



Metadata

Midden-Limburg Fish Ponds Survey

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Visit the Freshwater Metadatabase, http://data.freshwaterbiodiversity.eu/metadb/about_metadata

General information

name of the dataset:

full name of the dataset: *Midden-Limburg Fish Ponds Survey*

dataset short name: *Midden-Limburg Survey*

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 Midden-Limburg pond dataset contains data on local habitat conditions and taxonomic community composition of multiple aquatic organism groups (phytoplankton, zooplankton, aquatic vegetation, macro-invertebrates and fish) from 38 interconnected fish ponds in the fish pond complex Midden-Limburg (Limburg, Belgium). The selection of fish ponds represents five different pond management types.

science keywords according to [GCMD](#):

topic: *Biosphere, Biological Classification, Land Surface, Terrestrial Hydrosphere*

keywords: *fish ponds, occurrences, environmental conditions, pond management, Belgium*

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

Biota, Environment, Inland Waters

Technical and administrative specifications

data format: *Excel*
operating system: *all operating systems*
data language: *English*
current access level: *web (public)*
web address (URL): *http://data.freshwaterbiodiversity.eu/ipt/manage/resource?r=midden-limburg*
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 BioFresh
media for data delivery: *BioFresh IPT (IPT)*
web address: *http://data.freshwaterbiodiversity.eu/ipt/*
update level: *completed*

documentation:

type: *manual*
language: *English*

contact details:

metadata contact person:

first, last name: *Luc De Meester*
email: *luc.demeester@kuleuven.be*
institution: *KU Leuven*
address: *Ch. Deberiotstraat 32*
postal code, city: *3000 Leuven*
province, state: *Vlaams Brabant*
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

(if the dataset is already published):

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: *KU Leuven*
contact name: *Pieter Lemmens*
contact email: *pieter.lemmens@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 2:

provider institute: *INBO*
contact name: *Joachim Mergeay*
contact email: *joachim.mergeay@inbo.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: *Tom De Bie*
contact email: *tom.debie@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: *INBO*
contact name: *Jeroen Van Wichelen*
contact email: *jeroen.vanwichelen@inbo.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: *KU Leuven*
contact name: *Luc De Meester*
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: NIOO
contact name: Steven A.J. 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.

citation of this dataset:

author(s): Lemmens, P., De Wever, A., Mergeay, J., De Bie, T., Ercken, D., Van Wichelen, J., Declerck, S.A.J. & De Meester, L.
title: Biodiversity in interconnected Belgian man-made fish ponds representing different pond management types
year: 2017

citation of the metadata:

author(s): Lemmens P., Mergeay J., Ercken D., De Bie T., Van Wichelen J., Declerck S.A.J. & De Meester L.
title and journal (name, number, pages): Database on local environmental conditions and biodiversity in fish ponds in Midden-Limburg, Belgium. *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:

scale of the dataset: *regional*
continents: *Europe*

spatial extent (bounding coordinates):

southernmost latitude [°]: *51801.47*
northernmost latitude [°]: *52315.24*
westernmost longitude [°]: *505824.47*
easternmost longitude [°]: *505969.98*
countries: *Europe: Belgium*

Site specifications

coordinate system/grid data:	<i>latitude/longitude projected</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>3</i>
example:	<i>BK7, K1</i>
number of sites:	<i><100</i>
exact number of sites:	<i>38</i>

Climate and environmental data

climate related data:	<i>no data available</i>
environmental data:	<i>no parameter data per catchment available</i>
available parameters per site:	<i>management type</i>
	<i>Lemmens et al., 2013</i>
comments:	<i>See Lemmens et al. (2013) or more details on the different pond management types.</i>
physico-chemistry data:	<i>total P, total N, oxygen content, water temperature, pH, conductivity, chlorophyll, Secci disc depth, suspended solids, substrate</i>
other physico-chemical parameters	<i>Percentage of pond surface covered with submerged, floating and emergent vegetation, and pond size.</i>
availability of physico-chemical data, if there is more than one sample per site:	<i>mean values per site</i>
stressors influencing the sites:	
reference sites available:	<i>no</i>
	<i>no stressor data available</i>

Biological data

biological data origin:

from sampling

specify project:

TWOL research project (LIM/AMINAL/AN/LIM/2004/10)

organism group addressed:

fish, macro-invertebrates (Mollusca, Ephemeroptera, Trichoptera, Chironomidae), zooplankton (Cladocera), phytoplankton, macrophytes

