



Metadata

Hydrochemical database of inflows and outflow of Vörtsjärv

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General information

name of the dataset:

full name of the dataset: *Hydrochemical database of inflows and outflow of Vörtsjärv*
dataset short name: *Vörtsjärv 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 Vörtsjärv. We focus on time series of water samples in intensively monitored main inflows and outflow of Vörtsjärv 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, Vortsjarv*

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

Environment, Inland Waters

Technical and administrative specifications

data format: *Excel*
operating system: *all Windows systems*
data language: *English*
current access level: *internal*
web address (URL): *not available*
currently available through [GBIF](#): *no*
exchange planned: *no*

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:

type: *internal description*
language: *English*

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: *51014 Tartu*
web address: *http://www.emu.ee/*

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 published (is already published) *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*
3

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.*
title and journal (name, number, pages): *Hydrochemical database of inflows and outflow of Võrtsjärv. Freshwater Metadata Journal 6: 1-7*
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: *latitude/longitude, format: DMS*
grid data available: *no*
site coding available: *no*
alphanumerical

number of sites: *<100*
exact number of sites: *6*

comments: *Five main inflows and outflow of Vortsjarv*

Climate and environmental data

climate related data:

available per: *per catchment*

available parameters:

mean annual temperature January, July

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

mean annual temperature for each month

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

minimal, maximal and mean winter and summer temperatures

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

daily air temperatures

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

mean annual precipitation

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

winter and summer precipitation

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

evaporation

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

mean discharge

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

comments:

Climate related data are separately available at

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

and can be linked to the Hydrochemical database.

environmental data:

available parameters per catchment: *catchment size*

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

available parameters per catchment: *catchment geology*

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

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

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

available parameters per catchment: *population density*

available parameters per catchment: *presence of barriers/dams/reservoirs (fragmentation)*

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

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

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

available parameters per site: *catchment land use upstream of sampling site*

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

available parameters per site: *distance to next migration barrier upstream*

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

available parameters per site: *distance to next migration barrier downstream*

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

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

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

available parameters per site: *river length*

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

available parameters per site: *distance to source*

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

available parameters per site: *distance to mouth*

<http://data.suimeet.ee/ilmateenistus.ee/ilmatarkus/publikatsioonid/aastaraamatud>

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

available parameters per site: <http://data.sirekeskkonnainfo.ee/envreg/main>
slope

available parameters per site: [www.data.sirekeskkonnainfo.ee/siseveed/vaatlusandmed](http://data.sirekeskkonnainfo.ee/siseveed/vaatlusandmed)
altitude

available parameters per site: [www.data.sirekeskkonnainfo.ee/siseveed/vaatlusandmed](http://data.sirekeskkonnainfo.ee/siseveed/vaatlusandmed)
hydrological regime/flow regime

available parameters per site: [www.data.sirekeskkonnainfo.ee/siseveed/vaatlusandmed](http://data.sirekeskkonnainfo.ee/siseveed/vaatlusandmed)
discharge

available parameters per site: [www.data.sirekeskkonnainfo.ee/siseveed/vaatlusandmed](http://data.sirekeskkonnainfo.ee/siseveed/vaatlusandmed)
mean depth

available parameters per site: <http://data.sirekeskkonnainfo.ee>
Järvalis, A. (Ed). 2001. Estonian Rivers. Tartu Ülikooli Kirjastus. 750 pp.

available parameters per site: *substrate composition*

comments: <http://data.sirekeskkonnainfo.ee>
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:

reference sites available: *no*

stressor	restored sites available	data before/after restoration available	stressor gradient available	comments
eutrophication	no	no	no	
hydromorphological degradation	no	no	no	

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