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Macroinvertebrate data of the Belgian River Meuse from 1998 to 2011

Adrien Latli¹ , Frédéric Chérot² & Patrick Kestemont¹

¹ University of Namur, Namur, Belgium; corresponding author: adrien.latli@unamur.be

² SPW Wallonie, Namur, Belgium

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Keywords

Meuse, macroinvertebrates, river

Short description of the dataset/summary

Between 1998 and 2011 the SPW-DEMNA sampled macroinvertebrates in 3 reaches of the River Meuse (Hastière, Andenne, Lixhe) with a protocol adapted for deep rivers.

Environmental and fish data for the Meuse are also available as separate datasets.

General information

dataset entry ID: SF_7

name of the dataset:

full name of the dataset: Macroinvertebrate data of the Belgian River Meuse from 1998 to 2011

dataset short name: Meuse River macroinvertebrate dataset

type of dataset:

species distribution data

data type: point data/observation data

science keywords according to [GCMD](#):

topic: Terrestrial Hydrosphere

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

Biota

INSPIRE keywords according to [GEMET](#):

Environmental monitoring facilities, Species distribution

own science keywords: Macroinvertebrate, River Meuse, invasive, long term monitoring

related project: Planctonic resources decrease, and habitat alterations, which consequences for the functioning of communities? University of Namur

funding: We would like to thank the SPW (Belgium) for providing the data corresponding to their Meuse River monitoring programs. This work was funded by the University of Namur.

Technical and administrative specifications

data format: Excel
operating system: Win 7
data language: English
current access level: web (public)
currently available through [GBIF](#): no
exchange planned: no
data in data repository: no

Do you plan to publish the data on the Freshwater Biodiversity Data Portal: already published through the Freshwater Biodiversity Data Portal

update level: completed
documentation:
type: scientific paper
language: English

contact details:

metadata contact person:

first, last name: Adrien Latli
phone: 081 72 42 87
email: adrien.latli@unamur.be
institution: University of Namur - URBE
address: Rue Bruxelles, 61
postal code, city: 5000 Namur
country: Belgium

technical contact person:

first, last name: Adrien Latli
phone: 081 72 42 87
email: adrien.latli@unamur.be

scientific contact person:

first, last name: Patrick Kestemont
phone: +32 (0)81 72 43 63
email: patrick.kestemonti@unamur.be

Intellectual property rights and citation

dataset creator (data compiler):

contact name: Latli Adrien
contact email: adrien.latli@unamur.be; patrick.kestemont@unamur.be
contact institution: University of Namur

data contributors to/owners of this dataset:

multiple
number: 2

data contributor/owner 1:

contact name: Chérot Frédéric

contact email: frederic.cherot@spw.wallonie.be; dgarne@spw.wallonie.be
 contact institute: SPW Wallonie
 criteria for using this part of the dataset: The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

data contributor/owner 2:

contact name: Adrien Latli
 contact email: adrien.latli@unamur.be; patrick.kestemont@unamur.be
 contact institute: University of Namur
 criteria for using this part of the dataset: The dataset is publicly available (data portal, data archive) and can be used without restrictions, but must be acknowledged and cited correctly.

citation of this dataset:

author(s): Latli, A. & Chérot, F.
 title and journal (name, number, pages): Macroinvertebrate data of the Belgian River Meuse from 1998 to 2011.
 year: 2017

citation of the metadata:

author(s): Latli A., Chérot F. & Kestemont P.
 title and journal (name, number, pages): Macroinvertebrate data of the Belgian River Meuse from 1998 to 2011. Freshwater Metadata Journal 34: 1-5
 year: 2018
 doi: <https://doi.org/10.15504/fmj.2018.34>

dataset related references:

reference 1:
 author(s): Latli, A., Descy, J.-P., Mondy, C., Floury, M., Viroux, L., Otjacques, W., Marescaux, J., Depiereux, E., Ovidio, M., Usseglio-Polatera, P. & Kestemont, P.
 title: Long-term trends in trait structure of riverine communities facing predation risk increase and trophic resource decline. Ecological Applications 27(8): 2458-2474.
 year: 2017
 doi: <https://doi.org/10.1002/eap.1621>

General data specifications

regional coverage of the dataset:

spatial extent of the dataset: regional
 continents: Europe

spatial extent (bounding coordinates):

southernmost latitude [°]: 50°9'
 northernmost latitude [°]: 50°45'
 westernmost longitude [°]: 4°49'
 easternmost longitude [°]: 5°41'
 minimum altitude: 49 metres
 maximum altitude: 100 metres
 countries: Europe: Belgium

world climatic regions according to Köppen:

Group C: temperate/mesothermal climates

freshwater ecoregions of the world (FEOW) according to [WWF](#):

Europe: Central & Western Europe

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

Western Plains (ER13)

ecosystem type:

rivers

covered timeframe:

1998 - 2011

Site specifications

coordinate system/grid data:

latitude/longitude, format: DMS

projected, UTM

datum (e.g. WGS84):

WGS84

grid data available:

no

site coding available:

no

number of sites:

<100

exact number of sites:

3

Biological data

biological data origin:

from sampling,

European survey program

organism group addressed:

macro-invertebrates (Mollusca, Crayfish, Ephemeroptera, Odonata, Plecoptera, Coleoptera, Trichoptera, Chironomidae)

Sample resolution

macro-invertebrates:

taxonomic resolution:

level:

family

taxonomic coding:

taxalist according to:

AQEM/Star

reference(s):

Schmidt-Kloiber, A., Graf, W., Lorenz, A. & Moog, O. (2006): The AQEM/STAR taxalist - a pan-European macro-invertebrate ecological database and taxa inventory. *Hydrobiologia* 566: 325-342.

coding system:

no coding used

sample specifications:

specification of method(s) used for sampling and sorting:

Between 1998 and 2011 in 3 reaches of the River Meuse (Hastière, Andenne, Lixhe) a protocol adapted for deep rivers and derived from the IBGA (1997) was used. At these sites, during each sampling campaign, stones near the banks, aquatic vegetation and littoral substrates were sampled with a hand net (500 µm mesh size). The deeper part of the main channel was sampled from a boat using a triangular dredge and three artificial substrates were deployed for one month. Taxa were identified at the family level and abundances were determined with a semi-quantitative estimation ("1" = 1 individual, "2" = 2, "3" = 3, "4" more than 3 and less than 10, "5" = more than 10 and less than 100, "6" > 99).

reference(s):

IBGA: "Global Biological Index Adapted to large freshwater rivers", Gay Environnement & Agence de l'Eau Rhône-Méditerranée-Corse, 1997.

Other specifications

GIS layers, shape files 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?

yes

quality control protocols and comments:

We performed a number of systematic checks using the OpenRefine software.

Acknowledgements

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References

Latli, A., Descy, J.-P., Mondy, C., Floury, M., Viroux, L., Otjacques, W., Marescaux, J., Depiereux, E., Ovidio, M., Usseglio-Polatera, P. & Kestemont, P., 2017. Long-term trends in trait-structure of riverine communities facing predation risk increase and trophic resource decline. *Ecological Applications* 27(8): 2458-2474. 2017
<https://doi.org/10.1002/eap.1621>