General information

name of the dataset:
  full name of the dataset: European Diatom Database
  dataset short name: EDDI

type of dataset (more information): species (taxonomic group) per site database including environmental information

short description of the dataset/summary:
The European Diatom Database (EDDI) is a web-based information system designed to enhance the application of diatom analysis to problems of surface water acidification, eutrophication and climate change.

science keywords according to GCMD:
  topic: Biological Classification

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

<table>
<thead>
<tr>
<th><strong>data format:</strong></th>
<th>others/specify</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>others/details:</strong></td>
<td>web based</td>
</tr>
<tr>
<td><strong>operating system:</strong></td>
<td>others/specify</td>
</tr>
<tr>
<td><strong>others/details:</strong></td>
<td>web based</td>
</tr>
<tr>
<td><strong>data language:</strong></td>
<td>English</td>
</tr>
<tr>
<td><strong>current access level:</strong></td>
<td>web (public)</td>
</tr>
<tr>
<td><strong>web address (URL):</strong></td>
<td><a href="http://craticula.ncl.ac.uk/Eddi/jsp/index.jsp">http://craticula.ncl.ac.uk/Eddi/jsp/index.jsp</a></td>
</tr>
<tr>
<td><strong>update level:</strong></td>
<td>completed</td>
</tr>
<tr>
<td><strong>documentation:</strong></td>
<td>manual</td>
</tr>
<tr>
<td><strong>Do you plan to publish the data on the Freshwater Biodiversity data portal:</strong></td>
<td>English</td>
</tr>
<tr>
<td><strong>media for data delivery:</strong></td>
<td>online internet (HTTP)</td>
</tr>
<tr>
<td><strong>web address:</strong></td>
<td><a href="http://craticula.ncl.ac.uk/Eddi/jsp/index.jsp">http://craticula.ncl.ac.uk/Eddi/jsp/index.jsp</a></td>
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</tbody>
</table>

### contact details:

- **metadata contact person:**
  - first, last name: Steve Juggins
  - phone: +44 (0)191 222 8799
  - email: Stephen.Juggins@ncl.ac.uk
  - institution: School of Geography, Politics & Sociology, Newcastle University
  - postal code, city: NE1 7RU Newcastle upon Tyne
  - country: UK

- **technical contact person:**
  - first, last name: Steve Juggins
  - phone: +44 (0)191 222 8799
  - email: Stephen.Juggins@ncl.ac.uk

- **scientific contact person:**
  - first, last name: Steve Juggins
  - phone: +44 (0)191 222 8799
  - email: Stephen.Juggins@ncl.ac.uk
Intellectual property rights and citation

(if the database is already published):

dataset creator (data compiler):
  contact name: There is joint ownership of all EDDI participants although the website has unrestricted access

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): Battarbee, R.W., Juggins, S., Gasse, F., Anderson, N.J., Bennion, H., Cameron, N.G., Ryves, D.B., Pailles, C., Chalie, F. & Telford, R.
  year: 2001

citation of the metadata:
General data specifications

regional coverage of the dataset:
  scale of the dataset: global
  continents: Africa, Europe
  countries: Africa: Algeria, Djibouti, Ethiopia, Kenya, Malawi, Morocco, Niger, Rwanda, Tanzania, Tunisia, Uganda
  Europe: Austria, Denmark, Finland, France, Germany, Italy, Norway, Poland, Portugal, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom
  comments: Russia (Caspian Sea, Kola Peninsula)
<table>
<thead>
<tr>
<th>Coordinate system/grid data:</th>
<th>Datum (e.g. WGS84):</th>
<th>WGS84</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site coding:</td>
<td>Site coding available:</td>
<td>yes</td>
</tr>
<tr>
<td>Number of digits:</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Example:</td>
<td></td>
<td>SWED0401</td>
</tr>
<tr>
<td>Number of sites:</td>
<td>Exact number of sites:</td>
<td>&gt;1000 1349</td>
</tr>
<tr>
<td>Comments:</td>
<td>Data are not available on mean depth, surface area or geology. Altitude data are not available for the African lakes and Spanish saline lakes.</td>
<td></td>
</tr>
</tbody>
</table>
Dataset: European Diatom Database

Climate and environmental data

climate related data: no data available
environmental data:
available parameters per site: maximum depth
Field measurements
available parameters per site: mean depth
Field measurements
physico-chemistry data:
total P, ortho P, nitrate, nitrite, total N, ammonium, calcium, alkalinity, pH, conductivity, chlorophyll, colour, Secci disc depth
comments: Physico-chemical data were gathered for each individual dataset that contributed to the EDDI database and therefore data have not been collected in a standard format for a fixed set of variables.

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>eutrophication</td>
<td>no</td>
<td>no</td>
<td></td>
<td>347</td>
</tr>
<tr>
<td>acidification</td>
<td>no</td>
<td>no</td>
<td></td>
<td>627</td>
</tr>
<tr>
<td>organic pollution</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>toxic stress</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

comments: The EDDI database was not designed for WFD purposes so information on restoration and degradation are not available. The number of sites per stressor for eutrophication and acidification are guesstimates. EDDI is an amalgamation of datasets from different countries so no standard protocol for environmental data was followed.
Dataset: European Diatom Database

Biological data

biological data origin: from sampling
   specify project: There are many different projects

organism group addressed: phytobenthos, (benthic) diatoms
   comments: It is planned to include other organisms (including macroinvertebrates) zooplankton, macrophytes) on the database in future
Sample specifications/sample resolution

Phytobenthos:

Sample information:
- Covered timeframe: 1960 - 1998
- Historical data: Yes
- Season: Spring, summer, autumn
- Time series data: Yes

Taxonomic resolution:
- Percentage of species level data: 100

Taxonomic coding:
- Coding system: DIATCODE
- Example: ACH0012A

Sample specifications:
- Quantitative (abundance data)
- Number of samples: 9328

Sample type (e.g. habitat specific samples, composite samples etc.):
- Sediment core
- Sediment trap
- Artificial substrate (unspecified)
- Live sample from plant (epiphyton)
- Live sample from rock (epilithon)
- Live sample from mud
- Live sample from sand (episammon)
- Subaerial surface
- Live sample from water
- Surface sediment grab
- Artificial substrate (rope)
- Artificial substrate (tile)
- Soil core
- Peat core
- Water sample (non-biological)
- Archaeological

Specific sample location (e.g. littoral, profundal, transect, shoreline, hyporheic zone, etc.):
- Littoral, profundal, sub-fossil (sediment)

Other important sample related informations:
- Surface sediment samples represent the last few years

(Benthic) diatoms:

Sample information:
- Covered timeframe: 1960 - 1998
- Palaeo data: Yes
- Season: Spring, summer, autumn, winter

Temporal resolution/frequency of sampling:
- Data are mainly sediment core core sub-samples or surface sediment samples. Contemporary samples are not usually sampled at any specific temporal resolution
- Time series data: Yes

Taxonomic resolution:
- Percentage of species level data: 100
**Dataset:** European Diatom Database

**taxonomic coding:**
- **coding system:** DIATCODE
- **example:** ACH0012A

**sample specifications:**
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**specific sample location (e.g. littoral, profundal, transect, shoreline, hyporheic zone, etc.):**
  - littoral, profundal, sub-fossil (sediment)
Other specifications

GIS layers, shapes related to the dataset: no data available
availability of photos: no
availability of maps: no

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

quality control protocols and comments:
mandatory fields in the database
rules for coding the diatoms