Metadata

Hydrochemical database of inflows and outflow of Võrtsjärv

Exported from the Freshwater Biodiversity Data Portal, http://data.freshwaterbiodiversity.eu
Visit the Freshwater Metadatabase, http://data.freshwaterbiodiversity.eu/metadb/about_metadata

General information

name of the dataset:
  full name of the dataset: Hydrochemical database of inflows and outflow of Võrtsjärv
  dataset short name: Võrtsjärv in&out

type of dataset (more information): environmental characteristics database
  data type: point data/observation data
  short description of the dataset/summary:
  This database contains the hydrochemical data (different C, P, N, Si forms) that were collected during the target-financed project SF0170011s08 ("Will climate change alter the relative importance of catchment and in-lake processes in the carbon balance of shallow lakes?") from Lake Võrtsjärv. We focus on time series of water samples in intensively monitored main inflows and outflow of Võrtsjärv during six years (2008-2013). Samples were taken at least monthly. Additionally, the database contains information on environmental parameters (T, pH, oxygen, conductivity) measured in the field when water samples were taken. Supplementary hydrological data are separately available and can be linked to the hydrochemical database.

science keywords according to GCMD:
  topic: Terrestrial Hydrosphere
  keywords: water chemistry/water quality, nutrients, surface water, rivers/streams, Vörtsjärv

ISO topic category according to ISO 19115:
  Environment, Inland Waters
### Technical and administrative specifications

<table>
<thead>
<tr>
<th>data format:</th>
<th>Excel</th>
</tr>
</thead>
<tbody>
<tr>
<td>operating system:</td>
<td>all Windows systems</td>
</tr>
<tr>
<td>data language:</td>
<td>English</td>
</tr>
<tr>
<td>current access level:</td>
<td>internal</td>
</tr>
<tr>
<td>web address (URL):</td>
<td>not available</td>
</tr>
<tr>
<td>currently available through GBIF:</td>
<td>no</td>
</tr>
<tr>
<td>exchange planned:</td>
<td>no</td>
</tr>
</tbody>
</table>

**Do you plan to publish the data on the Freshwater Biodiversity Data Portal:**  
yes

**media for data delivery:**  
e-mail

**comments:**  
Data can be sent by e-mail and are free of charge.

**update level:**  
completed

**documentation:**  
<table>
<thead>
<tr>
<th>type:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>language:</td>
<td>English</td>
</tr>
</tbody>
</table>

**contact details:**

**metadata contact person:**  
first, last name: Sirje Vilbaste  
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institution: Centre for Limnology, Estonian University of Life Sciences  
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**technical contact person:**  
first, last name: Peeter Pall  
email: peeter.pall@emu.ee

**scientific contact person:**  
first, last name: Tiina Noges  
email: tiina.noges@emu.ee
Intellectual property rights and citation

dataset publisher (already published): \textit{not published}

dataset creator (data compiler):

- contact name: Sirje Vilbaste
- contact email: sirje.vilbaste@emu.ee
- contact institution: Centre for Limnology, Estonian University of Life Sciences


data contributors to/owners of this dataset:

- number: multiple

provider 1:

- provider institute: Centre for Limnology, Estonian University of Life Sciences
- contact name: Sirje Vilbaste
- contact email: sirje.vilbaste@emu.ee

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

- The dataset needs to be requested from dataset creator with specific conditions of use.

other/additional criteria:

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

provider 2:

- provider institute: Centre for Limnology, Estonian University of Life Sciences
- contact name: Peeter Pall
- contact email: peeter.pall@emu.ee

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

- The dataset needs to be requested from dataset creator with specific conditions of use.

provider 3:

- provider institute: Centre for Limnology, Estonian University of Life Sciences
- contact name: Malle Viik
- contact email: malle.viik@emu.ee

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

- The dataset needs to be requested from dataset creator with specific conditions of use.

citation of this dataset:

- author(s): Vilbaste, S., Pall, P. & Viik, M.
- title: Hydrochemical database of inflows and outflow of Võrtsjärv
- year: 2014

citation of the metadata:

- author(s): Vilbaste S., Pall P. & Viik M.
- year: 2015
- doi (if applicable): https://doi.org/10.15504/fmj.2015.6
General data specifications

regional coverage of the dataset:
   scale of the dataset: national

spatial extent (bounding coordinates):
   southernmost latitude [°]: 58 07 21
   northernmost latitude [°]: 58 24 28
   westernmost longitude [°]: 25 54 34
   easternmost longitude [°]: 26 09 34
   minimum altitude: 31 metres
   maximum altitude: 35 metres
   comments: Estonia

European ecoregions according to Illies (WFD):
   Baltic Province (ER15)
Site specifications

coordinate system/grid data: \( \text{latitude/longitude, format: DMS} \)
  grid data available: \( \text{no} \)
  site coding available: \( \text{no} \)
  alphanumerical

number of sites: \( <100 \)
  exact number of sites: \( 6 \)

comments: \( \text{Five main inflows and outflow of Võrtsjärv} \)
Climate and environmental data

climate related data:

Available per: per catchment

Available parameters:

- Mean annual temperature January, July
  [source: http://www.ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud]
- Mean annual temperature for each month
  [source: http://www.ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud]
- Minimal, maximal and mean winter and summer temperatures
  [source: http://www.ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud]
- Daily air temperatures
  [source: http://www.ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud]
- Mean annual precipitation
  [source: http://www.ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud]
- Winter and summer precipitation
  [source: http://www.ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud]
- Evaporation
  [source: http://www.ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud]
- Mean discharge
  [source: http://www.ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud]

Comments:
Climate related data are separately available at [source: http://www.ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud] and can be linked to the Hydrochemical database.

Environmental data:

Available parameters per catchment:
- Catchment size
  [source: CORINE map]
- Catchment geology
  [source: geological maps]
- Catchment land cover/land use
  [source: CORINE map]
- Population density
- Presence of barriers/dams/reservoirs (fragmentation)
  [source: local database of barriers]
- Hydrological regime/flow regime
  [source: http://www.ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud]

Available parameters per site:
- Catchment land use upstream of sampling site
  [source: CORINE map]
- Distance to next migration barrier upstream
  [source: local database of barriers]
- Distance to next migration barrier downstream
  [source: river mouth]
- Distance to the next lake upstream
  [source: http://register.keskkonnainfo.ee/envreg/main]
- River length
  [source: http://register.keskkonnainfo.ee/envreg/main]
- Distance to source
  [source: www.ilmateenistus.ee/siseveed/vaatlusandmed]
- Distance to mouth
  [source: www.ilmateenistus.ee/siseveed/vaatlusandmed]
- Stream order (according to Strahler)
available parameters per site: slope
available parameters per site: altitude
available parameters per site: hydrological regime/flow regime
available parameters per site: discharge
available parameters per site: mean depth
available parameters per site: substrate composition

comments: Environmental data are separately available in different databases and can be linked to the hydrochemical database.

physico-chemistry data: total P, ortho P, nitrate, nitrite, total N, ammonium, TOC (total organic carbon), oxygen content, water temperature, pH, conductivity

other physico-chemical parameters: TC, TIC, DC, DIC, DOC, DSi

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

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>hydromorphological degradation</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td></td>
</tr>
</tbody>
</table>
Dataset: Hydrochemical database of inflows and outflow of Võrtsjärv

Other specifications

GIS layers, shapes related to the dataset: catchments, river-sub-basins, land use, protected areas

availability of photos: yes
availability of maps: yes

quality control procedures:
Were any quality control procedures applied to your dataset?
no