General information

name of the dataset:
full name of the dataset: National Monitoring Austria (GZUEV) macro invertebrates, benthic algae
type of dataset (more information): species (taxonomic group) per site database including environmental information
data type: point data/observation data

science keywords according to GCMD:
topic: Biosphere, Biological Classification, Terrestrial Hydrosphere
keywords: Monitoring; Macroinvertebrates; Benthic algae; WFD

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

data format: special software versions
others/details: Ecoprof (based on Access)
operating system: Win NT
others/details: and higher
data language: German
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:

contact details:

metadata contact person: 
institution: BOKU - University of Natural Resources and Life Sciences
address: Max Emanuel-Strasse 17
postal code, city: 1180 Vienna
country: Austria
web address: http://www.wau.boku.ac.at/ihg.html

technical contact person:
first, last name: Martin Seebacher
phone: 0043 1 47654 5220
email: martin.seebacher@boku.ac.at

scientific contact person:
first, last name: Astrid Schmidt-Kloiber
phone: 0043 1 47654 5225
email: astrid.schmidt-kloiber@boku.ac.at

comments: [Metadata were harvested from the WISER metadatabase (http://www.wiser.eu/results/meta-database/details.php?id1=10&id2=25) by the BioFresh team.]
Intellectual property rights and citation

(if the database is already published):

**dataset creator (data compiler):**

**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 provider must be informed of publication 45 days in advance and can object to the use of the dataset within 30 days. Data must be publicly acknowledged and cited correctly.

**citation of this dataset:**

**title:**

http://www.wiser.eu - Water Bodies in Europe: Integrative Systems to assess Ecological status and Recovery (Version **).

**year:**

year of access

**version (if applicable):**

version number from website

**citation of the metadata:**
General data specifications

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

spatial extend (bounding coordinates):
  southernmost latitude [°]: 49.042666
  northernmost latitude [°]: 46.333158
  westernmost longitude [°]: 9.556152
  easternmost longitude [°]: 17.013184
  minimum altitude: 115 metres
  maximum altitude: 3798 metres
  countries: Europe: Austria

comments: There are also GZUEV data from 2005 available.
Site specifications

**coordinate system/grid data:**
- comments: Coordinates: UTM transformation possible.

**site coding:**
- site coding available: yes
- alphanumerical
- number of digits: 10
- example: FW10000027

**number of sites:**
- 100 - 1000
- exact number of sites: 165

**comments:** Waterbody: no waterbody information available right now, but can be generated from GIS layers if necessary.
Climate and environmental data

climatic and environmental data:

- Available parameters per catchment: catchment size
- Available parameters per site: information on water uses (e.g., irrigation, fish ponds)
- Available parameters per site: stream order (according to Strahler)
- Available parameters per site: altitude
- Available parameters per site: current velocity
- Available parameters per site: maximum depth
- Available parameters per site: mean depth
- Available parameters per site: wetted width
- Available parameters per site: substrate composition

physico-chemistry data:

- Total P, water temperature, pH, conductivity
- Other physico-chemical parameters: Other chemical parameter are available on demand from the Ministry.

Stressors influencing the sites:

<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</td>
<td>no</td>
<td></td>
<td></td>
<td>Several hydromorphological parameters available for gradient classification.</td>
</tr>
<tr>
<td>Degradation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organic Pollution</td>
<td>no</td>
<td></td>
<td></td>
<td>Several chemical parameters available for gradient classification.</td>
</tr>
<tr>
<td>General Degradation</td>
<td>no</td>
<td></td>
<td></td>
<td>Several chemical and hydromorphological parameters available for gradient classification.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Dataset:** National Monitoring Austria (GZUEV) macro invertebrates, benthic algae

**Biological data**

**biological data origin:** from sampling  
**specify project:** National Monitoring

**organism group addressed:** macro-invertebrates, phytobenthos, (benthic) diatoms
Sample specifications/sample resolution

**macro-invertebrates:**

**sample information:**
- season: spring, summer, winter
- comments: Few sites were also sampled in autumn.

**taxonomic resolution:**
- percentage of species level data: 85
- comments: Species level identification whereever possible (values indicated above are only rough estimates).

**taxonomic coding:**
- taxalist according to: Taxaliste Österreich
- coding system: ID_Ecoprof

**sample specifications:**
- quantitative (abundance data)

**specification of method(s) used for sampling and sorting:**
- Multi Habitat Sampling

**phytobenthos:**

**sample information:**
- season: spring, summer, winter
- comments: Few samples were also taken in autumn.

**taxonomic resolution:**
- percentage of species level data: 95
- comments: Species level identification whereever possible (values indicated above are rough estimates). Some genera of certain classes are not identifiable to species level. Taxa include macro algae.

**taxonomic coding:**
- coding system: ID_Ecoprof

**sample specifications:**
- quantitative (abundance data)

**specification of method(s) used for sampling and sorting:**
- Brushing/scraping of benthic habitats; collecting of stones

**(benthic) diatoms:**

**sample information:**
- season: spring, summer, winter
- comments: Few samples were also taken in autumn.

**taxonomic resolution:**
- percentage of species level data: 95
- comments: Species level identification whereever possible (values indicated above are rough estimates). Some genera of certain classes are not identifiable to species level. Taxa include macro algae.

**taxonomic coding:**
- taxalist according to: Algen Taxaliste Ecoprof
- coding system: ID_Ecoprof

**sample specifications:**
- quantitative (abundance data)
specification of method(s) used for sampling and sorting:

Brushing/scraping of benthic habitats; collecting of stones
## Other specifications

<table>
<thead>
<tr>
<th>availability of photos:</th>
<th>yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>availability of maps:</td>
<td>yes</td>
</tr>
</tbody>
</table>

**quality control procedures:**

- Were any quality control procedures applied to your dataset?  
  - yes

**quality control protocols and comments:**

*National Quality Management*

**comments:**

*For 63 sites also fish data are available, see database National Monitoring Austria(GZUEV) fish.  
There are also GZUEV data from 2005 available.*