Metadata

Regge & Dinkel catchment (The Netherlands)

General information

name of the dataset:

full name of the dataset: *Regge & Dinkel catchment (The Netherlands)*

type of dataset (more information): *species (taxonomic group) per site database including environmental information*

data type: *point data/observation data, shape files, descriptive data*

short description of the dataset/summary:

This data set contains an overview of biological and environmental data from the Regge and Dinkel catchment, the Netherlands. The main factors that impact this catchment are hydrological alteration, groundwater abstraction and drainage, point source and diffuse nutrient loading. The data has been collected between 2000 and 2012 by the waterboard Vechtstromen and contains macroinvertebrate, macrophyte, fish, and physico-chemical parameters. The dataset is available upon request from the waterboard Vechtstromen.

science keywords according to GCMD:

topic: *Biosphere, Biological Classification, Terrestrial Hydrosphere*

keywords: *macroinvertebrates, macrophytes, fish, physico-chemical parameters, streams, rivers, freshwater*

ISO topic category according to ISO 19115:

Biota, Environment, Inland Waters

Technical and administrative specifications

data format:	*csv*
operating system:	*all Windows systems*
data language:	*others/specify*
specify:	*Dutch*
current access level:	*restricted access*
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*
comments:	*The data is public, but should be requested at the waterboard Vechtstromen, see https://www.vechtstromen.nl/algemeen (in Dutch).*
update level:	*update planned*
others/details:	*See river basin management plan: http://www.vechtstromen.nl/waterbeheerplan/uitvoering/gebruiken-we-onze/meten-monitoren/ (in Dutch)*
documentation:	
type:	*internal description*
language:	*others/specify*
specify:	*Dutch*
contact details:	

metadata contact person:	
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Intellectual property rights and citation

(if the dataset is already published):

dataset creator (data compiler):

contact name:	*Waterschap Vechtstromen*
contact email:	*info@vechtstromen.nl*
contact institution:	*Waterschap Vechtstromen*

data contributors to/owners of this dataset:

single

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

The dataset needs to be requested from dataset creator with specific conditions of use.

citation of this dataset:

author(s):	*Waterschap Vechtstromen*
title:	*Macrofyten-, macrofauna- en visdata Dinkel stroomgebied 2000-2012*
year:	*2015*

citation of the metadata:

author(s):	*Kramer L. & Kuijper M.*
title and journal (name, number, pages):	*Metadata of the Regge & Dinkel catchment for the MARS project. Freshwater Metadata Journal 0: 0-0*
year:	*0000*
doi (if applicable):	*http://dx.doi.org/10.15504/fmj.0000.0*

General data specifications

regional coverage of the dataset:

scale of the dataset:	*catchment*
continents:	*Europe*

spatial extent (bounding coordinates):

southernmost latitude [°]:	*N 52°05'00"*
northernmost latitude [°]:	*N 52°29'00"*
westernmost longitude [°]:	*E 6°26'00"*
easternmost longitude [°]:	*E 7°08'00"*
countries:	*Europe: Netherlands*

Site specifications

coordinate system/grid data:	*latitude/longitude* *projected*
datum (e.g. WGS84):	*EPSG:28992*
grid data available:	*no*
comments:	*The coordinate system used is Rijksdriehoekscoördinaten (Amersfoort/RD New). It expresses in meters the distance to a central point in Amersfoort, the Netherlands.*
site coding:	
site coding available:	*yes* *numerical*
number of digits:	*5*
example:	*30-001*
number of sites:	*100 - 1000*
comments:	*Not all parameters were measured at each site and/or every year.*

Climate and environmental data

climate related data:

available per: *per catchment*

available parameters:

daily air temperatures
http://www.knmi.nl/over-het-knmi/about
data source:
winter and summer precipitation
http://www.knmi.nl/over-het-knmi/about
data source:
evaporation
http://www.knmi.nl/over-het-knmi/about
data source:
mean discharge
Waterschap Vechtstromen
data source:

environmental data:

available parameters per catchment: *catchment size*
Waterschap Vechtstromen
data source:

available parameters per site: *information on water uses (e.g., irrigation, fish ponds)*
Waterschap Vechtstromen
data source:

available parameters per site: *discharge*
Waterschap Vechtstromen
data source:

physico-chemistry data: *total P, ortho P, nitrate, nitrite, total N, ammonium, sulphate, chloride, magnesium, calcium, oxygen content, BOD5 (biochemical oyxgen demand), water temperature, pH, chlorophyll, suspended solids*

availability of physico-chemical data, if there is more than one sample per site:
per sample

comments: *Depending on the site, one or multiple samples were taken during 2000-2012.*

stressors influencing the sites:

reference sites available: *no*

stressor	restored sites available	data before/after restoration available	stressor gradient available	comments
eutrophication	no	no	no	
hydrologic stress (e.g. impoundment, flow velocity reduction, hydropeaking, water abstraction, flow velocity increase)	no	no	no	

