



# Metadata

## De Maten fish ponds

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### General information

**name of the dataset:**

full name of the dataset: *De Maten fish ponds*

dataset short name: *De Maten*

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

specify: *ponds, occurrences, environment, Belgium*

data type: *point data/observation data*

short description of the dataset/summary:

*The De Maten pond dataset contains data on local pond conditions and taxonomic community composition of phytoplankton, zooplankton, macro-invertebrates and fish from 34 interconnected fish ponds in the "De Maten" nature reserve (Limburg, Belgium).*

**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](#):**

*Habitats and biotopes*

**own science keywords:** *fish ponds, phytoplankton, zooplankton, macro-invertebrates, fish*

**funding:** *National Fund of Scientific Research, Flanders, grant G.0358.01*

## Technical and administrative specifications

**data format:** *Excel*  
**operating system:** *all Windows systems*  
**data language:** *English*  
**current access level:** *internal*  
currently available through [GBIF](#): *no*  
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: *Luc De Meester*  
email: *luc.demeester@kuleuven.be*  
institution: *KU Leuven*  
address: *Ch. 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

(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*  
*5*

### 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: *University of Guelph*  
contact name: *Karl Cottenie*  
contact email: *cottenie@uoguelph.ca*  
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.*

comments: *This person was working at KU Leuven, Laboratory of Aquatic Ecology, Evolution and Conservation at time of data collection.*

### provider 3:

provider institute: *INBO*  
contact name: *Frank Van de Meutter*  
contact email: *frank.vandemeutter@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.*

comments: *This person was working at KU Leuven, Laboratory of Aquatic Ecology, Evolution and Conservation at time of data collection.*

### provider 4:

provider institute: *Natuurpunt*  
contact name: *Pieter Vanormelingen*  
contact email: *pieter.vanormelingen@natuurpunt.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.*

comments: *This person was working at Ghent University, Protistology and Aquatic*

*Ecology Evolution and Conservation at time of data collection.*

**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.*

**citation of this dataset:**

author(s): *Lemmens, P., Cottenie, K., Van de Meutter, F., Vanormelingen, P. & De Meester, L.*

title and journal (name, number, pages):

*Biodiversity in interconnected fish ponds in "De Maten" nature reserve, Belgium*

year: *2018*

doi (if applicable): *<https://doi.org/10.15468/tjbpz7>*

**citation of the metadata:**

author(s): *Lemmens P., Cottenie K., Van de Meutter F., Vanormelingen P. & De Meester L.*

title and journal (name, number, pages):

*Database of interconnected fish ponds in De Maten Nature Reserve, 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:**

spatial extent of the dataset: *regional*  
continents: *Europe*

### **spatial extent (bounding coordinates):**

southernmost latitude [°]: *49.4969821*  
northernmost latitude [°]: *51.5516667*  
westernmost longitude [°]: *2.3889137*  
easternmost longitude [°]: *6.408097*  
countries: *Europe: Belgium*

## Site specifications

<b>coordinate system/grid data:</b>	<i>latitude/longitude projected</i>
datum (e.g. WGS84):	<i>WGS84</i>
grid data available:	<i>no</i>
<b>site coding:</b>	
site coding available:	<i>yes numerical</i>
number of digits:	<i>2</i>
example:	<i>10</i>
<b>number of sites:</b>	<i>&lt;100</i>
exact number of sites:	<i>34</i>

## Climate and environmental data

**climate related data:** *no climate data available*

**environmental data:** *no environmental data per catchment available*

available parameters per site: *information on riparian vegetation (incl. information on modification)  
visual inspection*

available parameters per site: *mean depth  
as determined during sampling*

comments: *Additionally: coverage with submerged aquatic vegetation.*

**physico-chemical data:** *Array, Array, Array, Array, Array, Array, Array*

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

*mean values per site*

**stressors influencing the sites:** *no stressor data available*

## **Biological data**

**biological data origin:** *from sampling,*  
specify project: *PhD research*  
specify method:  
organism group addressed: *fish, macro-invertebrates, zooplankton, phytoplankton*



## Sample specifications/sample resolution

### fish:

#### sample information:

covered timeframe:  
 year from - to: 1996 - 2002  
 historical data: no  
 palaeo data: no  
 season: summer  
 temporal resolution/frequency of sampling:  
 per year  
 time series data: no

#### taxonomic resolution:

percentage of species level data: 100

#### taxonomic coding:

taxalist according to: FishBase  
 citation: Froese, R. & Pauly, D. Editors. 2018. FishBase. World Wide Web electronic publication. www.fishbase.org, version (06/2018).

#### sample specifications:

replicate samples: no  
 specification of method(s) used for sampling and sorting:  
 For details see Cottenie et al. (2003) and Van de Meutter et al. (2007).  
 citation: Cottenie, K., Michels, E., Nuytten, N. & De Meester, L., 2003. Zooplankton metacommunity structure: regional vs. local processes in highly interconnected ponds. *Ecology* 84: 991-1000.  
 Van de Meutter F., De Meester, L. & Stoks, R., 2007. Metacommunity structure of pond macroinvertebrates: effects of dispersal mode and generation time. *Ecology* 88: 1687-1695.

### macro-invertebrates:

#### sample information:

covered timeframe:  
 year from - to: 2001 - 2003  
 historical data: no  
 palaeo data: no  
 season: spring, summer, autumn  
 temporal resolution/frequency of sampling:  
 per year  
 time series data: no

#### taxonomic resolution:

percentage of species level data: 90

#### 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:

replicate samples: no  
 specification of method(s) used for sampling and sorting:  
 For details see Van de Meutter et al. (2007).  
 citation: Van de Meutter, F., De Meester, L. & Stoks, R., 2007. Metacommunity structure of pond macroinvertebrates: effects of dispersal mode and

*generation time. Ecology 88: 1687-1695.*

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zooplankton:

**sample information:**

covered timeframe:  
year from - to: 1996 - 1998  
historical data: no  
palaeo data: no  
season: summer  
temporal resolution/frequency of sampling:  
per year  
time series data: no

**taxonomic resolution:**

percentage of species level data: 100

**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  
specification of method(s) used for sampling and sorting:  
For details see Cottenie et al. (2003).  
citation: Cottenie, K., Michels, E., Nuytten, N. & De Meester, L., 2003. *Zooplankton metacommunity structure: regional vs. local processes in highly interconnected ponds. Ecology 84: 991-1000.*

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phytoplankton:

**sample information:**

covered timeframe:  
year from - to: 1998 - 1998  
historical data: no  
season: summer  
temporal resolution/frequency of sampling:  
per year  
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:**

replicate samples: no  
specification of method(s) used for sampling and sorting:  
For details see Vanormelingen et al. (2008).  
citation: Vanormelingen, P., Cottenie, K., Michels, E., Muylaert, K., Vyverman, W. & De Meester, L., 2008. *The relative importance of dispersal and local processes in structuring phytoplankton communities in a set of highly interconnected ponds. Freshwater Biology 53: 2170-2183.*

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## 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:

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