



Metadata

MaPHYTE database

SUPPORTED BY



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General information

name of the dataset:

full name of the dataset: *MaPHYTE database*

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:

Common database for the intercalibration of Water Framework Directive river macrophyte assessment methods in the Central-Baltic Geographical Intercalibration Group

science keywords according to [GCMD](#):

topic: *Biological Classification, Terrestrial Hydrosphere*

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

Biota, Environment, Inland Waters

Technical and administrative specifications

data format: *Access*
operating system: *Win XP*
data language: *English*
current access level: *internal*
currently available through [GBIF](#): *no*
exchange planned:
update level: *completed*
documentation:
type: *internal description*
language: *English*
Do you plan to publish the data on the Freshwater Biodiversity data portal:
media for data delivery: *others/specify*
others/details: *delivery has to be agreed by data owners*
contact details:

metadata contact person:

first, last name: *Sebastian Birk*
phone: *00491747404275*
email: *sebastian.birk@uni-due.de*
institution: *University of Duisburg-Essen, Institute of Biology, Applied
Zoology/Hydrobiology*
address: *Universitätsstraße 5*
postal code, city: *45141 Essen*
country: *Germany*
web address: *http://www.uni-due.de/hydrobiology/*

technical contact person:

first, last name: *Sebastian Birk*
phone: *00491747404275*
email: *sebastian.birk@uni-due.de*

scientific contact person:

first, last name: *Sebastian Birk*
phone: *00491747404275*
email: *sebastian.birk@uni-due.de*

Intellectual property rights and citation

(if the database is already published):

dataset creator (data compiler):

contact name: *countries participating in the intercalibration exercise*
contact email: *sebastian.birk@uni-due.de*

data contributors to/owners of this dataset:

multiple
number: *23*

provider 1:

provider institute: *Austria. SYSTEMA / University of Vienna*
contact name: *Karin Pall / Brigitte Schmidt*
contact email: *karin.pall@systema.at / brigitte.schmidt@univie.ac.at*
criteria for using the data in a publication/scientific analysis: *Other/Additional criteria*
other/additional criteria: *Data ownership and availability is unknown. Contact Karin Pall or Brigitte Schmidt for further information.*
comments: *Dataset contains data from 13 sites.*

provider 2:

provider institute: *Belgium (Flanders). INBO*
contact name: *Luc Denys*
contact email: *luc.deny@inbo.be*
criteria for using the data in a publication/scientific analysis: *Other/Additional criteria*
other/additional criteria: *Data is available. Contact Luc Denys for availability of data and use criteria.*
comments: *Dataset contains data from 87 sites.*

provider 3:

provider institute: *Czech Republic. T. G. Masaryk Water Research Institute*
contact name: *Libuse Opatrilova*
contact email: *Libuse_Opatrilova@vuv.cz*
criteria for using the data in a publication/scientific analysis: *Other/Additional criteria*
other/additional criteria: *Data must be publicly acknowledged and correctly cited.
Data can only be used as part of a larger dataset.
Data provider must be informed of any publication using these data.*

provider 4:

provider institute: *Denmark. National Env Research Institute / Danish Min of the Environment*
contact name: *Annette Baattrup-Pedersen / Lars Larsen*
contact email: *abp@dmu.dk / LLA@blst.dk*
criteria for using the data in a publication/scientific analysis: *Other/Additional criteria*
other/additional criteria: *Data ownership and availability is unknown. Contact Annette Baattrup-Pedersen or Lars Larsen for further information.*
comments: *Dataset contains data from 35 sites*

provider 5:

provider institute: *Estonian University of Life Sciences*
contact name: *Kai Piirsoo*
contact email: *kai.piirsoo@emu.ee*
criteria for using the data in a publication/scientific analysis: *Other/Additional criteria*

other/additional criteria: *Data ownership and availability is unknown. Contact Kai Piirsoo for further information.*

provider 6:

provider institute: *France*
contact name: *Christophe Leplace / Yorick Reyjol*
contact email: *christophe.laplace@bordeaux.cemagref.fr / yorick.reyjol@onema.fr*

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

Other/Additional criteria

other/additional criteria: *Data ownership and availability is unknown. Contact Yorick Reyjol for further information.*

comments: *Dataset contains data from 52 sites.*

provider 7:

provider institute: *Germany*
contact name: *Sebastian Birk*
contact email: *sebastian.birk@uni-due.de*

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

The dataset needs to be requested from dataset creator with specific conditions of use.

