Metadata

WISER river database (WP5.1)

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: *WISER river database (WP5.1)*

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

specify: *various BQE and environmental measurements*

data type: *point data/observation data*

short description of the dataset/summary:

Compilation of biological occurrence data, environmental variables and CORINE landuse analysis from national river surveys (Germany, France, Austria, Netherlands, Sweden) and the multilateral STAR-project.

science keywords according to GCMD:

topic: *Biological Classification, Land Surface, Terrestrial Hydrosphere*

keywords: *macroinvertebrates, macrozoobenthos, fish, macrophytes, diatoms, phytobenthos, freshwater, river, hydromorphology, physico-chemical parameters, landuse*

ISO topic category according to ISO 19115:

Biota, Environment, Geoscientific Information, Inland Waters

Technical and administrative specifications

data format:	*Access*
others/details:	*MS Access 2003*
operating system:	*all Windows systems*
data language:	*English*
current access level:	*internal*
update level:	*completed*
documentation:	
type:	*internal description*
language:	*English*
Do you plan to publish the data on the Freshwater Biodiversity data portal:	
media for data delivery:	*CD-ROM/DVD*
contact details:	

metadata contact person:	
first, last name:	*Seebacher Martin*
phone:	*++43 1 47654 5220*
email:	*martin.seebacher@boku.ac.at*
institution:	*University of Natural Resources and Applied Life Sciences, Vienna (BOKU)*
address:	*Max - Emanuelstrasse 17*
postal code, city:	*1180 Wien*
country	*Austria*
web address:	*http://www.wau.boku.ac.at/ihg.html*
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Intellectual property rights and citation

(if the database is already published):

dataset creator (data compiler):

contact name:	*several authorities in countries that provided the data*
contact email:	*for specific info please contact Daniel Hering*

data contributors to/owners of this dataset:

single

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

Other/Additional criteria

other/additional criteria: *Data were provided to WISER project partners in the specific countries by several institutions. The data provider are more or less the same as the database owners; for specific information please contact the WISER project leader Prof. Daniel Hering.*

Data provider must be informed of publication 45 days in advance and can object to the use of the dataset within 30 days. Data must be publicly acknowledged and cited correctly.

citation of this dataset:

author(s): *no specific citation available*

citation of the metadata:

comments: *Data were provided to WISER project partners in the specific countries by several institutions. The data provider are more or less the same as the database owners; for specific information please contact the WISER project leader Prof. Daniel Hering*

General data specifications

regional coverage of the dataset:

scale of the dataset:	*catchment*
continents:	*Europe*

spatial extend (bounding coordinates):

southernmost latitude [°]:	*42,4107*
northernmost latitude [°]:	*68,35783*
westernmost longitude [°]:	*-4,24217*
easternmost longitude [°]:	*23,90167*
minimum altitude:	*-6,18 metres*
maximum altitude:	*1679 metres*
countries:	*Europe: Austria, Czech Republic, Denmark, France, Germany, Netherlands, Poland, Slovakia, Sweden, United Kingdom*

Site specifications

coordinate system/grid data:	*latitude/longitude, format: DD*
grid data available:	*no*
other site classification parameters:	
	details on altitude and catchment size available, but not yet classified
site coding available:	*yes*
	alphanumerical
example:	*ATSTOO280*
number of sites:	*>1000*
exact number of sites:	*4349*
comments:	*Site Code: first 2 digits give always country information, rest not unified*

Climate and environmental data

climate related data:

available per: *per site*

available parameters:

mean annual temperature January, July
WISER project partners
Data source:

mean annual temperature for each month
WISER project partners
Data source:

environmental data:

available parameters per catchment: *catchment size*
WISER project partners
Data source:

available parameters per catchment: *catchment geology*
WISER project partners
Data source:

available parameters per catchment: *catchment land cover/land use*
WISER project partners (CORINE)
Data source:

available parameters per catchment: *presence of barriers/dams/reservoirs (fragmentation)*
WISER project partners
Data source:

available parameters per catchment: *hydrological regime/flow regime*
WISER project partners
Data source:

available parameters per site: *catchment land use upstream of sampling site*
WISER project partners
Data source:

available parameters per site: *catchment land use along a buffer strip (100m width on both sides) upstream (10km) of the sampling site*
WISER project partners
Data source:

available parameters per site: *information on riparian vegetation (incl. information on modification)*
WISER project partners
Data source:

available parameters per site: *information on embankment (incl. information on modification)*
WISER project partners
Data source:

available parameters per site: *information on channel form (incl. information on modification)*
WISER project partners
Data source:

available parameters per site: *information on cross section (incl. information on modification)*
WISER project partners
Data source:

available parameters per site: *information on water uses (e.g., irrigation, fish ponds)*
WISER project partners
Data source:

available parameters per site: *distance to next migration barrier upstream*
WISER project partners
Data source:

available parameters per site: *distance to next migration barrier downstream*
WISER project partners
Data source:

available parameters per site: *distance to the next lake upstream*
WISER project partners
Data source:

available parameters per site: *distance to source*
WISER project partners
Data source:

available parameters per site: *slope*
WISER project partners
Data source:

available parameters per site: *altitude*
WISER project partners
Data source:

available parameters per site: *current velocity*
WISER project partners
Data source:

available parameters per site: *mean depth*
WISER project partners
Data source:

available parameters per site: *wetted width*
WISER project partners
available parameters per site: *substrate composition*
WISER project partners
available parameters per site: *information on instream habitat (incl. information on modification)*
WISER project partners
physico-chemistry data: *total P, ortho P, nitrate, nitrite, ammonium, chloride, alkalinity, oxygen content, BOD5 (biochemical oyxgen demand), water temperature, pH, conductivity*

stressors influencing the sites:

reference sites available: *yes*

stressor	restored sites available	data before/after restoration available	stressor gradient available	comments
hydromorphological degradation				
hydrologic stress (e.g. impoundment, flow velocity reduction, hydropeaking, water abstraction, flow velocity increase)				
other stressors				

comments: *hydromorph/hydrolog. stressors specified:*
riparian vegetation modification
artificial embankment
barriers upstream/downstream
water use
instream habitat modification
channel form modification
cross section modification

