Estonia, Finland, Faroe Islands, France, Germany, Gibraltar<sup>2</sup>, Greece, Great Britain, Greenland, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg<sup>2</sup>, Malta, Monaco<sup>2</sup>, Moldova, Northern Ireland, Norway, Poland, Portugal, Romania, San Marino<sup>2</sup>, Slovakia, Slovenia, Spain, Sweden, Switzerland, The Netherlands, Ukraine and Vatican<sup>2</sup>. The product will be gradually extended targeting to cover the whole of Europe.

**Product types for supply:** EGM will be supplied on annual subscription basis including the updates issued in the license period.

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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 the surrounding country (e.g. Andorra included in dataset of Spain).

**Update:** The product is constantly updated over a two years cycle (on average).

**Product formats:** ArcGIS Personal Geodatabase (ArcGIS v9.3), Arc Shape – files. Diverse formats might be available from On-Line web service, VARs and distributors.

**Distribution media:** DVD, web delivery (“YouSendit”)

EuroGlobalMap is designed for business use and can be exploited for analysis covering large areas (environment, hydrography, population, transportation, geographical names, ...) and mainly is focused to serve as geographic back-drop for presentation and visualisation.

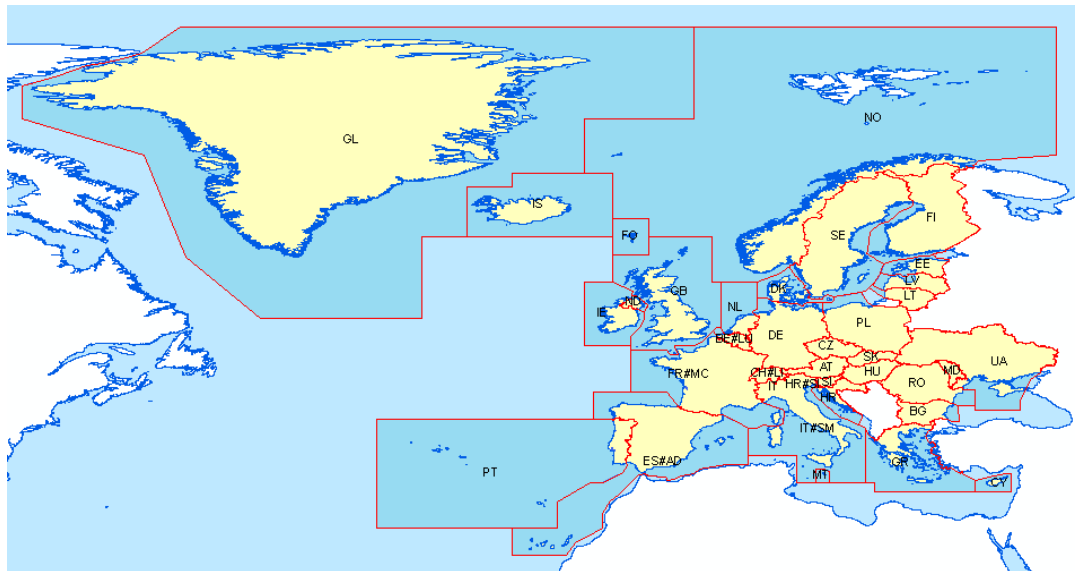
See the more information on EGM project’s websites:

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

## Data directory structure filenames

In the EGM v4.0 all features in all themes are coded with an ICC code (International Country Code). With this code it is easier to select the wanted features based on their location. Features inside e.g. Germany has ICC value “DE” and features locating in Germany-France border ICC value “DE#FR”

ICC coding is based on “directory areas” (see below) which mainly mean responsibility areas (of data collecting and maintenance). Directory lines following mostly latitude/longitude axes. These lines are not of any administrative meaning.



*The picture above shows the data directory areas in EGM v4.0.*

Each directory area contains one country area. There are, however, the following exceptions:

- Monaco is included to the directory area “FR” (France).
- San Marino and Vatican are included to directory area “IT” (Italy).

