

to a Data Paper

Melissa Liu, content manager





Global Biodiversity Information Facility

Biodiversity Information Fund for Asia (BIFA)



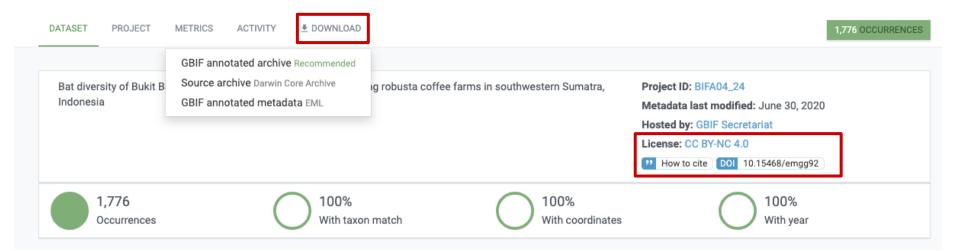
If you publish a dataset to GBIF...

OCCURRENCE DATASET | REGISTERED JUNE 19, 2020

Bats of Bukit Barisan Selatan Landscape, Sumatra, Indonesia

Published by Southeast Asian Bat Conservation Research Unit

Joe Chun Chia Huang ● Tigga Kingston ● Elly Lestari Rustiati ● Meyner Nusalawo ● 🖾 Gábor Csorba ● Tamás Görföl



Why is publishing data papers important?



Citable with credits



Global/ regional research network



The lead of your research field



More cooperation opportunities



Visible Readable Reusable



More funding opportunities

Reasons to publish data papers (1/4)

If you are a SCHOLAR/ PROFESSOR...

- Increase citations of your research.
- Earn academic credits



from Noun Project

Reasons to publish data papers (2/4)

If you are a SCHOLAR/ PROFESSOR...

| | Journal Impact factor 2019 | Scopus CiteScore 2019 | |
|---------------------------|----------------------------|-----------------------|--|
| Biodiversity Data Journal | 1.029 | 2.1 | |
| ZooKeys | 1.143 | 2.0 | |
| BMC Ecology | 2.381 | 3.5 | |
| PLoS One | 2.776 | 5.2 | |
| Scientific Data | 5.929 | 8.4 | |

Reasons to publish data papers (3/4)

If you are a STUDENT...

Only the 'METHODS' & 'RESULTS', including the RAW DATA, are required for data paper publication!

On the other hand, for the advisors...

- Students would leave, but research shall last.
- Data would be well-organized and could be reused in the future.
- Easier to find your data



Reasons to publish data papers (4/4)

If you are working in NGOs or other types of organizations...

If you leave the job...

Or if the project does not continue...

Getting credits from your work!

A solid reference for biodiversity conservation!



What is a data paper?

A citable and peer-reviewed description of your data NOT a research investigation.

Main components of a data paper





Considerations when picking up a data journal

- Data Format effort
- Writing effort
- Requirements of data quantity and significance
- List of data journals Index & publication fee

Data format efforts

No need for reformatting your data!

No need for reformatting your data!

No need for reformatting your data!

