

EuroGlobalMap

User Guide

Refers to EGM 2023.2, released in March 2023



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Introduction

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

The Guide is arranged into the following sections:

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

Additional documents for detailed information are:

- EGM specifications: *EGM_2023_DataSpecification.pdf*
- Changes from 2022 to 2023: *EGM_2023.2_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 AISBL

Head Office

rue du Nord 76 / Noordstraat 76

1000 Brussels

BELGIUM

Telephone: +32 (0) 2 888 7193 / +32 (0)2 888 7194

E-mail: contact us form <https://www.mapsforeurope.org/contact>

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 use of EGM is included in the EuroGeographics Open Data Licence

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Attribution statements are detailed in Annex B.

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Overview of EGM data

General product description

EGM 2022.2 is a pan-European dataset containing basic geographic information at the scale 1:1 M covering 47 European countries and 9 administrative areas (see attached table, Annex C). The data is seamless¹ and harmonised, and is produced by the EGM Project Coordinator (IGN France) in cooperation by the National Mapping Agencies of Europe.

EuroGlobalMap contains five themes:

- Administrative Boundaries
- Hydrography
- Named Location
- Settlement
- Transportation

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

Coordinate accuracy: Geopackage and Shapefiles: 9 significant digits e.g. 61.0000001 dd.

Positional accuracy: 1,000 metres (or at least 2,000 metres).

Feature selection: Minimum size of areas or lines is feature dependent. Smallest area units are about 0.5 km². See detailed instructions in EGM 2022 specifications.

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

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

Metadata: According ISO19115 standard and INSPIRE implementation rules.

Coverage: Andorra, Albania, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Cyprus, Denmark, Estonia, Finland, Faroe Islands, France², Georgia, Germany, Gibraltar, Greece, Great Britain, Greenland, Hungary, Iceland, Ireland, Italy, Kosovo, Latvia, Liechtenstein, Lithuania, Luxembourg, Republic of North Macedonia, Malta, Moldova, Monaco, Montenegro, Northern Ireland, Norway, Poland, Portugal, Romania, Saint-Pierre and Miquelon, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, the Netherlands, Ukraine, and Vatican. The product will be gradually extended targeting to cover the whole of Europe.

Product types for supply: EGM is available via the [Open Maps for Europe website](#).

Update: The product is updated annually.

Product formats: Geopackage and Shape-files.

Distribution media: [Open Maps for Europe website](#).

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

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

² Including the French overseas territories Guadeloupe, Martinique, Saint-Barthélemy, Saint-Martin (French part), French Guiana, La Réunion, and Mayotte.



Data directory structure filenames

In EGM 2023.2 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 have ICC value "DE" and features locating e.g. on Germany-France border have 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.

Metadata directory structure and metadata files

There are four kinds of metadata files available:

- *EGM_2023_Metadata.xls*: metadata according to the ISO 19115 standard.
- *EGM_2023_DataCompleteness_*.csv*: completeness and existence of features and attributes.
 - **_ICC_** : discriminating between the international country codes
 - **_attr_** : discriminating between attributes, and counting features for which they are populated only.
- *EGM_2023_Lineage.pdf*: additional information.
- *EGM_2023.2_Changes.pdf*: global changes for this delivery.
- *EGM_2023_Updates.csv*: detail of the themes updated for each country.

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 an-allying it. Whatever you want to do with the data, you need to have 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

At most 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 | Catalan | cat | 1 |
| AD | Spanish | spa | 1 |
| AL | Albanian | alb | 1 |
| AT | Germany | ger | 1 |
| BA | Bosnian | bos | 1 |
| BE | Dutch | dut | 1 |
| BE | French | fre | 1 |
| BE | German | ger | 1 |
| BG | Bulgarian | bul | 5 |
| CH | French | fre | 1 |
| CH | German | ger | 1 |
| CH | Italian | ita | 1 |
| CH | Raeto-Romance | roh | 1 |
| CY | Greek | gre | 7 |
| CZ | Czech | cze | 2 |
| DE | German | ger | 1 |
| DE | Sorbian languages | wen | ? |
| DK | Danish | dan | 1 |
| EE | Estonian | est | 4 |

| Country/Area | Language | Code | Character set |
|--------------|---------------|------|---------------|
| ES | Basque | baq | 1 |
| ES | Catalan | cat | 1 |
| ES | Gallegan | glg | 1 |
| ES | Spanish | spa | 1 |
| FI | Finnish | fin | 1 |
| FI | Northern Sami | sme | 4 |
| FI | Swedish | swe | 1 |
| FO | Danish | dan | 1 |
| FR | French | fre | 1 |
| GB | English | eng | 1 |
| GB | Gaelic | gla | 1 |
| GB | Welsh | wel | 0 |
| GE | Georgian | geo | 99 |
| GI | Spanish | spa | 1 |
| GL | Danish | dan | 1 |
| GL | Greenlandic | kal | 10 |
| GR | Greek | gre | 7 |
| HR | Croatian | scr | 2 |
| HU | Hungarian | hun | 2 |
| IE | English | eng | 1 |
| IE | Gaeilge | gle | 1 |
| IS | Icelandic | ice | 15 |
| IT | Italian | ita | 1 |
| LI | German | ger | 1 |
| LT | Lithuanian | lit | 4 |
| LU | French | fre | 1 |
| LV | Latvian | lav | 4 |
| MC | French | fre | 1 |
| MD | Moldavian | mol | 2 |
| MK | Macedonian | mkd | ? |
| MT | Maltese | mlt | 3 |
| RS | Serbian | srp | 5 |
| UA | Ukrainian | ukr | 5 |

