



Metadata

Phytoplankton German Lowland Lakes

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General information

name of the dataset:

full name of the dataset: *Phytoplankton German Lowland Lakes*

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:

*Extract from the national data base for phytoplankton in German lakes -
Criteria for selection: a) sampling and analysis according the new national
instruction (mainly year >2003) b) lake type within intercalibration type c)
lowland lakes.*

*Data base includes quantitative phytoplankton lists, trophic parameter of
sampling date and lake characters.*

science keywords according to [GCMD](#):

topic: *Biosphere, Biological Classification, Terrestrial Hydrosphere*

keywords: *Phytoplankton, lowland lakes, trophic parameters, lakes characters*

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

Biota, Environment, Inland Waters

Technical and administrative specifications

data format: Access
operating system: Win XP
current access level: internal
currently available through [GBIF](#): no
exchange planned: no
update level: continuously updated
documentation:
Do you plan to publish the data on the Freshwater Biodiversity data portal:
contact details:

metadata contact person:

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comments:

the data base structure is very similar to the calculation tool PhytoSee (Mischke & Böhmer 2008) which enables the user to import the data and export the assessment results
German documentation: Mischke, U. (2008): Anleitung zur Verwendung des Bewertungsprogramms ?PhytoSee?. In: Mischke, U. & B. Nixdorf (Hrsg.), Gewässerreport (Nr. 10), BTUC-AR 2/2008, ISBN 978-3-940471-06-2, Eigenverlag BTU Cottbus, 185-201.
[Metadata were harvested from the WISER metadatabase (<http://www.wiser.eu/results/meta-database/details.php?id1=31&id2=40>) by the BioFresh team.]

Intellectual property rights and citation

(if the database is already published):

dataset creator (data compiler):

data contributors to/owners of this dataset:

single

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

Other/Additional criteria

other/additional criteria:

Data provider must be offered co-authorship for publications using this dataset. Data must be publicly acknowledged and cited correctly.

citation of this dataset:

title:

*http://www.wiser.eu - Water Bodies in Europe: Integrative Systems to assess Ecological status and Recovery (Version **).*

year:

year of access

version (if applicable):

version number from website

citation of the metadata:

General data specifications

regional coverage of the dataset:

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

spatial extend (bounding coordinates):

southernmost latitude [°]: *47.269287*
northernmost latitude [°]: *54.978777*
westernmost longitude [°]: *5.930664*
easternmost longitude [°]: *15.123535*
minimum altitude: *-4 metres*
maximum altitude: *2962 metres*
countries: *Europe: Germany*

Site specifications

coordinate system/grid data:

datum (e.g. WGS84): WGS84

other site classification parameters:

stratification: stratified/polymictic

Lake catchment area to lake volume (VQ): VQ <1.5; 1.5 - 10; >10

site coding:

site coding available: yes
alphanumerical

number of digits: 11

example: *BRB_319239*

number of sites: <100

exact number of sites: 95

comments: *If requested, than also Alpin Lakes can be extracted from the national data base.*

Climate and environmental data

climate related data:

environmental data:

physico-chemistry data:

comments:

total P, hardness, alkalinity, chlorophyll, euphotic depth

Water temperature and termocline depth determine the max depth of sampling in Germany and are available for all samples. Those parameters could be added during project span.

Hardness or alkalinity are available on site level, not for each sample and for about 50% of all sites.

stressors influencing the sites:

stressor	restored sites available	data before/after restoration available	stressor gradient available	comments
eutrophication	yes	yes		total phosphorous; chlorophyll a; Secchi depth according German trophic score sy

Biological data

biological data origin:

specify method:	<i>general compilation</i>
organism group addressed:	<i>national data base for phytoplankton in German lakes</i> <i>phytoplankton, macroalgae, macrophytes</i>

Sample specifications/sample resolution

phytoplankton:

sample information:

season: *spring, summer, autumn, winter*
temporal resolution/frequency of sampling:

per year

taxonomic resolution:

genus, species

percentage of species level data: *60*

taxonomic coding:

coding system: *REBECCA*

example: *German operative taxa list phytoplankton*

sample specifications:

quantitative (abundance data)

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

taxa biovolumes in mm³/l; composite samples

other important sample related informations:

Data origin: Lugol fixed samples without enrichment and microscopical analysis Utermöhl-method

macroalgae:

sample information:

season: *spring, summer, autumn, winter*
temporal resolution/frequency of sampling:

per year

taxonomic resolution:

taxonomic coding:

sample specifications:

replicate samples: *no*

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

composite samples

other important sample related informations:

Data origin: Lugol fixed samples without enrichment and microscopical analysis Utermöhl-method

macrophytes:

sample information:

season: *spring, summer, autumn, winter*

taxonomic resolution:

taxonomic coding:

sample specifications:

replicate samples: *no*

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

composite samples

other important sample related informations:

Data origin: Lugol fixed samples without enrichment and microscopical analysis Utermöhl-method

Other specifications

GIS layers, shapes related to the dataset:

others (specify): *DLM Deutschland 2003 DGM250 1:250,000; digital landscape modell (Digitales Geländemodell) provided by gkg with areas of inwaters*

availability of photos: yes

availability of maps: yes

quality control procedures: