



Metadata

BIOMAN-Belgium, biodiversity in shallow lakes in Belgium and the Netherlands

SUPPORTED BY



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General information

name of the dataset:

full name of the dataset: *BIOMAN-Belgium, biodiversity in shallow lakes in Belgium and the Netherlands*

dataset short name: *BIOMAN-Belgium*

type of dataset ([more information](#)): *species (taxonomic group) per site database including environmental information*

data type: *point data/observation data*

short description of the dataset/summary:

The BIOMAN dataset comprises local environmental data and community data of different organism groups (bacterioplankton, zooplankton, ciliates, phytoplankton, macro-invertebrates, fish, protists and aquatic vegetation) from 98 shallow lakes covering three geographic regions in Europe sampled in 2000-2001. The database BIOMAN-Belgium is a subset of the overall BIOMAN dataset and includes data from 39 shallow lakes located in Belgium and the Netherlands.

keywords according to [GCMD](#):

topic: *Biosphere, Biological Classification, Terrestrial Hydrosphere*

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

Biota, Environment, Inland Waters

INSPIRE keywords according to [GEMET](#):

own science keywords: *shallow lakes, Belgium, the Netherlands, plankton, fish, macro-invertebrates, macrophytes*

related project: *BIOMAN*

funding: *The dataset generation was funded by the EU-project BIOMAN (EVK2-CT-1999-00046).*

Technical and administrative specifications

data format: *Excel*
operating system: *all Windows systems*
data language: *English*
current access level: *web (public)*
web address: *https://www.gbif.org/dataset/9575ab07-e816-4cd6-aa99-483343a825e6*
currently available through [GBIF](#): *yes*
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: *Luc De Meester*
email: *luc.demeester@kuleuven.be*
institution: *KU Leuven*
address: *Charles Deberiotstraat 32*
postal code, city: *3000 Leuven*
country: *Belgium*

technical contact person:

first, last name: *Luc De Meester*
email: *luc.demeester@kuleuven.be*

scientific contact person:

first, last name: *Luc De Meester*
email: *luc.demeester@kuleuven.be*

Intellectual property rights and citation

dataset publisher (if already published): *Pieter Lemmens*

dataset creator (data compiler):

contact name: *Pieter Lemmens*
contact email: *pieter.lemmens@kuleuven.be*
contact institution: *KU Leuven*

data contributors to/owners of this dataset:

number: *multiple*
6

provider 1:

provider institute: *Centre for Limnology, Netherlands Institute of Ecology (NIOO-KNAW)*
contact name: *Steven Declerck*
contact email: *s.declerck@nioo.knaw.nl*
criteria for using the data in a publication/scientific analysis:
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.

provider 2:

provider institute: *KU Leuven*
contact name: *Wouter Rommens*
contact email: *luc.demeester@kuleuven.be*
criteria for using the data in a publication/scientific analysis:
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.

provider 3:

provider institute: *KU Leuven*
contact name: *Koenraad Muylaert*
contact email: *koenraad.muylaert@kuleuven.be*
criteria for using the data in a publication/scientific analysis:
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.

provider 4:

provider institute: *KU Leuven*
contact name: *Jochen Vandekerckhove*
contact email: *luc.demeester@kuleuven.be*
criteria for using the data in a publication/scientific analysis:
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.

provider 5:

provider institute: *Ghent University*
contact name: *Katleen Van der Gucht*
contact email: *luc.demeester@kuleuven.be*
criteria for using the data in a publication/scientific analysis:

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.

provider 6:

provider institute: Centre for Limnology, Netherlands Institute of Ecology (NIOO-KNAW)
contact name: Gabriel Zwart
contact email: zwart@cl.nioo.knaw.nl
criteria for using the data in a publication/scientific analysis:

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.

citation of this dataset:

author(s): Lemmens, P., Vandekerckhove, J., Muylaert, K., Van der Gucht, K., Zwart, G., Rommens, W., Van Wichelen, J., Geenens, V., Vyverman, W., Brendonck, L., Martens, K., Declerck, S.A.J. & De Meester, L.
title and journal (name, number, pages): *bioman_belgium, BioFresh. Sampling event dataset.*
year: 2018
version (if applicable): 1.3
doi (if applicable): <https://doi.org/10.15468/duzvog>

citation of the metadata:

author(s): Lemmens, P., De Wever, A., Vandekerckhove, J., Muylaert, K., Van der Gucht, K., Zwart, G., Rommens, W., Van Wichelen, J., Geenens, V., Vyverman, W., Brendonck, L., Martens, K., Declerck, S.A.J. & De Meester, L.
title and journal (name, number, pages): *Database on environmental conditions and biodiversity in shallow lakes in Belgium and the Netherlands. Freshwater Metadata Journal 0: 0-0*
year: 0000
doi (if applicable): <https://doi.org/10.15504/fmj.0000.0>

