Monitoring data from the federal state North Rhine-Westphalia (Germany)

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: Monitoring data from the federal state North Rhine-Westphalia (Germany)
  dataset short name: Monitoring data North Rhine-Westphalia (Germany)

type of dataset (more information):
  data type: species distribution data
  short description of the dataset/summary: The dataset consists of occurrence data of the aquatic organism groups fish, macroinvertebrates and macrophytes that were sampled in the German federal state North Rhine-Westphalia between 2004 and 2009. The sampling was conducted according to the protocols of the national monitoring programme for implementation of the Water Framework Directive.

science keywords according to GCMD:
  topic: Biosphere
  keywords: Monitoring data, Water Framework Directive, Fish, Macroinvertebrates, Macrophytes

ISO topic category according to ISO 19115:
  Biota, Inland Waters
Technical and administrative specifications

data format: Excel
operating system: all operating systems
data language: German
current access level: restricted access
currently available through GBIF: no
   exchange planned: no
   comments:
   This data will be available through the BioFresh data portal.
   No claim is made that the data gives a complete picture of occurrence
   since the sampling stations in the dataset do not cover all waterbodies. The
   resource creator does not guarantee for the correctness of the data.
update level: update planned
documentation:
   type: internal description
   language: German
Do you plan to publish the data on the Freshwater Biodiversity data portal:
   media for data delivery: e-mail
contact details:
   metadata contact person: Veronica Dahm
   first, last name: Veronica Dahm
   phone: (+49)2011834724
   email: veronica.dahm@uni-due.de
   institution: University of Duisburg-Essen
   address: Universitätstrasse 5
   postal code, city: 45141 Essen
   province, state: North Rhine-Westphalia
   country: Germany
   technical contact person: Veronica Dahm
   first, last name: Veronica Dahm
   phone: (+49)2011834724
   email: veronica.dahm@uni-due.de
   scientific contact person: Norbert Kirchhoff
   first, last name: Norbert Kirchhoff
   phone: (+49)571808203
   email: norbert.kirchhoff@lanuv.nrw.de
   comments: Address of scientific contact person:
   Landesamt für Natur, Umwelt und Verbraucherschutz NRW (LANUV), FB 55,
   Leibnizstraße 10, 45659 Recklinghausen, Germany
**Intellectual property rights and citation**

<table>
<thead>
<tr>
<th>dataset publisher</th>
<th>is already published: BioFresh</th>
</tr>
</thead>
<tbody>
<tr>
<td>dataset creator (data compiler):</td>
<td>Landesamt für Natur, Umwelt und Verbraucherschutz NRW (LANUV)</td>
</tr>
<tr>
<td>contact name:</td>
<td>Leibnizstraße 10, 45659 Recklinghausen, Germany; <a href="mailto:norbert.kirchhoff@lanuv.nrw.de">norbert.kirchhoff@lanuv.nrw.de</a></td>
</tr>
<tr>
<td>contact email:</td>
<td><a href="mailto:norbert.kirchhoff@lanuv.nrw.de">norbert.kirchhoff@lanuv.nrw.de</a></td>
</tr>
</tbody>
</table>

**data contributors to/owners of this dataset:**

- single

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

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but must be acknowledged and cited correctly.

**citation of this dataset:**

| author(s):                  | Landesamt für Natur, Umwelt und Verbraucherschutz NRW (LANUV) |
| title:                     | River monitoring data from the federal state North Rhine-Westphalia (Germany) of the years 2004 - 2009. |
| year:                      | 2011 |
| doi (if applicable):       | http://dx.doi.org/10.13148/bfe91 |

**citation of the metadata:**

**comments:**

No claim is made that the data gives a complete picture of occurrence since the sampling stations in the dataset do not cover all waterbodies. The resource creator does not guarantee for the correctness of the data.
General data specifications

regional coverage of the dataset:
  scale of the dataset: regional
  continents: Europe

spatial extend (bounding coordinates):
  southernmost latitude [°]: 50.3
  northernmost latitude [°]: 52.6
  westernmost longitude [°]: 5.8
  easternmost longitude [°]: 9.5
  minimum altitude: 9.8 metres
  maximum altitude: 600 metres
  countries: Europe: Germany
  comments: Federal state North Rhine-Westphalia
### Site specifications

<table>
<thead>
<tr>
<th>coordinate system/grid data:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>datum (e.g. WGS84):</td>
<td>WGS84</td>
</tr>
<tr>
<td>grid data available:</td>
<td>no</td>
</tr>
<tr>
<td>site coding available:</td>
<td>yes</td>
</tr>
<tr>
<td>example:</td>
<td>NW_500045</td>
</tr>
</tbody>
</table>

**number of sites:**

- >1000
- exact number of sites: 2561
Biological data

**biological data origin:** from sampling

**specify project:** WFD operational monitoring

**organism group addressed:** fish, macro-invertebrates, macrophytes
**Sample resolution**

**fish:**
- **taxonomic resolution:** species
- **percentage of species level data:** 100
- **taxonomic coding:**
  - taxalist according to: Bayerisches Landesamt für Umwelt: Taxaliste der Gewässerorganismen Deutschlands
  - coding system: DV_NR
  - example: 9020

**macro-invertebrates:**
- **taxonomic resolution:** family, genus, species
- **percentage of species level data:** 65
- **comments:** Percentage is an approximate value.
- **taxonomic coding:**
  - taxalist according to: Perlodes: Operationelle Taxaliste (Version Mai 2011)
  - coding system: ID_ART
  - example: 5095

**macrophytes:**
- **taxonomic resolution:** genus, species
- **percentage of species level data:** 75
- **comments:** Percentage is an approximate value.
- **taxonomic coding:**
  - taxalist according to: Bayerisches Landesamt für Umwelt: Taxaliste der Gewässerorganismen Deutschlands
  - coding system: DV_NR
  - example: 2258
Other specifications

GIS layers, shapes related to the dataset:  

\textit{no data available}

quality control procedures:  

\begin{itemize}
  \item Were any quality control procedures applied to your dataset?
  \begin{itemize}
    \item yes
  \end{itemize}
\end{itemize}