Sample specifications/sample resolution

fish:

sample information:

covered timeframe:
year from - to: 2006 - 2007
historical data: no
palaeo data: no
season: summer
temporal resolution/frequency of sampling:
per year

taxonomic resolution:

taxonomic coding:

taxalist according to: FishBase

sample specifications:

replicate samples: no
comments: *For details see Lemmens P., Declerck S.A.J, Mergeay J., De Bie T., Van Wichelen J. & De Meester L., 2013. How to Maximally Support Local and Regional Biodiversity in Applied Conservation? Insights from Pond Management. PLoS ONE 8(8): e72538. doi:10.1371/journal.pone.0072538*

macro-invertebrates:

sample information:

covered timeframe:
year from - to: 2006 - 2007
historical data: no
palaeo data: no
season: spring, summer
temporal resolution/frequency of sampling:
per year
time series data: no

taxonomic resolution:

comments: *Ephemeroptera, Hemiptera and Mollusca were identified to species level. Determination of Diptera was done up to family level. Other organisms were only sorted to higher taxonomic levels and counted (Acari and Hirudinea to subclass, Trichoptera and Lepidoptera to order).*

taxonomic coding:

taxalist according to: De Pauw N. & Vannevel R. (1991)
citation: De Pauw N. & Vannevel R., 1991. *Macro-invertebraten en waterkwaliteit*. Antwerpen: Stichting Leefmilieu.

sample specifications:

comments: *For details see Lemmens P., Declerck S.A.J, Mergeay J., De Bie T., Van Wichelen J. & De Meester L., 2013. How to Maximally Support Local and Regional Biodiversity in Applied Conservation? Insights from Pond Management. PLoS ONE 8(8): e72538. doi:10.1371/journal.pone.0072538*

zooplankton:

sample information:

covered timeframe:
year from - to: 2006 - 2007
historical data: no

palaeo data: *no*
 season: *summer*
 time series data: *no*

taxonomic resolution:

comments: *Cladocera were identified to species level using Flössner (2000) and counted. Daphnia galeata (Sars) and D. longispina (Müller) were considered as one taxon. Copepoda were divided in two main groups (Cyclopoids and Calanoids) and counted.*

taxonomic coding:

taxalist according to: *Flössner D. (2000)*
 citation: *Flössner D., 2000. Die Haplopoda und Cladocera Mitteleuropas Leiden. Backhuys Publishers.*

sample specifications:

replicate samples: *no*
 comments: *For details see Lemmens P., Declerck S.A.J, Mergeay J., De Bie T., Van Wichelen J. & De Meester L., 2013. How to Maximally Support Local and Regional Biodiversity in Applied Conservation? Insights from Pond Management. PLoS ONE 8(8): e72538. doi:10.1371/journal.pone.0072538*

phytoplankton:

sample information:

covered timeframe:
 year from - to: *2006 - 2007*
 historical data: *no*
 season: *summer*
 time series data: *no*

taxonomic resolution:

taxonomic coding:

taxalist according to: *John et al. (2002)*
 citation: *John D.M., Whitton B.A., Brook A.J., 2002. The freshwater algal flora of the British isles. Cambridge: Cambridge University Press.*

sample specifications:

comments: *For details see Lemmens P., Declerck S.A.J, Mergeay J., De Bie T., Van Wichelen J. & De Meester L., 2013. How to Maximally Support Local and Regional Biodiversity in Applied Conservation? Insights from Pond Management. PLoS ONE 8(8): e72538. doi:10.1371/journal.pone.0072538*

macrophytes:

sample information:

covered timeframe:
 year from - to: *2006 - 2007*
 historical data: *no*
 palaeo data: *no*
 season: *summer*
 temporal resolution/frequency of sampling: *per year*
 time series data: *no*

taxonomic resolution:

taxonomic coding:

taxalist according to: *Lambinon et al. (1983)*
 citation: *Lambinon J., De Langhe J.-E. , Delvosalle L., Duvigneaud J., 1983. Flora*

van België, het Groothertogdom Luxemburg, Noord-Frankrijk en de aangrenzende gebieden (Pteridofyten en Spermatofyten). Een uitgave van het Patrimonium van de Nationale Plantentuin van België.

sample specifications:

comments:

For details see Lemmens P., Declerck S.A.J, Mergeay J., De Bie T., Van Wichelen J. & De Meester L., 2013. How to Maximally Support Local and Regional Biodiversity in Applied Conservation? Insights from Pond Management. PLoS ONE 8(8): e72538. doi:10.1371/journal.pone.0072538

Other specifications

GIS layers, shapes 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:

Species names were checked using the GBIF species list. In addition, the quality of data has been checked with the phwhip validator.