General data specifications

regional coverage of the dataset:

spatial extent of the dataset: *national*
continents: *Europe*
countries: *Europe: Belgium, Netherlands*

Site specifications

coordinate system/grid data:	<i>latitude/longitude, format: DM</i>
datum (e.g. WGS84):	<i>WGS84</i>
grid data available:	<i>no</i>
site coding:	
site coding available:	<i>yes</i>
	<i>alphanumerical</i>
number of digits:	<i>4</i>
example:	<i>GAV, KP</i>
number of sites:	<i><100</i>
exact number of sites:	<i>39</i>

Climate and environmental data

climate related data: *no climate data available*

environmental data:

no environmental data per catchment available

no environmental data per site available

comments:

Data on land use around each lake was estimated as percentage coverage as described in:

Declerck, S., Vandekerckhove, J., Johansson, L., Muylaert, K., Conde-Porcuna, J. M., Van der Gucht, K., Pérez-Martínez, C., Lauridsen, T., Schwenk, K., Zwart, G., Rommens, W., López-Ramos, J., Jeppesen, E., Vyverman, W., Brendonck L. & De Meester, L. (2005): Multi-group biodiversity in shallow lakes along gradients of phosphorus and water plant cover. Ecology 86(7): 1905-1915.

physico-chemical data:

Array, Array, Array, Array, Array, Array, Array, Array, Array, Array

other physico-chemical parameters *silica concentration*

availability of physico-chemical data, if there is more than one sample per site:

per sample

stressors influencing the sites:

no stressor data available

reference sites available:

no

Biological data

biological data origin:

specify project:

from sampling,

specify method:

BIOMAN

organism group addressed:

fish, macro-invertebrates, zooplankton, phytoplankton, macrophytes, other group(s): bacterioplankton, ciliates, protists

Sample specifications/sample resolution

fish:

sample information:

covered timeframe:

year from - to: 2000 - 2001

historical data: no

palaeo data: no

season: autumn

temporal resolution/frequency of sampling:

either in 2000 or in 2001

time series data: no

comments: *Please refer to Declerck et al. (2005) for more details.*

taxonomic resolution:

comments: *Please refer to Declerck et al. (2005) for more details.*

taxonomic coding:

sample specifications:

replicate samples: no

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

Please refer to Declerck et al. (2005) for more details.

citation: *Declerck, S., Vandekerckhove, J., Johansson, L., Muylaert, K., Conde-Porcuna, J. M., Van der Gucht, K., Pérez-Martínez, C., Lauridsen, T., Schwenk, K., Zwart, G., Rommens, W., López-Ramos, J., Jeppesen, E., Vyverman, W., Brendonck L. & De Meester, L. (2005): Multi-group biodiversity in shallow lakes along gradients of phosphorus and water plant cover. Ecology 86(7): 1905-1915.*

macro-invertebrates:

sample information:

covered timeframe:

year from - to: 2000 - 2001

historical data: no

palaeo data: no

season: summer

temporal resolution/frequency of sampling:

either in 2000 or in 2001

time series data: no

comments: *Please refer to Declerck et al. (2005) for more details.*

taxonomic resolution:

comments: *Please refer to Declerck et al. (2005) for more details.*

taxonomic coding:

sample specifications:

replicate samples: no

number of samples: 39

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

Please refer to Declerck et al. (2005) for more details.

citation: *Declerck, S., Vandekerckhove, J., Johansson, L., Muylaert, K., Conde-Porcuna, J. M., Van der Gucht, K., Pérez-Martínez, C., Lauridsen, T., Schwenk, K., Zwart, G., Rommens, W., López-Ramos, J., Jeppesen, E., Vyverman, W., Brendonck L. & De Meester, L. (2005): Multi-group biodiversity in shallow lakes along gradients of phosphorus and water plant*

cover. Ecology 86(7): 1905-1915.