- Gibraltar is included to directory area “ES” (Spain).
- Northern Ireland is coded “ND”
- Channel Isles (Jersey, Guernsey, Alderney, Sark) are included to “GB”.
- Some outer sea islands are not included: Svalbard/Spitsbergen, Jan Mayen island. Obs: Svalbard included to feature class “LandA”.

### Geodatabase files

- **Full Europe:** EGM\_v31.mdb
- **Countries/areas:** EGM\_v31\_ES.mdb, etc

### Metadata directory structure and metadata files

There are three kinds of metadata files available (country based metadatas). File names start with the ICC code e.g. Finland:

e.g. *FI\_EGM\_v31\_Metadata.xls*: metadata according the ISO 19115 standard

e.g. *FI\_EGM\_V31\_Lineage.xls*: completeness and existence of the features and attributes

e.g. *FI\_EGM\_v31\_Lineage.doc*: additional national information

The following countries/areas have common metadata files:

- Belgium, Luxembourg (data production: Belgium)
- Switzerland, Liechtenstein (data production: Switzerland)
- Andorra, Spain, Gibraltar (data production: Spain)
- Italy, San Marino, Vatican (data production: Italy)

## Using EGM

### What you need to use EGM

#### Hardware

EGM can be used with any computer platform from a PC to a mainframe. There are no any specific hardware requirements for managing EGM data.

#### Software

EGM 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 a appropriate software.

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

### Populating the missing attribute values

There are no empty attribute fields in the EGM database. All features have valid values for all attributes.

If the attribute is logically impossible for the feature a special “No/null value” code is used. If the feature does not have a certain attribute value (e.g. a name with the secondary language) then value “not applicable” is used. If the NMCA does not have certain attribute information, values like “unknown” or “unpopulated” are used. See more details in EGM specifications.

### Saving names of the features with different languages

Maximum two national languages are used to save the names of each feature (name of the country with maximum three languages). These items, NAMN1 and NAMN2, can use different code pages (character sets). Some countries have, however, used different primary and secondary languages in different areas of the country. The languages used in EGM in each country are saved with ICC codes to table “EGM\_CHR”:

Country/area	Language	Code	Character set
AD	CAT	Catalan	1
AD	SPA	Spanish	1
AT	GER	German	1
BE	DUT	Dutch	1
BE	FRE	French	1
BE	GER	German	1
BG	BUL	Bulgarian	5
CH	FRE	French	1

CH	GER	German	1
CH	ITA	Italian	1
CH	ROH	Raeto-Romance	1
CY	GRE	Greek	7
CZ	CZE	Czech	2
DE	GER	German	1
DE	WEN	Sorbian languages?	
DK	DAN	Danish	1
EE	EST	Estonian	4
ES	BAQ	Basque	1
ES	CAT	Catalan	1
ES	GLG	Gallegan	1
ES	SPA	Spanish	1
FI	FIN	Finnish	1
FI	SME	Northern Sami	4
FI	SWE	Swedish	1
FO	DAN	Danish	1
FR	FRE	French	1
GB	ENG	English	1
GB	GLA	Gaelic	1
GB	WEL	Welsh	0
GI	SPA	Spanish	1
GL	DAN	Danish	1
GL	KAL	Greenlandic	10
GR	GRE	Greek	7
HR	SCR	Croatian	2
HU	HUN	Hungarian	2
IE	ENG	English	1
IE	GLE	Gaeilge	1
IS	ICE	Icelandic	15
IT	ITA	Italian	1
LI	GER	German	1
LT	LIT	Lithuanian	4
LU	FRE	French	1
LV	LAV	Latvian	4
MC	FRE	French	1
MD	MOL	Moldavian	2
MT	MLT	Maltese	3

If the name of the feature has a “real” value it has been **transliterated** to ASCII characters (note: not transcribed) and saved to items NAMA1 and NAMA2. The purpose of the transliteration is to give all the users at least some uniform vision about the names of the features where ever in Europe they operate (also in those cases when not all the fonts and character sets are installed to the us-

ers PC). Transliteration rules are included to the national metadata files (lineage).

