



Metadata

Central Baltic GIG Lakes Phytoplankton data (WFD Intercalibration)

SUPPORTED BY



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Visit the Freshwater Metadatabase, http://data.freshwaterbiodiversity.eu/metadb/about_metadata

General information

name of the dataset:

full name of the dataset: *Central Baltic GIG Lakes Phytoplankton data (WFD Intercalibration)*

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:

Collated for the purposes of intercalibrating the outputs of the Central Baltic GIG WFD phytoplankton classification tools. Includes data from large number of lakes across the GIG region, provided by the participating countries. Raw phytoplankton data is provided as biovolumes. Raw supporting physico-chem data also included for appropriate time periods. Typology information also included.

Note that not all data from this dataset will be made available to BioFresh science work packages or the portal.

science keywords according to [GCMD](#):

topic: *Biological Classification*

keywords: *Lake phytoplankton, lake typology, Water Framework Directive, Intercalibration dataset, GIG*

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

Biota, Inland Waters

Technical and administrative specifications

data format: *Access*
data language: *English*
current access level: *restricted access*
update level: *completed*

documentation:

Do you plan to publish the data on the Freshwater Biodiversity data portal:

media for data delivery: *e-mail*
web address: *no web address*

contact details:

metadata contact person:

first, last name: *Sian Davies*
email: *siandavies2010@yahoo.co.uk*

technical contact person:

first, last name: *Geoff Phillips*
email: *geoff.phillips@environment-agency.gov.uk*

scientific contact person:

first, last name: *Geoff Phillips*
email: *geoff.phillips@environment-agency.gov.uk*

comments:

Contact details are provided for the person responsible for completion of the metadata and the GIG lead. The dataset contains data from a number of organisations/institutions, therefore it is not appropriate to provide the name and address of any one institution in the fields above.

Intellectual property rights and citation

(if the database is already published):

dataset creator (data compiler):

contact name: *CBGIG Lake phytoplankton group*
contact email: *geoff.phillips@environment-agency.gov.uk or mischke@igb-berlin.de*

data contributors to/owners of this dataset:

number: *multiple*
11

provider 1:

provider institute: *National Environment Research Institute (Denmark)*
contact name: *Erik Jeppesen, Torben Lauridsen, Martin Sondergaard*
contact email: *ej@dmu.dk, tll@dmu.dk, ms@dmu.dk*
criteria for using the data in a publication/scientific analysis: *Other/Additional criteria*
comments: *Data from 108 lakes.*

provider 2:

provider institute: *National Institute for Water Management and Waste Water Treatment (RIZA). Nethe*
contact name: *Rob Portielje*
contact email: *rob.portielje@wrs.nl*
criteria for using the data in a publication/scientific analysis: *Other/Additional criteria*
other/additional criteria: *These data availability criteria are assumed from correspondence with the data owner. However, the data owner has not confirmed that they are correct as presented in this metadata base. Consequently, the data owner must be contacted directly, prior to use of data, to confirm availability criteria.*
comments: *Data from 50 lakes.*

provider 3:

provider institute: *Irish Environment Protection Agency*
contact name: *Gary Free*
contact email: *g.free@epa.ie*
criteria for using the data in a publication/scientific analysis: *Other/Additional criteria*
other/additional criteria: *Irish data may only be used when combined as a larger dataset containing data from other countries.*
comments: *Data from 46 lakes.*

provider 4:

provider institute: *Estonian University of Life Sciences*
contact name: *Ingmar Ott*
contact email: *ingmar.ott@emu.ee*
criteria for using the data in a publication/scientific analysis: *Other/Additional criteria*
comments: *Data from 66 lakes.*

provider 5:

provider institute: *Latvian Environment, Geology and Meteorology Centre*
contact name: *Marina Ā?i?endajeva*
contact email: *marina.cicendajeva@lvgmc.lv*
criteria for using the data in a publication/scientific analysis: *Other/Additional criteria*

comments: *Data from 66 lakes.*

provider 6:

provider institute: *Lithuanian Environmental Protection Agency*

contact name: *Jelena Titova, Mindaugas Gudas*

contact email: *j.titova@aaa.am.lt, m.gudas@aaa.am.lt*

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

Other/Additional criteria

other/additional criteria: *These data availability criteria are assumed from correspondence with the data owner. However, the data owner has not confirmed that they are correct as presented in this metadata base. Consequently, the data owner must be contacted directly, prior to use of data, to confirm availability criteria.*

comments: *Data from 41 lakes*

provider 7:

provider institute: *Institute of Environmental Protection, Poland*

contact name: *Agnieszka Pasztaleniec, Hanna Soszka*

contact email: *paszta@ios.edu.pl, hasoszka@ios.edu.pl*

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

Other/Additional criteria

other/additional criteria: *These data are owned by various Polish institutions and were collated and provided solely for the purposes of Intercalibration. They are not officially available for other purposes. However, it is possible that some or all of the data may be made available in the future upon specific request.*

