

# Dataset of European riparian ground beetles

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## Dataset of European riparian ground beetles

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### Keywords

ground beetles, floodplains, riparian areas, hydromorphological degradation, restoration, literature review

### Short description of the dataset/summary

The database is based on a literature review concerning Central European ground beetles and was part of workpackage 6 in the EU funded project BioFresh ([www.freshwaterbiodiversity.eu](http://www.freshwaterbiodiversity.eu)). The data were collected from relevant literature (including local journals and grey literature) as well as from unpublished collections and private databases.

### General information

dataset entry ID:	BF_CF10
<b>name of the dataset:</b>	
full name of the dataset:	European riparian ground beetles
<b>type of dataset:</b>	species (taxonomic group) per site database including environmental information
data type:	point data/observation data
<b>science keywords according to <a href="#">GCMD</a>:</b>	
topic:	Biosphere
keywords:	ground beetles, floodplains, riparian areas, hydromorphological degradation, literature review
<b>ISO topic category according to <a href="#">ISO 19115</a>:</b>	
	Biota, Inland Waters

## Technical and administrative specifications

<b>data format:</b>	Excel
<b>operating system:</b>	all Windows systems
<b>data language:</b>	English
<b>current access level:</b>	web (public)
currently available through <a href="#">GBIF</a> :	yes
exchange planned:	no
data in data repository:	yes
specify repository:	BioFresh
comments:	Data are available via the Freshwater Biodiversity Data Portal ( <a href="http://data.freshwaterbiodiversity.eu">http://data.freshwaterbiodiversity.eu</a> ) and therefore also available to GBIF.
<b>update level:</b>	completed

### documentation:

type:	internal description
language:	English

### Do you plan to publish the data on the Freshwater Biodiversity Data Portal:

media for data delivery:	already published through BioFresh BioFresh IPT ( <a href="http://data.freshwaterbiodiversity.eu/ipt/" target="_blank">http://data.freshwaterbiodiversity.eu/ipt/</a> )
web address:	<a href="http://data.freshwaterbiodiversity.eu/ipt/">http://data.freshwaterbiodiversity.eu/ipt/</a>

### contact details:

#### metadata contact person:

first, last name:	Kathrin Januschke
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#### scientific contact person:

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phone:	+49 (0)201 183 3113
email:	kathrin.januschke@uni-due.de

## Intellectual property rights and citation

<b>dataset publisher:</b>	BioFresh
<b>dataset creator (data compiler):</b>	
contact name:	Dr. Kathrin Januschke
contact email:	kathrin.januschke@uni-due.de
contact institution:	Department of Aquatic Ecology
<b>data contributors to/owners of this dataset:</b>	multiple
number:	4
<b>data contributor/owner 1:</b>	

contact name: Diplom-Biol. Michael-Andreas Fritze  
 contact email: fritze@callistus.de  
 contact institute: Callistus - Gemeinschaft für Zoologische & Ökologische Untersuchungen  
 criteria for using this part of the dataset:  
 Other/Additional criteria  
 other/additional criteria: Data provider must be offered co-authorship for publications using this dataset.  
 Data must be publicly acknowledged and cited correctly.

**data contributor/owner 2:**

contact name: Mag. Wolfgang Paill  
 contact email: wolfgang.paill@museum-joanneum.at  
 contact institute: Department Biosciences, Centre of Natural History  
 criteria for using this part of the dataset:  
 Other/Additional criteria  
 other/additional criteria: Data provider must be offered co-authorship for publications using this dataset.  
 Data must be publicly acknowledged and cited correctly.

**data contributor/owner 3:**

contact name: Mag. Tanja Holler  
 contact email: tanja.holler@museum-joanneum.at  
 contact institute: Department Biosciences, Centre of Natural History  
 criteria for using this part of the dataset:  
 Other/Additional criteria  
 other/additional criteria: Data provider must be offered co-authorship for publications using this dataset.  
 Data must be publicly acknowledged and cited correctly.

**data contributor/owner 4:**

contact name: Mag. Laura Pabst  
 contact email: pabst.laura@gmail.com  
 contact institute:  
 criteria for using this part of the dataset:  
 Other/Additional criteria  
 other/additional criteria: Data provider must be offered co-authorship for publications using this dataset.  
 Data must be publicly acknowledged and cited correctly.

**citation of this dataset:**

author(s): BioFresh (publisher), Kathrin Januschke (provider)  
 title: European riparian ground beetles. Published on  
<http://data.freshwaterbiodiversity.eu>, accessed on [date].  
 year: 2015  
 doi: <http://dx.doi.org/10.13148/bfcf10>

**citation of the metadata:**

author(s): Januschke K., Fritze M.-A., Holler T., Pabst L. & Paill W.  
 title and journal (name, number, pages):  
 Dataset of European riparian ground beetles. Freshwater Metadata Journal 13:  
 1-6  
 year: 2016  
 doi: <http://dx.doi.org/10.15504/fmj.2016.13>

**General data specifications****regional coverage of the dataset:**

scale of the dataset: continental

**spatial extent (bounding coordinates):**

southernmost latitude [°]: 43.49  
northernmost latitude [°]: 53.08  
westernmost longitude [°]: 1.4  
easternmost longitude [°]: 16.725  
minimum altitude: 0 metres  
maximum altitude: 2140 metres  
countries: Europe: Austria, Belgium, France, Germany, Italy, Netherlands, Switzerland  
freshwater ecoregions of the world (FEOW) according to [WWF](#):  
Europe: Central & Western Europe

