



# Metadata

## AMPHORA



Exported from the Freshwater Biodiversity Data Portal, <http://data.freshwaterbiodiversity.eu>  
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### General information

**name of the dataset:**

full 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*  
others/details: *accessed via web interface*  
**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:  
first, last name: *Victoria Bauere*  
phone: *+442076790559*  
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technical contact person:  
first, last name: *Victoria Bauere*  
phone: *+442076790559*  
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scientific contact person:

## Intellectual property rights and citation

(if the dataset is already published):

### dataset creator (data compiler):

contact email: *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*

title: *Environmental Change Research Centre, Report 1991-2001.Chapter 4.1  
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

<b>coordinate system/grid data:</b>	<i>latitude/longitude projected</i>
datum (e.g. WGS84):	<i>WGS84, ETRS89</i>
<b>site coding:</b>	
site coding available:	<i>yes alphanumerical</i>
number of digits:	<i>10</i>
example:	<i>SNET1</i>
<b>number of sites:</b>	<i>&gt;1000</i>
exact number of sites:	<i>4547</i>

## Climate and environmental data

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

## Biological data

**biological data origin:**

specify project:

*from sampling*

*There are many different projects*

**organism group addressed:**

comments:

*phytoplankton, phytobenthos, (benthic) diatoms*

*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*

## Sample specifications/sample resolution

### phytoplankton:

#### sample information:

covered timeframe:

year from - to: 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*  
*species*

#### taxonomic resolution:

#### 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:

year from - to: 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:****taxonomic coding:**

taxalist according to: *EUN0020A*

coding system: *Diatcode*

**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*

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**(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:****taxonomic coding:**

coding system: *EUN0020A*

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*

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## 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*