



Metadata

MacroMED: Database on Macroinvertebrates of Mediterranean Climate Watercourses

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General information

name of the dataset:

full name of the dataset: *MacroMED: Database on Macroinvertebrates of Mediterranean Climate Watercourses*

dataset short name: *MacroMED*

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

specify: *Macroinvertebrates of water courses*

data type: *point data/observation data*

short description of the dataset/summary:

Macroinvertebrate species (and also some subspecies) per site together with environmental variables collected in the Mediterranean climate rivers world-wide.

science keywords according to [GCMD](#):

topic: *Biosphere, Biological Classification, Terrestrial Hydrosphere*

keywords: *Macroinvertebrates, Mediterranean climate, rivers, stream, water courses,*

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

Biota, Environment, Geoscientific Information, Inland Waters

Technical and administrative specifications

data format: *Access*
others/details: *The database is also available in Excel*
operating system: *all Windows systems*
data language: *English*
current access level: *internal*
others/details: *Data holder is Núria Bonada (bonada@ub.edu)*
update level: *continuously updated*
documentation:
type: *internal description*
language: *English*
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: *Carmen Zamora-Muñoz*
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province, state: *Catalonia*
country: *Spain*
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technical contact person:
scientific contact person:
first, last name: *Núria Bonada*
phone: *+34 934031375*
email: *bonada@ub.edu*

Intellectual property rights and citation

(if the database is already published):

dataset creator (data compiler):

contact name: *MacroMED contingency fund*
contact email: *Núria Bonada (bonada@ub.edu) & Carmen Zamora-Muñoz (czamoraugr.es)*

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): *BLANCO-GARRIDO, F.; ZAMORA-MUÑOZ, C. & BONADA, N.*
title: *MacroMED: Macroinvertebrates in Mediterranean climate watercourses*
year: *2013*

citation of the metadata:

General data specifications

regional coverage of the dataset:

scale of the dataset: *global*

continents: *Africa, North America, South America, Asia, Europe, Oceania*

countries: *Africa: Algeria, Morocco, South Africa, Tunisia*

North America: United States

South America: Chile

Asia: Israel, Lebanon, Turkey

Europe: Croatia, France, Greece, Italy, Portugal, Spain

Oceania: Australia

Site specifications

coordinate system/grid data:	<i>latitude/longitude, format: DD</i>
comments:	<i>Site coordinates were included in various formats (UTM, Lat/Long, ...) within the database, however all of them were transformed into DD</i>
site coding available:	<i>yes</i> <i>alphanumerical</i>
example:	<i>Hajji_etal_BoletinSEA2012_R09</i>
number of sites:	<i>>1000</i>
exact number of sites:	<i>3220</i>
comments:	<i>The number of digits with respect to site coding is not fixed.</i>

Climate and environmental data

climate related data:

available per: *per site*

available parameters: *mean discharge*

environmental data:

available parameters per site: *no parameter data per catchment available*

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: *stream order (according to Strahler)*

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: *substrate composition*

available parameters per site: *information on instream habitat (incl. information on modification)*

physico-chemistry data: *total P, nitrate, nitrite, ammonium, sulphate, chloride, magnesium, calcium, hardness, alkalinity, TOC (total organic carbon), oxygen content, water temperature, pH, conductivity, suspended solids, substrate*

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

mean values per site

Biological data

biological data origin:

specify method:

general compilation

literature survey, compilation of existing databases, data provided by expertises, ...

organism group addressed:

macro-invertebrates (Mollusca, Crayfish, Ephemeroptera, Odonata, Plecoptera, Trichoptera, Chironomidae), other group(s): Coleoptera, Diptera, Hemiptera, Prostigmata, Haplotaxida, Amphipoda, etc.

Sample specifications/sample resolution

macro-invertebrates:

sample information:

covered timeframe:

year from - to: 1916 - 2012

historical data: yes

season: spring, summer, autumn

temporal resolution/frequency of sampling:

the frequency of sampling is variable, depending on the design selected by the paper's authors

taxonomic resolution:

species, other

other taxonomic levels: subspecies

percentage of species level data: 100

taxonomic coding:

taxalist according to: *PESI and Global Name Index*

coding system: *International*

example: *Ecdyonurus baeticus*

sample specifications:

quantitative (abundance data), semi-quantitative, qualitative, presence/absence

replicate samples: no

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

Various methodologies depending on the design selected by the paper's authors

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

Multihabitat sampling

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

Multihabitat sampling

other group(s):

sample information:

taxonomic resolution:

taxonomic coding:

sample specifications:

Other specifications

GIS layers, shapes related to the dataset:

others (specify): *others/specify*
Samplig sites

availability of photos: *no*

availability of maps: *yes*

quality control procedures:

Were any quality control procedures applied to your dataset?

yes

quality control protocols and comments:

All data included in the database have been submitted to a complete quality control in order to reduce, as much as possible, potential problems such as spelling errors, coordinate errors, or mismatches between tables. Moreover, names of species and subspecies have been revised and corrected. When possible, we adopted species and subspecies nomenclature from PESI (Pan-European Species directories Infrastructure, www.eu-nomen.eu/portal/taxamatch.php). When species names were not found in PESI (mostly because they belong to other non-European countries), names were checked in the Global Name Index (http://gni.globalnames.org/name_strings).