

# Geographical distribution database of freshwater fishes from Argentina

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# Geographical distribution database of freshwater fishes from Argentina

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## Keywords

fishes, freshwater, argentina, database, distribution

## Short description of the dataset/summary

The main objective of this database is to compile and publish high-quality, georeferenced information on the distribution of inland fish from the Argentine Republic. It has fields of information of various types: systematic and conservation status (23 fields), geographical (16), literature (12), georeferencing and associated quality (12), and collection (3). It currently has 19,000 records of nearly 550 valid native and 24 exotic species, which were scattered across 800 scientific publications and museum collections. 30% of the records correspond to specimens while the rest of the records are observational.

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

El objetivo central de esta base de datos es compilar y publicar información, georreferenciada y de alta calidad, sobre la distribución de los peces de aguas continentales de la República Argentina. Posee campos de información de diversos tipos: de sistemática y status de conservación (23 campos), geográficos (16), de bibliografía (12), de georreferenciación y calidad asociada (12), y de colección (3). Actualmente cuenta con unos 19.000 registros de casi 550 especies nativas y 24 exóticas válidas, que se encontraban dispersos en más de 800 publicaciones científicas y varias colecciones de museos. Un 30% de los registros corresponden a especímenes mientras que el resto de los registros son observacionales.

## General information

dataset entry ID: FWM\_27

### name of the dataset:

full name of the dataset: Freshwater Fishes from Argentina

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

Distribución geográfica de los peces de aguas continentales de Argentina

dataset short name:	BasePecesArg
<b>type of dataset:</b>	species distribution data
data type:	point data/observation data
<b>science keywords according to <a href="#">GCMD</a>:</b>	
topic:	Terrestrial Hydrosphere
<b>ISO topic category according to <a href="#">ISO 19115</a>:</b>	Biota, Geoscientific Information, Inland Waters, Location
<b>INSPIRE keywords according to <a href="#">GEMET</a>:</b>	Administrative units, Bio-geographical regions, Geographical names, Habitats and biotopes, Hydrography, Species distribution
own science keywords:	Argentina, freshwater fishes, distribution
<b>funding:</b>	Museo de Ciencias Naturales "A. Scasso"

## Technical and administrative specifications

<b>data format:</b>	Excel
<b>operating system:</b>	Win 7
<b>data language:</b>	Spanish
<b>current access level:</b>	web (public)
web address:	www.pecesargentina.com.ar
others/details:	Not all fields are available in the website; information can be requested via infobasepecesarg@gmail.com
currently available through <a href="#">GBIF</a> :	no
exchange planned:	yes
data in data repository:	yes
specify repository:	Ictioplata (partial)

### Do you plan to publish the data on the Freshwater Biodiversity Data Portal:

	no
<b>update level:</b>	continuously updated
<b>documentation:</b>	
type:	manual
language:	Spanish

### contact details:

metadata contact person:	
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## Intellectual property rights and citation

### dataset creator (data compiler):

contact name: Jorge Liotta  
 contact email: jorgerliotta@gmail.com  
 contact institution: Museo de Ciencias Naturales "A. Scasso"

### data contributors to/owners of this dataset:

criteria for using this dataset: single  
 The dataset needs to be requested from dataset creator with specific conditions of use.  
 other/additional criteria: Certain fields of the dataset are available in a website (www.pecesargentina.com.ar), free of charge, with prior login. A distribution map for the selected species is shown.  
 Users can request more data by contacting infobasepecesarg@gmail.com.