**European ecoregions according to Illies ([WFD](#)):**

Alps (ER4), Western Highlands (ER8), Hungarian Lowlands (ER11), Western Plains (ER13), Central Plains (ER14)

**ecosystem type:**

rivers, wetlands

**covered timeframe:**

1972 - 2012

**Site specifications**

**coordinate system/grid data:**

latitude/longitude, format: DD

datum (e.g. WGS84): WGS84

grid data available: no

**ecosystem type classification:**

rivers (classification according to WFD):

altitude typology

high: >800 m, mid-altitude: 200 to 800 m, lowland: <200 m

exact altitudinal data available

wetlands (classification according to GLWD):

wetland type

freshwater marsh, floodplain, swamp forest, flooded forest

**site coding:**

site coding available: yes, alphanumerical

number of digits: 8

example: ATCAR119

**number of sites:**

100 - 1000

exact number of sites: 214

**Climate and environmental data**

**climate related data:**

no data available

**environmental data:**

no parameter data per catchment available

available parameters per site: information on riparian vegetation (incl. information on modification)

data source: total vegetation coverage; only for some samples

substrate composition

data source: presence-absence data and percentages depending on methods of studies

comments:

Due to the fact that data was achieved from literature, methods and data depth varied between studies.

**physico-chemistry data:**

no data available

**stressors influencing the sites:**

reference sites available: no

stressor	restored sites available	data before/after restoration available	stressor gradient available	comments
hydromorphological degradation	yes	no	yes	for some sites available
hydrologic stress (e.g. impoundment, flow velocity reduction, hydropeaking, water abstraction, flow velocity increase)	no	no	no	for some sites available

**Biological data**

**biological data origin:** general compilation  
specify method: literature review of several sampling projects  
organism group addressed: terrestrial invertebrates (Carabidae)

**Sample specifications/sample resolution****terrestrial invertebrates:****sample information:**

covered timeframe: 1972 - 2012  
historical data: no  
season: spring, summer, autumn  
temporal resolution/frequency of sampling: differs between projects  
time series data: yes  
comments: Nine sites with time series data available.

**taxonomic resolution:**

level: species  
percentage of species level data: 100  
comments: Carabid species

**taxonomic coding:**

taxalist according to: Fauna Europaea  
reference(s): Audisio et al. 2015. Fauna Europaea: Coleoptera 2 (excl. series Elateriformia, Scarabaeiformia, Staphyliniformia and superfamily Curculionoidea). Biodiversity Data Journal 3: e4750. doi: 10.3897/BDJ.3.e4750  
coding system: species name, author, year  
example: *Bembidion prasinum* (Duftschmid, 1812)

**sample specifications:**

type: quantitative (abundance data), semi-quantitative, presence/absence  
replicate samples: no  
number of samples: 352  
specification of method(s) used for sampling and sorting:

Information in most cases not available.

sample type (e.g. habitat specific samples, composite samples etc.):

Differs between datasets: pitfall traps and/or hand samplings. Information in most cases not available.

specific sample location (e.g. littoral, profundal, transect, shoreline, hyporheic zone, etc.):

Riparian and/or floodplain areas.

## Other specifications

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

no data available

### availability of photos:

no

### availability of maps:

no

### quality control procedures:

Were any quality control procedures applied to your dataset?

no

## Acknowledgements

The literature project was part of the BioFresh project (Biodiversity of Freshwater Ecosystems: Status, Trends, Pressures, and Conservation Priorities), funded by the European Union under the 7th Framework Programme, work package 6 (Environment including Climate Change), Contract No. 226874. We thank Aaike De Wever for data processing.

## References

Audisio P., Alonso Zarazaga M., Slipinski A., Nilsson A., Jelínek J., Taglianti A., Turco F., Otero C., Canepari C., Kral D., Liberti G., Sama G., Nardi G., Löbl I., Horak J., Kolibac J., Háva J., Sapiejewski M., Jäch M., Bologna M., Biondi M., Nikitsky N., Mazzoldi P., Zahradnik P., Wegrzynowicz P., Constantin R., Gerstmeier R., Zhantiev R., Fattorini S., Tomaszewska W., Rücker W., Vazquez-Albalade X., Cassola F., Angelini F., Johnson C., Schawaller W., Regalin R., Baviera C., Rocchi S., Cianferoni F., Beenen R., Schmitt M., Sassi D., Kippenberg H., Zampetti M., Trizzino M., Chiari S., Carpaneto G., Sabatelli S., de Jong Y., 2015. Fauna Europaea: Coleoptera 2 (excl. series Elateriformia, Scarabaeiformia, Staphyliniformia and superfamily Curculionoidea). *Biodiversity Data Journal* 3: e4750.

<http://dx.doi.org/10.3897/BDJ.3.e4750>

BioFresh (publisher), Dr. Kathrin Januschke (provider), 2015. European riparian ground beetles. Published on <http://data.freshwaterbiodiversity.eu> <http://dx.doi.org/10.13148/bfcf>