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 wherever in Europe they operate (also in those cases when not all the fonts and character sets are installed to the user’s 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, ë, ç, ñ, ß, œ...) the transliterated name is always more or less a 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 used |
|------------------|----------|
| Northern Ireland | ND |
| Isle of Man | IM |

Annexes

Annex A: Product performance

Please complete and send to the Production Manager of EGM:

Vincent BEAUCE
Institut national de l'information géographique et forestière (IGN-F)
73, avenue de Paris
94165 Saint-Mandé Cedex
FRANCE

Telephone: +33 (0)1 43 98 80 48

E-mail: EGM@ign.fr

Web: <http://www.ign.fr>

Description of problem encountered / suggestion:

Version of data: _____

Your name: _____

Company: _____

Address: _____

Telephone: _____

Facsimile: _____

E-mail: _____



Annex B: Attribution statements

EGM data copyright is held by European National Mapping Agencies:

| | |
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| Bulgaria | © Cadastre Agency, MRDPW |
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| Ireland | © Ordnance Survey Ireland |
| Kosovo | © Kosovo Cadastral Agency (KCA) |
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| Luxembourg | © Administration du Cadastre et de la Topographie |
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| Northern Ireland | © Ordnance Survey of Northern Ireland |
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| Poland | © Główny Urząd Geodezji i Kartografii |
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| Spain | © Centro Nacional de Información Geográfica - Instituto Geográfico Nacional |
| Sweden | © Lantmäteriet |
| Switzerland | © Bundesamt für Landestopographie Swisstopo |
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Annex C: Countries included to EuroGeographics products

| no of countries | Included territories | |
|-----------------|----------------------|------------------------|
| | ICC | Name |
| 1 | AD | Andorra |
| 1 | AL | Albania |
| 1 | AT | Austria |
| 1 | BA | Bosnia and Herzegovina |
| 1 | BE | Belgium |
| 1 | BG | Bulgaria |
| (1) | BL | Saint Barthélemy (FR) |
| 1 | CH | Switzerland |
| 1 | CY | Cyprus |
| 1 | CZ | Czech Republic |
| 1 | DE | Germany |
| 1 | DK | Denmark |
| 1 | EE | Estonia |
| 1 | ES | Spain |
| 1 | FI | Finland |
| (1) | FO | Faroe Islands (DK) |
| 1 | FR | France |
| 1 | GB | Great Britain |
| 1 | GE | Georgia |
| (1) | GF | French Guiana (FR) |
| (1) | GG | Guernsey (GB) |
| 1 | GI | Gibraltar |
| (1) | GL | Greenland (DK) |
| (1) | GP | Guadeloupe (FR) |
| 1 | GR | Greece |
| 1 | HR | Croatia |
| 1 | HU | Hungary |
| 1 | IE | Ireland |
| (1) | IM | Isle of Man |
| 1 | IS | Iceland |
| 1 | IT | Italy |
| (1) | JE | Jersey |
| 1 | KS | Kosovo |
| 1 | LI | Liechtenstein |
| 1 | LT | Lithuania |
| 1 | LU | Luxembourg |
| 1 | LV | Latvia |

| no of countries | Included territories | |
|--|----------------------|--------------------------------|
| | ICC | Name |
| 1 | MC | Monaco |
| 1 | MD | Moldova |
| 1 | ME | Montenegro |
| (1) | MF | Saint Martin (FR) |
| 1 | MK | Republic of North Macedonia |
| (1) | MQ | Martinique (FR) |
| 1 | MT | Malta |
| 1 | ND | Northern Ireland |
| 1 | NL | Netherlands |
| 1 | NO | Norway |
| 1 | PL | Poland |
| (1) | PM | Saint-Pierre and Miquelon (FR) |
| 1 | PT | Portugal |
| (1) | RE | La Réunion (FR) |
| 1 | RO | Romania |
| 1 | RS | Serbia |
| 1 | SE | Sweden |
| 1 | SI | Slovenia |
| 1 | SK | Slovakia |
| 1 | SM | San Marino |
| 1 | UA | Ukraine |
| 1 | VA | Vatican City |
| (1) | YT | Mayotte (FR) |
| 47 countries and 13 related territories | | |

There are also some basic data for the following countries:

| no of countries | Included territories | |
|-----------------|----------------------|-------------------|
| | ICC | Name |
| 1 | BY | Belarus |
| 1 | RU | Russia |
| (1) | SX | Sint Marteen (NL) |
| 1 | TR | Turkey |

Other country codes mentioned when needed:

AM: Armenia

AZ: Azerbaijan

BR: Brazil

MA: Morocco

SR: Surinam