other/additional criteria: *Data ownership and availability is unknown. Contact Sebastian Birk for further information.*

comments: *Dataset contains data from 126 sites.*

provider 8:

provider institute: *Italy. ENEA Research Centre Salugia*
contact name: *Maria Rita Miniciardi*
contact email: *mariarita.miniciardi@enea.it*

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

Other/Additional criteria

other/additional criteria: *Data ownership and availability is unknown. Contact Maria Rita Miniciardi for further information.*

comments: *Dataset contains data from 24 sites.*

provider 9:

provider institute: *Latvian Environment, Geology and Meteorology Centre*
contact name: *Normunds Kadikis*
contact email: *normunds.kadikis@lvgma.gov.lv*

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

Other/Additional criteria

other/additional criteria: *Data ownership and availability is unknown. Contact Normunds Kadikis for further information.*

comments: *Dataset contains data from 36 sites.*

provider 10:

provider institute: *Lithuanian Environmental Protection Agency / Institute of Botany*
contact name: *Mindaugas Gudas / Zofia Sinceviene*
contact email: *m.gudas@aaa.am.lt / zofija.s@botanika.lt*

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

Other/Additional criteria

other/additional criteria: *Data ownership and availability is unknown. Contact Mindaugas Gudas or Zofia Sinceviene for further information.*

comments: *Dataset contains data from 9 sites.*

provider 11:

provider institute: *Netherlands*

contact name: *Marcel van den Berg*
contact email: *marcel.vanden.berg@rws.nl*
criteria for using the data in a publication/scientific analysis:
Other/Additional criteria
other/additional criteria: *Data must be publicly acknowledged and cited correctly.
Data can only be used as part of a larger dataset and for publication, the
names of individual waterbodies must not be published.*
comments: *Dataset contains data from 62 sites.*

provider 12:

provider institute: *Polish Institute of Environmental Protection*
contact name: *Agnieszka Kolada, Krzysztof Szoszkiewicz*
contact email: *akolada@ios.edu.pl, kszoszk@au.poznan.pl*
criteria for using the data in a publication/scientific analysis:
Other/Additional criteria
other/additional criteria: *Data ownership and availability is unknown. Contact Agnieszka Kolada or
Krzysztof Szoszkiewicz for further information.*
comments: *Dataset contains data from 78 sites.*

provider 13:

provider institute: *Belgium (Wallonia)*
contact name: *Daniel Galoux*
contact email: *d.galoux@mrw.wallonie.be*
criteria for using the data in a publication/scientific analysis:
Other/Additional criteria
other/additional criteria: *Data ownership and availability is unknown. Contact Daniel Galoux for
further information.*
comments: *Dataset contains data from 54 sites.*

provider 14:

provider institute: *Spain. Basque Water Agency*
contact name: *Alberto Manzanos*
contact email: *amanzanos@uragentzia.net*
criteria for using the data in a publication/scientific analysis:
Other/Additional criteria

provider 15:

provider institute: *UK*
contact name: *Nigel Wilby*
contact email: *n.j.willby@stir.ac.uk*
criteria for using the data in a publication/scientific analysis:
Other/Additional criteria
other/additional criteria: *Data ownership and availability is unknown. Contact Nigel Wilby for further
information.*
comments: *Dataset contains data from 208 sites.*

provider 16:

provider institute: *Ireland. Irish EPA*
contact name: *Martin McGarrigle*
contact email: *m.mcgarrigle@epa.ie*
criteria for using the data in a publication/scientific analysis:
Other/Additional criteria

provider 17:

provider institute: *Bulgaria*
contact name: *Gana Gecheva*

contact email: *ggecheva@mail.bg*
criteria for using the data in a publication/scientific analysis:
Other/Additional criteria

provider 18:

provider institute: *Hungary. Balaton Limnological Institute, Hungarian Academy of Sciences*
contact name: *Lukacs Balazs Andras*
contact email: *lukacs.balazs@okologia.mta.hu*
criteria for using the data in a publication/scientific analysis:
Other/Additional criteria

provider 19:

provider institute: *Luxemburg*
contact name: *Nora Welschbillig*
contact email: *Nora.Welschbillig@eau.etat.lu*
criteria for using the data in a publication/scientific analysis:
Other/Additional criteria

provider 20:

provider institute: *Romania*
contact name: *Gabriel Chiriac*
contact email: *gabriel.chiriac@rowater.ro*
criteria for using the data in a publication/scientific analysis:
Other/Additional criteria
other/additional criteria: *Contact Gabriel Chiriac for information on data availability.*

