General information

**name of the dataset:** Restoration in the river Kinzig

**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 a restored and a degraded section of the river Kinzig*

**science keywords according to GCMD:**

- topic: Biosphere

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

- Biot, Inland Waters
## Technical and administrative specifications

<table>
<thead>
<tr>
<th>data format:</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>operating system:</td>
<td>all Windows systems</td>
</tr>
<tr>
<td>data language:</td>
<td>English</td>
</tr>
<tr>
<td>current access level:</td>
<td>internal</td>
</tr>
<tr>
<td>update level:</td>
<td>update planned</td>
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</tbody>
</table>

Do you plan to publish the data on the Freshwater Biodiversity data portal: no

### contact details:

<table>
<thead>
<tr>
<th>metadata contact person:</th>
<th>Kathrin Januschke</th>
</tr>
</thead>
<tbody>
<tr>
<td>first, last name:</td>
<td></td>
</tr>
<tr>
<td>phone:</td>
<td>+49 (201) 1833113</td>
</tr>
<tr>
<td>email:</td>
<td><a href="mailto:kathrin.januschke@uni-due.de">kathrin.januschke@uni-due.de</a></td>
</tr>
<tr>
<td>institution:</td>
<td>Department of Aquatic Ecology, University of Duisburg-Essen</td>
</tr>
<tr>
<td>postal code, city:</td>
<td>45141 Essen</td>
</tr>
<tr>
<td>country</td>
<td>Germany</td>
</tr>
</tbody>
</table>

| 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:

- number: multiple
- provider 1:
  - provider institute: Senckenberg Research Institute and Natural History Museum Frankfurt
  - contact name: Peter Haase
  - contact email: Peter.Haase@senckenberg.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: 
  - contact name: 
  - contact email: 
  - 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:
Dataset: Restoration in the river Kinzig

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, others others: DHDN_3_Degree_Gauss_Zone_3

datum (e.g. WGS84): D_Deutsches_Hauptdreiecksnetz

grid data available: no

other site classification parameters:
Floodplain type (Koenzen, 2005): Gefaellearme Flussaue des Deckgebirges (Sand-Kies)

number of sites: <100

exact number of sites: 2

comments: one restored and 1 non-restored site
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
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 current data using a 5-point scale  (100 data points per sample)
available parameters per site:  mean depth
  data source:  transect-based current data using a 5-point scale  (100 data points per sample)
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 current data using a 5-point scale  (100 data points per sample)
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></td>
</tr>
</tbody>
</table>
Dataset: Restoration in the river Kinzig

**Biological data**

**biological data origin:** from sampling

**organism group addressed:** terrestrial invertebrates, macrophytes, other group(s): Ripariian vegetation
Dataset: Restoration in the river Kinzig

Sample specifications/sample resolution

terrestrial invertebrates:

sample information:
covered timeframe:
year from - to: 2010 - 2010
historical data: no
season: summer
temporal resolution/frequency of sampling:
time series data: no
comments: Carabid beetles
taxonomic resolution: species
percentage of species level data: 100
taxonomic coding:
taxalist according to: Fauna Europaea
sample specifications:
replicate samples: no
number of samples: 2
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:
year from - to: 2008 - 2008
historical data: no
colaeo data: no
season: summer
temporal resolution/frequency of sampling:
time series data: no
taxonomic resolution: species
percentage of species level data: 100
taxonomic coding:
taxalist according to: Schaumburg et al., 2004
sample specifications:
replicate samples: no
number of samples: 2
specification of method(s) used for sampling and sorting:
WFD method (Phylib)

other group(s):

sample information:
covered timeframe:
year from - to: 2010 - 2010
**Dataset: Restoration in the river Kinzig**

<table>
<thead>
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<th>Characteristic</th>
<th>Value</th>
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</thead>
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<td>historical data:</td>
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<tr>
<td>season:</td>
<td>summer</td>
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<tr>
<td>temporal resolution/frequency of sampling:</td>
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<tr>
<td>time series data:</td>
<td>no</td>
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<tr>
<td><strong>taxonomic resolution:</strong></td>
<td>species</td>
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<tr>
<td>percentage of species level data:</td>
<td>100</td>
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<tr>
<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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<tr>
<td>replicate samples:</td>
<td>no</td>
</tr>
<tr>
<td>number of samples:</td>
<td>2</td>
</tr>
<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, plant species were recorded at three sample plots (2x3m).</td>
</tr>
</tbody>
</table>
Dataset: *Restoration in the river Kinzig*

**Other specifications**

GIS layers, shapes related to the dataset: no data available

Availability of photos: yes

Quality control procedures:
  Were any quality control procedures applied to your dataset?
  yes