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Physicochemical data of the Belgian River Meuse from 1972 to 2010

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Keywords

Meuse, river, physicochemical

Short description of the dataset/summary

Three sites, covering the Begium Meuse River had been homogeneously monitored for a longest period of time (1972-2010). Dissolved oxygen, water temperature, suspended matter, nitrates, ammonium, dissolved reactive phosphorus, chlorophyll-a and water discharge were measured by public institutions. For each site and each parameter, annual average values were calculated (mean, min and max).

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

General information

dataset entry ID:	SF_3
name of the dataset:	
full name of the dataset:	Physicochemical data of the Belgian River Meuse from 1972 to 2010
dataset short name:	Meuse River physicochemical dataset
type of dataset:	environmental characteristics database
data type:	point data/observation data
science keywords according to GCMD:	
topic:	Climate Indicators, Terrestrial Hydrosphere
ISO topic category according to ISO 19115:	
	Environment

INSPIRE keywords according to [GEMET](#):

own science keywords: Environmental monitoring facilities, Habitats and biotopes
physico-chemical, long-term measurements, River Meuse, global warming,
chlorophyll-a 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.

Technical and administrative specifications

data format: Excel

operating system: Win 7

data language: English

current access level: web (public)

web address: <http://www.riwa-maas.org/nc/en/quality-measurements.html>

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, others/specify

others/details: Could be updated in the future by the partners.

documentation:

type: scientific paper

language: English

contact details:

metadata contact person:

first, last name: Adrien Latli

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scientific contact person:

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phone: 081 72 42 87

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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: 3

data contributor/owner 1:

contact name: SPW-DGARNE
 contact email: dgarne@spw.wallonie.be
 contact institute: SPW-DGARNE

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: RIWA
 contact email: vanhoutem@riwa.org
 contact institute: RIWA

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.

other/additional criteria: <http://www.riwa-maas.org/nc/en/quality-measurements.html>

data contributor/owner 3:

contact name: CIM-Meuse
 contact email: secr@meuse-maas.be
 contact institute: CIM-Meuse

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., Service Public de Wallonie - DG03, RIWA-Maas, CIM-Meuse
 title and journal (name, number, pages):
 Physicochemical evolution of the Belgian River Meuse from 1972 to 2010.
 year: 2017
 doi: <https://doi.org/10.13148/evwxv1>

citation of the metadata:

author(s): Latli A., Service Public de Wallonie , Kestemont P., RIWA & CIM-Meuse
 title and journal (name, number, pages):
 Physicochemical data of the Belgian River Meuse from 1972 to 2010. Freshwater Metadata Journal 32: 1-5
 year: 2018
 doi: <https://doi.org/10.15504/fmj.2018.32>

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/cap.1621>

General data specifications

regional coverage of the dataset:

spatial extent of the dataset: regional
continents: Europe

spatial extent (bounding coordinates):

southernmost latitude [°]: 4° 52' 54.7"
northernmost latitude [°]: 5° 34' 40.1"
westernmost longitude [°]: 50° 23' 52.5"
easternmost longitude [°]: 50° 37' 53.9"
minimum altitude: 57 metres
maximum altitude: 82 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: 1972 - 2010

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

Climate and environmental data

climate related data:

available parameters per site:

mean annual temperature January, July

data source: <https://doi.org/10.1002/cap.1621>

mean discharge

data source: <https://doi.org/10.1002/cap.1621>

environmental data:

available parameters per catchment:

catchment size

data source: <https://doi.org/10.1002/cap.1621>

hydrological regime/flow regime

	data source: https://doi.org/10.1002/eap.1621
available parameters per site:	river length data source: https://doi.org/10.1002/eap.1621 distance to source data source: https://doi.org/10.1002/eap.1621 slope data source: https://doi.org/10.1002/eap.1621 altitude data source: https://doi.org/10.1002/eap.1621 discharge data source: https://doi.org/10.1002/eap.1621
comments:	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. <i>Ecological Applications</i> 27(8): 2458-2474.
physico-chemical data:	ortho P, nitrate, ammonium, water temperature, chlorophyll, suspended solids
	availability of physico-chemical data, if there is more than one sample per site: per sample
stressors influencing the sites:	no stressor data available

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. <https://doi.org/10.1002/eap.1621>