



# Metadata

## Bolivian Amazon lowland fish metacommunity data

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### General information

#### name of the dataset:

full name of the dataset: *Bolivian Amazon lowland fish metacommunity data*  
dataset short name: *Fish of Bolivian Amazon lowland*

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

specify: *Environmental data, fish abundances and biomass*  
data type: *point data/observation data*

short description of the dataset/summary:

*This dataset represents metadata from the paper Yunoki, T. and Torres, L. V. (2015): The role of water chemistry, connectivity and piscivory for ecological and evolutionary process structuring a fish metacommunity in the Bolivian Amazonian lowland.*

*This study documents the spatial dynamics of fish metacommunity based on the dataset of 65 sites in two geographic patches of transparent black and clear waters of the Amazonian Manuripi and Itenez Rivers, which are separated by river valleys with turbid waters originating in the Andes and the savanna.*

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

topic: *Biosphere, Biological Classification*  
keywords: *Fish, Bolivia, Amazon*

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

*Biota, Inland Waters*

## Technical and administrative specifications

**data format:** *Excel*  
**operating system:** *Win XP*  
**data language:** *English*  
**current access level:** *web (public)*  
web address (URL): *http://data.freshwaterbiodiversity.eu/data/BFE\_105-Bolivian\_fish*  
currently available through [GBIF](#): *yes*  
exchange planned: *yes*  
**update level:** *completed*  
**documentation:**  
type: *scientific paper*  
language: *English*

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

*yes*  
media for data delivery: *BioFresh IPT (<a href="http://data.freshwaterbiodiversity.eu/ipt" target="\_blank">IPT</a>)*  
web address: *http://data.freshwaterbiodiversity.eu/ipt/*

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## Intellectual property rights and citation

~~dataset publisher~~ is already published *BioFresh*

### dataset creator (data compiler):

contact name: *Takayuki Yunoki*  
contact email: *takayukiyunoki@yahoo.com*  
contact institution: *Universidad Autónoma del Beni 'José Ballivián' (CIRA-UAB)*

### 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): *BioFresh (publisher), Yunoki, T. and Torres L. V. (provider), Universidad Autónoma del Beni 'José Ballivian' (CIRA-UAB) (owner)*  
title: *Bolivian Amazon lowland fish metacommunity data. Published on <http://data.freshwaterbiodiversity.eu>, accessed on [date].*  
year: *2015*  
doi (if applicable): *<http://dx.doi.org/10.13148/bfe105>*

### citation of the metadata:

author(s): *Yunoki T. & Torres L.*  
title and journal (name, number, pages): *Bolivian Amazon lowland fish metacommunity data. Freshwater Metadata Journal 7: 1-6*  
year: *2015*  
doi (if applicable): *<http://dx.doi.org/10.15504/fmj.2015.7>*

## **General data specifications**

### **regional coverage of the dataset:**

scale of the dataset: *national*  
continents: *South America*

### **spatial extend (bounding coordinates):**

southernmost latitude [°]: *-15,89525*  
northernmost latitude [°]: *-11,1396*  
westernmost longitude [°]: *-69,00732*  
easternmost longitude [°]: *-62,75549*  
countries: *South America: Bolivia*

## Site specifications

**coordinate system/grid data:** *latitude/longitude  
projected*

datum (e.g. WGS84): *WGS84*

**other site classification parameters:**

*Names of the rivers that correspond to the site codes were provided. Sites were classified in lake or river channel.*

**site coding:**

site coding available: *yes  
alphanumerical*

number of digits: *5*

example: *MR1: the most upstream river channels of Manuripi*

**number of sites:** *<100*

exact number of sites: *65*

## **Climate and environmental data**

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

**environmental data:** *no parameter data per catchment available*

comments: *Lake connectivity was estimated using satellite imagery (Google Earth) and topography and was expressed by an ordinal variable transformed to ranks, where 1: connected; 2: near river channel; 3: away from the river channel, and 4: isolated.*

**physico-chemistry data:** *pH, conductivity, Secchi disc depth*

comments: *Transparency was log2-transformed.*

## **Biological data**

**biological data origin:** *from sampling*  
specify project:

organism group addressed: *fish*

comments: *This study was developed as a collaboration between Beni University (Universidad Autónoma del Beni 'José Ballivián'), Pand University (Universidad Amazónica de Pando), OGN HERENCIA, and OGN Hombre Naturaleza. The Nacional Park (Servicio Nacional de Areas Protegidas, SERNAP) provided assistance with fieldwork in the Manuripi (Reserva Nacional de Vida Silvestre Amazónica Manuripi) and the Isiboro Sécore (Parque Nacional Territorio Indígena Isiboro Sécore). The Bolivian Army assisted with fieldwork in the Tahuamanu, Manuripi, and Madre de Dios Rivers.*

## Sample specifications/sample resolution

### fish:

#### sample information:

covered timeframe:

year from - to: 2001 - 2007

historical data: no

palaeo data: no

season: winter

temporal resolution/frequency of sampling:

*Data were collected during the dry season in 2001, 2002, and 2007, once at each site.*

time series data: no

comments: *Sampling dates are provided.*

#### taxonomic resolution:

*genus, species*

other taxonomic levels: *gr. cf.*

percentage of species level data: 91

comments: *Peixes do rio Madeira Vols. I, II, and III (Jardim et al. 2013) provided the taxonomy of those species not yet described. We consider that the identifications based on Jardim et al. (2013) are species level, but gr. and cf.*

#### taxonomic coding:

taxalist according to: *Catalog of Fishes*

citation: *Eschmeyer, W.N. (ed). Catalog of Fishes: Genera, Species, References. (<http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>). Electronic version accessed 23 July 2014.*

#### sample specifications:

*quantitative (abundance data)*

replicate samples: no

number of samples: 65

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

*At each site, gill nets were deployed for 2 h each in the evening (17:30-19:30) and the morning (5:30-7:30). Gill nets (25 m long by 2.5 m high) extended from the lakeshore to a calm area in the river channel. Fish were sampled using 13 nets of varying mesh sizes: 10, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90 and 110 mm. CPUE was calculated for each species and site as the total number of individuals captured in all gill nets during 4 h (2 h each in morning and evening). The unit for the fish biomass is grams.*

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## **Other specifications**

### **GIS layers, shapes related to the dataset:**

*no data available*

### **quality control procedures:**

Were any quality control procedures applied to your dataset?

*yes*

quality control protocols and comments:

*Fish were fixed in 4% formaldehyde and later preserved in 75% ethanol. Voucher specimens of each species were deposited in the fish collection of the Universidad Autónoma del Beni 'José Ballivián' (CIRA-UAB). Catalog number and collection code were included.*