General information

name of the dataset:

    full name of the dataset: *Restoration measures in three rivers of the basement rocks*

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:

    Investigations of restored and degraded sections of the river Ruhr, Dill and Nette

science keywords according to GCMD**:**

    topic: *Biosphere*

ISO topic category according to ISO 19115**:**

    Biota, Inland Waters

Technical and administrative specifications

data format:	*Access*
operating system:	*Win 7*
data language:	*English*
current access level:	*internal*
currently available through GBIF:	*no*
exchange planned:	*no*
update level:	*update planned*
documentation:	

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

	no
media for data delivery:	*online internet (HTTP)*

contact details:

   metadata contact person:

first, last name:	*Kathrin Januschke*
phone:	*+49 (201) 1833113*
email:	*kathrin.januschke@uni-due.de*
institution:	*Department of Aquatic Ecology, University of Duisburg-Essen*
postal code, city:	*45141 Essen*
province, state:	*North Rhine-Westphalia*

   technical contact person:
   scientific contact person:

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: *Data cannot be used in publication.*

citation of this dataset:

citation of the metadata:

General data specifications

regional coverage of the dataset:

    scale of the dataset: *regional*

continents: *Europe*

    countries: *Europe: Germany*

Site specifications

coordinate system/grid data: *projected, local others: DHDN_3_Degree_Gauss_Zone_3*
   datum (e.g. WGS84): *DHDN*
   grid data available: *no*
   comments: *Bessel_1841*
other site classification parameters:
   Floodplain type (Koenzen, 2005): Gefaellereiche Flussaue des Grundgebirges (Schotter)

number of sites: *<100*
   exact number of sites: *5*

Climate and environmental data

climate related data:	*no data available*
environmental data:	*no parameter data per catchment available*
available parameters per site:	*information on riparian vegetation (incl. information on modification)* *data source: vegetation surveys*
available parameters per site:	*information on embankment (incl. information on modification)* *data source: transect-based habitat data*
available parameters per site:	*information on channel form (incl. information on modification)* *data source: transect-based habitat data*
available parameters per site:	*information on cross section (incl. information on modification)* *data source: transect-based habitat data*
available parameters per site:	*altitude* *data source: GIS*
available parameters per site:	*current velocity* *data source: transect-based current data using a 5-point scale (100 data points per sample)*
available parameters per site:	*maximum depth* *data source: transect-based habitat data*
available parameters per site:	*mean depth* *data source: transect-based habitat data*
available parameters per site:	*substrate composition* *data source: transect-based habitat data*
available parameters per site:	*information on instream habitat (incl. information on modification)* *data source: transect-based habitat data*
comments:	*Vegetataion data for 4 sites available*
physico-chemistry data:	*oxygen content, water temperature, pH, conductivity*
other physico-chemical parameters	*not available for all samples*

stressors influencing the sites:

reference sites available: *no*

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

comments: *2 restored sites, each with a non-restored site located upstream + 1 restored site without paired site*

Biological data

biological data origin: *from sampling*
  specify project: *project FKZ 3507 85 050-K1*

organism group addressed: *terrestrial invertebrates, macrophytes, other group(s): riparian vegetation*

Sample specifications/sample resolution

<u>terrestrial invertebrates:</u>
sample information:
   covered timeframe:
   year from - to: *2008 - 2008*
   historical data: *no*
   season: *summer*
   time series data: *no*
taxonomic resolution: *species*
   percentage of species level data: *100*
taxonomic coding:
   taxalist according to: *Fauna Europaea*
sample specifications: *semi-quantitative*
   replicate samples: *no*
   number of samples: *3*
   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.
   sample type (e.g. habitat specific samples, composite samples etc.):
                     6 pitfalls in vegetated zones, 6 handsamplings in unvegetated zones

<u>macrophytes:</u>
sample information:
   covered timeframe:
   year from - to: *2008 - 2008*
   historical data: *no*
   palaeo data: *no*
   season: *summer*
   temporal resolution/frequency of sampling:
                     one-time sampling at 2 sites
   time series data: *no*
taxonomic resolution: *species*
   percentage of species level data: *100*
taxonomic coding:
   taxalist according to: *Schaumburg et al., 2004*
sample specifications: *semi-quantitative*
   replicate samples: *no*
   number of samples: *2*
   specification of method(s) used for sampling and sorting:
                     WFD method (Phylib)

<u>other group(s):</u>
sample information:
   covered timeframe:
   year from - to: *2008 - 2008*
   season: *summer*
   temporal resolution/frequency of sampling:
                     one-time sampling at 4 sites

time series data:	*no*
comments:	*Riparian vegetation*
taxonomic resolution:	*species, other*
other taxonomic levels:	*vegetation unit*
percentage of species level data:	*100*
taxonomic coding:	
taxalist according to:	*Ellenberg (1996)*
sample specifications:	*semi-quantitative*
replicate samples:	*no*
number of samples:	*4*

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: *no*

quality control procedures:

Were any quality control procedures applied to your dataset?

yes