General information

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:


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
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 Nõges
e-mail: peeter.noges@emu.ee
institution: Estonian University of Life Sciences
address: Kreutzwaldi 1
postal code, city: 51014 Tartu
country: Estonia
web address: http://www.emu.ee/

scientific contact person:
first, last name: Peeter Nõges
e-mail: 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:
  number: multiple

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.
  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: latitude/longitude, format: DMS
grid data available: no

number of sites: <100
  exact number of sites: 10

comments: Number of sites varies by years from 1 to 10
          Natinal Monitoring Programme
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
- catchment geology
- geotabical maps
- catchment land cover/land use
- CORINE source

available parameters per catchment:
- population density
- 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:

<table>
<thead>
<tr>
<th>stressor</th>
<th>restored sites available</th>
<th>data before/after restoration available</th>
<th>stressor gradient available</th>
<th>comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>eutrophication</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>hydrologic stress (e.g. impoundment, flow velocity reduction, hydropeaking, water abstraction, flow velocity increase)</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td></td>
</tr>
</tbody>
</table>
## 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: 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:**

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#### zooplankton:

**sample information:**
- covered timeframe: 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:**

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#### phytoplankton:

**sample information:**
- covered timeframe: 1964 - 2013
- historical data: yes
- season: spring, summer, autumn, winter
- temporal resolution/frequency of sampling: per month
- time series data: yes
- comments: Functional groups according to Reynolds

**taxonomic resolution:** species

**taxonomic coding:**

**sample specifications:**
**Dataset:** Lake Vortsjarv hydrochemical and hydrobiological monitoring database

### 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**

**Sample specifications:**

### Angiosperms

**Sample information:**

**Taxonomic resolution:**
- **species**

**Sample specifications:**

### Other group(s)

**Sample information:**

**Taxonomic resolution:**

**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