



## Metadata

# European Groundwater Crustacea Database

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## General information

### name of the database:

full name of the database: *European Groundwater Crustacea Database*

database short name: *EGCD*

**type of database ([more information](#)):** *species distribution data*

data type: *point data/observation data*

short description of the database/summary:

*The European groundwater crustacean data set (EGCD) comprises a total of 21,700 occurrence data collectively representing 12 orders, 46 families, 165 genera and 1,570 species and subspecies of obligate groundwater Crustacea in Europe*

**science keywords according to [GCMD](#):**

topic: *Biosphere, Biological Classification, Terrestrial Hydrosphere*

keywords: *Groundwater, subterranean habitats, Europe, stygobiont, obligate groundwater fauna*

**ISO topic category according to [ISO 19115](#):**

*Biota, Inland Waters*

## Technical and administrative specifications

**data format:** *Excel*  
**operating system:** *all operating systems*  
**data language:** *English*  
specify: *Language according to species occurrence entry*  
**current availability:** *restricted access*  
currently available through [GBIF](#): *no*  
exchange planned:  
comments: *The European Groundwater Crustacean Database (EGCD) derives from the assembly of 4 individual databases: 1) Niphargidae (authors: C. Fiser & M. Zagamajster); 2) Copepoda (authors: D. Galassi & F. Stoch); 3) Ostracoda (author: P. Marmonier); 4) Other crustacean groups (authors: D. Eme & F. Malard). Yet, full access to the EGCD is not possible but request to use individual databases can be addressed directly to the authors.*

*The EGCD also incorporates groundwater species occurrence data from already established data bases including:*

- the PASCALIS data base (Belgium, France, Italy, Portugal, Slovenia, Spain) Deharveng et al., 2009, Freshwater Biology, 54: 709-726.*
- the hypogean crustacean recording scheme (United Kingdom). Knight 2012. <http://hcrs.freshwaterlife.org>*
- the distributional checklist of the Italian fauna (CKmap2000, 2012). <http://www.faunaitalia.it/ckmap>*
- Berlin museum collection (C.O. Coleman, personal communication)*
- The Proasellus distributional data base (F. Malard, see BioFresh Metadatabase)*
- The Stygofauna Mundi data set (F. Malard and N. Bailly, see BioFresh Metadatabase)*
- The Balkan groundwater species data base held by SubBioLab, Slovenia (M. Zagamajster)*

**update level:** *update planned*

**documentation:**

type: *scientific paper*  
language: *English*

**Do you plan to publish the data on the BioFresh data portal:**

media for data delivery: *others/specify*  
others/details: *See comments above regarding access to the data*

**contact details:**

metadata contact person:  
first, last name: *Florian Malard*  
phone: *00 33 (0)4 72 43 15 61*  
email: *malard@univ-lyon1.fr*  
institution: *UMR CNRS 5023 - LEHNA Université Claude Bernard - Lyon 1 - Bat. Forel (403)*  
address: *43 Bd du 11 Novembre 1918*  
postal code, city: *69 622 Villeurbanne*  
country: *FRANCE*  
web address: *<http://umr5023.univ-lyon1.fr/>*

technical contact person:

first, last name: *Florian Malard*  
phone: *00 33 (0)4 72 43 15 61*  
email: *malard@univ-lyon1.fr*

scientific contact person:

first, last name: *Florian Malard*  
phone: *00 33 (0)4 72 43 15 61*  
email: *malard@univ-lyon1.fr*

**comments:**

*The European Groundwater Crustacean Database (EGCD) derives from the assembly of 4 individual databases by the following authors:*

*Niphargidae: C. Fišer & M. Zigmajster:*

*SubBioLab, Oddelek za biologijo, Biotehniška fakulteta, Univerza v Ljubljani, Vecna pot 111, p.p. 2995, SI-1000 Ljubljana, Slovenia*

*2) Copepoda: D. Galassi & F. Stoch:*

*Dipartimento di Scienze Ambientali, University of L'Aquila, Via Vetoio, Coppito, 67100 L'Aquila, Italy*

*3) Ostracoda: P. Marmonier:*

*LEHNA, UMR CNRS 5023, Ecologie des Hydrosystèmes Naturels et Anthropisés, Université Lyon 1, Bat. Darwin C, 43 Bd 11 Novembre 1918, Villeurbanne, F-69622, France*

