Metadata

Odense catchment (Denmark)

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:
first, last name: *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:
first, last name: *Hans Estrup Andersen*
email: *hea@bios.au.dk*

scientific contact person:
first, last name: *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*

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*

environmental data:

available parameters per catchment: *catchment size*
DEM data source:

available parameters per catchment: *catchment geology*
national maps data source:

available parameters per catchment: *catchment land cover/land use*
national maps data source:

available parameters per catchment: *hydrological regime/flow regime*
calculated from measured water discharge data source:

available parameters per site: *catchment land use upstream of sampling site*
national maps data source:

available parameters per site: *catchment land use along a buffer strip (100m width on both sides) upstream (10km) of the sampling site*
national maps data source:

available parameters per site: *information on riparian vegetation (incl. information on modification)*
national maps data source:

available parameters per site: *information on channel form (incl. information on modification)*
field observations data source:

available parameters per site: *distance to source*
national maps data source:

available parameters per site: *stream order (according to Strahler)*
national maps data source:

available parameters per site: *slope*
DEM data source:

available parameters per site: *hydrological regime/flow regime*
field observations data source:

available parameters per site: *discharge*
field observations data source:

available parameters per site: *substrate composition*
field observations data source:

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:

stressor	restored sites available	data before/after restoration available	stressor gradient available	comments
eutrophication	no		yes	
hydromorphological degradation	no		yes	

hydrologic stress (e.g. impoundment, flow velocity reduction, hydropeaking, water abstraction, flow velocity increase)	no		yes	

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:

year from - to: *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*

citation: *Carl, H. & Møller, P.R. (red.) (2012. Atlas over danske ferskvandsfisk. Sta-tens Naturhistoriske Museum, Københavns Universitet, 700 pp.*

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:

year from - to: *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.*

citation: *Dobsen, M., Pawley, S., Fletcher, M. & Powell, A. (2012) Guide to Fresh-water Invertebrates. Freshwater Bio-logical Association Scientefic Publica-tion No. 68, 216 pp.*

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:

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

citation: *Dobsen, M., Pawley, S., Fletcher, M. & Powell, A. (2012) Guide to Fresh-water Invertebrates. Freshwater Bio-logical Association Scientefic Publica-tion No. 68, 216 pp.*

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.*

citation: *Pedersen, M.L., Baattrup-Pedersen, A., Wiberg-Larsen, P. (2007): Økologisk overvågning i vandløb og på vandløbsnære arealer under NOVANA 2004-2009. Teknisk anvisning fra DMU nr. 21. Danmarks Miljøundersøgelser, Aarhus Universitet.*

sample specifications:

number of samples: *100*

specification of method(s) used for sampling and sorting:
250 plots per 100 m river stretch

citation: *Pedersen, M.L., Baattrup-Pedersen, A., Wiberg-Larsen, P. (2007): Økologisk overvågning i vandløb og på vandløbsnære arealer under NOVANA 2004-2009. Teknisk anvisning fra DMU nr. 21. Danmarks Miljøundersøgelser, Aarhus Universitet.*

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*