



Metadata

Joint Danube Survey 2001, 2007

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General information

name of the database:

full name of the database: *Joint Danube Survey 2001, 2007*

database short name: *JDS*

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

specify: *environ. info existing, seperate db; availability?*

data type: *point data/observation data*

short description of the database/summary:

JDS was an initiative by the ICPDR to investigate the whole Danube river both with biological and chemical parameters. Goal: chemical status / biological status assessment; www.icpdr.org

2001:

*94 sites along the Danube river incl. some larger tributaries at confluence
benthic invertebrate data, qualitative sampling*

2007:

96 sites

benthic invertebrate data, airlift sampling

science keywords according to [GCMD](#):

topic: *Biosphere, Biological Classification*

keywords: *Danube, benthic invertebrates, ecological status assessment, WFD,*

ISO topic category according to [ISO 19115](#):

Biota, Environment, Inland Waters

Technical and administrative specifications

data format: Access
others/details: original data in special software ECOPROF

operating system: all Windows systems

data language: German
specify: some entries in English

current availability: internal, others/specify
others/details: availability from ICPDR to be checked

update level: completed
others/details: completed for 2001 and 2007; new data for 2013 planned

documentation:
type: others/specify
language: English
others/details: reports from both JDS events available at <http://www.icpdr.org/jds>; no report on raw data (?)

Do you plan to publish the data on the BioFresh data portal:

yes
media for data delivery: e-mail

contact details:

metadata contact person:

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comments: useability of benthic invertebrate data will be discussed by BOKU-IHG with ICPDR, for all other data (specified in the following questionnaires) ICPDR has to be contacted directly

Intellectual property rights and citation

(if the database is already published):

database creator (data compiler):

contact name: *ICPDR*

data contributors to/owners of this database:

single

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

Other/Additional criteria

Other/Additional criteria:

to be discussed with ICPDR

citation of this database:

author(s):

Liska, I., Wagner F., Slobodnik J. (EDS)

title:

*Joint Danube Survey 2 - Final Scientific Report.- ICPDR, Vienna, 242 pp.
http://www.icpdr.org/jds/files/ICPDR_Technical_Report_for_web_low_corrected.pdf*

year:

2008

citation of the metadata:

comments:

agreement for data availability (benthic invertebrates) will be discussed by BOKU with ICPDR

General data specifications

regional coverage of the database:

scale of the database: *regional*

continents: *Europe*

countries: *Europe: Austria, Bulgaria, Croatia, Germany, Hungary, Moldova, Romania, Serbia, Slovakia, Ukraine*

comments: *2001 also available, but method of sampling different*

Site specifications

coordinate system/grid data:

other site classification parameters:

hydromorphological survey of total Danube river available: e.g. river width, river depth, discharge (mean/low/high), several parameters on channel form (alterations, substrate...), banks (slope, stabilisation, bank vegetation...), floodplains (land use, corridor width); Schwarz U., Kraier W. (2008): Full report on hydromorphology. ICPDR, 49 pp.

site coding available:

yes

alphanumerical

example:

R2096

number of sites:

<100

exact number of sites:

96

comments:

coding system probably not unique for biology and hydromorph ??

Climate and environmental data

climate related data:

available per: *per site*
available parameters: *mean discharge*
data source: *ICPDR*
comments: *probably some non-ticked parameters also available; ICPDR to be contacted*

environmental data:

available parameters per catchment: *catchment size*
data source: *ICPDR*
available parameters per catchment: *catchment geology*
data source: *ICPDR*
available parameters per catchment: *catchment land cover/land use*
data source: *ICPDR*
available parameters per catchment: *presence of barriers/dams/reservoirs (fragmentation)*
data source: *ICPDR*
available parameters per site: *information on riparian vegetation (incl. information on modification)*
available parameters per site: *information on embankment (incl. information on modification)*
available parameters per site: *information on channel form (incl. information on modification)*
available parameters per site: *river length*
available parameters per site: *distance to mouth*
available parameters per site: *slope*
available parameters per site: *altitude*
available parameters per site: *discharge*
available parameters per site: *current velocity*
available parameters per site: *maximum depth*
available parameters per site: *mean depth*
available parameters per site: *substrate composition*
available parameters per site: *information on instream habitat (incl. information on modification)*
comments: *parameters above are available for stretches, but not or not always for the exact biological sampling sites; probably some of the non-ticked parameters are also available (not known by heart)*

for details please consider the hydromorphological report Schwarz & Kraier (2008) and contact ICPDR concerning Danube site database

physico-chemistry data:

total P, ortho P, nitrate, nitrite, ammonium, magnesium, alkalinity, oxygen content, water temperature, pH, conductivity, chlorophyll, Secchi disc depth, suspended solids, substrate

other physico-chemical parameters all parameters taken can be seen in Joint Danube Survey 2 - Final Scientific Report.- ICPDR, Vienna, 242 pp.

