Database of the PONDSCAPE project
(Towards a sustainable management of pond diversity at the landscape level)

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Keywords
farmland ponds, environmental conditions, occurrences, Belgium, Luxembourg

Short description of the dataset/summary
The database of the PONDSCAPE project (Towards a sustainable management of pond diversity at the landscape level) comprises taxon occurrence data of eight different organism groups (bacteria, phytoplankton, diatoms, cladoceran, macro-invertebrates, macrophytes, amphibians and fish) and data on physical, chemical and morphometric variables of 125 farmland ponds covering five biogeographic regions in Belgium and Luxembourg.
General information

dataset entry ID: SF_9
name of the dataset: Towards a sustainable management of pond diversity at the landscape level
full name of the dataset: Pondscape
dataset short name: Pondscape
type of dataset: species (taxonomic group) per site database including environmental information
data type: point data/observation data

science keywords according to GCMD:
topic: Agriculture, Biosphere, Biological Classification, Land Surface, Terrestrial Hydrosphere

ISO topic category according to ISO 19115:
Farming, Biota, Environment, Inland Waters

INSPIRE keywords according to GEMET:
own own science keywords: farmland ponds, occurrences, environmental conditions, Belgium, Luxembourg
related project: PONDSCAPE
funding: Belspo research project SD/BD/02A

Technical and administrative specifications

data format: Excel
operating system: all Windows systems
data language: English
current access level: internal
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: yes
update level: completed
documentation:
type: scientific paper
language: English

contact details:
metadata contact person:
first, last name: Koen Martens
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Intellectual property rights and citation

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
  data contributor/owner 1:
    contact name: Koen Martens
    contact email: koen.martens@naturalsciences.be
    contact institute: RBINS
    criteria for using this part of the dataset:
      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.
  data contributor/owner 2:
    contact name: Wim Vijverman
    contact email: wim.vyverman@ugent.be
    contact institute: UGent
    criteria for using this part of the dataset:
      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.
  data contributor/owner 3:
    contact name: Patrick Kestemont
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    contact institute: UNamur
    criteria for using this part of the dataset:
      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.
  data contributor/owner 4:
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    criteria for using this part of the dataset:
      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.
  data contributor/owner 5:
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contact institute: Institute for Nature and Forests

criteria for using this part of the dataset:
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.

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criteria for using this part of the dataset:
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.

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contact institute: KU Leuven

criteria for using this part of the dataset:
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.

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contact institute: CRP

criteria for using this part of the dataset:
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contact institute: ULiege

criteria for using this part of the dataset:
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:
title and journal (name, number, pages):
Towards a sustainable management of pond diversity at the landscape level (PONDSCAPE)
year: 2018
doi: https://doi.org/10.15468/zs6sky
citation of the metadata:
author(s): Lemmens P., De Wever A., Bonjean N., Castiaux A., Colson L., De Bie T.,

General data specifications

**regional coverage of the dataset:**
- spatial extent of the dataset: national
- continents: Europe

**spatial extent (bounding coordinates):**
- southernmost latitude [°]: 49.4313
- northernmost latitude [°]: 51.5679
- westernmost longitude [°]: 2.3642
- easternmost longitude [°]: 6.5611
- countries: Europe: Belgium, Luxembourg

**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:**
- lakes/ponds

**covered timeframe:**
- 2008 - 2008

Site specifications

**coordinate system/grid data:**
- datum (e.g. WGS84): WGS84
- grid data available: no

**site coding:**
- site coding available: yes, alphanumerical
- number of digits: 5
- example: ABER3

**number of sites:**
- 100 - 1000
exact number of sites: 125

**Climate and environmental data**

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

**environmental data:**

available parameters per site: maximum depth

data source: as sampled

**physico-chemical data:**

total P, total N, sulphate, chloride, calcium, hardness, alkalinity, oxygen content, water temperature, pH, chlorophyll, Secchi disc depth, suspended solids, sediment/soil parameters

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, PONDSCAPE

organism group addressed: amphibians, fish, macro-invertebrates (Mollusca, Coleoptera), zooplankton (Cladocera), phytoplankton, (benthic) diatoms, macrophytes, other group(s): bacterioplankton

**Sample specifications/sample resolution**

**amphibians:**

**sample information:**

covered timeframe: 2008 - 2008

historical data: no

season: summer

temporal resolution/frequency of sampling: per year

time series data: no

taxonomic resolution:

level: species

percentage of species level data: 100

taxonomic coding:

taxalist according to: see De Bie et al. (2012)


**sample specifications:**

type: semi-quantitative
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Replicate samples: no

**Fish**

**Sample Information:**
- Covered timeframe: 2008 - 2008
- Historical data: no
- Palaeo data: no
- Season: summer
- Temporal resolution/frequency of sampling: per year
- Time series data: no

**Taxonomic Resolution:**
- Level: species
- Percentage of species level data: 100

**Taxonomic Coding:**
- Taxalist according to: see De Bie et al. (2012)
- Reference(s):

**Sample Specifications:**
- Type: semi-quantitative
- Replicate samples: no

**Macro-Invertebrates**

**Sample Information:**
- Covered timeframe: 2008 - 2008
- Historical data: no
- Palaeo data: no
- Season: summer
- Temporal resolution/frequency of sampling: per year
- Time series data: no

**Taxonomic Resolution:**
- Level: family, genus, species
- Percentage of species level data: 70

**Taxonomic Coding:**
- Taxalist according to: see De Bie et al. (2012)
- Reference(s):

**Sample Specifications:**
- Type: semi-quantitative
- Replicate samples: no

**Zooplankton**

**Sample Information:**
- Covered timeframe: 2008 - 2008
- Historical data: no
- Palaeo data: no

Freshwater Metadata Journal 31: 1-10
season: summer
temporal resolution/frequency of sampling: per year
time series data: no
taxonomic resolution:
  level: species
  percentage of species level data: 100
taxonomic coding:
  taxalist according to: see De Bie et al. (2012)
  reference(s):

sample specifications:
  type: semi-quantitative
  replicate samples: no

phytoplankton:
sample information:
  covered timeframe: 2008 - 2008
  historical data: no
  season: summer
  temporal resolution/frequency of sampling: per year
  time series data: no
taxonomic resolution:
  level: genus
taxonomic coding:
  taxalist according to: see De Bie et al. (2012)
  reference(s):

sample specifications:
  type: semi-quantitative
  replicate samples: no

(benthic) diatoms:
sample information:
  covered timeframe: 2008 - 2008
  historical data: no
  palaeo data: no
  season: summer
  temporal resolution/frequency of sampling: per year
  time series data: no
taxonomic resolution:
  level: family, genus, species
  percentage of species level data: 10
  taxonomic coding:
  taxalist according to: see De Bie et al. (2012)

sample specifications:
- type: semi-quantitative
- replicate samples: no

macrophytes:

sample information:
- covered timeframe: 2008 - 2008
- historical data: no
- palaeo data: no
- season: summer
- temporal resolution/frequency of sampling: per year
- time series data: no

taxonomic resolution:
- level: species
- percentage of species level data: 100

taxonomic coding:
- taxalist according to: see De Bie et al. 2012

other group(s):

sample information:
- covered timeframe: 2008 - 2008
- historical data: no
- season: summer
- temporal resolution/frequency of sampling: per year
- time series data: no

taxonomic resolution:
- level: other taxonomic levels available
- other taxonomic levels: DGGE bands

taxonomic coding:
- taxalist according to: not relevant (DGGE bands)

sample specifications:
- type: quantitative (abundance data)
- replicate samples: no
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.

Acknowledgements

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References