General information

name of the dataset:
  full name of the dataset: Passive restorations of mid-sized mountain 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 Bröl, Eder, Nims and Orke, Hesse, Germany

science keywords according to GCMD:
  topic: Biosphere

ISO topic category according to ISO 19115:
  Biota, Inland Waters
Dataset: Passive restorations of mid-sized mountain rivers

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: completed
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
   phone: +49 (201) 1833113
   email: kathrin.januschke@uni-due.de
   institution: Department of Aquatic Ecology, University of Duisburg-Essen
   postal code, city: 45414 Essen

   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

data contributors to/owners of this dataset:
  number: multiple
  provider 1:
    provider institute: IGB - Leibniz-Institute for Freshwater Ecology and Inland Fisheries
    contact name: Sonja C. Jähnig
    contact email: sonja.jaehnig@igb-berlin.de
    criteria for using the data in a publication/scientific analysis: The dataset needs to be requested from dataset creator with specific conditions of use.

  provider 2:
    provider institute: Department of Aquatic Ecology, University of Duisburg-Essen
    contact name: Kathrin Januschke
    contact email: kathrin.januschke@uni-due.de
    criteria for using the data in a publication/scientific analysis: The dataset needs to be requested from dataset creator with specific conditions of use.

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): 6 sites Gefaellereiche Flussaue des Grundgebirges (Schotter), 2 sites Gefaellereiche Flussaue des Deckgebirges (Sand_Kies)*

**number of sites:**
- <100
- exact number of sites: *8*
Climate and environmental data

climate related data: no data available

environmental data:
available parameters per catchment: catchment land cover/land use
CORINE data source:
available parameters per site: information on riparian vegetation (incl. information on modification)
vegetation surveys
available parameters per site: information on embankment (incl. information on modification)
transect-based habitat data
available parameters per site: information on channel form (incl. information on modification)
transect-based habitat data
available parameters per site: information on cross section (incl. information on modification)
transect-based habitat data
available parameters per site: altitude
GIS data source:
available parameters per site: current velocity
transect-based current data using a 5-point scale (100 data points per sample)
available parameters per site: maximum depth
transect-based habitat data
available parameters per site: mean depth
transect-based habitat data
available parameters per site: wetted width
transect-based habitat data
available parameters per site: substrate composition
transect-based habitat data
available parameters per site: information on instream habitat (incl. information on modification)
transect-based habitat data
physico-chemistry data:
oxygen content, water temperature, pH, conductivity
availability of physico-chemical data, if there is more than one sample per site:
per sample

stressors influencing the sites:
reference sites available: no

<table>
<thead>
<tr>
<th>stressor</th>
<th>restored sites available</th>
<th>data before/after restoration available</th>
<th>stressor gradient available</th>
<th>comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydromorphological degradation</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
<td>passive restoration since 2000</td>
</tr>
</tbody>
</table>

comments: 4 passively restored sites and 4 upstream located non-restored sites
Dataset: Passive restorations of mid-sized mountain rivers

Biological data

biological data origin: from sampling

organism group addressed: terrestrial invertebrates (Carabidae), macrophytes, other group(s): riparian vegetation
### Sample specifications/sample resolution

**terrestrial invertebrates:**

**sample information:**
- covered timeframe: 2005 - 2005
- historical 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: Carabid beetles

**taxonomic coding:**
- taxalist according to: Fauna Europaea

**sample specifications:**
- semi-quantitative
- replicate samples: no
- number of samples: 8
- 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

**macrophytes:**

**sample information:**
- covered timeframe: 2008 - 2008
- 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: 99
- comments: except for Callitriche

**taxonomic coding:**
- taxalist according to: Schaumburg et al., 2004

**sample specifications:**
- semi-quantitative
- replicate samples: no
- number of samples: 6
- specification of method(s) used for sampling and sorting:
  - WFD method (Phylib)

**other group(s):**

**sample information:**
- covered timeframe:
### Dataset: Passive restorations of mid-sized mountain rivers

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
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<td>2005 - 2005</td>
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<tr>
<td>historical data:</td>
<td>no</td>
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<tr>
<td>season:</td>
<td>summer</td>
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<td>temporal resolution/frequency of sampling:</td>
<td>per year</td>
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<td>time series data:</td>
<td>no</td>
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<tr>
<td>comments:</td>
<td>Riparian and floodplain vegetation</td>
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<tr>
<td><strong>taxonomic resolution:</strong></td>
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<tr>
<td>species, other</td>
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<td>vegetation units</td>
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<td>percentage of species level data:</td>
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<td>comments:</td>
<td>Carabid beetles</td>
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<td><strong>taxonomic coding:</strong></td>
<td></td>
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<tr>
<td>taxalist according to:</td>
<td>Ellenberg (1996)</td>
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<td><strong>sample specifications:</strong></td>
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<td>replicate samples:</td>
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<tr>
<td>number of samples:</td>
<td>8</td>
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<tr>
<td>specification of method(s) used for sampling and sorting:</td>
<td>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).</td>
</tr>
</tbody>
</table>
Dataset: Passive restorations of mid-sized mountain rivers

Other specifications

GIS layers, shapes related to the dataset: no data available
availability of photos: yes
availability of maps: no
quality control procedures: © BioFresh - Funded by the European Union under the 7th Framework Programme - contract no. 226874