French Lakes - fish database

name of the dataset: French Lakes - fish database

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:
The data gathered in this database are very diverse, they concerned different BQE and physico chemical analyses. Different organisms collected these data from different protocols. Concerning the fish dB, the lakes are sampled on different GPS referenced points (different net settled for one lake). Fish sampling are connected to a particular campaign, identified by a beginning and a ending date, as well as all the physico chemical data available (thermo depth, oxycline depth, air temperature, secchi disk...)(as much as we can). All net settled during a campaign are described: CEN standard or not, stratum of the net, hour settlement, hour taking off...)and the fished caught are gathered in different type of lot (individual, batch of fish) with measurement and weight where possible(sex if possible).

science keywords according to GCMD:
topic: Biosphere, Terrestrial Hydrosphere
keywords: BQE, fish, lakes

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

**data format:** Access  
**operating system:** Win XP  
**current access level:** internal  
currently available through **GBIF:** no  
exchange planned: no  
**update level:** continuously updated

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

metadata contact person:  
first, last name: **Samuel Alleaume**  
email: samuel.alleaume@cemagref.fr

technical contact person:
first, last name: **Samuel Alleaume**  
email: samuel.alleaume@cemagref.fr

scientific contact person:
first, last name: **Stephanie Pedron**  
email: stephanie.pedron@cemagref.fr

**comments:** [Metadata were harvested from the WISER metadatabase (http://www.wiser.eu/results/meta-database/details.php?id1=77&id2=3) by the BioFresh team.]
Dataset: French Lakes - fish database

Intellectual property rights and citation

(if the database is already published):

**dataset creator (data compiler):**

contact name: French Ministry of Environment

**data contributors to/owners of this dataset:**

single

criteria for using the data in a publication/scientific analysis:

Other/Additional criteria

other/additional criteria: Property rights differ from one MS to another. So, these data cannot be public at all.

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:

© BioFresh - Funded by the European Union under the 7th Framework Programme - contract no. 226874
General data specifications

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

spatial extend (bounding coordinates):
   southernmost latitude [°]: 51.204586
   northernmost latitude [°]: 42.295064
   westernmost longitude [°]: -4.989746
   easternmost longitude [°]: 8.364789
   minimum altitude: -4 metres
   maximum altitude: 4810 metres
   countries: Europe: France
### Site specifications

**coordinate system/grid data:**
- datum (e.g. WGS84): NTF

**other site classification parameters:**
- perimeter (171), max depth (162), surface catchment area (157), volume (153)

**site coding:**
- site coding available: yes
- alphanumerical
- number of digits: 7
- example: FRGL143

**number of sites:**
- 100 - 1000
- exact number of sites: 173

**comments:**
- geology mainly based on alkalinity >1 == calcareous; <1 == siliceous

The distribution of all the lakes in the 3 different GIG has been done geographically. 4 lakes are in the pyreniean region and could not be associated to any GIG.

For the lake size: 24 lakes are missing. Their lake size are <0.5 km2.
Climate and environmental data

climate related data:
environmental data:
physico-chemistry data: total P, ortho P, total dissolved P, nitrate, nitrite, total N, ammonium, hardness, alkalinity, water temperature, pH, conductivity, chlorophyll, colour, euphotic depth

comments: All these percentage have been calculated from our actual base but more informations should arrive in the current of the year 2009: some of the 36% should increase until 100% when the values will be collected and integrated (pH, total P, water temperature, nitrate, oxygen). At the moment, only 63 lakes have been sampled.

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>eutrophication</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>hydromorphological degradation</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>acidification</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>organic pollution</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>toxic stress</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>general degradation</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td></td>
</tr>
</tbody>
</table>
Biological data

biological data origin:

organism group addressed: fish
Dataset: French Lakes - fish database

Sample specifications/sample resolution

**fish:**

**sample information:**
- covered timeframe: 2004 - 2009
- season: summer, autumn

**taxonomic resolution:** species
- percentage of species level data: 100

**taxonomic coding:**
- coding system: Shortcode FR

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

**specific sample location (e.g. littoral, profundal, transect, shoreline, hyporheic zone, etc.):** littoral, sublittoral profundal (lakes)
Other specifications

GIS layers, shapes related to the dataset:
  others (specify): hydrographic network, perimeter of lakes, shape, catchment area, corine landcover, climatic data, transport network, geology, erosion...

availability of photos: yes
availability of maps: yes
quality control procedures: yes