



# Metadata

## Joint Danube Survey 3

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### General information

#### name of the dataset:

full name of the dataset: *Joint Danube Survey 3*

full name of the dataset (original/national language):

*Joint Danube Survey 3*

dataset short name:

*JDS3*

**type of dataset** ([more information](#)): *environmental characteristics database*

specify: *Chemical and biological status of Danube*

data type: *descriptive data*

short description of the dataset/summary:

*The Joint Danube Survey 3 (JDS3), was the world's biggest river research expedition of its kind in 2013, the UN International Year of Water Cooperation, with full results published in spring 2015. JDS3 catalyzed international cooperation from all 14 of the main Danube Basin countries and the European Commission, united through the International Commission for the Protection of the Danube River (ICPDR).*

#### keywords according to [GCMD](#):

topic: *Atmosphere, Biological Classification, Land Surface, Solid Earth, Terrestrial Hydrosphere*

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

*Biota, Environment, Geoscientific Information, Health, Inland Waters, Location*

#### INSPIRE keywords according to [GEMET](#):

*Geology, Human health and safety, Hydrography, Land cover, Land use, Meteorological geographical features, Mineral resources, Natural risk zones, Oceanographic geographical features, Protected sites, Soil, Species distribution*

#### own science keywords:

*Danube river, survey, expedition, analysis, sediments, flora, fauna*

#### related project:

*TNMM - TransNational Monitoring Network*

#### funding:

*The German Federal Environmental Agency, Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management,*

## Technical and administrative specifications

**data format:** *others/specify*  
 others/details: *PDF, DCTs*  
**operating system:** *all operating systems*  
**data language:** *English*  
**current access level:** *web (public)*  
 web address: <http://www.danubesurvey.org/jds3/>  
 others/details: <https://www.icpdr.org/wq-db/>  
 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:

*yes*

**update level:** *completed*

### documentation:

type: *scientific paper*  
 others/details: *Analysis*  
 language: *English*

### contact details:

#### metadata contact person:

first, last name: *ICPDR Secretariat Vienna International Centre, Room D0412*  
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 institution: *The International Commission for the Protection of the Danube River*  
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 web address: *www.icpdr.org*

#### technical contact person:

first, last name: *Edith HÄDL*  
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#### scientific contact person:

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## Intellectual property rights and citation

**dataset publisher** (if already published): *International Commission for the Protection of the Danube River*

**dataset creator (data compiler):**

contact name: *ICPDR Secretariat*

contact email: *secretariat@icpdr.org*

contact institution: *The International Commission for the Protection of the Danube River*

**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): *Liška, I.; Wagner, F.; Sengl, M.; Deutsch, K.; Slobodník, J.*

title and journal (name, number, pages):

*Joint Danube Survey 3. A Comprehensive Analysis of Danube Water Quality; ICPDR?International Commission for the Protection of the Danube River: Vienna, Austria, 2015; p. 369.*

year: *2015*

**citation of the metadata:**

## General data specifications

### regional coverage of the dataset:

spatial extent of the dataset: *continental*  
 continents: *Europe*  
 countries: *Europe: Austria, Bulgaria, Croatia, Czech Republic, Germany, Hungary, Moldova, Montenegro, Romania, Serbia, Slovakia, Slovenia, Ukraine*

### world climatic regions according to [Köppen](#):

*Group B: dry (arid and semiarid) climates*  
*Group C: temperate/mesothermal climates*  
*Group D: continental/microthermal climate*

freshwater ecoregions of the world (FEOW) according to [WWF](#):

*Europe: Dniester - Lower Danube, Upper Danube*

European ecoregions according to Illies ([WFD](#)):

*Central Highlands (ER9), The Carpathians (ER10), Hungarian Lowlands (ER11), Pontic Province (ER12)*

**ecosystem type:** *rivers*

**coverage timeframe:** *2013*

year to: *2013*

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## Site specifications

<b>coordinate system/grid data:</b>	<i>latitude/longitude, format: DMS</i>
grid data available:	<i>no</i>
<b>number of sites:</b>	<i>&lt;100</i>
exact number of sites:	<i>68</i>

## Climate and environmental data

**climate related data:** *no climate data available*

**environmental data:**

- available parameters per catchment: *catchment geology*
- available parameters per catchment: *catchment land cover/land use*
- available parameters per catchment: *presence of barriers/dams/reservoirs (fragmentation)*
- available parameters per catchment: *hydrological regime/flow regime*

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

- available parameters per site: *information on floodplain inundation duration*
- available parameters per site: *information on groundwater level and amplitude*
- 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: *information on cross section (incl. information on modification)*
- available parameters per site: *information on water uses (e.g., irrigation, fish ponds)*
- available parameters per site: *distance to next migration barrier upstream*
- available parameters per site: *distance to next migration barrier downstream*
- available parameters per site: *distance to the next lake upstream*
- available parameters per site: *distance to the next main village/town upstream*
- available parameters per site: *river length*
- available parameters per site: *distance to source*
- available parameters per site: *distance to mouth*
- available parameters per site: *stream order (according to Strahler)*
- available parameters per site: *slope*
- available parameters per site: *altitude*
- available parameters per site: *hydrological regime/flow regime*
- 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: *wetted width*
- available parameters per site: *substrate composition*
- available parameters per site: *information on instream habitat (incl. information on modification)*
- available parameters per site: *vadose zone thickness (groundwater)*

**physico-chemical data:** *total P, ortho P, total dissolved P, nitrate, nitrite, total N, ammonium, sulphate, chloride, sodium, magnesium, labile aluminium, calcium, hardness, alkalinity, TOC (total organic carbon), oxygen content, pH, conductivity, chlorophyll, colour, suspended solids, substrate, sediment/soil parameters*

other physico-chemical parameters *Heavy metals*

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

<b>eutrophication</b>				
<b>hydromorphological degradation</b>				
<b>acidification</b>				
<b>organic pollution</b>				
<b>toxic stress</b>				
<b>general degradation</b>				
<b>hydrologic stress (e.g. impoundment, flow velocity reduction, hydropeaking, water abstraction, flow velocity increase, etc.)</b>				
<b>thermal stress</b>				
<b>socio-economic stress</b>				

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## Other specifications

availability of photos: yes

availability of maps: yes

### quality control procedures:

Were any quality control procedures applied to your dataset?

yes

quality control protocols and comments:

*-Standard Operational Procedures (SOPs)*

*-Analytical Quality Control (AQC)*