# Fish data of the Belgian River Meuse from 1989 to 2012

*Adrien Latli, Michael Ovidio & Patrick Kestemont*

Freshwater Metadata Journal

# Fish data of the Belgian River Meuse from 1989 to 2012

*Adrien Latli [1], Mïchael Ovidio [2] & Patrick Kestemont [1]*

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

## 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 distincts 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 youngs-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 <u>ISO 19115</u>:**
Biota
**INSPIRE keywords according to <u>GEMET</u>:**

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

## Technical and administrative specifications

**data format:**   Excel
**operating system:**   Win 7
**data language:**   English
**current access level:**   internal
currently available through <u>GBIF</u>:   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
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
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

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

year:    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

## 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