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Freshwater Metadata Journal
DOI 10.15504/fmj.2018.33
ISSN 2312-6604
Published online: 2018-09-28



*Published by University of Natural Resources and
Life Sciences, Institute of Hydrobiology and
Aquatic Ecosystem Management, BOKU - Vienna*

Fish data of the Belgian River Meuse from 1989 to 2012

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Please cite this paper as follows: Latli, A., Ovidio, M. & Kestemont, P., 2018. Fish data of the Belgian River Meuse from 1989 to 2012. *Freshwater Metadata Journal* 33: 1-5. <https://doi.org/10.15504/fmj.2018.33>

Received: 2018-06-05 / Published: 2018-09-28

Keywords

Fish, Meuse, river, fish pass, electrofishing

Short description of the dataset/summary

During 23 years, 3 institutions sampled fish in the Belgian part of the River Meuse with two distinct methodologies.

Data were provided by the survey of fish passages in fish ladders at Tailfer (upstream Namur) and Lixhe (downstream Liège) over the 1989-2012 period (Matondo & Ovidio 2016). Fish were collected daily in a trap placed in the upper pool of the ladder when the migration peaks occurred, and twice a week outside the major migration period. All the fish species were identified and species abundances were estimated without taking into account the juveniles and the young-of-the-year. Annual fish abundances were expressed as monthly averages.

Data from Hastière, Andenne and Visé were provided by electrofishing from a boat along the banks in 1994, 2007, 2008, 2009 and 2010. Abundances were expressed as number of individuals per 100m² of river sampled.

Environmental and invertebrate data of the River Meuse are also available as separate datasets.

General information

dataset entry ID: SF_6

name of the dataset:

full name of the dataset: Fish data of the Belgian River Meuse from 1989 to 2012

dataset short name: Meuse River fish dataset

type of dataset:

species distribution data

data type: point data/observation data

science keywords according to [GCMD](#):

topic: Biosphere, Terrestrial Hydrosphere

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

Biota

INSPIRE keywords according to [GEMET](#):

own science keywords: Environmental monitoring facilities, Habitats and biotopes
related project: Fish pass survey, long term monitoring, roach decrease
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 and Liege.

Technical and administrative specifications

data format: Excel
operating system: Win 7
data language: English
current access level: internal
currently available through [GBIF](#): yes
exchange planned: yes
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: +32 (0)81 72 42 87
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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
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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
 contact institution: patrick.kestemont@unamur.be

data contributors to/owners of this dataset:

multiple
 number: 3

data contributor/owner 1:

contact name: Latli Adrien
 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 needs to be requested from dataset creator with specific conditions of use.

data contributor/owner 2:

contact name: Ovidio Michael
 contact email: M.Ovidio@ulg.ac.be
 contact institute: University Liege

criteria for using this part of the dataset:

The dataset needs to be requested from dataset creator with specific conditions of use.

data contributor/owner 3:

contact name: SPW-Direction de la chasse et la pêche
 contact email: DNF.DGRNE@mrw.wallonie.be
 contact institute: SPW-Direction de la chasse et la pêche

criteria for using this part of the dataset:

The dataset needs to be requested from dataset creator with specific conditions of use.

citation of this dataset:

author(s): Latli, A., Ovidio, M., & Kestemont, P.

title and journal (name, number, pages):

Fish abundance evolution in the Belgian River Meuse from 1989 to 2012.

year: 2017

doi: <https://doi.org/10.15468/vw7apf>

citation of the metadata:

author(s): Latli A., Ovidio M. & Kestemont P.

title and journal (name, number, pages):

Fish data of the Belgian River Meuse from 1989 to 2012. *Freshwater Metadata Journal* 33: 1-5

year: 2018

doi: <https://doi.org/10.15504/fmj.2018.33>

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>

reference 2:

author(s): Matondo, B.N. & Ovidio, M.
 title: Dynamics of upstream movements of the European eel *Anguilla anguilla* in an inland area of the River Meuse over the last 20 years. *Environmental Biology of*

year: Fishes 99 (2-3): 223-235.
2016

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: 1989 - 2012

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,
Saumon Meuse and FEP-Meuse

organism group addressed: fish

Sample resolution

fish:

taxonomic resolution:

level: species

percentage of species level data: 100

taxonomic coding:

taxalist according to:	FishBase
reference(s):	The information in the species table has been derived from more than 3,500 references such as the FAO Species Catalogues (e.g. Nielsen et al. 1999), the Indo-Pacific Fishes Series (e.g. Randall 2000), other taxonomic revisions, (e.g. Pietsch and Grobecker 1987) as well as faunal checklists such as Daget et al. (1984, 1990), Shao et al. (1992). Kottelat et al. (1993), Smith and Heemstra (1995), Myers (1999) and Smith-Vaniz et al. (1999).
coding system:	no coding used

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

The authors acknowledge the Belgian Science Policy (Belspo) for funding the SAFRED project (Saving freshwater biodiversity research data - 2015-2018) that allowed processing and publishing the data.

References

Latli Adrien, Descy Jean-Pierre, Mondy Cédric, Floury Mathieu, Viroux Laurent, Otjacques William, Marescaux Jonathan, Depiereux Eric, Ovidio Michael, Usseglio-Polatera Philippe & Kestemont Patrick, 2017. Long-term trends in trait-structure of riverine communities facing predation risk increase and trophic resource decline. *Ecological Applications* 27(8): 2458-2474. <https://doi.org/10.1002/eap.1621>

Matondo, B.N. & Ovidio, M., 2016. Dynamics of upstream movements of the European eel *Anguilla anguilla* in an inland area of the River Meuse over the last 20 years. *Environmental Biology of Fishes* 99 (2-3): 223-235. <https://doi.org/10.1007/s10641-016-0469-x>