General information

name of the dataset: AMPHORA

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:
This database holds data collected by the Environmental Change Research Centre (ECRC) at UCL relating to lakes, cores, diatoms and other types of samples. Currently access is restricted to ECRC staff and researchers only.

Science keywords according to GCMD:
topic: Biological Classification

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

**data format:** MySQL
**operating system:** Unix
**data language:** English
**current access level:** internal

Do you plan to publish the data on the Freshwater Biodiversity Data Portal:

- **media for data delivery:** online internet (HTTP)
- **update level:** continuously updated

**documentation:**
- **type:** manual, internal description
- **language:** English

**contact details:**

- **metadata contact person:** Victoria Bauere
  - **phone:** +442076790559
  - **email:** v.bauer@ucl.ac.uk

- **technical contact person:** Victoria Bauere
  - **phone:** +442076790559
  - **email:** v.bauer@ucl.ac.uk

- **scientific contact person:**
Dataset: AMPHORA

Intellectual property rights and citation

(if the dataset is already published):

dataset creator (data compiler):
    See above

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:
    author(s): ECRC
    Diatoms and Water Quality

citation of the metadata:
General data specifications

regional coverage of the dataset:
- scale of the dataset: global
- continents: Africa, North America, South America, Asia, Europe, Oceania, Antarctica

spatial extent (bounding coordinates):
- southernmost latitude [°]: 19.29583
- northernmost latitude [°]: 69.25
- westernmost longitude [°]: -139.93
- easternmost longitude [°]: 36.66666667

countries:
- Africa: Botswana, Egypt, Ethiopia, Morocco, South Africa, Tunisia, Uganda
- North America: Anguilla, Canada, United States
- South America: Chile, Falkland Islands, Uruguay
- Asia: Afghanistan, Azerbaijan, China, Mongolia
- Europe: Austria, Bulgaria, Estonia, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Jersey, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, United Kingdom
- Oceania: Australia, Tonga

comments:
Australian Antarctic Territory, British antarctic territory
### Site specifications

**coordinate system/grid data:**
- latitude/longitude
- projected

**datum (e.g. WGS84):**
- WGS84, ETRS89

**site coding:**
- site coding available: yes
- alphanumerical

**number of digits:**
- 10

**example:**
- SNET1

**number of sites:**
- >1000

**exact number of sites:**
- 4547
Dataset: AMPHORA

Climate and environmental data

climate related data: no data available
environmental data: no data available
physico-chemistry data: no data available
**Dataset: AMPHORA**

### Biological data

<table>
<thead>
<tr>
<th>biological data origin:</th>
<th>from sampling</th>
</tr>
</thead>
<tbody>
<tr>
<td>specify project:</td>
<td>There are many different projects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>organism group addressed:</th>
<th>phytoplankton, phytobenthos, (benthic) diatoms</th>
</tr>
</thead>
<tbody>
<tr>
<td>comments:</td>
<td>There are 529083 diatom subsamples in AMPHORA. Some are from sediment cores and some are from epilithon and epiphyton samples. Most sediment samples contain a mix of planktonic and non-planktonic/benthic taxa</td>
</tr>
</tbody>
</table>
Dataset: AMPHORA

Sample specifications/sample resolution

**phytoplankton:**

**sample information:**
- covered timeframe: 1954 - 2010
- historical data: yes
- season: spring, summer, autumn, winter
- temporal resolution/frequency of sampling: Some monthly, some quarterly
- comments: AMPHORA is currently a diatom database primarily containing both epilithic and sub-fossil sediment data. The timeframe has two aspects - i) date epilithic samples were taken and ii) the dated core sub-samples. Here we have used the dates of sampling as the timeframe required above. Samples have been taken at all times of the year. Most samples are spot samples although some sites are monitored annually.

**taxonomic resolution:** species

**taxonomic coding:**
- coding system: Diatcode
- example: EUN0020A

**sample specifications:**
- quantitative (abundance data)
- replicate samples: no
- number of samples: 10490
- 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.):** Sample locations include littoral, profundal and sedimentary

**phytobenthos:**

**sample information:**
- covered timeframe: 1954 - 2010
- historical data: yes
- season: spring, summer, autumn, winter
- temporal resolution/frequency of sampling: Some monthly, some quarterly
Dataset: AMPHORA

comments: AMPHORA is currently a diatom database primarily containing both epilithic and sub-fossil sediment data. The timeframe has two aspects - i) date epilithic samples were taken and ii) the dated core sub-samples. Here we have used the dates of sampling as the timeframe required above. Samples have been taken at all times of the year. Most samples are spot samples although some sites are monitored annually.

taxonomic resolution: species

taxonomic coding:
taxalist according to: EUN0020A
coding system: Diatcode

taxonomic coding:

coding system:
example: EUN0020A

taxonomic coding:

coding system:
example: Diatcode
	sample specifications:
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.):
Sample locations include littoral, profundal and sedimentary

(benthic) diatoms:
sample information:
historical data: yes
palaeo data: yes
comments: AMPHORA is currently a diatom database primarily containing both epilithic and sub-fossil sediment data. The timeframe has two aspects - i) date epilithic samples were taken and ii) the dated core sub-samples. Here we have used the dates of sampling as the timeframe required above. Samples have been taken at all times of the year. Most samples are spot samples although some sites are monitored annually.

taxonomic resolution: species

taxonomic coding:
coding system: EUN0020A
example: Diatcode

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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
Other specifications

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

availability of photos:  
no

availability of maps:  
yes

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