Biological data

biological data origin:

	general compilation
specify method:	*compilation of several national and international survey data*
organism group addressed:	*fish, macro-invertebrates (Mollusca, Ephemeroptera, Odonata, Plecoptera, Trichoptera, Chironomidae), phytobenthos, (benthic) diatoms, macrophytes*
comments:	*other benthic invertebrate groups also available*

Sample specifications/sample resolution

fish:

sample information:

covered timeframe:	
year from - to:	*1978 - 2008*
historical data:	*no*
palaeo data:	*no*
season:	*spring, summer, autumn, winter*
temporal resolution/frequency of sampling:	
	diverse mix of national monitoring and international project sampling data from participating WISER project partners
time series data:	*no*
comments:	*exact date available*
taxonomic resolution:	*species*
percentage of species level data:	*100*
taxonomic coding:	
taxalist according to:	*Melcher et al. (2009): EU-projects FAME/EFI+/Euro-limpacs/WISER.*
coding system:	*Scientific name*
example:	*Anguilla anguilla*
sample specifications:	*quantitative (abundance data)*
number of samples:	*2627*
specification of method(s) used for sampling and sorting:	
	info on sampling method in database available

macro-invertebrates:

sample information:

covered timeframe:	
year from - to:	*1985 - 2008*
historical data:	*no*
palaeo data:	*no*
season:	*spring, summer, autumn, winter*
temporal resolution/frequency of sampling:	
	diverse mix of national monitoring and international project sampling data from participating WISER project partners
time series data:	*no*
comments:	*exact date available*
taxonomic resolution:	*family, genus, species*
taxonomic coding:	
taxalist according to:	*acc. to www.freshwaterecology.info*
coding system:	*ID-Art (from ECOPROF software www.ecoprof.at)*
example:	*11176*
sample specifications:	*quantitative (abundance data), qualitative*
replicate samples:	*no*
number of samples:	*5154*
specification of method(s) used for sampling and sorting:	
	info on sampling method in database available
sample type (e.g. habitat specific samples, composite samples etc.):	
	info on sampling method in database partly available
other important sample related informations:	
	area per sample available

phytobenthos:

sample information:

covered timeframe:

year from - to: *1996 - 2008*

historical data: *no*

season: *spring, summer, autumn, winter*

temporal resolution/frequency of sampling: *diverse mix of national monitoring and international project sampling data from participating WISER project partners*

time series data: *no*

comments: *exact date available*

taxonomic resolution: *genus, species*

taxonomic coding:

taxalist according to: *Besse-Lototskaya et al (2007): Diatom Indicator Database.*

coding system: *Shortcode*

example: *ABAS*

sample specifications: *quantitative (abundance data)*

number of samples: *1968*

specification of method(s) used for sampling and sorting: *info on sampling method in database available*

other important sample related informations: *phytobenthos and diatoms not separated in the database*

(benthic) diatoms:

sample information:

covered timeframe:

year from - to: *1996 - 2008*

historical data: *no*

palaeo data: *no*

season: *spring, summer, autumn, winter*

temporal resolution/frequency of sampling: *diverse mix of national monitoring and international project sampling data from participating WISER project partners*

time series data: *no*

taxonomic resolution: *genus, species*

taxonomic coding:

taxalist according to: *Besse-Lototskaya et al (2007): Diatom Indicator Database.*

coding system: *Shortcode*

example: *ABAS*

sample specifications: *quantitative (abundance data)*

number of samples: *1968*

other important sample related informations: *phytobenthos and diatoms not separated in the database*

macrophytes:

sample information:

covered timeframe:

year from - to: *1998 - 2008*

historical data: *no*

palaeo data: *no*

season: *spring, summer, autumn*

temporal resolution/frequency of sampling:	*diverse mix of national monitoring and international project sampling data from participating WISER project partners*
time series data:	*no*
comments:	*exact date available*
taxonomic resolution:	*genus, species*
percentage of species level data:	*90*
taxonomic coding:	
taxalist according to:	*Birk, S. et al. (2007): Report on the Central Baltic River GIG Macrophyte Interc*
coding system:	*Shortcode*
example:	*ALOPRA*
sample specifications:	*quantitative (abundance data), qualitative*
number of samples:	*2595*
specification of method(s) used for sampling and sorting:	*info on sampling method in database available*

Other specifications

GIS layers, shapes related to the dataset:

catchments, river-sub-basins
land use
others/specify

availability of photos: *no*

availability of maps: *yes*

quality control procedures:

Were any quality control procedures applied to your dataset?

yes

quality control protocols and comments:

QC in most countries available, so this is integrated in the data