# Multilocus BOLD Dataset for Nearctic Polycentropodidae (Trichoptera): Metadata

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#### Keywords

Annulipalpia, biodiversity, caddisflies, distribution, DNA barcoding, phylogeny, taxonomy

#### Short description of the dataset/summary

The BOLD dataset "DS-POLYCSS Nearctic Polycentropodidae (Trichoptera)" contains publicly accessible molecular data and associated voucher collection data. Data include two loci (nuclear 28s rRNA D2 and mitochondrial cytochrome oxidase C (COI)), specimen images, collection data, and additional specimen data. Data pertain to hundreds of treated specimens and dozens of treated species, of different life stages and both sexes, of the Trichoptera family Polycentropodidae in the Nearctic, with an emphasis on Polycentropus sensu lato. Data will continued to be added during continued systematic studies of the family by the authors.

#### **General information**

dataset entry ID:	FWM_31
name of the dataset:	
full name of the dataset:	Multilocus BOLD Dataset for Nearctic Polycentropodidae (Trichoptera)
dataset short name:	DS-POLYCSS Nearctic Polycentropodidae
type of dataset:	others
data type:	descriptive data
science keywords according to GCMD:	
topic:	Biosphere, Biological Classification
ISO topic category according to <u>ISO 19115</u> :	
	Biota, Inland Waters
INSPIRE keywords according to <u>GEMET</u> :	
	Species distribution

aquatic insects, Annulipalpia, biodiversity, DNA barcoding, phylogeny,
taxonomy, Trichoptera
BOLD ORFIN - Nearctic Polycentropus sensu lato (Trichoptera:
Polycentropodidae)
This work was supported by the McIntire-Stennis Program from the USDA
National Institute of Food and Agriculture and by the USDA National Institute
of Food and Agriculture, 1890 Institution Capacity Building Grant Project
1021805.

# Technical and administrative specifications

data format:	others/specify
others/details:	Barcode of Life Database
operating system:	all operating systems
data language:	English
current access level:	web (public)
web address:	
http://www.boldsystems.org/index.php	/Public_SearchTerms?query=DS-POLYCSS
currently available through GBIF:	no
exchange planned:	no
data in data repository:	yes
specify repository:	BARCODE OF LIFE DATA SYSTEM v4
Do you plan to publish the data on	the Freshwater Biodiversity Data Portal:
	no
update level:	continuously updated, update planned
contact details:	
metadata contact person:	
first, last name:	Alexander Orfinger
phone:	3862902505
email:	a.orfinger@ufl.edu
institution:	University of Florida / Florida A&M University
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postal code, city:	32307 Tallahassee
province, state:	Florida
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scientific contact person:	
first, last name:	Alexander Orfinger
phone:	3862902505
email:	a.orfinger@ufl.edu

# Intellectual property rights and citation

dataset publisher:	BARCODE OF LIFE DATA SYSTEM $v4$ (BOLD)
dataset creator (data compi	er):
contact name:	Alexander Orfinger
contact email:	a orfinger@ufl.edu
contact institution:	Liniversity of Florida / Florida A&M University
data contributors to/owners	of this dataset
	multiple
number:	3
data contributor/owner 1:	5
contact name:	
	a orfinger Quel adu
contact email.	Liniversity of Florida / Florida A &M University
criteria for using this part of	of the dataset:
citteria for using this part of	The dataset is publicly available (data portal data archiva) and can be used
	The dataset is publicly available (data portal, data archive) and can be used
	without restrictions, but dataset creator/data contributors must be miormed
data contributor/ourser 0:	prior to publication. Data must be acknowledged and cited correctly.
data contributor/owner 2:	
contact name.	
	andrew.rasmussen@ramu.edu
contact institute:	Florida A&M University
criteria for using this part of	
	I he 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.
data contributor/owner 3:	
contact name:	
contact email:	raymond.hix@tamu.edu
contact institute:	Florida A&M University
criteria for using this part o	f the dataset:
	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):	Orfinger, A.B., Rasmussen, A.K. & Hix, R.L.
title and journal (name, nur	nber, pages):
	Dataset - DS-POLYCSS Nearctic Polycentropodidae (Trichoptera),
	BARCODE OF LIFE DATA SYSTEM v4, 2021, accessible at
	http://www.boldsystems.org/index.php/Public_SearchTerms?query=DS-POL YCSS
year:	2021
doi:	https://doi.org/10.5883/DS-POLYCSS
citation of the metadata:	
author(s):	Orfinger A.B., Rasmussen A.K. & Hix R.L.
title and journal (name, nur	nber pages).
	Multilocus BOLD Dataset for Nearctic Polycentropodidae (Trichoptera)
	Metadata. Freshwater Metadata Journal 51: 1-6
vear:	2021
doi:	https://doi.org/10.15504/fmi.2021.51

