



Metadata

Lake Vortsjarv hydrochemical and hydrobiological monitoring database

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General information

name of the dataset:

full name of the dataset: *Lake Vortsjarv hydrochemical and hydrobiological monitoring database*
dataset short name: *Lake Vortsjarv monitoring 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:

Monitoring data from Lake Vortsjarv dating back to 1964 (varies among parameters). Measured parameters include hydrochemistry, microbiology, phytoplankton, metazooplankton, protozooplankton, macrophytes, macrozoobenthos and background data. The fish data, also available for this lake, are not included in this database. An overview of the present database is given in the paper; Peeter Nõges, Andu Kangur, Ain Järvalt and Tiina Nõges (2001) History of Hydrological and Biological Investigations of Lake Võrtsjärv. Proc. Estonian Acad. Sci. Biol. Ecol. 50 (3): 180-193.

science keywords according to [GCMD](#):

topic: *Biosphere, Biological Classification, Terrestrial Hydrosphere*

keywords: *Lake monitoring, Bacteria, Zooplankton, Phytoplankton, Macrophytes, Macrobenthos, Water chemistry*

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

Biota, Environment, Inland Waters

Technical and administrative specifications

data format: *Excel*
operating system: *Win XP*
data language: *others/specify*
specify: *Estonian*
current access level: *web (public), internal*
web address (URL): *http://eelis.ic.envir.ee:88/seireveeb/index.php?id=13&act=selected_subprogram&prog_id=-385362150&subprog_id=-203310191*
update level: *continuously updated*
documentation:
type: *others/specify*
language: *others/specify*
others/details: *Annual monitoring reports since 1997 at:
http://seire.keskkonnainfo.ee/index.php?option=com_content&view=article
&id=2115&Itemid=428*

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

no
media for data delivery: *online internet (HTTP)*
web address: *http://seire.keskkonnainfo.ee/index.php?option=com_content&view=article
&id=2115&Itemid=428*

contact details:

metadata contact person:
first, last name: *Peeter Nõrges*
email: *peeter.noges@emu.ee*
institution: *Estonian University of Life Sciences*
address: *Kreutswaldi 1*
postal code, city: *51014 Tartu*
country: *Estonia*
web address: *http://www.emu.ee/*

technical contact person:
scientific contact person:
first, last name: *Peeter Nõrges*
email: *peeter.noges@emu.ee*

Intellectual property rights and citation

(if the database is already published):

dataset creator (data compiler):

contact name: *Centre for Limnology, Estonian University for Life Sciences*
contact email: *peeter.noges@emu.ee*

data contributors to/owners of this dataset:

multiple
number: *2*

provider 1:

provider institute: *Centre for Limnology, Estonian University of Life Sciences*
contact name: *Peeter Nõges*
contact email: *peeter.noges@emu.ee*

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.*

comments: *Biological data on bacteria, ciliates, phyto- and zooplankton, macrozoobenthos, and macrophytes is delivered by different investigators.*

provider 2:

provider institute: *Estonian Environmental Research Centre (EKUK), Tartu branch*
contact name: *Urmas Kruus*
contact email: *tartu@klab.ee*

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

other/additional criteria: *Data can be used without restrictions, but must be publicly acknowledged and cited correctly.*

comments: *EKUK is the provider of hydrochemical background data for biological samples*

citation of this dataset:

author(s): *Peeter Noges, Andu Kangur, Ain Jarvalt and Tiina Noges*
title: *History of Hydrological and Biological Investigations of Lake Vortsjarv. Proc. Estonian Acad. Sci .Biol. Ecol. 50 (3): 180-193*
year: *2001*

citation of the metadata:

author(s): *Peeter Nõges*
title and journal (name, number, pages): *Matadata of Lake Vortsjarv hydrochemical and hydrobiological monitoring database*
year: *2014*

General data specifications

regional coverage of the dataset:

