



Metadata

Northern GIG Lakes Macroinvertebrates eutrophication data (WFD Intercalibration)

SUPPORTED BY



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General information

name of the dataset:

full name of the dataset: *Northern GIG Lakes Macroinvertebrates eutrophication 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 Northern GIG WFD lakes macroinvertebrate tools. This dataset is specific to the intercalibration of the tools assessing lake eutrophication. Includes data from a large number of lakes from across the GIG region, provided by participating countries. The dataset includes raw invertebrate data and physico-chem data in addition to some typological information. Note that not all the data from this dataset will be made available to BioFresh science work packages or the data portal.

science keywords according to [GCMD](#):

topic: *Biological Classification*

keywords: *lake macroinvertebrates, lake benthic fauna, lake typology, eutrophication, Water Framework Directive, Intercalibration dataset*

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

Biota, Inland Waters

Technical and administrative specifications

data format: *Excel*

operating system: *all Windows systems*

data language: *English*

current access level: *restricted access*

web address (URL): *no web address*

update level: *completed*

documentation:

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

media for data delivery: *e-mail*

contact details:

metadata contact person:

first, last name: *Sian Davies*

email: *siandavies2010@yahoo.co.uk*

technical contact person:

first, last name: *Dave Colvill*

email: *David.Colvill@sepa.org.uk*

scientific contact person:

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: *Members of NGIG*

data contributors to/owners of this dataset:

multiple

number: *4*

provider 1:

provider institute: *Environment Agency/Scottish Environment Protection Agency*

contact name: *Rachel Benstead/Dave Colvill*

contact email: *rachel.benstead@environment-agency.gov.uk david.colvill@sepa.org.uk*

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

Other/Additional criteria

other/additional criteria: *Data from the UK are provided by the Environment Agency and the Scottish Environment Protection Agency. There are no data from Northern Ireland in this dataset.*

comments: *The dataset contains results from 117 samples collected from 33 lakes.*

provider 2:

provider institute: *Irish Environment Protection Agency*

contact name: *Ruth Little*

contact email: *r.little@epa.ie*

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

Other/Additional criteria

other/additional criteria: *Data provider must be contacted in advance of its use to confirm availability and any restrictions on its use.*

comments: *The dataset contains results from 123 samples collected from 87 lakes.*

provider 3:

provider institute: *Swedish University of Agricultural Sciences*

contact name: *Leonard Sandin*

contact email: *leonard.sandin@slu.se*

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

Other/Additional criteria

other/additional criteria: *Data provider must be contacted in advance of its use to confirm availability and any restrictions on its use.*

comments: *The dataset contains results from 373 samples from 373 lakes.*

provider 4:

provider institute: *Norwegian Institute for Nature Research*

contact name: *Ann Kristin Schartau*

contact email: *ann.k.schartau@nina.no*

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

Other/Additional criteria

other/additional criteria: *Data provider must be contacted in advance of its use to confirm availability and any restrictions on its use.*

comments: *Biological data from Norway are provided by the Norwegian Institute for Nature Research (NINA) and Uni Research, University of Bergen. Chemical data are provided by the Norwegian Institute for Water Research (NIVA).*

The dataset contains results from 24 samples from 11 lakes.

citation of this dataset:

citation of the metadata:

General data specifications

regional coverage of the dataset:

continents: *Europe*

spatial extend (bounding coordinates):

minimum altitude: *0 metres*

maximum altitude: *764 metres*

countries: *Europe: Ireland, Norway, Sweden, United Kingdom*

Site specifications

coordinate system/grid data:	<i>latitude/longitude, format:</i>
grid data available:	<i>yes</i>
comments:	<i>Not all sites in the database have lat/long or grid data</i>
other site classification parameters:	
	<i>clear/humic/polyhumic</i>
site coding available:	<i>yes</i>
	<i>alphanumerical</i>
example:	<i>varies widely between countries</i>
number of sites:	<i>100 - 1000</i>
exact number of sites:	<i>515</i>

Climate and environmental data

climate related data:	<i>no data available</i>
environmental data:	<i>no parameter data per catchment available</i>
available parameters per site:	<i>maximum depth</i>
physico-chemistry data:	<i>total P, ortho P, nitrate, total N, sulphate, chloride, sodium, magnesium, labile aluminium, calcium, alkalinity, TOC (total organic carbon), pH, chlorophyll, colour</i>
other physico-chemical parameters	<i>potassium, DOC, Abs 420, Abs 250</i>
availability of physico-chemical data, if there is more than one sample per site:	<i>per sample</i>
comments:	<i>Multiple values per sample site, number of samples varies</i>
stressors influencing the sites:	
reference sites available:	<i>yes</i>
comments:	<i>Information on primary and secondary pressure to site and whether it has been limed.</i>

Biological data

biological data origin:

General sampling programmes plus some specifically collected data

organism group addressed:

macro-invertebrates (Mollusca, Ephemeroptera, Odonata, Plecoptera, Trichoptera, Chironomidae)

Sample specifications/sample resolution

macro-invertebrates:

sample information:

covered timeframe:

year from - to: 2000 - 2009

historical data: no

palaeo data: no

season: spring, summer, autumn

temporal resolution/frequency of sampling:

per year

time series data: no

taxonomic resolution: genus, species

percentage of species level data: 50

taxonomic coding:

taxalist according to: AQEM

example: 15453

sample specifications: quantitative (abundance data)

replicate samples: no

number of samples: 625

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

kick sample or plant sweep is the only information provided along with duration of kick sample

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

habitat specific

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

Stoney shoreline or vegetation

Other specifications

availability of photos: *no*
availability of maps: *no*
quality control procedures: