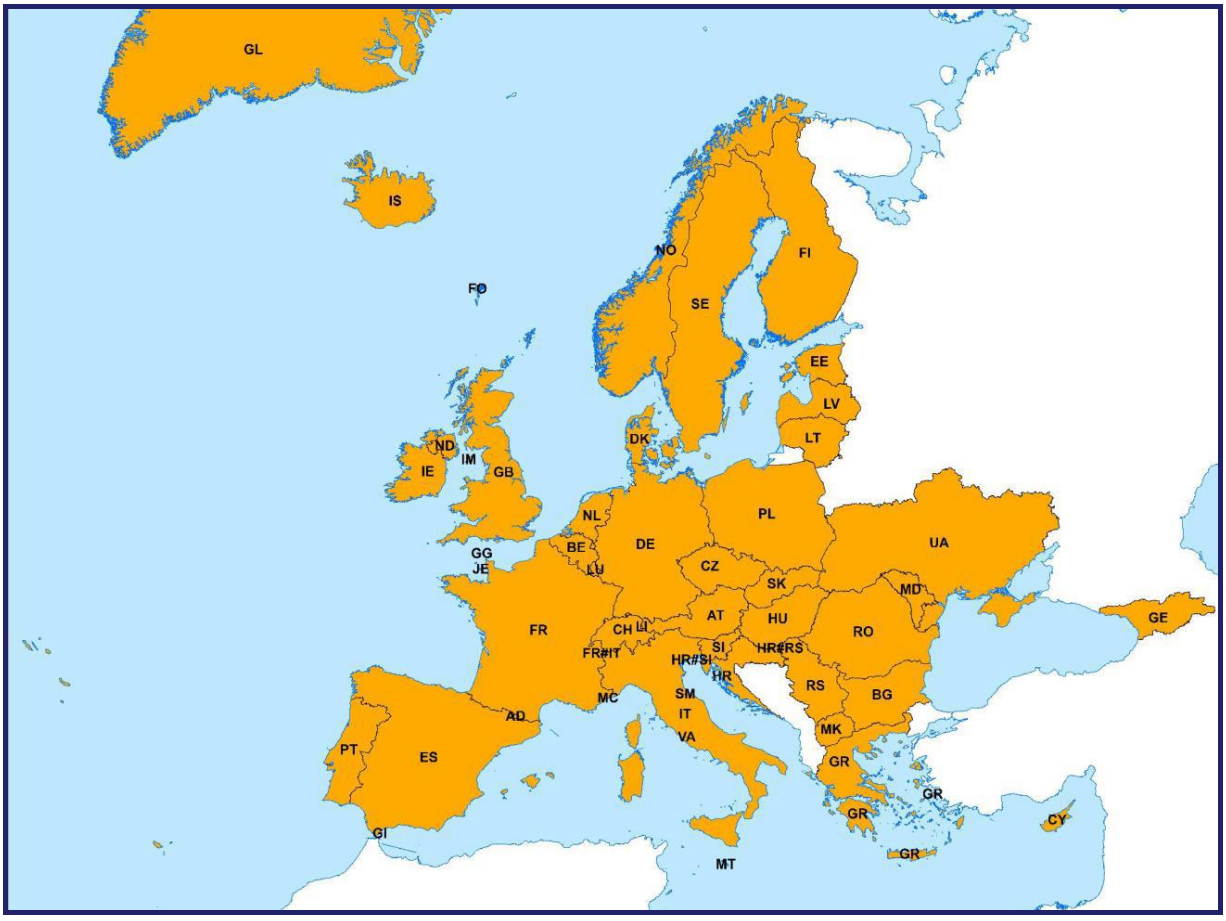
EuroGlobalMap

User Guide

Refers to EGM 2019, released in March 2019



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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_2019_DataSpecification.pdf*
- Changes from v11.0 to 2019: *EGM_2019_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:

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BELGIUM

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E-mail: contact@EuroGeographics.org
Web: https://eurogeographics.org/

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

The Product is licensed ‘as is’ and EuroGeographic’s excludes all representations, warranties, obligations and liabilities in relation to the Product to the maximum extent permitted by law. EuroGeographic’s does not offer any guarantee concerning the completeness, the absence of errors or the fitness to any purpose.

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Attribution statements are detailed in Annex B.

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Excel and Word are trademarks of Microsoft.

Overview of EGM data

General product description

EGM 2019 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 seamless[1] and harmonised, and is produced by the EGM Project Coordinator (IGN Franc0e) 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: ArcGIS Personal Geodatabase and Shapefiles: 9 significant digits e.g. 61.0000001 dd.