Darwin core is acceptable

Data format efforts

Main components of a data paper





Writing efforts

Main components of a data paper



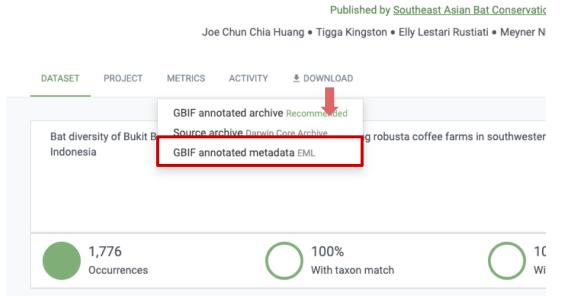


Where you publish the dataset

Writing efforts - General formats from GBIF

OCCURRENCE DATASET | REGISTERED JUNE 19, 2020

Bats of Bukit Barisan Selatan Landscape, Sumatra, Indonesia



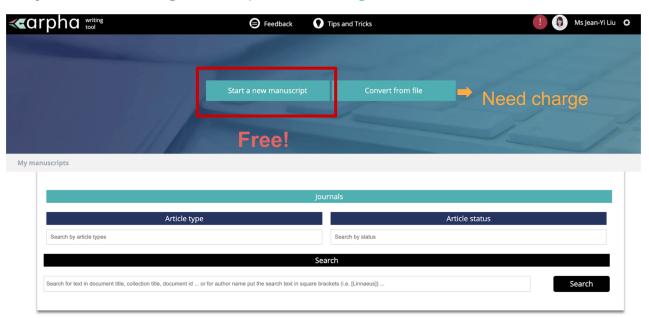
- Dataset Name
- Authors & Authors' information
- Citation
- Resource Citation
- Abstract & Keywords
- Project details
- Methods
- Method step description
- Dataset description

Metadata of your dataset

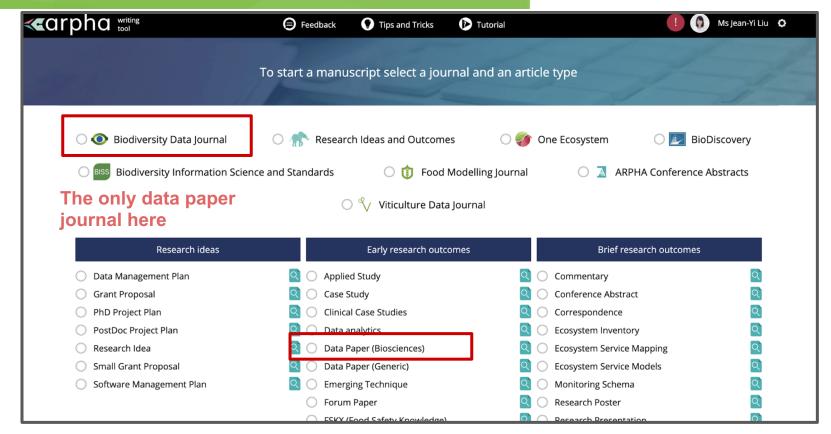
Writing efforts After downloading the metadata from GBIF (as the authors)

Choose a data paper journal —— Following their guideline and fit the contents in

Biodiversity data journal: using the arpha Writing Tool



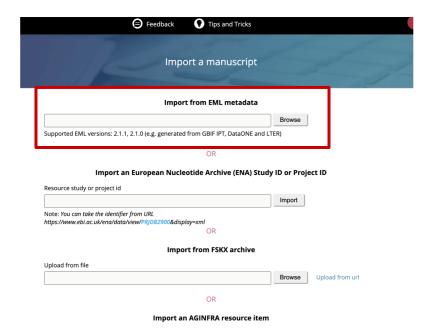
Writing efforts Biodiversity Data Journal: using the arpha Writing Tool



Writing effort Biodiversity Data Journal: using the arpha Writing Tool

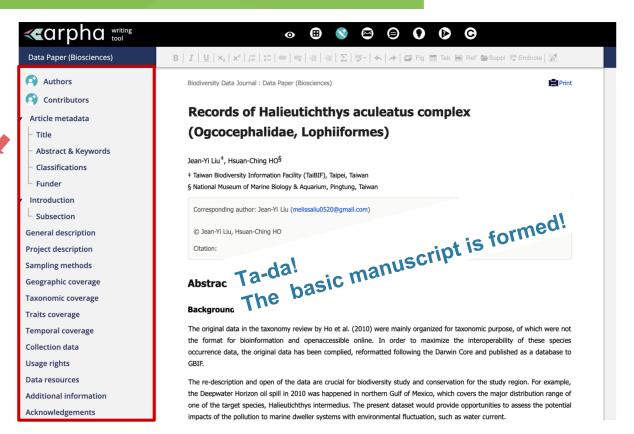


Import from EML metadata



Writing efforts Biodiversity Data Journal: using the arpha Writing Tool

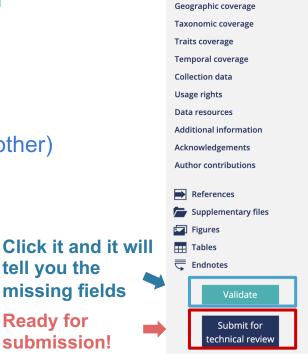
Edit the contents in detail by clicking each section



Writing efforts What else you should include

Biodiversity Data Journal: using arpha Writing Tool

- New information
- Introduction
- Purpose
- Usage rights: **choose a license** (CC-zero or other)
- Acknowledgements
- Author contributions
- References
- Figures / Tables



arpha writing tool

Data Paper (Biosciences)

Project description Sampling methods

tell you the missing fields

Ready for submission!





