

# Metadata

## **Fonix**



Exported from the Freshwater Biodiversity Data Portal, http://data.freshwaterbiodiversity.eu Visit the Freshwater Metadatabase, http://data.freshwaterbiodiversity.eu/metadb/about\_metadata

#### **General information**

name of the dataset:

full name of the dataset: Fonix dataset short name: Fonix

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

information

data type: point data/observation data, vector data (shape files)

short description of the dataset/summary:

The database contains the most comprehensive information on

macroscopic benthic invertebrates and one of the most comprehensive

information on fish in rivers and lakes of Hungary.

science keywords according to GCMD:

topic: Biosphere, Terrestrial Hydrosphere

ISO topic category according to <u>ISO 19115</u>:

Biota

### Technical and administrative specifications

data format:

operating system:

data language:

current access level:

internal

currently available through <u>GBIF</u>: *no* exchange planned: *no* 

Do you plan to publish the data on the Freshwater Biodiversity Data Portal:

media for data delivery: others/specify

web address: http://www.bioaquapro.hu

others/details: Please negotiate access with data holders. comments: Fees need to be discussed with data holders.

update level: continuously updated

documentation:

type: internal description

language: Hungarian

contact details:

metadata contact person:

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technical contact person:

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scientific contact person:

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email: szabolcslengyel@yahoo.com

### Intellectual property rights and citation

(if the dataset is already published):

dataset creator (data compiler):

contact name: BioAqua Pro Llc.

contact email: http://www.bioaquapro.hu

data contributors to/owners of this dataset:

single

criteria for using the data in a publication/scientific analysis:

Other/Additional criteria

other/additional criteria: Details of any use of data need to negotiated with data holders (BioAqua

Pro Llc., contact: Béla KISS, Kiss.Bela@bioaquapro.hu).

citation of this dataset:

author(s): Béla KISS, Zoltán MÜLLER, Péter JUHÁSZ

title: The Fonix database of fish and benthic macroscopic invertebrates of rivers

and lakes of Hungary.

year: 2013

citation of the metadata:

# **General data specifications**

## regional coverage of the dataset:

scale of the dataset: national continents: Europe

#### spatial extent (bounding coordinates):

southernmost latitude [°]: 19 northernmost latitude [°]: 21 westernmost longitude [°]: 45 easternmost longitude [°]: 48

ordanistrium adtitude: 800 pe: Hungary

# Site specifications

coordinate system/grid data: latitude/longitude

projected

datum (e.g. WGS84): WGS84

grid data available: no

alphanumerical

example: *TIS\_800* **number of sites:** 100 - 1000

#### Climate and environmental data

climate related data: no data available

environmental data:

available parameters per catchment: catchment size

Hydrata/seeds cdatabase

available parameters per site: catchment land use along a buffer strip (100m width on both sides)

upstream (10km) of the sampling site

partiatly sovanitable

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

partiathy sovanitatble

available parameters per site: information on embankment (incl. information on modification)

recolada os countos etre

available parameters per site: information on channel form (incl. information on modification)

recolecte os count-coetre

available parameters per site: information on cross section (incl. information on modification)

recoledate os couns ceite

available parameters per site: distance to next migration barrier upstream

recoledate os coursos et e

available parameters per site: distance to next migration barrier downstream

recoledia os counsciete

available parameters per site: distance to the next lake upstream

recoledate of court-coeffe

available parameters per site: distance to the next main village/town upstream

candate.cameried:using additional shapefiles

available parameters per site: river length

cardatacameried:using additional shapefiles

available parameters per site: distance to source

candate queried: using additional shapefiles

available parameters per site: distance to mouth

cardataqueried:using additional shapefiles

available parameters per site: slope

candatacameried:using additional shapefiles

available parameters per site: altitude

recolecte os count-coetre

available parameters per site: hydrological regime/flow regime

recoledia os ovar seite

available parameters per site: current velocity

rec**dælædsovnroæ**te maximum depth

available parameters per site: maximum depth

rec**dededsour-s**ete

available parameters per site: mean depth

recolada os courso atre

available parameters per site: wetted width

rec**dedadadsour-set**e

available parameters per site: substrate composition

recoledade os covar-os etre

available parameters per site: information on instream habitat (incl. information on modification)

recoledate os couns ceite

**physico-chemistry data:** total P, ortho P, total dissolved P, nitrate, nitrite, total N, ammonium,

chloride, magnesium, calcium, hardness, TOC (total organic carbon),

oxygen content, BOD5 (biochemical oyxgen demand), water temperature, pH, conductivity, colour, Secci disc depth, euphotic depth, substrate

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

per sample

comments:

Physico-chemistry data are available from a restricted set of the sites.

