

Metadata Restoration database UDE



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: Restoration database UDE

type of dataset (more information): others

specify: Restoration database data type: point data/observation data

short description of the dataset/summary:

Data collection of the Department of Aquatic Ecology, University of Duisburg-Essen based investigations of restored and paired degraded

sample sections.

science keywords according to GCMD:

topic: Biosphere, Terrestrial Hydrosphere

keywords: Restorated sites, macroinvertebrates, fishes, macrophytes, floodplain

vegetation, carabid beetles

ISO topic category according to ISO 19115:

Biota, Environment, Inland Waters

Technical and administrative specifications

data format:

operating system:

current access level:

currently available through GBIF:

exchange planned:

no

update level: continously updated

documentation:

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

no

contact details:

metadata contact person:

first, last name: Kathrin Januschke

email: kathrin.januschke@uni-due.de

institution: Universtität Duisburg-Essen, Faculty of Biology, Aquatic Ecology

address: Universitätsstrasse 5

postal code, city: 45141 Essen country Deutschland

web address: http://www.uni-due.de/aquatic_ecology

technical contact person:

first, last name: Kathrin Januschke

email: kathrin.januschke@uni-due.de

scientific contact person:

first, last name: Daniel Hering

email: daniel.hering@uni-due.de

comments: [Metadata were harvested from the WISER metadatabase

(http://www.wiser.eu/results/meta-database/details.php?id1=103&id2=109)

by the BioFresh team.]

Intellectual property rights and citation

(if the database is already published):

dataset creator (data compiler):

contact name: Kathrin Januschke

contact email: kathrin.januschke@uni-due.de

contact institution: Department of Aquatic Ecology, University of Duisburg-Essen

data contributors to/owners of this dataset:

single

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

Other/Additional criteria

other/additional criteria: Compilation of several national restoration projects, licenses have to be

given by project leaders.

citation of this dataset:

title: http://www.wiser.eu - Water Bodies in Europe: Integrative Systems to

assess Ecological status and Recovery (Version **).

year: year of access

version (if applicable): version number from website

citation of the metadata:

General data specifications

regional coverage of the dataset:

scale of the dataset: national continents: Europe

spatial extend (bounding coordinates):

southernmost latitude [°]: 47.299098
northernmost latitude [°]: 54.940931
westernmost longitude [°]: 5.688965
easternmost longitude [°]: 15.189453
minimum altitude: -4 metres
maximum altitude: 2962 metres

countries: Europe: Germany

Site specifications

coordinate system/grid data: latitude/longitude, format: DM

datum (e.g. WGS84): WGS84
site coding: numerical

number of digits: 3

number of sites: 100 - 1000

exact number of sites: 156

Climate and environmental data

climate related data: no data available

environmental data:

available parameters per catchment: catchment size

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

for dataes sections; based on CORINE landcover

available parameters per site: information on embankment (incl. information on modification)

modatialsoialcsurveys on cross sections

available parameters per site: information on channel form (incl. information on modification)

modahalsoialcsurveys on cross sections

available parameters per site: information on cross section (incl. information on modification)

modaltalsoialcsurveys on cross sections

available parameters per site: altitude

available parameters per site: current velocity

modatialsoialcsurveys on cross sections; current classes

available parameters per site: maximum depth

modahalsoialcsurveys on cross sections

available parameters per site: mean depth

modatialsoialcsurveys on cross sections

available parameters per site: wetted width

modatialsoialcsurveys on cross sections

available parameters per site: substrate composition

modahalsoialcsurveys on cross sections

available parameters per site: information on instream habitat (incl. information on modification)

modations modations

physico-chemistry data: nitrate, nitrite, ammonium, oxygen content, water temperature, pH,

conductivity

other physico-chemical parameters: For some sections available

stressors influencing the sites:

reference sites available: no

stressor	restored sites available	data before/after restoration available	stressor gradient available	comments
hydromorphological degradation	yes	yes		Biology (AQEM)

Biological data

biological data origin:

general compilation

specify method: Compilation of several national restoration projects

organism group addressed: terrestrial invertebrates (Carabidae), fish, macro-invertebrates,

macrophytes, angiosperms (riparian vegetation)

Sample specifications/sample resolution

terrestrial invertebrates:

sample information:

covered timeframe:

year from - to: 2005 - 2014

historical data: no season: summer temporal resolution/frequency of sampling:

per year

time series data: yes

comments: for some sections time series data

taxonomic resolution: species percentage of species level data: 100

taxonomic coding:

taxalist according to: Fauna Europaea sample specifications: semi-quantitative

replicate samples: yes number of samples: 166

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

Combination of pitfall traps (vegetated zones) and hand sampling (unvegetated zones); pitfall traps (4 cm diameter, 8.5 cm depth, 200 ml volume), filled with 100 ml Renner-solution (Renner 1980) and a detergent

to reduce surface tension

specific sample location (e.g. littoral, profundal, transect, shoreline, hyporheic zone, etc.):

6 to 8 pitfalls in vegetated zones, 6 to 8 handsamplings in unvegetated

zones

fish:

sample information:

covered timeframe:

year from - to: 2003 - 2014

historical data: no palaeo data: no

season: summer, autumn

temporal resolution/frequency of sampling:

per year

time series data: yes

comments: For some sections time series data

taxonomic resolution: species percentage of species level data: 100

taxonomic coding:

taxalist according to: Diekmann et al. (2005)

coding system: serially numbered according to fiBS

sample specifications: qualitative number of samples: 227

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

Standardized electro fishing following the European Waterframework

Directive, Diekmann et al. (2005)

macro-invertebrates:

sample information:

covered timeframe:

year from - to: 2000 - 2014

historical data: no palaeo data: no

season: spring, summer

temporal resolution/frequency of sampling:

per year

time series data: yes

comments: For some sections time series data

taxonomic resolution: genus, species

percentage of species level data: 80

taxonomic coding:

taxalist according to: Meier et al. (2006)
coding system: ID AQEM, DV
sample specifications: semi-quantitative

replicate samples: no number of samples: 313

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

composite samples (e.g. MHS) following the European Waterframework

Directive

macrophytes:

sample information:

covered timeframe:

year from - to: 2005 - 2014

historical data: no
palaeo data: no
season: summer
temporal resolution/frequency of sampling:

per year

time series data: yes

comments: For some sections time series data

taxonomic resolution: species percentage of species level data: 95

taxonomic coding:

coding system: serially numbered according to PHYLIB

sample specifications: semi-quantitative

number of samples: 173

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

PHYLIB supplemented by a method from Hesse

angiosperms:

sample information:

covered timeframe:

year from - to: 2005 - 2013 season: summer temporal resolution/frequency of sampling:

per year

time series data: yes

comments: For some sections time series data

Dataset: Restoration database UDE

taxonomic resolution: species, other other taxonomic levels: vegetation units

percentage of species level data: 99

taxonomic coding:

taxalist according to: Ellenberg (1996), Oberdorfer (1992)

sample specifications: semi-quantitative

replicate samples: yes number of samples: 148

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

Transect-based grab-sampling: length of vegetation units was measured along 3 transects per site; for each vegetation unit present in a site, coverage of plant species was recorded at three sample plots (2x3m).

Other specifications

GIS layers, shapes related to the dataset:

no data available

availability of photos: yes availability of maps: yes

quality control procedures:

Were any quality control procedures applied to your dataset?

yes

comments: For about 50% of the sites photos are available at University of

Duisburg-Essen. For about 75% of the sites the database contains URL's to GoogleMaps, which show the exact location of the respective site.