Positional accuracy: 1000 metres (or at least 2000 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 2019 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[2], Albania, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Cyprus, Denmark, Estonia, Finland, Faroe Islands[2], France[3], Georgia, Germany, Gibraltar[2], Greece, Great Britain, Greenland[2], Hungary, Iceland, Ireland, Italy, Kosovo[2], Latvia, Liechtenstein[2], Lithuania, Luxembourg[2], North Macedonia, Malta, Monaco[2], Moldova, Northern Ireland, Norway, Poland, Portugal, Romania, San Marino[2], Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, the Netherlands, Ukraine, and Vatican[2]. The product will be gradually extended targeting to cover the whole of Europe.

Product types for supply: EGM is available via the EuroGeographics website here.

Update: The product is updated annually.

Product formats: ArcGIS Personal Geodatabase (ArcGIS v10.4), Arc Shape-files. Diverse formats might be available from online web service, VARs and distributors.

Distribution media: EuroGeographics website.

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

[2] The datasets covering these territories are included to the data directories of the surrounding country (e.g. Andorra included in dataset of Spain).

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

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.

See more information on the EGM project's website: https://eurogeographics.org/products-and-services/open-data/topographic-data/

Data directory structure filenames

In the EGM 2019 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 in 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.

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

- Monaco and French overseas territories are included in the directory area "FR" (France).
- San Marino and Vatican are included in directory area "IT" (Italy).
- Andorra and Gibraltar is included in 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 is included in feature class "LandmaskA".
- Kosovo is included in the directory area "RS" (Serbia).

Geodatabase files:

- Full Europe: *EuroGlobalMap_2019.gdb*

Metadata directory structure and metadata files

There are three kinds of metadata files available:

- *EGM_2019_Metadata.xls*: metadata according to the ISO 19115 standard.
- *EGM_2019_DataCompleteness.xls*: completeness and existence of the features and attributes.
- *EGM_2019_Lineage.pdf*: additional information.
- *EGM_2019_Update.xls*: 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	CZ	2
DE	German	GER	1

Country/Area	Language	Code	Character set
DE	Sorbian languages	WEN	?
DK	Danish	DAN	1
EE	Estonian	EST	4
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 transcripted) 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, ě, ę…) 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 transcripted 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:

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

Telephone: +33 (0)1 43 98 81 81
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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Finland	© Maanmittauslaitos
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Georgia	© National Agency of Public Registry
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
Kosovo	© Kosovo Cadastral Agency (KCA)
Italy	© Istituto Geografico Militare Italiano
Latvia	© Latvijas Republikas Valsts zemes dienests
Liechtenstein	© Bundesamt für Landestopographie (Switzerland)
Lithuania	© Nacionalinė žemės tarnyba
Luxembourg	© Administration du Cadastre et de la Topographie
Malta	© Malta Environment and Planning Authority (MEPA)
Moldova	© State Agency for Land Relations and Cadastre
Netherlands	© Topografische Dienst Nederland
Northern Ireland	© Ordnance Survey of Northern Ireland
Norway	© Statens Kartverk
Poland	© Główny Urząd Geodezji i Kartografii
Portugal	© Instituto Geográfico Português
Republic of North Macedonia	© Agency of Real Estate Cadastre
Rep. of Slovakia	© Geodetický a kartografický ústav
Romania	© CNGCFT (National Center of Geodesie, Cartography, Fotogrametry and Remote Sensing)
Serbia	© Republički geodetski zavod
Slovenia	© Geodetska Uprava Republike Slovenije
Spain	© Centro Nacional de Informacion Geografica - Instituto Geográfico Nacional
Sweden	© Lantmäteriet
Switzerland	© Bundesamt für Landestopographie
Ukraine	© Research Institute of Geodesy and Cartography

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Annex C: 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	Albania	1
1	AT	Austria	1	Austria	1
1	BA	Bosnia and Her-zegovina	1	Bosnia and Her-zegovina	0
1	BE	Belgium	1	Belgium	1
1	LU	Luxembourg	1	Luxembourg	1
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)	BL	Saint Barthélemy			
(1)	GF	French Guiana			
(1)	GP	Guadeloupe			
(1)	MF	Saint Martin			
(1)	MQ	Martinique			
(1)	RE	Réunion			
(1)	YT	Mayotte			
1	GE	Georgia	1	Georgia	1
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	LV	Latvia	1	Latvia	1
1	LT	Lithuania	1	Lithuania	1
1	MT	Malta	1	Malta	1

no of countries	Included countries/areas		no of datasets	Name of the dataset	EGM
	ICC	Name			
1	MD	Moldova	1	Moldova	1
1	ME	Montenegro	1	Montenegro	0
1	NL	Netherlands	1	Netherlands	1
1	ND	Northern Ireland	1	Northern Ireland	1
1	MK	Republic of North Macedonia	1	North Macedonia	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	KS	Kosovo	1	Kosovo	1
1	RS	Serbia	1	Serbia	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 / Liechtenstein	1
1	LI	Liechtenstein			
1	UA	Ukraine	1	Ukraine	1
47			**41**		**39**