### citation of this dataset:

author(s): Liotta, J.  
 title and journal (name, number, pages): Base de datos de peces de aguas continentales de Argentina. Published on: <http://www.peceargentina.com.ar>. Accessed on [dd/mm/yyyy].  
 year: 2019

### citation of the metadata:

author(s): Liotta J.  
 title and journal (name, number, pages): Geographical distribution database of freshwater fishes from Argentina. Freshwater Metadata Journal 47: 1-5  
 year: 2020  
 doi: <https://doi.org/10.15504/fmj.2020.47>

### dataset related references:

reference 1:  
 author(s): Liotta, J.  
 title: Distribución geográfica de los peces de aguas continentales de la República Argentina, PROBIOTA Serie Documentos N° 3, FCNyM, UNLP - Fundación Óga - Museo de Ciencias Naturales Rvdo. P. Antonio Scasso, 701 pp, Buenos Aires.  
 year: 2006

## General data specifications

### regional coverage of the dataset:

spatial extent of the dataset: national  
 continents: South America

### spatial extent (bounding coordinates):

southernmost latitude [°]: -68,5688889  
 northernmost latitude [°]: -21,9666667  
 westernmost longitude [°]: -73,1579722  
 easternmost longitude [°]: -53,6833333

minimum altitude: 0 metres  
 maximum altitude: 4000 metres  
 countries: South America: Argentina

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

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

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

South America: Bonaerensean Drainages, Chaco, Cuyan - Desaguadero, Iguassu, Lower Parana, Lower Uruguay, Mar Chiquita - Salinas Grandes, Patagonia, Upper Parana, Upper Uruguay, Valdivian Lakes

**ecosystem type:** rivers, lakes/ponds, wetlands, groundwater, general freshwater  
**covered timeframe:** 1860 - 2019

## Site specifications

**coordinate system/grid data:** latitude/longitude, format: DD  
 datum (e.g. WGS84): WGS84  
 grid data available: no  
 site coding available: no

**number of sites:** >1000

exact number of sites: 2883

**comments:** The sites are defined here concatenating decimal latitude and decimal longitude. Locality, province, water body, basin, etc. are completed for each record.

## Biological data

**biological data origin:** general compilation,  
 literature survey, compilation of existing databases, museum collections  
**comments:** Most of the data comes from scientific literature (more than 800 compiled papers), collections of Argentine and foreign museums have also been loaded.  
**organism group addressed:** fish

## Sample resolution

**fish:**

**taxonomic resolution:**

level: species  
 percentage of species level data: 99

**taxonomic coding:**

taxalist according to: Eschmeyer's Catalog of Fishes  
 reference(s): Fricke, R., Eschmeyer, W. N. & Van der Laan, R. (eds) 2019. Eschmeyer's Catalog of Fishes: genera, species, references. (<http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>). Electronic version accessed 13 dec 2019.

**sample specifications:**

## Other specifications

### GIS layers, shape files related to the dataset:

	species distribution
others/details:	GIS layers of species and higher taxa can be prepared. They are not available.
<b>availability of photos:</b>	yes
<b>availability of maps:</b>	yes
<b>quality control procedures:</b>	
Were any quality control procedures applied to your dataset?	yes
quality control protocols and comments:	<ul style="list-style-type: none"> <li>- Taxonomic validation (Fricke et al., 2019)</li> <li>- Georeference validation (checked with Google Earth)</li> <li>- Maximum Uncertainty Estimation (georeference calculator)</li> </ul>
reference(s):	<p>Fricke, R., Eschmeyer, W.N. &amp; Van der Laan, R. (eds) 2019. Eschmeyer's Catalog of Fishes: genera, species, references. <a href="http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp">http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp</a>). Electronic version accessed 13 dec 2019.</p> <p><a href="http://41.242.99.131/sigcalc/source/gci2.html">http://41.242.99.131/sigcalc/source/gci2.html</a> (leads to a Georeferencing calculator, provided by the Department of Computer Science and Applied Electronics of the National Center for Industrial and Technological Research of Madagascar)</p>

## Acknowledgements

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## References

Liotta, J., 2006. Distribución geográfica de los peces de aguas continentales de la República Argentina, PROBIOTA Serie Documentos N° 3, FCNyM, UNLP - Fundación Óga - Museo de Ciencias Naturales Rvdo. P. Antonio Scasso, 701 pp, Buenos Aires.