



## Metadata

### Vortsjarv catchment (Estonia)

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#### 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:

*Monitoring data from streams on Lake Vortsjarv catchment area dating back 1996. Measured parameters include hydrochemistry, fishes, macrozoobenthos, macrophytes, benthic diatoms, and background data. An overview is given in Arvi Jarvekylg (Ed.) "Eesti Jõed " (Estonian Rivers) 2001. Tartu Ylikooli Kirjastus. 750 pp.*

**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*

## 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:

first, last name: *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: *50014 Tartu*  
web address: *http://www.emu.ee/*

technical contact person:

first, last name: *Sirje Vilbaste*  
phone: *+372 7311896*  
email: *sirje.vilbaste@emu.ee*

scientific contact person:

first, last name: *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*  
*4*

### 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*  
title: *Vortsjärv catchment (Estonia) (1996-2013)*  
year: *2014*

### citation of the metadata:

author(s): *Vilbaste, Sirje*  
title and journal (name, number, pages):  
*Metadata of the Vortsjärv catchment (Estonia) (1996-2013)*  
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*

## Site specifications

<b>coordinate system/grid data:</b>	<i>latitude/longitude, format: DMS</i>
grid data available:	<i>no</i>
site coding available:	<i>no</i>
<b>number of sites:</b>	<i>&lt;100</i>
exact number of sites:	<i>37</i>
<b>comments:</b>	<i>Different number of sites (0-24) in different years.</i>

## Climate and environmental data

### climate related data:

available per: *per catchment*

available parameters:

*mean annual temperature January, July*

*data source: [www.ilmateenistus.ee](http://www.ilmateenistus.ee)*

*mean annual temperature for each month*

*data source: [www.ilmateenistus.ee](http://www.ilmateenistus.ee)*

*daily air temperatures*

*data source: [www.ilmateenistus.ee](http://www.ilmateenistus.ee)*

*mean annual precipitation*

*data source: [www.ilmateenistus.ee](http://www.ilmateenistus.ee)*

*evaporation*

*data source: [www.ilmateenistus.ee](http://www.ilmateenistus.ee)*

comments:

*Data are available at:*

*<http://www.ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud/>*

### environmental data:

available parameters per catchment: *catchment size*

*data source: [www.ilmateenistus.ee](http://www.ilmateenistus.ee)*

available parameters per catchment: *catchment geology*

*data source: [www.ilmateenistus.ee](http://www.ilmateenistus.ee)*

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

*data source: [www.ilmateenistus.ee](http://www.ilmateenistus.ee)*

available parameters per catchment: *population density*

*data source: [www.ilmateenistus.ee](http://www.ilmateenistus.ee)*

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

*data source: <http://www.ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud/>*

available parameters per site: *distance to the next lake upstream*

*data source: <http://www.ilmateenistus.ee>*

available parameters per site: *river length*

*data source: <http://www.ilmateenistus.ee>*

available parameters per site: *distance to mouth*

*data source: <http://www.ilmateenistus.ee>*

available parameters per site: *stream order (according to Strahler)*

available parameters per site: *altitude*

*data source: <http://www.ilmateenistus.ee>*

available parameters per site: *current velocity*

*data source: <http://www.ilmateenistus.ee>*

available parameters per site: *mean depth*

*data source: <http://www.ilmateenistus.ee>*

available parameters per site: *substrate composition*

*data source: <http://www.ilmateenistus.ee>*

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*

stressor	restored sites available	data before/after restoration available	stressor gradient available	comments
eutrophication	no		no	TotP, TotN
hydromorphological degradation	no		no	deepening and dams

## Biological data

**biological data origin:**

specify project:

*from sampling*

*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.

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### 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: Kairo, K., Mols, T., Timm, H., Virro, T. & R. Jarvekylg, 2011, The effect of damming on biological quality according to macroinvertebrates in some estonian streams, Central?Baltic Europe: a pilot study. River Res. Applic. 27: 895-907

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### (benthic) diatoms:

#### **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:** species

percentage of species level data: 95

**taxonomic coding:**

taxalist according to: OMNIDIA

citation: Lecointe C., Coste M. & Prygel J., 1993. ?Omnidia? software for taxonomy, calculation of diatom indices and inventories management. *Hydrobiologia*, 269/270: 509--513.

**sample specifications:** semi-quantitative

replicate samples: no

number of samples: 20

specification of method(s) used for sampling and sorting:  
*Intercalibrated method for epilithic samples.*

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macroalgae:

**sample information:**

covered timeframe:  
year from - to: 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:**

taxalist according to: 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.*

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macrophytes:

**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: 95

**taxonomic coding:**

taxalist according to: *no reference list*

coding system: *no coding, taxa list*

**sample specifications:** *presence/absence*

replicate samples: *no*

number of samples: 37

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

*Qualitative sampling along 100 m river section*

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## 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*