*4) Isopoda / other crustacean groups: D. Erme & F. Malard:*

*LEHNA, UMR CNRS 5023, Ecologie des Hydrosystèmes Naturels et Anthropisés, Université Lyon 1, Bat. Darwin C, 43 Bd 11 Novembre 1918, Villeurbanne, F-69622, France*

## Intellectual property rights and citation

(if the database is already published):

### database creator (data compiler):

contact name: *BioFresh and non Biofresh members*

contact email: *malard@univ-lyon1.fr*

### data contributors to/owners of this database:

*single*

criteria for using the data in a publication/scientific analysis:

*Other/Additional criteria*

Other/Additional criteria:

*The EGCD was first assembled in February 2012. This data set derives from the assembly of 4 individual databases: 1) Niphargidae (authors: C. Fiser & M. Zągmajster); 2) Copepoda (authors: D. Galassi & F. Stoch); 3) Ostracoda (author: P. Marmonier); 4) Other crustacean groups (authors: D. Eme & F. Malard). Yet, full access to the EGCD is not possible but request to use individual databases can be addressed directly to the authors.*

### citation of this database:

author(s): *Maja Zągmajster, David Eme, Cene Fii½zer, Diana Galassi, Pierre Marmonier, Fabio Stoch, and Florian Malard*

title: *The European groundwater crustacean data set.*

year: *2013*

### citation of the metadata:

#### comments:

*The EGCD has not yet been published (manuscript in preparation) but first mention to the EGCD can be found in see reference 1.*

## **General data specifications**

### **regional coverage of the database:**

scale of the database: *continental*

continents: *Europe*

### **spatial extend (bounding coordinates):**

southernmost latitude [°]: *35.04*

northernmost latitude [°]: *70.68*

westernmost longitude [°]: *-21.99*

easternmost longitude [°]: *36.64*

minimum altitude: *0 meters*

maximum altitude: *2000 meters*

countries: *Europe: Albania, Andorra, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Faroe Islands, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Liechtenstein, Lithuania, Luxembourg, Macedonia, Moldova, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Svalbard, Sweden, Switzerland, Ukraine, United Kingdom, Kosovo*

## **Site specifications**

<b>coordinate system/grid data:</b>	<i>Latitude/Longitude, format: DD</i>
datum (e.g. WGS84):	<i>WGS84</i>
grid data available:	<i>no</i>
comments:	<i>All species occurrence data are in decimal degrees. Precision of georeferencing is usually about +/- 10 km.</i>
site coding available:	<i>no</i>
<b>number of sites:</b>	<i>&gt;1000</i>

## **Biological data**

### **biological data origin:**

specify method: *general compilation*  
organism group addressed: *Data from pre-existing data bases and extensive literature search*  
comments: *macro invertebrates*  
*Occurrence data collectively represent 12 orders, 46 families, 165 genera and 1,570 species and subspecies of obligate groundwater Crustacea. Orders are: Cladocera, Calanoida, Cyclopoida, Gelyelloida, Harpacticoida, Podocopida, Isopoda, Amphipoda, Bathynellacea, Thermosbaenacea, Mysida and Decapoda.*

## **Sample resolution**

### macro invertebrates:

#### **taxonomic resolution:**

*order, family, sub-family, genus, species, other*

other taxonomic levels: *subspecies*

percentage of species level data: *100*

comments: *Non species level data were removed from the original data base which comprises a total of 25.304 occurrence data.*

#### **taxonomic coding:**

taxalist according to: *taxonomic experts*

example: *Niphargus virei Chevreux, 1896*

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## Other specifications

### GIS layers, shapes related to the database:

*species distribution*

**availability of photos:** *no*

**availability of maps:** *no*

### quality control procedures:

Were any quality control procedures applied to your database?

*yes*

quality control protocols and comments:

*Species names and distributions were checked by taxonomic experts (i.e. either the authors or collaborators, see acknowledgments) and spurious occurrences were excluded from the data set. For the sake of exhaustiveness, species formally recognized by experts as new to science but awaiting description were included in the data set.*

### comments:

*A.I. Camacho (Museo Nacional de Ciencias Naturales, Madrid, Spain) checked the distributional data for Bathynellacea*