General information

| name of the dataset:          | LAKECORES |
| type of dataset (more information): | others |
| specify:                      | Metadatabase |
| data type:                    | descriptive data |
| short description of the dataset/summary: | A meta-database for information about lake sediment cores. The database brings together published information about lake sediment cores that have been used to reconstruct the recent ecological history of lakes in Europe. |

science keywords according to GCMD:
- topic: Biosphere, Terrestrial Hydrosphere
- keywords: lake sediment cores, ecological history, lakes

ISO topic category according to ISO 19115:
- Environment, Geoscientific Information, Inland Waters
## Dataset: LAKECORES

### Technical and administrative specifications

<table>
<thead>
<tr>
<th>data format:</th>
<th>MySQL</th>
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<tbody>
<tr>
<td>operating system:</td>
<td>Linux</td>
</tr>
<tr>
<td>current access level:</td>
<td>web (public)</td>
</tr>
<tr>
<td>currently available through GBIF:</td>
<td>no</td>
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<tr>
<td>exchange planned:</td>
<td>no</td>
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<tr>
<td>update level:</td>
<td>continuously updated</td>
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</tbody>
</table>

### documentation:

Do you plan to publish the data on the Freshwater Biodiversity data portal: 

### contact details:

<table>
<thead>
<tr>
<th>metadata contact person:</th>
<th>Viktorija Bauere</th>
</tr>
</thead>
<tbody>
<tr>
<td>first, last name:</td>
<td><a href="mailto:v.bauere@ucl.ac.uk">v.bauere@ucl.ac.uk</a></td>
</tr>
<tr>
<td>email:</td>
<td></td>
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<td>email:</td>
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<table>
<thead>
<tr>
<th>scientific contact person:</th>
<th>Helen Bennion</th>
</tr>
</thead>
<tbody>
<tr>
<td>first, last name:</td>
<td><a href="mailto:hbenion@geog.ucl.ac.uk">hbenion@geog.ucl.ac.uk</a></td>
</tr>
<tr>
<td>email:</td>
<td></td>
</tr>
</tbody>
</table>

### comments:

Our intention in the future is to extend the database globally by enabling labs holding equivalent information to register data about their own sites online. Ultimately LAKECORES will be used by LIMPACS (website) in its ongoing assessment of lake ecosystem change worldwide.

[Metadata were harvested from the WISER metadatabase (http://www.wiser.eu/results/meta-database/details.php?id1=59&id2=51) by the BioFresh team.]
Dataset: LAKECORES

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:
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:
title:
http://www.wiser.eu - Water Bodies in Europe: Integrative Systems to assess Ecological status and Recovery (Version **).
year:
version (if applicable):
year of access
version number from website
citation of the metadata:
General data specifications

regional coverage of the dataset:
  scale of the dataset: continental
  continents: Europe
  countries: Europe: Austria, Bulgaria, Czech Republic, Denmark, Estonia, Finland, France, Iceland, Ireland, Italy, Norway, Poland, Portugal, Romania, Slovakia, Spain, Sweden, Switzerland, United Kingdom
  comments: Faroe Islands, Russia
## Site specifications

**coordinate system/grid data:**
- datum (e.g. WGS84): *No datum available*
- site coding available: *no*
- example: *No codes - site name only*

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

**exact number of sites:**
- 975

**comments:**
*Not all sites have comprehensive set of specifications.*
Climate and environmental data

climate related data:

environmental data:

available parameters per site:

maximum depth

total P, ortho P, total dissolved P, nitrate, nitrite, total N, ammonium, hardness, alkalinity, water temperature, pH, conductivity, chlorophyll, colour, euphotic depth

physico-chemistry data:

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>
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</thead>
<tbody>
<tr>
<td>eutrophication</td>
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<td></td>
<td></td>
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<tr>
<td>hydromorphological degradation</td>
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<td></td>
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<tr>
<td>acidification</td>
<td>no</td>
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</tbody>
</table>
Biological data

biological data origin:

organism group addressed: macro-invertebrates (Chironomidae), zooplankton, (benthic) diatoms, other group(s)

comments: LAKECORES is a sediment core database which includes cores analysed for some of the following proxies: i) Diatoms; ii) Cladocera / Zooplankton; iii) Chironomids; iv) Pollen; and v) Chrysophytes
**Dataset: LAKECORES**

### Sample specifications/sample resolution

**macro-invertebrates:**
- **sample information:**

**taxonomic resolution:**
- **taxonomic coding:**
- **sample specifications:**

**comments:**

*LAKECORES comprises meta-data relating to sub-fossil sediment samples (surface sediment and downcore sub-sampling) identified mainly to species level. Season or timeframe is not relevant in this case.*

**zooplankton:**
- **sample information:**

**taxonomic resolution:**
- **taxonomic coding:**
- **sample specifications:**

**comments:**

*LAKECORES comprises meta-data relating to sub-fossil sediment samples (surface sediment and downcore sub-sampling) identified mainly to species level. Season or timeframe is not relevant in this case.*

**(benthic) diatoms:**
- **sample information:**

**taxonomic resolution:**
- **taxonomic coding:**
- **sample specifications:**

**comments:**

*LAKECORES comprises meta-data relating to sub-fossil sediment samples (surface sediment and downcore sub-sampling) identified mainly to species level. Season or timeframe is not relevant in this case.*

**other group(s):**
- **sample information:**

**taxonomic resolution:**
- **taxonomic coding:**
- **sample specifications:**

**comments:**

*LAKECORES comprises meta-data relating to sub-fossil sediment samples (surface sediment and downcore sub-sampling) identified mainly to species level. Season or timeframe is not relevant in this case.*
Other specifications

- **availability of photos:** no
- **availability of maps:** yes
- **quality control procedures:**
  - Map of core locations available. Information on corer type and dating method also available. Querying facility at online database (http://www.eurolimpacs.ucl.ac.uk/component/option,com_wrapper/Itemid,52/) limited. The underlying ACCESS database can accommodate more complex queries and it is hoped to transfer this capability to the web interface in future.