General information

name of the dataset:
  full name of the dataset: Vortsjarv catchment (Estonia)
  dataset short name: Vortsjarv catchment (Estonia)

type of dataset (more information): species (taxonomic group) per site database including environmental information

data type: point data/observation data, descriptive data

short description of the dataset/summary:

science keywords according to GCMD:
  topic: Biosphere, Biological Classification, Terrestrial Hydrosphere
  keywords: River monitoring, Fish, Macrozoobenthos, Macrophytes, Benthic diatoms, Water chemistry

ISO topic category according to ISO 19115:
  Biota, Environment, Inland Waters
Dataset: Vortjarv catchment (Estonia)

Technical and administrative specifications

data format: Excel
operating system: Win XP
data language: others/specify
  specify: Estonian
current access level: internal
currently available through GBIF: no
  exchange planned: yes
  comments: Annual monitoring reports since 1996.
update level: completed
documentation:
  others/details: no documentation
Do you plan to publish the data on the Freshwater Biodiversity data portal: no

contact details:

  metadata contact person: Sirje Vilbaste
  phone: +372 7311896
  email: sirje.vilbaste@emu.ee
  institution: Centre for Limnology, Estonian University of Life Sciences
  address: Kreutzwaldi 1
  postal code, city: 51014 Tartu
  web address: http://www.emu.ee/

  technical contact person: Sirje Vilbaste
  phone: +372 7311896
  email: sirje.vilbaste@emu.ee

  scientific contact person: Sirje Vilbaste
  email: sirje.vilbaste@emu.ee

comments: Biological data on fish, macrozoobenthos, macrophytes and benthic diatoms is delivered by different investigators.
Intellectual property rights and citation

(if the database is already 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: Henn Timm
- contact email: henn.timm@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 2:
- provider institute: Centre for Limnology, Estonian University of Life Sciences
- contact name: Rein Järvekülg
- contact email: rein.jarvekylg@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: Tiiu Trei
- contact email: tiiu.trei@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 4:
- provider institute: Centre for Limnology, Estonian University of Life Sciences
- contact name: Aive Kõrs
- contact email: aive.kors@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, Sirje
- year: 2014

citation of the metadata:
- author(s): Vilbaste, Sirje
- year: 2014

comments: Annual reports of Monitoring Programme.
General data specifications

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

spatial extend (bounding coordinates):
  southernmost latitude [°]: 57.78
  northernmost latitude [°]: 58.4994444
  westernmost longitude [°]: 25.5916667
  easternmost longitude [°]: 26.4763889
  minimum altitude: 33 metres
  maximum altitude: 120 metres
  countries: Europe: Estonia
Dataset: Vortsjarv catchment (Estonia)

Site specifications

**coordinate system/grid data:** latitude/longitude, format: DMS
- grid data available: no
- site coding available: no

**number of sites:** <100
- exact number of sites: 37

**comments:** Different number of sites (0-24) in different years.
Climate and environmental data

climate related data:
available per: per catchment
available parameters: mean annual temperature January, July
mean annual temperature for each month
daily air temperatures
mean annual precipitation
evaporation

comments: Data are available at:
http://www.ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud/

environmental data:
available parameters per catchment: catchment size
available parameters per catchment: catchment geology
available parameters per catchment: catchment land cover/land use
available parameters per catchment: population density
available parameters per catchment: hydrological regime/flow regime
available parameters per site: distance to the next lake upstream
available parameters per site: river length
available parameters per site: distance to mouth
available parameters per site: stream order (according to Strahler)
available parameters per site: altitude
available parameters per site: current velocity
available parameters per site: mean depth
available parameters per site: substrate composition

comments: Data are available in annual Monitoring Reports.

physico-chemistry data:
total P, ortho P, nitrate, nitrite, total N, ammonium, oxygen content, BOD5
(biochemical oxygen demand), water temperature, pH, substrate

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

comments: Data are available in annual Monitoring Reports

stressors influencing the sites:
reference sites available: no
### Dataset: Vortšjärv catchment (Estonia)

<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>TotP, TotN</td>
</tr>
<tr>
<td>hydromorphological degradation</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>deepening and dams</td>
</tr>
</tbody>
</table>
Biological data