Biological data

biological data origin:	*from sampling*
specify project:	*River Basin Management Plan - Waterboard Vechtstromen*
organism group addressed:	*fish, macro-invertebrates (Mollusca, Ephemeroptera, Odonata, Plecoptera, Coleoptera, Trichoptera, Chironomidae), macrophytes*

Sample specifications/sample resolution

fish:

sample information:

covered timeframe:

year from - to: *2000 - 2012*

historical data: *no*

palaeo data: *no*

season: *spring, autumn*

temporal resolution/frequency of sampling:

The temporal resolution depends on sampling location. Some locations were measured more frequently (yearly) than others (some only once).

time series data: *yes*

comments: *Mainly data between 2007-2011.*
For more specific information and/or longer term information please contact waterboard Vechtstromen.

taxonomic resolution: *species*

percentage of species level data: *99*

comments: *The percentage of species level data is an estimate. This dataset also contains fish sizes.*

taxonomic coding:

taxalist according to: *WNS code*

citation: *WNS stands for 'Waarnemingssoort' (type of measurement), a Dutch coding system. If needed the data can also be requested with latin species names for easier international use.*

coding system: *WNS code*

example: *GASTACUL*

sample specifications: *quantitative (abundance data)*

replicate samples: *no*

number of samples: *902*

specification of method(s) used for sampling and sorting:

Fishing, electrical fishing, seine fishing, sight.

citation: *Bijkerk, Ronald and Marco Beers. Handboek Hydrobiologie. 1st ed. Amersfoort: STOWA, 2010. Print.*
http://handboekhydrobiologie.stowa.nl/Het_Handboek/Het_Handboek.aspx

sample type (e.g. habitat specific samples, composite samples etc.):

Composite samples.

macro-invertebrates:

sample information:

covered timeframe:

year from - to: *2000 - 2012*

historical data: *no*

palaeo data: *no*

season: *spring, autumn*

temporal resolution/frequency of sampling:

The temporal resolution depends on sampling location. Some locations were measured more frequently (yearly) than others (some only once).

time series data: *no*

comments: *This part of the data contains mainly data between 2007-2011.*

For more specific information and/or longer term information please contact waterboard Vechtstromen.

taxonomic resolution: *order, family, genus, species*

percentage of species level data: *65*

comments: *The percentage of species level data is an estimate.*

taxonomic coding:

taxalist according to: *WNS code*

citation: *WNS stands for 'Waarnemingssoort' (type of measurement), a Dutch coding system. If needed the data can also be requested with latin species names for easier international use.*

coding system: *WNS code*

example: *TUFICIAE*

sample specifications: *quantitative (abundance data)*

replicate samples: *no*

number of samples: *1296*

specification of method(s) used for sampling and sorting:

Sampling is usually done by multi-habitat sampling with a standard macrofauna handnet. Sample sorting is done up to species level and lifestage. For specifics see the Handbook Hydrobiologie (Dutch).

citation: *Bijkerk, Ronald and Marco Beers. Handboek Hydrobiologie. 1st ed. Amersfoort: STOWA, 2010. Print. http://handboekhydrobiologie.stowa.nl/Het_Handboek/Het_Handboek.aspx*

sample type (e.g. habitat specific samples, composite samples etc.):

Composite samples.

specific sample location (e.g. littoral, profundal, transect, shoreline, hyporheic zone, etc.):

Depending on the sampling site: littoral, profundal, and hyporheic zone.

macrophytes:

sample information:

covered timeframe:

year from - to: *2000 - 2012*

historical data: *no*

palaeo data: *no*

season: *spring, autumn*

temporal resolution/frequency of sampling:

The temporal resolution depends on sampling location. Some locations were measured more frequently (yearly) than others (some only once)

time series data: *yes*

taxonomic resolution: *species, other*

other taxonomic levels: *type*

percentage of species level data: *90*

comments: *The percentage of species level data is an estimate. The types are: emerging, floating and submerged species.*

taxonomic coding:

taxalist according to: *WNS code*

citation: *WNS stands for 'Waarnemingssoort' (type of measurement), a Dutch coding system. If needed the data can also be requested with latin species names for easier international use.*

coding system:	*WNS code*
example:	*URTICDIO*
sample specifications:	*semi-quantitative*
replicate samples:	*no*
number of samples:	*1280*
specification of method(s) used for sampling and sorting:	
	Depending on the size of the sampling area the whole system or parts of the system are sampled according to the Handboek Hydrobiologie. Per sampled area the cover per species and species type are estimated (Tansley scale).
citation:	*Bijkerk, Ronald and Marco Beers. Handboek Hydrobiologie. 1st ed. Amersfoort: STOWA, 2010. Print. http://handboekhydrobiologie.stowa.nl/Het_Handboek/Het_Handboek.aspx*
sample type (e.g. habitat specific samples, composite samples etc.):	
	Composite samples.
specific sample location (e.g. littoral, profundal, transect, shoreline, hyporheic zone, etc.):	
	Depending on the water body: Littoral, between 0-1m depth, lake/river floor.

Other specifications

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

availability of photos: *no*

availability of maps: *yes*

quality control procedures:

Were any quality control procedures applied to your dataset?
no