General information

name of the dataset:
  full name of the dataset: Odense catchment (Denmark)

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: Macrophyte, fish and macroinvertebrate data from Danish streams collecting in the national environmental monitoring programme.

science keywords according to GCMD:
  topic: Biosphere, Biological Classification
  keywords: macrophyte; fish; macroinvertebrate; Danish streams

ISO topic category according to ISO 19115:
  Biota
Technical and administrative specifications

data format: Excel
operating system: all Windows systems
data language: Danish
current access level: internal
currently available through GBIF: no
exchange planned: no
data in data repository: no
Do you plan to publish the data on the Freshwater Biodiversity Data Portal: no
update level: completed
documentation:
type: manual
language: others/specify
specify: Danish

contact details:

metadata contact person: Hans Estrup Andersen
email: hea@bios.au.dk
institution: Aarhus University
address: Vejlsøvej 25
postal code, city: 8600 Silkeborg
country: Denmark
web address: www.au.dk

technical contact person: Hans Estrup Andersen
email: hea@bios.au.dk

scientific contact person: Hans Estrup Andersen
email: hea@bios.au.dk
Intellectual property rights and citation

(if the dataset is already published):

dataset creator (data compiler):
  contact name: Hans Estrup Andersen
  contact email: hea@bios.au.dk
  contact institution: Aarhus University, Department for Bioscience

data contributors to/owners of this dataset:
  single

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

other/additional criteria: The data is for internal use only.

citation of this dataset:
  author(s): Hans Estrup Andersen
  title: Odense catchment database (Denmark)
  year: 2016

citation of the metadata:
  author(s): Hans Estrup Andersen
  title and journal (name, number, pages): Metadata of the Odense catchment (Denmark)
  year: 2016
Dataset: Odense catchment (Denmark)

General data specifications

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

spatial extent (bounding coordinates):
  southernmost latitude [°]: 057°34´00´´N
  northernmost latitude [°]: 054°38´00´´N
  westernmost longitude [°]: 006°36´00´´E
  easternmost longitude [°]: 012°51´00´´E
  minimum altitude: 0 metres
  maximum altitude: 100 metres
  countries: Europe: Denmark
Site specifications

coordinate system/grid data: projected, UTM
  datum (e.g. WGS84): D_ETRS_1989
  grid data available: no
  comments: 165 sites in streams and rivers in Denmark
  site coding available: yes
  numerical example: DMU250069

number of sites: 100 - 1000
  exact number of sites: 165
Climate and environmental data

climate related data: no data available
earth data:
available parameters per catchment: catchment size
DEM source:
available parameters per catchment: catchment geology
national/soiie:
available parameters per catchment: catchment land cover/land use
national/soiie:
available parameters per catchment: hydrological regime/flow regime
calculated from measured water discharge
available parameters per site: catchment land use upstream of sampling site
national/soiie:
available parameters per site: catchment land use along a buffer strip (100m width on both sides)
upstream (10km) of the sampling site
national/soiie:
available parameters per site: information on riparian vegetation (incl. information on modification)
national/soiie:
available parameters per site: information on channel form (incl. information on modification)
field data/satbutions
available parameters per site: distance to source
national/soiie:
available parameters per site: stream order (according to Strahler)
national/soiie:
available parameters per site: slope
DEM source:
available parameters per site: hydrological regime/flow regime
field data/satbutions
available parameters per site: discharge
field data/satbutions
available parameters per site: substrate composition
field data/satbutions
comments: DEM = digital elevation model; catchments are delineated by a standard GIS hydrological-topographical analysis
physico-chemistry data: total P, ortho P, total dissolved P, nitrate, total N, water temperature
availability of physico-chemical data, if there is more than one sample per site:
mean values per site
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></td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>hydromorphological</td>
<td>no</td>
<td></td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>degradation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrologic stress (e.g. impoundment, flow velocity reduction, hydropeaking, water abstraction, flow velocity increase)</td>
<td>No</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
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<td></td>
</tr>
</tbody>
</table>
Dataset: Odense catchment (Denmark)

Biological data

biological data origin: from sampling
specify project: National environmental monitoring programmes

organism group addressed: fish, macro-invertebrates (Mollusca, Crayfish, Ephemeroptera, Odonata, Plecoptera, Coleoptera, Trichoptera, Chironomidae), macrophytes
Sample specifications/sample resolution

fish:

sample information:
covered timeframe: 2004 - 2012
historical data: no
palaeo data: no
season: autumn, winter
temporal resolution/frequency of sampling:
1 - 4 times during 2004 - 2012 per station
time series data: no
taxonomic resolution:
percentage of species level data: 100
taxonomic coding:
taxalist according to: Carl & Møller

sample specifications:
replicate samples: no
number of samples: 100
specification of method(s) used for sampling and sorting:
electro fishing
citation: Peter Wiberg-Larsen & Esben A. Kristensen (2011): Fiskeundersøgelser i vandløb, Teknisk anvisning, DCE Nationalt Center for Miljø og Energi

specific sample location (e.g. littoral, profundal, transect, shoreline, hyporheic zone, etc.):
representative cross sections in streams and rivers

macro-invertebrates:

sample information:
covered timeframe: 2004 - 2012
historical data: no
palaeo data: no
season: summer
temporal resolution/frequency of sampling:
1 - 12 samplings per station during 2004 - 2012
time series data: no
taxonomic resolution:
percentage of species level data: 70
taxonomic coding:
taxalist according to: Dobsen et al.

And 50+ other references on specific families and genera.

sample specifications:
replicate samples: no
number of samples: 130
specification of method(s) used for sampling and sorting:
Dataset: Odense catchment (Denmark)

Peter Wiberg-Larsen, 2010: Makroinvertebrater (smådyr) i vandløb. DCE Nationalt Center for Miljø og Energi.


And 50+ other references on specific families and genera.

specific sample location (e.g. littoral, profundal, transect, shoreline, hyporheic zone, etc.):
representative cross sections in streams and rivers

macrophytes:
sample information:
covered timeframe:
year from - to: 2004 - 2012
historical data: no
palaeo data: no
season: summer, autumn
temporal resolution/frequency of sampling:
1 to several times per station during 2004 - 2012
time series data: no
taxonomic resolution:
percentage of species level data: 80
taxonomic coding:
taxalist according to: Pedersen et al.

sample specifications:
number of samples: 100
specification of method(s) used for sampling and sorting:
250 plots per 100 m river stretch
specific sample location (e.g. littoral, profundal, transect, shoreline, hyporheic zone, etc.):
representative cross sections in streams and rivers
Other specifications

GIS layers, shapes related to the dataset:
- catchments, river-sub-basins
- land use

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: Quality control following procedures in the National Environmental Monitoring Programme.
- reference: no reference available