**biological data origin:** from sampling  
**specify project:** National Monitoring Programme

**organism group addressed:** fish, macro-invertebrates (Mollusca, Crayfish, Crabs, Ephemeroptera, Odonata, Plecoptera, Coleoptera, Trichoptera, Chironomidae), (benthic) diatoms, macroalgae, macrophytes

**comments:** Data are in annual reports of national monitoring
Sample specifications/sample resolution

fish:
sample information:
covered timeframe:
year from - to: 1996 - 2013
historical data: no
palaeo data: no
season: summer
temporal resolution/frequency of sampling:
Once or twice during years 1996-2013
time series data: no
taxonomic resolution: species
percentage of species level data: 100
taxonomic coding:
taxalist according to: no reference list
coding system: no coding, just taxa list
sample specifications: semi-quantitative
replicate samples: no
number of samples: 37
specification of method(s) used for sampling and sorting:
Electrofishing.

macro-invertebrates:
sample information:
covered timeframe:
year from - to: 2000 - 2013
historical data: no
palaeo data: no
season: summer
temporal resolution/frequency of sampling:
Once or twice during years 2000-2013
time series data: no
taxonomic resolution: genus, species
percentage of species level data: 15
taxonomic coding:
taxalist according to: no reference list
coding system: no coding, just taxa list
sample specifications: semi-quantitative
replicate samples: no
number of samples: 20
specification of method(s) used for sampling and sorting:
Standardized handnet with 500 mm mesh size (European Committee for Standardization, 1994).
citation:

(benthic) diatoms:
sample information:
<table>
<thead>
<tr>
<th>Dataset: Vortsjarv catchment (Estonia)</th>
</tr>
</thead>
<tbody>
<tr>
<td>covered timeframe:</td>
</tr>
<tr>
<td>year from - to:</td>
</tr>
<tr>
<td>historical data:</td>
</tr>
<tr>
<td>palaeo data:</td>
</tr>
<tr>
<td>season:</td>
</tr>
<tr>
<td>temporal resolution/frequency of sampling:</td>
</tr>
<tr>
<td>time series data:</td>
</tr>
<tr>
<td><strong>taxonomic resolution:</strong></td>
</tr>
<tr>
<td>percentage of species level data:</td>
</tr>
<tr>
<td><strong>taxonomic coding:</strong></td>
</tr>
</tbody>
</table>

**sample specifications:**
- replicate samples: no
- number of samples: 20
- specification of method(s) used for sampling and sorting:
  *Intercalibrated method for epilithic samples.*

**macroalgae:**

**sample information:**
- covered timeframe: 1996 - 2013
- historical data: no
- season: summer
- temporal resolution/frequency of sampling: *Once or twice during years 1996-2013*
- time series data: no
- **taxonomic resolution:** genus, species
- percentage of species level data: 20
- **taxonomic coding:** no reference list
- coding system: no coding, just taxa list

**sample specifications:**
- replicate samples: no
- number of samples: 37
- specification of method(s) used for sampling and sorting:
  *Qualitative sampling along 100 m river section.*

**macrophytes:**

**sample information:**
- covered timeframe: 1996 - 2013
- historical data: no
- palaeo data: no
- season: summer
- temporal resolution/frequency of sampling: *Once or twice during years 1996-2013*
- time series data: no
<table>
<thead>
<tr>
<th><strong>Dataset</strong></th>
<th><strong>Vortsjarv catchment (Estonia)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>taxonomic resolution:</strong></td>
<td>species</td>
</tr>
<tr>
<td>percentage of species level data:</td>
<td>95</td>
</tr>
<tr>
<td><strong>taxonomic coding:</strong></td>
<td></td>
</tr>
<tr>
<td>taxalist according to:</td>
<td>no reference list</td>
</tr>
<tr>
<td>coding system:</td>
<td>no coding, taxa list</td>
</tr>
<tr>
<td><strong>sample specifications:</strong></td>
<td>presence/absence</td>
</tr>
<tr>
<td>replicate samples:</td>
<td>no</td>
</tr>
<tr>
<td>number of samples:</td>
<td>37</td>
</tr>
<tr>
<td>specification of method(s) used for sampling and sorting:</td>
<td>Qualitative sampling along 100 m river section</td>
</tr>
</tbody>
</table>
Dataset: Vortsjarv catchment (Estonia)

Other specifications

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

availability of photos: yes
availability of maps: no

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