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

spatial extend (bounding coordinates):

southernmost latitude [°]: *58 07 21*
northernmost latitude [°]: *58 24 28*
westernmost longitude [°]: *25 54 34*
easternmost longitude [°]: *26 09 34*
minimum altitude: *33 metres*
maximum altitude: *35 metres*
countries: *Europe: Estonia*
comments: *Lake Võrtsjärv*

Site specifications

coordinate system/grid data:	<i>latitude/longitude, format: DMS</i>
grid data available:	<i>no</i>
number of sites:	<i><100</i>
exact number of sites:	<i>10</i>
comments:	<i>Number of sites varies by years from 1 to 10</i> <i>Natinal Monitoring Programme</i>

Climate and environmental data

climate related data:

available per: *per catchment*

available parameters:

*mean annual temperature January, July
 mean annual temperature for each month
 minimal, maximal and mean winter and summer temperatures
 mean annual precipitation
 evaporation
 mean discharge*

comments:

Hydrochemical data are separately available

environmental data:

available parameters per catchment: *catchment size*

available parameters per catchment: *catchment geology*

geological maps

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

Catchment source:

available parameters per catchment: *population density*

available parameters per catchment: *hydrological regime/flow regime*

no parameter data per site available

physico-chemistry data:

total P, ortho P, nitrate, nitrite, total N, ammonium, sulphate, chloride, sodium, magnesium, calcium, hardness, alkalinity, oxygen content, BOD5 (biochemical oxygen demand), water temperature, pH, conductivity, chlorophyll, colour, Secci disc depth, suspended solids

other physico-chemical parameters *HCO₃⁻, COD, Silicon, Fe*

stressors influencing the sites:

stressor	restored sites available	data before/after restoration available	stressor gradient available	comments
eutrophication	no		no	
hydrologic stress (e.g. impoundment, flow velocity reduction, hydropeaking, water abstraction, flow velocity increase)	no		no	

Biological data

biological data origin: *from sampling*
specify project: *lake monitoring*

organism group addressed: *macro-invertebrates (Mollusca, Chironomidae), zooplankton (Cladocera), phytoplankton, macrophytes, angiosperms, other group(s): bacteria / microbiology*

comments: *Metazooplankton and protozooplankton*

Sample specifications/sample resolution

macro-invertebrates:

sample information:

covered timeframe:

year from - to: 1965 - 2013

historical data: yes

palaeo data: no

season: spring, summer, autumn, winter

temporal resolution/frequency of sampling:

per month

time series data: yes

comments: *Monthly sampling from one littoral and one pelagic station, over-lake sampling from 10 stations 2-3 times per year.*

taxonomic resolution:

species

taxonomic coding:

sample specifications:

zooplankton:

sample information:

covered timeframe:

year from - to: 1965 - 2013

historical data: yes

palaeo data: no

season: spring, summer, autumn, winter

temporal resolution/frequency of sampling:

per month

time series data: yes

comments: *Data on ciliates (species abundance, biomass) available since 2000*

taxonomic resolution:

species, other

other taxonomic levels: *meta & protozooplankton*

taxonomic coding:

sample specifications:

phytoplankton:

sample information:

covered timeframe:

year from - to: 1964 - 2013

historical data: yes

season: spring, summer, autumn, winter

temporal resolution/frequency of sampling:

per month

time series data: yes

taxonomic resolution:

species

comments: *Functional groups according to Reynolds*

taxonomic coding:

sample specifications:

macrophytes:

sample information:

temporal resolution/frequency of sampling:

per year

time series data:

yes

comments:

Macrophyte surveys have been carried out in 1965-67, 1997, and annually from 2005 onward

taxonomic resolution:

species

taxonomic coding:

sample specifications:

angiosperms:

sample information:

taxonomic resolution:

species

taxonomic coding:

sample specifications:

other group(s):

sample information:

taxonomic resolution:

taxonomic coding:

sample specifications:

Other specifications

availability of photos: *yes*

availability of maps: *yes*

quality control procedures:

Were any quality control procedures applied to your dataset?

no