



## Metadata

# Swedish lakes and Streams database

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Exported from the Freshwater Biodiversity Data Portal, <http://data.freshwaterbiodiversity.eu>  
Visit the Freshwater Metadatabase, [http://data.freshwaterbiodiversity.eu/metadb/about\\_metadata](http://data.freshwaterbiodiversity.eu/metadb/about_metadata)

### General information

#### name of the dataset:

full name of the dataset: *Swedish lakes and Streams 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:

*Swedish monitoring data obtained for the Swedish Environmental Protection Agency (Naturvårdsverket; national data) and Sweden's counties (Länsstyrelsen; regional data). The data are available on-line at <<http://www.slu.se/vatten-miljo>>(downloading of data only in Swedish, otherwise some information on the website is available in English) and are stored in separate databases including one on water chemistry (Databank för vattenkemi) and Phytoplankton (vattentiplankton), benthic algae (Påvattnetsalger (Bentiska kiselalger), zooplankton (djurplankton), macroinvertebrates (bottenfauna). The monitoring is divided into frequent monitoring of water chemistry, phytoplankton and zooplankton (once a month during the open water season, referred to as Trendstationer). Monthly data during the open water season are also available for Sweden's largest lakes Vänern, Vättern and Mälaren. Macroinvertebrates are only sampled once a year. The monitoring of benthic algae is separated from the other monitoring but is currently coordinated with the phytoplankton database. There is also a large database on water chemistry from several thousands of lakes, sampled once a year (omdrevssjöar). Some data are available also for sediments and vegetation.*

#### science keywords according to [GCMD](#):

topic: *Biosphere, Biological Classification, Terrestrial Hydrosphere*

keywords: *Water chemistry, Phytoplankton, Zooplankton, Macroinvertebrates, boreal lakes, large lakes*

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

*Biota, Environment, Inland Waters*

## Technical and administrative specifications

**data format:** *others/specify*  
others/details: *Available on-line*  
**operating system:** *all operating systems*  
**data language:** *Swedish*  
**current access level:** *web (public)*  
web address (URL): *http://www.slu.se/vatten-miljo*  
currently available through [GBIF](#): *no*  
exchange planned:  
comments: *no info on GBIF on web page, thus rather not linked*  
**update level:** *continously updated*

**documentation:**  
type: *others/specify*  
language: *Swedish*  
others/details: *http://www.slu.se/vatten-miljo/datahantering*

### Do you plan to publish the data on the Freshwater Biodiversity data portal:

media for data delivery: *online internet (HTTP)*  
web address: *http://www.slu.se/vatten-miljo*  
others/details: *Original database can be requested by Lars Sonesten (see below) , and Gesa Weyhenmeyer in case Lars is not answering. Some of the data might already be included in dbs such as WISER.*

### contact details:

metadata contact person:  
first, last name: *Lars Sonesten*  
email: *lars.sonesten@slu.se*  
institution: *Sveriges lantbruksuniversitet (SLU) - Institutionen f r Vatten och milj*

technical contact person:  
first, last name: *Lars Sonesten*  
email: *lars.sonesten@slu.se*

scientific contact person:  
first, last name: *Gesa Weyhenmeyer*  
phone: *+46 (0)18-471 2711*  
email: *gesa.weyhenmeyer@ebc.uu.se*

**comments:** *The database is very complex and care has to be taken concerning method changes and missing data. All these things are described on the webpage but unfortunately only in Swedish.*

## Intellectual property rights and citation

(if the database is already published):

### dataset creator (data compiler):

contact name: *SLU - Sveriges lantbruksuniversitet*

contact email: *gesa.veyhenmeyer@ebc.uu.se*

### data contributors to/owners of this dataset:

*single*

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

*The dataset is publicly available (data portal, data archive) and can be used without restrictions, but must be acknowledged and cited correctly.*

other/additional criteria:

*Other criteria may apply when we request the original data!*

### citation of this dataset:

title: *<http://www.slu.se/vatten-miljo> - Sveriges lantbruksuniversitet. Department of Aquatic Sciences and Assessment. (Version \*\*).*

year: *year of access*

version (if applicable): *version number from website*

### citation of the metadata:

comments: *Whenever data are published it should be mentioned that these data have been taken from <http://www.slu.se/vatten-miljo>.*

## **General data specifications**

### **regional coverage of the dataset:**

scale of the dataset:	<i>national</i>
continents:	<i>Europe</i>
countries:	<i>Europe: Sweden</i>

## Site specifications

**coordinate system/grid data:** *projected, local others: Rakx and raky*

comments: *To be studied! More information about coordinate system at  
<[http://www.lantmateriet.se/templates/LMV\\_Page.aspx?id=4766a??=EN](http://www.lantmateriet.se/templates/LMV_Page.aspx?id=4766a??=EN)> -  
Calculation to lat lon at:  
<[http://my-krakatau.mykopat.slu.se/cgi-bin/broker?\\_program=teach.inv\\_me  
nu.sas&\\_service=default](http://my-krakatau.mykopat.slu.se/cgi-bin/broker?_program=teach.inv_menu.sas&_service=default)>*

**number of sites:** *100 - 1000*

## Climate and environmental data

**climate related data:**

**environmental data:**

**physico-chemistry data:**

*total P, ortho P, nitrate, nitrite, total N, ammonium, sulphate, chloride, magnesium, calcium, alkalinity, oxygen content, water temperature, pH, conductivity, chlorophyll, colour, Secchi disc depth*

other physico-chemical parameters *Potassium, Fluoride, Absorbance, Silica, Iron, Manganese, Copper, Zinc, Aluminum (different methods), Cadmium, Lead, Mercury, Chromium, Nickel, Cobalt, Arsenic, Vanadium, Molybdenium, Selenium, Wolfram, (heavy metals)*

## **Biological data**

**biological data origin:**

specify project:

*from sampling*

*monitoring program*

organism group addressed:

*macro-invertebrates, zooplankton, phytoplankton, phytobenthos, (benthic)  
diatoms, macrophytes*

## Sample specifications/sample resolution

### macro-invertebrates:

#### sample information:

historical data: yes

#### taxonomic resolution:

#### taxonomic coding:

#### sample specifications:

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### zooplankton:

#### sample information:

#### taxonomic resolution:

#### taxonomic coding:

#### sample specifications:

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### phytoplankton:

#### sample information:

#### taxonomic resolution:

#### taxonomic coding:

#### sample specifications:

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### phytobenthos:

#### sample information:

#### taxonomic resolution:

#### taxonomic coding:

#### sample specifications:

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### (benthic) diatoms:

#### sample information:

#### taxonomic resolution:

#### taxonomic coding:

#### sample specifications:

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### macrophytes:

#### sample information:

#### taxonomic resolution:

#### taxonomic coding:

#### sample specifications:

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## **Other specifications**

**quality control procedures:**