# General data specifications

regional coverage of the dataset:	
spatial extent of the dataset:	continental
continents:	North America
spatial extent (bounding coordinate	es):
southernmost latitude [°]:	10.7612000°
northernmost latitude [°]:	66.2282000°
westernmost longitude [°]:	-146.2500000°
easternmost longitude [°]:	-057.7410000°
countries:	North America: Canada, Costa Rica, Cuba, Dominican Republic, Mexico,
	United States
ecosystem type:	rivers, lakes/ponds, general freshwater
covered timeframe:	1979 - 2021

# **Site specifications**

coordinate system/grid data:	latitude/longitude, format: DD
datum (e.g. WGS84):	WGS84
grid data available:	yes
resolution:	10 - 100
unit:	m
number of sites:	100 - 1000
exact number of sites:	181
comments:	The number of sites is current as of February, 2021 but will increase as
	additional data are added.

# Climate and environmental data

climate related data: environmental data:	no climate data available
	no environmental data per catchment available
available parameters per site:	information on riparian vegetation (incl. information on modification) data source: collector(s)
	information on embankment (incl. information on modification) data source: collector(s)
	information on channel form (incl. information on modification) data source: collector(s)
	information on water uses (e.g., irrigation, fish ponds) data source: collector(s)
	distance to the next main village/town upstream data source: collector(s)
	stream order (according to Strahler) data source: collector(s)
	altitude data source: collector(s)
	information on instream habitat (incl. information on modification) data source: collector(s)

physico-chemical data:	no physico-chemical data available
stressors influencing the sites:	no stressor data available

#### **Biological data**

biological data origin:	from sampling,
	various projects
organism group addressed:	macro-invertebrates (Trichoptera)

# Sample specifications/sample resolution

macro-invertebrates:	
sample information:	
covered timeframe:	1979 - 2021
historical data:	yes
palaeo data:	no
season:	spring, summer, autumn, winter
temporal resolution/frequency of s	sampling:
	infrequent sampling frequency
comments:	Data collection and input are ongoing.
taxonomic resolution:	
level:	order, family, sub-family, genus, species
percentage of species level data:	85
comments:	Specimens are identified to species when possible.
taxonomic coding:	
taxalist according to:	Trichoptera Nearctica and Trichoptera World Checklist
reference(s):	- Rasmussen, A.K. & Morse, J.C., 2020. Distributional Checklist of Nearctic
	Trichoptera (Fall 2020 Revision). Unpublished, Florida A&M University,
	Tallahassee. 517 pp. [Available at http://www.Trichoptera.org]
	- Morse, J.C. (ed.), 2021. Trichoptera World Checklist.
	http://entweb.clemson.edu/database/trichopt/index.htm
sample specifications:	
type:	qualitative, presence/absence
replicate samples:	yes
specification of method(s) used fo	r sampling and sorting:
	Sampling methods varied according to life stage and collector. Collection
	method data are available within the individual specimens' "Specimen Page"
	when known. Collection methods included UV light trapping, sweep netting,
	malaise trapping, and emergence trapping for adults, and hand picking and
	standard benthic collecting methods for immature stages.

# **Other specifications**

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

no data available

 availability of photos:
 yes

 availability of maps:
 yes

 quality control procedures:
 were any quality control procedures applied to your dataset?

 yes
 yes

 quality control protocols and comments:
 standard BOLD quality assurance procedures.

 reference(s):
 reference (s):

http://www.boldsystems.org/libhtml\_v3/static/BOLD4\_Documentation\_Draft1.pdf

#### Acknowledgements

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#### References

Morse, J.C. (ed.), 2021. Trichoptera World Checklist. http://entweb.clemson.edu/database/trichopt/index.htm

Rasmussen, A.K. & Morse, J.C., 2020. Distributional Checklist of Nearctic Trichoptera (Fall 2020 Revision). Unpublished, Florida A&M University, Tallahassee. 517 pp. [Available at http://www.Trichoptera.org]

Ratnasingham, S. & Hebert, P.D., 2007. BOLD: The Barcode of Life Data System (http://www.barcodinglife.org). Molecular Ecology Notes, 7(3), 355-364. <u>https://doi.org/10.1111/j.1471-8286.2006.01678.x</u>