comments: *Data from 50 lakes*

provider 8:

provider institute: *The French National Agency for Water and Aquatic Environments (ONEMA)*

contact name: *Christophe Laplace-Treyture (CEMAGREF)*

contact email: *christophe.laplace@bordeaux.cemagref.fr*

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

Other/Additional criteria

other/additional criteria: *These data are currently unavailable. They are thought to be owned by ONEMA but have been compiled for Intercalibration purposes by CEMAGREF.*

comments: *Data from 3 lakes.*

provider 9:

provider institute: *Environment Agency - lead organisation for UK*

contact name: *Geoff Phillips*

contact email: *geoff.phillips@environment-agency.gov.uk*

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

Other/Additional criteria

other/additional criteria: *UK dataset contains data from England and Wales, Scotland and Northern Ireland. The Scottish data owners are the Scottish Environment Protection Agency, contact Roger Owen, roger.owen@sepa.org.uk. The Northern Ireland data owners are the Northern Ireland Environment*

Agency, contact Brenda Walker, Brenda.Walker@doeni.gov.uk
Dataset contains data from 85 lakes.

provider 10:

provider institute: *Ghent University*

contact name: *Jeroen Van Wichelen*

contact email: *jeroen.vanwichelen@Ugent.be*

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

Other/Additional criteria

comments:

Data from 12 lakes.

provider 11:

provider institute:

IGB Berlin in contract with LAWA (German Working Group of Water Issues)

contact name:

Ute Mischke

contact email:

mischke@igb-berlin.de

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

Other/Additional criteria

other/additional criteria:

These data are owned by multiple German institutions and are currently unavailable.

Data owners are the specific German Federal states of each lake; property rights can be specified by the single Federal State; the use within WISER and CB GIG is agreed with all by the common data provider Ute Mischke.

Each of the five Federal German States are requested to open the scientific use of the data.

comments:

From the 245 lakes available, there are 121 lakes in one of the IC lake types.

citation of this dataset:

citation of the metadata:

General data specifications

regional coverage of the dataset:

scale of the dataset: *continental*

continents: *Europe*

spatial extend (bounding coordinates):

southernmost latitude [°]: *44,35*

northernmost latitude [°]: *60,17*

westernmost longitude [°]: *-9,35*

easternmost longitude [°]: *58,31*

~~max~~ ~~min~~ altitude: *Europe: Belgium, Denmark, Estonia, France, Germany, Ireland, Latvia, Lithuania, Netherlands, Poland, United Kingdom*

comments: *Please see also: <http://www.wiser.eu/results/meta-database/>*

Site specifications

coordinate system/grid data: *latitude/longitude, format: DD*

grid data available: *yes*

other site classification parameters:

Intercalibration (WFD) lake type, retention time, natural, heavily modified or artificial according to WFD criteria

site coding available: *yes*

alphanumerical

example: *Variable according to MS waterbody coding system*

number of sites: *100 - 1000*

exact number of sites: *750*

Climate and environmental data

climate related data:

environmental data:

available parameters per catchment: *catchment land cover/land use*

available parameters per catchment: *population density*
no parameter data per site available

comments: *Basic catchment land-use data available for ~45 waterbodies in the dataset*

physico-chemistry data: *total P, ortho P, nitrate, nitrite, total N, ammonium, calcium, hardness, alkalinity, TOC (total organic carbon), oxygen content, BOD5 (biochemical oxygen demand), water temperature, pH, conductivity, chlorophyll, colour, Secci disc depth, thermocline depth*

other physico-chemical parameters *Silicate*

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

per sample

comments: *Not all lakes and sample locations will have all of the above parameters associated with them.*

Some of the data provided are mean values per sample but the majority are in the form of raw data.

stressors influencing the sites:

reference sites available: *yes*
no stressor data available

comments: *Information is provided on whether or not sites are in reference condition.*

Biological data

biological data origin:

organism group addressed: *phytoplankton*

Sample specifications/sample resolution

phytoplankton:

sample information:

covered timeframe:

year from - to: 1991 - 2009

historical data: no

season: spring, summer, autumn, winter

temporal resolution/frequency of sampling:

Frequency varies between lakes

time series data: no

comments: *Majority of samples from April to September, numbers, years and frequency of sampling varies between waterbodies, according to MSs monitoring programmes.*

taxonomic resolution:

order, family, sub-family, genus, species

percentage of species level data: 66

taxonomic coding:

taxalist according to: *REBECCA coding system*

example: *R0086*

sample specifications:

quantitative (abundance data)

replicate samples: no

number of samples: 4670

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

Phytoplankton taxonomic data presented as Biovolume

Sampling methods not specified, vary according to Member State.

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

Lake, either open water, outflow, surface, subsurface, integrated euphotic

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

As above

Other specifications

availability of photos: *no*

availability of maps: *no*

quality control procedures:

quality control protocols and comments:

Taxonomy harmonised to REBECCA coding