## stressors influencing the sites:

stressor	restored sites	data before/after	stressor gradient	comments
	available	restoration	available	
		available		
eutrophication				
hydromorphological				
degradation				
organic pollution				
hydrologic stress				
(e.g. impoundment,				
flow velocity				
reduction,				
hydropeaking, water				
abstraction, flow				
velocity increase)				
thermal stress				
socio-economic	yes	yes		
stress				

# **Biological data**

## biological data origin:

organism group addressed:

fish, macro-invertebrates (Mollusca, Crayfish, Ephemeroptera, Odonata, Plecoptera, Trichoptera), phytoplankton, phytobenthos, (benthic) diatoms, macrophytes, other group(s): Heteroptera, Hirudinea, Coleoptera

### Sample specifications/sample resolution

#### fish:

#### sample information:

covered timeframe:

year from - to: 1978 - 2013

historical data: yes palaeo data: no

season: spring, summer, autumn

temporal resolution/frequency of sampling:

temporal resolution varies among sites

time series data: yes

comments: Repeated, monitoring-like sampling is conducted in a restricted set of sites

only.

taxonomic resolution:

percentage of species level data: 100

taxonomic coding:

taxalist according to: Hungarian checklists
coding system: taxon latin name, author
example: Abramis brama Linnaeus

sample specifications:

replicate samples: yes

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

Samples are collected and sorted in the field.

sample type (e.g. habitat specific samples, composite samples etc.):

Samples are collected in a modified AQEM protocol (one sampling site has

three sections, each section has five replicate samples).

specific sample location (e.g. littoral, profundal, transect, shoreline, hyporheic zone, etc.):

Comprehensive for quantitative samples.

other important sample related informations:

Beyond quantitative samples, the database contains information from numerous faunistical studies (some from literature sources and many from

the dataholders' own surveys).

#### macro-invertebrates:

#### sample information:

covered timeframe:

year from - to: 1978 - 2013

historical data: yes palaeo data: no

season: spring, summer, autumn

time series data: ves

comments: Repeated, monitoring-like sampling is conducted in a restricted set of sites

only.

taxonomic resolution:

percentage of species level data: 100

comments: All sampled individuals are identified to the species level or the genus level

when species-level identification is not possible.

taxonomic coding:

taxalist according to: Hungarian checklists coding system: taxon latin name, author

example:

sample specifications: replicate samples: yes specification of method(s) used for sampling and sorting: Samples are collected and sorted in the field. sample type (e.g. habitat specific samples, composite samples etc.): Samples are collected in a modified AQEM protocol (one sampling site has three sections, each section has five replicate samples). specific sample location (e.g. littoral, profundal, transect, shoreline, hyporheic zone, etc.): Comprehensive for quantitative samples. other important sample related informations: Beyond quantitative samples, the database contains information from numerous faunistical studies (some from literature sources and many from the dataholders' own surveys). phytoplankton: sample information: taxonomic resolution: taxonomic coding: sample specifications: phytobenthos: sample information: taxonomic resolution: taxonomic coding: sample specifications: (benthic) diatoms: sample information: taxonomic resolution: taxonomic coding: sample specifications: macrophytes: sample information: taxonomic resolution: taxonomic coding: sample specifications: other group(s): sample information: taxonomic resolution:

Palingenia longicauda (Olivier)

Dataset: Fonix
taxonomic coding: sample specifications:

## Other specifications

GIS layers, shapes related to the dataset:

species distribution

catchments, river-sub-basins

land use

dams/reservoirs/barriers

protected areas

availability of photos: yes availability of maps: yes

quality control procedures:

Were any quality control procedures applied to your dataset?

ves

quality control protocols and comments:

The database is under continuous quality control and development.

comments: All data are georeferenced but GIS layers are not readily available, all data

(species distributions, catchments, dams, protected areas etc.) need to be

mapped.