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Shoreline fish distribution in Italian lakes assessed by electrofishing

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Keywords

fish biodiversity, electrofishing, lakes , reservoirs

Short description of the dataset/summary

The dataset includes data on fish species distribution along the shoreline of 25 Italian lakes and reservoirs achieved by point abundance standardised electrofishing. Data were obtained between 2007 and 2014. The database offers a detailed description of the biodiversity of fish communities in the Italian regions of Piedmont, Lombardy, Trentino-Alto Adige and Sardinia including both natural lakes and reservoirs.

Short description of the dataset/summary (original/national language)

Il dataset include le informazioni sulla distribuzione della fauna ittica nella zona litorale di 25 laghi italiani. Le informazioni raccolte sono basate su campionamenti effettuati con elettrostorditore da una barca, condotti seguendo la riva di 25 bacini italiani.

General information

dataset entry ID:	FWM_20
name of the dataset:	
full name of the dataset:	Shoreline fish distribution in Italian lakes assessed by electrofishing
full name of the dataset (original/national language):	Distribuzione della fauna ittica lungo il litorale di 25 laghi italiani
dataset short name:	Shoreline fish distribution in Italian lakes
type of dataset:	species distribution data
data type:	point data/observation data
science keywords according to GCMD:	
topic:	Biosphere, Biological Classification, Climate Indicators, Terrestrial

Hydrosphere

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

Biota, Environment, Inland Waters

INSPIRE keywords according to [GEMET](#):

Species distribution

own science keywords: freshwater fish; Italy; lakes; non native fish species; PASE electrofishing

related project:

LIFE+ Inhabit, WISER, CENSIMENTO DELLA FAUNA ITTICA DEI LAGHI SUDALPINI

funding:

INHABIT - LIFE08 ENV/IT/000413.

WISER - European Union, 7th Framework Programme, Theme 6 (Environment including Climate Change) (contract No. 226273).

CENSIMENTO DELLA FAUNA ITTICA DEI LAGHI SUDALPINI - REGIONE LOMBARDIA.

Technical and administrative specifications

data format:

csv

operating system:

all operating systems

data language:

English

current access level:

web (public)

currently available through [GBIF](#): yes

exchange planned: yes

data in data repository: yes

specify repository: http://150.145.35.118/Datasets/Shoreline_fish_distribution.csv**Do you plan to publish the data on the Freshwater Biodiversity Data Portal:**

already published through the Freshwater Biodiversity Data Portal completed

update level:**documentation:**

type: manual

language: English

contact details:

metadata contact person:

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Intellectual property rights and citation

dataset creator (data compiler):

contact name: Pietro Volta
 contact email: p.volta@cnr.it
 contact institution: Water Research Institute IRSA - Consiglio Nazionale delle Ricerche

data contributors to/owners of this dataset:

criteria for using this dataset: single
 The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

citation of this dataset:

author(s): Volta, P. & Galafassi, S.
 title and journal (name, number, pages): Database on shoreline fish distribution in italian lakes assessed by electrofishing.
 year: 2018
 doi: <https://doi.org/10.15468/pq0enb>

citation of the metadata:

author(s): Galafassi, S, Sala, P & Volta, P
 title and journal (name, number, pages): Shoreline fish distribution in Italian lakes assessed by electrofishing. Freshwater Metadata Journal 42: 1-5
 year: 2019
 doi: <https://doi.org/10.15504/fmj.2019.42>

General data specifications

regional coverage of the dataset:

spatial extent of the dataset: national
 continents: Europe

spatial extent (bounding coordinates):

southernmost latitude [°]: 40.553089
 northernmost latitude [°]: 46.756744
 westernmost longitude [°]: 7.125792
 easternmost longitude [°]: 12.085461
 minimum altitude: 43 metres
 maximum altitude: 2275 metres
 countries: Europe: Italy

world climatic regions according to Köppen:

Group C: temperate/mesothermal climates
 Group D: continental/microthermal climate
 Group H: alpine climates

European ecoregions according to Illies (WFD):

Italy, Corsica and Malta (ER3)

ecosystem type: lakes/ponds

covered timeframe: 2007 - 2014

Site specifications

coordinate system/grid data:	latitude/longitude, format: DD projected, UTM
datum (e.g. WGS84):	WGS84
number of sites:	<100
exact number of sites:	25

Biological data

biological data origin:	from sampling, INHABIT - LIFE08 ENV/IT/000413. WISER - European Union, 7th Framework Programme, Theme 6 (Environment including Climate Change) (contract No. 226273). CENSIMENTO DELLA FAUNA ITTICA DEI LAGHI SUDALPINI - REGIONE LOMBARDIA
comments:	
organism group addressed:	fish

Sample resolution

fish:

taxonomic resolution:

level:	species
percentage of species level data:	100

taxonomic coding:

taxalist according to:	Kottelat & Freyhof
reference(s):	Kottelat, M. & Freyhof, J., 2007. Handbook of European freshwater fishes. Publications Kottelat, Cornol and Freyhof, Berlin. 646 pp.

sample specifications:

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

The electrofishing device was a built-in-frame EL64GII (Scubla Acquaculture, 7,000 W, 600 V, DC current) set up with a copper cathode (width 2.5 cm, length 300 cm) and a steel ring anode (thickness 0.8 cm, diameter 50 cm). The Point Abundance Sampling Electrofishing (PASE) method (Copp & Garner, 1995; ISPRA, 2014) was used in which the anode is dipped for 20 s at each sampling point. The number of points depended on lake size and habitat complexity.

reference(s):	Copp, G. H. & Garner, P., 1995. Evaluating microhabitat use of fish larvae and juveniles with point abundance sampling. <i>Folia Zoologica</i> 44: 145-158. ISPRA, 2014. <i>Metodi biologici per le acque superficiali interne. Manuali e linee guida</i> 111/2014. Rome, Italy. ISBN 978-88-448-0651
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Other specifications

GIS layers, shape files related to the dataset:

no data available

availability of photos:	no
availability of maps:	no

quality control procedures:

Were any quality control procedures applied to your dataset?

no

References

Copp, G. H. & Garner, P., 1995. Evaluating microhabitat use of fish larvae and juveniles with point abundance sampling. *Folia Zoologica* 44: 145-158.

ISPRA, 2014. Metodi biologici per le acque superficiali interne. Manuali e linee guida 111/2014. Rome, Italy. ISBN 978-88-448-0651

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