http://www.icpdr.org/jds/files/ICPDR_Technical_Report_for_web_low_corrected.pdf

examples of parameters taken:

Pesticides; Bacteriological parameters: E.coli, Enterokocci; TC; Dissolved silicates(SiO₂); EU WFD organic priority substances; (heavy) metals (Cd, Hg, Pb, Ni, As, Cr, Cu, Zn,....; Al, Mn, Fe)

comments: *availability of data to be discussed with ICPDR*

stressors influencing the sites:

reference sites available: *no*

<i>stressor</i>	<i>restored sites available</i>	<i>data before/after restoration available</i>	<i>stressor gradient available</i>	<i>comments</i>
<i>eutrophication</i>	<i>no</i>			
<i>hydromorphological degradation</i>	<i>no</i>			
<i>organic pollution</i>	<i>no</i>			
<i>toxic stress</i>	<i>no</i>			
<i>general degradation</i>	<i>no</i>			
<i>hydrologic stress (e.g. impoundment, flow velocity reduction, hydropeaking, water abstraction, flow velocity increase)</i>	<i>no</i>			
<i>thermal stress</i>	<i>no</i>			
<i>socio-economic stress</i>	<i>no</i>			
<i>other stressors</i>	<i>no</i>			

comments:

stressoes on water bodies in the Danube have benn determines in the Danube Basin Analysis (WFD Roof Reprot 2004)
<http://www.icpdr.org/wim07-mysql/search.php?tpl=icpdr-searchresult&siteid=2&q=roof+report>

Biological data

biological data origin: *from sampling*
specify project: *Joint Danube Survey*

organism group addressed: *fish, macro invertebrates (Mollusca, Crayfish, Ephemeroptera, Odonata, Plecoptera, Trichoptera, Chironomidae), zooplankton, phytoplankton, phytobenthos, macrophytes*

comments: *in BOKU-database only benthic invertebrates; for other groups ICPDR to be contacted*

Sample specifications/sample resolution

fish:

sample information:

covered timeframe:

year from: 2007

historical data: no

palaeo data: no

season: summer

temporal resolution/frequency of sampling:

once during the JDS

time series data: no

taxonomic resolution: *genus, species*

taxonomic coding:

sample specifications:

comments: *data availability to be checked with ICPDR*

macro invertebrates:

sample information:

covered timeframe:

year from: 2007

historical data: no

palaeo data: no

season: summer

temporal resolution/frequency of sampling:

airlift samples per site ; mostly 6 airlifts, often taken 3 at each bank side

time series data: no

comments: *2001 also available, but different sampling method*

taxonomic resolution: *genus, species*

comments: *best level possible*

taxonomic coding:

taxalist according to: *Fauna Aquatica Austriaca*

coding system: *ID numbers*

sample specifications: *semi-quantitative*

replicate samples: *yes*

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

airlift sampling; 96 sites with 6 airlifts mostly

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

river bottom sampled (whatever present)

zooplankton:

sample information:

comments: *data availability to be checked with ICPDR*

taxonomic resolution:

taxonomic coding:

sample specifications:

comments: *data availability to be checked with ICPDR*

phytoplankton:

sample information:

taxonomic resolution:

taxonomic coding:

sample specifications:

comments: *data availability to be checked with ICPDR*

phytobenthos:

sample information:

taxonomic resolution:

taxonomic coding:

sample specifications:

comments: *data availability to be checked with ICPDR*

macrophytes:

sample information:

taxonomic resolution:

taxonomic coding:

sample specifications:

comments: *data availability to be checked with ICPDR*

Other specifications

GIS layers, shapes related to the database:

others (specify): *several GIS infos available, ICPDR to be contacted on details*

availability of photos: *yes*

availability of maps: *yes*

quality control procedures:

Were any quality control procedures applied to your database?

yes

quality control protocols and comments:

ECOPROF has a taxa catalogue in the background; entries unified, no possibility to enter non-existing/non-certified taxa

comments:

benthic invetebrate data in BOKU-database; for all other data ICPDR to be contacted