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Keywords

Fish, Bolivia, Amazon

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.

General information

dataset entry ID:	BFE_105
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:	species (taxonomic group) per site database including environmental information
data type:	point data/observation data
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 availability:	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 BioFresh data portal:	yes
media for data delivery:	BioFresh IPT (IPT)
web address:	http://data.freshwaterbiodiversity.eu/ipt/
contact details:	
metadata contact person:	
first, last name:	Takayuki Yunoki
phone:	591-3-4639205
email:	takayukiyunoki@yahoo.com
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address:	Campus Universitario, Trinidad, Beni, Bolivia
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country	Bolivia
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institution:	Royal Belgian Institute of Natural Sciences
address:	Vautierstraat 29, 1000 Brussels, Belgium
postal code, city:	1000 Brussels
country:	Belgium
web address:	http://data.freshwaterbiodiversity.eu/
scientific contact person:	
first, last name:	Takayuki Yunoki
phone:	591-3-4639205
email:	takayukiyunoki@yahoo.com

Intellectual property rights and citation

dataset publisher:	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:

multiple

number: 2

data contributor/owner 1:

contact name:

contact email:

contact institute:

data contributor/owner 2:

contact name:

contact email:

contact institute:

citation of this dataset:

author(s): Yunoki, T. and Torres, L.V.

title: Bolivian Amazon lowland fish metacommunity data.

year: 2015

doi: 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: http://dx.doi.org/10.15504/fmj.2015.7

dataset related references:

reference 1:

author(s): Yunoki, T. Torres, L. Ten, S. and García, V.

title: Aguas y peces del TCO Itonama y Parque departamental-Área natural de manejo integrado Itenez, Beni-Bolivia. Medio Acuático 1: 4-16. http://es.scribd.com/doc/87178969/Revista-Medio-Acuatico-N%C2%BA-1#scribd. Accessed 24 February 2015.

year: 2010

reference 2:

author(s): Yunoki, T. and Torres, L.

title: Aguas y peces del Mamoré central, Beni-Bolivia. Medio Acuático 2: 4-25. http://es.scribd.com/doc/83691388/REVISTA-MEDIO-ACUATICO-N%C2%BA2#scribd. Accessed 24 February 2015.

year: 2011

reference 3:

author(s): Yunoki, T. Torres, L. and Yagami, T.

title: Condiciones opticas y comunidades ictícolas en aguas blancas y negras, Ríos Tahuamanu, Manuripi y Madre de Dios, Amazonía Boliviana. Rev Cient Agro Amaz 1: 1-17. http://www.revistasbolivianas.org.bo/scielo.php?script=sci_arttext&pid=S2307?96062013000200001&lng=es&nrm=iso. Accessed 05 January 2015

year: 2013

General data specifications

regional coverage of the dataset:
scale of the dataset: national
spatial extend (bounding coordinates):
southernmost latitude [°]: -15,89525
northernmost latitude [°]: -11,1396
westernmost longitude [°]: -69,00732
easternmost longitude [°]: -62,75549
countries: South America: Bolivia
freshwater ecoregions of the world (FEOW) according to WWF:
South America: Guapore - Itenez, Mamore - Madre de Dios Piedmont
ecosystem type: rivers, lakes/ponds
covered timeframe: 2001 - 2007

Site specifications

coordinate system/grid data: latitude/longitude, format: DD
projected, UTM
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, Secci 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 Sécure (Parque Nacional Territorio Indígena Isiboro Sécure). The Bolivian Army assisted with fieldwork in the Tahuamanu, Manuripi, and Madre de Dios Rivers.

Sample specifications/sample resolution

fish:

sample information:
covered timeframe: 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:
level: 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
reference(s): 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:
type: 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.

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.

Acknowledgements

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References

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

Jardim, L.Q., Torrente-Vilara, G., Massaharu, W.O., Henrique, T.S.P. and Zuanon, J. (eds), 2013. Peixes do rio Madeira. Volumes I, II, and III. UNIR IEPAGRO INPA UFAM, Sâo Paulo, Brasil.

Yunoki, T. and Torres, L. , 2011. Aguas y peces del Mamoré central, Beni-Bolivia. Medio Acuático 2: 4-25. http://es.scribd.com/doc/83691388/REVISTA-MEDIO-ACUATICO-N%C2%BA2#scribd. Accessed 24 February 2015.

Yunoki, T., Torres, L. and Yagami, T. , 2013. Condiciones opticas y comunidades ictícolas en aguas blancas y negras, Ríos Tahuamanu, Manuripi y Madre de Dios, Amazonía Boliviana. Rev Cient Agro Amaz 1: 1-17. http://www.revistasbolivianas.org.bo/scielo.php?script=sci_arttext&pid=S2307?96062013000200001&lng=es&nrm=iso. Accessed 05 January 2015.

Yunoki, T., Torres, L., Ten, S. and García, V. , 2010. Aguas y peces del TCO Itonama y Parque departamental-Área natural de manejo integrado Itenez, Beni-Bolivia. Medio Acuático 1: 4-16. http://es.scribd.com/doc/87178969/Revista-Medio-Acuatico-N%C2%BA-1#scribd. Accessed 24 February 2015.