**Please note that if the name of the feature contains diacritical alphabets (like ä, ö, å, ü, é, ě, ě, ...) the transliterated name is always less or more distortion of the original geographical name. Be very careful when using the transliterated names, they do not represent the original ones and can look sometimes very strange: e.g. with city “Athens” (Greek: ΑΘΗΝΑ) the transliterated name is “AUHNA” and the transcribed name (like it is pronounced in Greece) is “ATHINA”.**

## International country codes, ICC

International country codes used in EGM (and based on a location of the feature: inside a country or between two countries) mainly follow the ISO 3166 standard for coding. Exceptions are named in table below:

Country / area	ICC Code used
Northern Ireland	ND
Isle of Man	IM

# Annexes



## Annex B : Copyright statements

EGM data copyright is held by European National Mapping Agencies:

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Czech Republic © Český úrad zeměměřický a katastrální  
Denmark © Kort og Matrikelstyrelsen  
Estonia © Maaamet  
Faroe Islands © Kort og Matrikelstyrelsen  
Finland © Maanmittauslaitos  
France © Institut Géographique National - France  
Germany © Bundesamt für Kartographie und Geodäsie  
Great Britain © Ordnance Survey  
Greece © Hellenic Military Geographical Service  
Greenland © Kort og Matrikelstyrelsen  
Hungary © Földmérési és Távérzékelési Intézet  
Iceland © Landmælingar Íslands  
Ireland © Ordnance Survey Ireland  
Italy © Istituto Geografico Militare Italiano  
Latvia © Latvijas Republikas Valsts zemes dienests  
Liechtenstein © Bundesamt für Landestopographie (Switzerland)  
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Luxembourg © Administration du Cadastre et de la Topographie  
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Moldova © State Agency for Land Relations and Cadastre  
Netherlands © Topografische Dienst Nederland  
Northern Ireland © Ordnance Survey of Northern Ireland  
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## Annex B : Countries/Areas included to EuroGeographics products

no of countries	Included Countries / Areas		no of datasets	Name of the dataset	EGM
	ICC	Name			
1	AL	Albania	-	-	-
1	AT	Austria	1	Austria	1
1	BE	Belgium	1	Belgium	1
1	LU	Luxembourg			
1	BG	Bulgaria	1	Bulgaria	1
1	HR	Croatia	1	Croatia	1
1	CY	Cyprus	1	Cyprus	1
1	CZ	Czech Republic	1	Czech Republic	1
1	DK	Denmark	1	Denmark	1
(1)	GL	Greenland			
(1)	FO	Faroe Islands			
1	EE	Estonia	1	Estonia	1
1	FI	Finland	1	Finland	1
1	FR	France	1	France	1
1	MC	Monaco			
1	DE	Germany	1	Germany	1
1	GB	Great Britain	1	Great Britain	1
1	GR	Greece	1	Greece	1
1	HU	Hungary	1	Hungary	1
1	IS	Iceland	1	Iceland	1
1	IE	Ireland	1	Ireland	1
1	IT	Italy	1	Italy	1
(1)	SM	San Marino			
(1)	VA	Vatican City			
1	RS	Serbia	-	-	-
1	LV	Latvia	1	Latvia	1
1	LT	Lithuania	1	Lithuania	1
1	MT	Malta	1	Malta	1
1	MD	Moldova	1	Moldova	1
1	NL	Netherlands	1	Netherlands	1
1	ND	Northern Ireland	1	Northern Ireland	1
1	NO	Norway	1	Norway	1
1	PL	Poland	1	Poland	1
1	PT	Portugal	1	Portugal	1
1	RO	Romania	1	Romania	1
1	SK	Slovakia	1	Slovakia	1
1	SI	Slovenia	1	Slovenia	1
1	ES	Spain	1	Spain	1
(1)	AD	Andorra			
(1)	GI	Gibraltar			

1	SE	Sweden	1	Sweden	1
1	CH	Switzerland	1	Switzerland	1
1	LI	Liechtenstein			
1	UA	Ukraine	1	Ukraine	1
<b>45</b>			<b>33</b>		<b>33</b>