provider 21:

provider institute: *Slovakia*
contact name: *haviar@vuvh.sk*
contact email: *Mateus Haviar*
criteria for using the data in a publication/scientific analysis:
Other/Additional criteria
other/additional criteria: *Contact Mateus Haviar for information on data availability.*

provider 22:

provider institute: *Slovenia*
contact name: *Gorazd Urbanic*
contact email: *gorazd.urbanic@izvrs.si gorazd.urbanic@bf.uni-lj.si*
criteria for using the data in a publication/scientific analysis:
Other/Additional criteria
other/additional criteria: *Contact Gorazd Urbanic for information on data availability.*

provider 23:

provider institute: *Spain. University of Vigo*
contact name: *Isabel Pardo*
contact email: *ipardo@uvigo.es*
criteria for using the data in a publication/scientific analysis:
Other/Additional criteria
other/additional criteria: *This component of the Spanish data within the dataset is unavaible for use.*

citation of this dataset:

author(s): *Birk, S., Willby, N., Chauvin, C., Coops, H.C., Denys, L., Galoux, D., Kolada, A., Pall, K., Pardo, I., Pot, R. & Stelzer, D.*
title: *Report on the Central Baltic River GIG Macrophyte Intercalibration Exercise, June 2007*
year: *2007*

citation of the metadata:

comments:

Where specified, data owners need to be contacted for further information on data availability. Otherwise, data available according to criteria listed against data provider.

General data specifications

regional coverage of the dataset:

scale of the dataset: *continental*

continents: *Europe*

countries: *Europe: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Estonia, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Poland, Romania, Slovakia, Slovenia, Spain, United Kingdom*

Site specifications

| | |
|-------------------------------------|---|
| coordinate system/grid data: | <i>latitude/longitude, format: DD</i> |
| comments: | <i>Coordinates only partly available.</i> |
| site coding: | |
| site coding available: | <i>yes</i> |
| | <i>numerical</i> |
| number of digits: | <i>3</i> |
| example: | <i>345</i> |
| number of sites: | <i>>1000</i> |
| exact number of sites: | <i>2614</i> |

Climate and environmental data

climate related data:

available per: *per site*

available parameters:

mean annual precipitation

data providers

mean annual air temperature

comments:

data only partly available (mainly for sites with high status, data are derived via coordinates)

environmental data:

available parameters per catchment: *catchment size*

available parameters per catchment: *catchment geology*

available parameters per site: *catchment land use upstream of sampling site*

available parameters per site: *altitude*

available parameters per site: *mean depth*

available parameters per site: *substrate composition*

physico-chemistry data: *total P, ortho P, nitrate, ammonium, alkalinity, oxygen content, BOD5 (biochemical oxygen demand), conductivity*

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

mean values per site

stressors influencing the sites:

reference sites available: *yes*

| stressor | restored sites available | data before/after restoration available | stressor gradient available | comments |
|--------------------------------|--------------------------|---|-----------------------------|----------|
| eutrophication | | | | |
| hydromorphological degradation | | | | |
| organic pollution | | | | |
| general degradation | | | | |

Biological data

biological data origin: *from sampling*
specify project: *national WFD monitoring programmes*

organism group addressed: *macrophytes*

Sample specifications/sample resolution

macrophytes:

sample information:

covered timeframe:

year from - to: 2000 - 2009

historical data: no

palaeo data: no

season: summer

temporal resolution/frequency of sampling:

once per monitoring cycle

time series data: no

taxonomic resolution: *genus, species*

taxonomic coding:

coding system: *internal coding (intercalibration exercise)*

example: *AMB.FLU*

sample specifications: *quantitative (abundance data)*

replicate samples: yes

number of samples: 3195

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

Sampling was in line with the requirements of the European Standard EN 14184:2003. Representative river stretches were visually inspected during the growing season (June to September) by wading, diving or boating, using rake, grapnel or aqua-scope where necessary. Representative sites spanned about 100 m of river length.

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

multi-habitat

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

entire stream width

other important sample related informations:

The abundance data were converted from the national into a standard international five-class abundance scale according to Birk, S. & Wilby, N.J. (2010) Towards harmonization of ecological quality classification: establishing common grounds in European macrophyte assessment for rivers. Hydrobiologia, 652, 149-163.

comments: *replicates only for some sites*

Other specifications

availability of photos: *no*

availability of maps: *no*

quality control procedures:

Were any quality control procedures applied to your dataset?

no