zooplankton:

sample information:

covered timeframe:

year from - to: 2000 - 2001

historical data: no

palaeo data: no

season: spring, summer, autumn

temporal resolution/frequency of sampling:

monthly either in 2000 or in 2001; samples from different sampling occasions were pooled

time series data: no

comments: Please refer to Declerck et al. (2005) for more details.

taxonomic resolution:

percentage of species level data: 100

comments: Please refer to Declerck et al. (2005) for more details.

taxonomic coding:

sample specifications:

replicate samples: no

number of samples: 39

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

Please refer to Declerck et al. (2005) for more details.

citation: Declerck, S., Vandekerckhove, J., Johansson, L., Muylaert, K., Conde-Porcuna, J. M., Van der Gucht, K., Pérez-Martínez, C., Lauridsen, T., Schwenk, K., Zwart, G., Rommens, W., López-Ramos, J., Jeppesen, E., Vyverman, W., Brendonck L. & De Meester, L. (2005): Multi-group biodiversity in shallow lakes along gradients of phosphorus and water plant cover. *Ecology 86(7): 1905-1915.*

phytoplankton:

sample information:

covered timeframe:

year from - to: 2000 - 2001

historical data: no

season: spring, summer, autumn

temporal resolution/frequency of sampling:

monthly during the growing season (May-October) either in 2000 or 2001; samples from different sampling occasions were pooled

comments: Please refer to Declerck et al. (2005) for more details.

taxonomic resolution:

taxonomic coding:

sample specifications:

replicate samples: no

number of samples: 39

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

Please refer to Declerck et al. (2005) for more details.

citation: Declerck, S., Vandekerckhove, J., Johansson, L., Muylaert, K., Conde-Porcuna, J. M., Van der Gucht, K., Pérez-Martínez, C., Lauridsen, T., Schwenk, K., Zwart, G., Rommens, W., López-Ramos, J., Jeppesen, E., Vyverman, W., Brendonck L. & De Meester, L. (2005): Multi-group

biodiversity in shallow lakes along gradients of phosphorus and water plant cover. Ecology 86(7): 1905-1915.

macrophytes:

sample information:

covered timeframe:
year from - to: 2000 - 2001
historical data: no
palaeo data: no
season: summer
temporal resolution/frequency of sampling:
per year
comments: Please refer to Declerck et al. (2005) for more details.

taxonomic resolution:

percentage of species level data: 100
comments: Please refer to Declerck et al. (2005) for more details.

taxonomic coding:

sample specifications:

replicate samples: no
number of samples: 39
specification of method(s) used for sampling and sorting:
Please refer to Declerck et al. (2005) for more details.
citation: Declerck, S., Vandekerckhove, J., Johansson, L., Muylaert, K., Conde-Porcuna, J. M., Van der Gucht, K., Pérez-Martínez, C., Lauridsen, T., Schwenk, K., Zwart, G., Rommens, W., López-Ramos, J., Jeppesen, E., Vyverman, W., Brendonck L. & De Meester, L. (2005): Multi-group biodiversity in shallow lakes along gradients of phosphorus and water plant cover. *Ecology* 86(7): 1905-1915.

other group(s):

sample information:

covered timeframe:
year from - to: 2000 - 2001
historical data: no
season: spring, summer, autumn
temporal resolution/frequency of sampling:
per year
time series data: no
comments: Please refer to Declerck et al. (2005) for more details.

taxonomic resolution:

other taxonomic levels: protists & bacteria: DGGE, ciliates: species level
comments: Please refer to Declerck et al. (2005) for more details.

taxonomic coding:

sample specifications:

replicate samples: no
specification of method(s) used for sampling and sorting:
Please refer to Declerck et al. (2005) for more details.
citation: Declerck, S., Vandekerckhove, J., Johansson, L., Muylaert, K., Conde-Porcuna, J. M., Van der Gucht, K., Pérez-Martínez, C., Lauridsen, T., Schwenk, K., Zwart, G., Rommens, W., López-Ramos, J., Jeppesen, E., Vyverman, W., Brendonck L. & De Meester, L. (2005): Multi-group

biodiversity in shallow lakes along gradients of phosphorus and water plant cover. Ecology 86(7): 1905-1915.

Other specifications

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:

Species names were checked using the GBIF species list.