General information

name of the dataset:

    full name of the dataset: *Monitoring data from the federal state North Rhine-Westphalia (Germany)*

    dataset short name: *Monitoring data North Rhine-Westphalia (Germany)*

type of dataset (more information**):**   *species distribution data*

    data type: *point data/observation data*

    short description of the dataset/summary:

    The dataset consists of occurrence data of the aquatic organism groups fish, macroinvertebrates and macrophytes that were sampled in the German federal state North Rhine-Westphalia between 2004 and 2009. The sampling was conducted according to the protocols of the national monitoring programme for implementation of the Water Framework Directive.

science keywords according to GCMD**:**

    topic: *Biosphere*

    keywords: *Monitoring data, Water Framework Directive, Fish, Macroinvertebrates, Macrophytes*

ISO topic category according to ISO 19115**:**

    Biota, Inland Waters

Technical and administrative specifications

data format:	*Excel*
operating system:	*all operating systems*
data language:	*German*
current access level:	*restricted access*
currently available through GBIF:	*no*
exchange planned:	*no*
comments:	*This data will be available through the BioFresh data portal.*
	No claim is made that the data gives a complete picture of occurrence since the sampling stations in the dataset do not cover all waterbodies. The resource creator does not guarantee for the correctness of the data.
update level:	*update planned*
documentation:	
type:	*internal description*
language:	*German*
Do you plan to publish the data on the Freshwater Biodiversity data portal:	
media for data delivery:	*e-mail*
contact details:	
metadata contact person:	
first, last name:	*Veronica Dahm*
phone:	*(+49)2011834724*
email:	*veronica.dahm@uni-due.de*
institution:	*University of Duisburg-Essen*
address:	*Universitätsstrasse 5*
postal code, city:	*45141 Essen*
province, state:	*North Rhine-Westphalia*
country	*Germany*
technical contact person:	
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first, last name:	*Norbert Kirchhoff*
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comments:	*Address of scientific contact person:*
	Landesamt für Natur, Umwelt und Verbraucherschutz NRW (LANUV), FB 55,
	Leibnizstraße 10, 45659 Recklinghausen, Germany

Intellectual property rights and citation

dataset publisher(if the database is already published)*BioFresh*
dataset creator (data compiler):

    contact name: *Landesamt für Natur, Umwelt und Verbraucherschutz NRW (LANUV)*
    contact email: *Leibnizstraße 10, 45659 Recklinghausen, Germany;*
                                          norbert.kirchhoff@lanuv.nrw.de

data contributors to/owners of this dataset:

                                          single
    criteria for using the data in a publication/scientific analysis:
                                          The dataset is publicly available (data portal, data archive) and can be
                                          used without restrictions, but must be acknowledged and cited correctly.

citation of this dataset:

    author(s):   *Landesamt für Natur, Umwelt und Verbraucherschutz NRW (LANUV)*
    title: *River monitoring data from the federal state North Rhine-Westphalia*
                                          (Germany) of the years 2004 - 2009.
    year: *2011*
    doi (if applicable):   *http://dx.doi.org/10.13148/bfe91*

citation of the metadata:
comments: *No claim is made that the data gives a complete picture of occurrence*
                                          since the sampling stations in the dataset do not cover all waterbodies. The
                                          resource creator does not guarantee for the correctness of the data.

General data specifications

regional coverage of the dataset:

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

spatial extend (bounding coordinates):

southernmost latitude [°]:	*50.3*
northernmost latitude [°]:	*52.6*
westernmost longitude [°]:	*5.8*
easternmost longitude [°]:	*9.5*
minimum altitude:	*9.8 metres*
maximum altitude:	*600 metres*
countries:	*Europe: Germany*
comments:	*Federal state North Rhine-Westphalia*

Site specifications

coordinate system/grid data:

datum (e.g. WGS84):	*WGS84*
grid data available:	*no*
site coding available:	*yes*
	alphanumerical
example:	*NW_500045*
number of sites:	*>1000*
exact number of sites:	*2561*

Biological data

biological data origin: *from sampling*
  specify project: *WFD operational monitoring*

organism group addressed: *fish, macro-invertebrates, macrophytes*

Sample resolution

fish:

taxonomic resolution:	*species*
percentage of species level data:	*100*
taxonomic coding:	
taxalist according to:	*Bayerisches Landesamt für Umwelt: Taxaliste der Gewässerorganismen Deutschlands*
coding system:	*DV_NR*
example:	*9020*

macro-invertebrates:

taxonomic resolution:	*family, genus, species*
percentage of species level data:	*65*
comments:	*Percentage is an approximate value.*
taxonomic coding:	
taxalist according to:	*Perlodes: Operationelle Taxaliste (Version Mai 2011)*
coding system:	*ID_ART*
example:	*5095*

macrophytes:

taxonomic resolution:	*genus, species*
percentage of species level data:	*75*
comments:	*Percentage is an approximate value.*
taxonomic coding:	
taxalist according to:	*Bayerisches Landesamt für Umwelt: Taxaliste der Gewässerorganismen Deutschlands*
coding system:	*DV_NR*
example:	*2258*

fish:

Other specifications

GIS layers, shapes related to the dataset:

no data available

quality control procedures:

Were any quality control procedures applied to your dataset?

yes