SUPPORTED BY

General information

name of the dataset:

    full name of the dataset: *Restoration measures in lowland rivers*

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 rivers Gartroper Mühlenbach, Niers and Schwalm

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-Westfalia*

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*
 comments: *Bessel_1841*
other site classification parameters:

          Floodplain type (Koenzen, 2005): 5 sites Gefaellearme Flussaue des
          Flach- und Huegellandes (teilmineralisch-organisch), 2 sites Gefaellearme
          Flussaue des Flach- und Huegellandes (Sand)

number of sites: *<100*
 exact number of sites: *7*

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:	*wetted width*
	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*
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	yes	

Biological data

biological data origin: *from sampling*

   specify project: *PhD thesis Andreas Schattmann, project FK 25032-33/2 and 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: *2005 - 2008*
   historical data: *no*
   season: *summer*
   temporal resolution/frequency of sampling:
                                      one-time samplings of 2 sites in 2005 (Niers R1), 2 sites in 2007 (Niers R2) and 4 sites in 2008 (Schwalm+Gartroper Mühlenbach))
   time series data: *no*
taxonomic resolution: *species*
   percentage of species level data: *100*
   comments: *Carabid beetles*
taxonomic coding:
   taxalist according to: *Fauna Europaea*
sample specifications: *semi-quantitative*
   replicate samples: *no*
   number of samples: *6*
   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: *2007 - 2007*
   historical data: *no*
   palaeo data: *no*
   season: *summer*
   temporal resolution/frequency of sampling:
                                      per year
   time series data: *no*
taxonomic resolution: *species*
   percentage of species level data: *100*
   comments: *except for Callitriche*
taxonomic coding:
   taxalist according to: *Schaumburg et al., 2004*
sample specifications: *semi-quantitative*
   replicate samples: *no*
   number of samples: *5*
   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*
historical data:	*no*
season:	*summer*
temporal resolution/frequency of sampling:	
	per year
time series data:	*no*
comments:	*Riparian vegetation*
taxonomic resolution:	*species, other*
other taxonomic levels:	*vegetation units*
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