Introduction

Background

Writing effort

Data Paper

Dataset for mosquitoes (Diptera: Culicidae) from Vaca Key, Monroe County, Florida USA

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Corresponding author: Lawrence J. Hribar (Ihribar@keysmosquito.org)

Academic editor: Gunnar Kvifte

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Citation: Hribar LJ (2020) Dataset for mosquitoes (Diptera: Culicidae) from Vaca Key, Monroe County, Florida USA, Biodiversity Data Journal 8: e55059, https://doi.org/10.3897/BDJ.8.e55059

Abstract

Background

The Florida Keys Mosquito Control District has used dry ice-baited light traps to monitor mosquito populations on Vaca Key since 1998. The first site sampled was monitored continuously for almost 20 years until all vegetation was removed.

New information

This paper describes a dataset compiled over almost 20 years of continuous trapping along Manor Lane on Vaca Key, Florida.

Keywords

Diptera, Culicidae, seasonal distribution, species composition, relative abundance

The Florida Keys Mosquito Control District conducted adult mosquito surveillance along Manor Lane in Vaca Key for almost twenty years. Surveillance was accomplished by use of try ice-baited light traps. Traps were set and retrieved weekly except for interruptions due to unavoidable situations, such as storms and illness. Traps were provisioned with 2 pounds (ca. 1 kg) of dry ice, deployed in the late afternoon and retrieved the following morning. Traps were hung from the same tree limb each time they were set. Mosquitoes were returned to the laboratory, killed by freezing and identified to species. This paper reports data pertaining to 32 mosquito species.

General description

Purpose: These data were collected to document the species composition, seasonal distribution and relative abundance of mosquitoes on Vaca Key, Florida.

Sampling methods

Study extent: Monitoring of the mosquito fauna on Vaca Key began in the late summer of 1998 and continued until the winter of 2017. Collections were intended to be made weekly although, due to storms, illness and vacations, this was not always possible.

Sampling description: A battery-powered light trap (American Biophysics Company, Clarke, John Hock) was baited with approximately two pounds (ca. 1 kg) of dry ice and hung from the same tree limb once per week for over 19 years. The trap was deployed in the late afternoon and retreived the following morning. The trap collection was taken to the laboratory, frozen, and all mosquitoes separated, identified, and counted. Data were recorded in spreadsheets. Voucher specimens of all taxa are retained in the synoptic mosquito reference collection maintained by the Florida Keys Mosquito Control District. Data may be found in Suppl. material 1.

Geographic coverage

Description: The trap was deployed on Vaca Key, Monroe County, Florida, USA. The coordinates of the trap location trap were: 24°42'78"N, 81°04'56"W.

Taxonomic coverage

Description: Thirty-two mosquito species were documented during the sampling period.

Already done in GBIF metadata!

Traits coverage

The study site was described by Hribar (2002). Hribar et al. (2018) described population declines for the four most commmonly collected species

Temporal coverage

Notes: Data collection began on 17 August 1998 and ended on 27 December 2017.

Usage rights

Use license: Creative Commons Public Domain Waiver (CC-Zero)

Data resources

Data package title: CSV
Number of data sets: 1

Data set name: Manor Lane BDJ

Data format: Data in spreadsheet, csv.

Description: Number of adult female mosquitoes collected per trap per night. NA indicates that the species was not reported and so no numbers are available.

Acknowledgements

Sincere appreciation and thanks are extended to all Florida Keys Mosquito Control District employees who set and retrieved traps for all the years that collections were made at the Manor Lane site. Heldi L. Murray and David J. DeMay counted, sorted, and identified many thousands of the mosquitoes.

References

- Hribar LJ (2002) Mosquito (Diptera: Culicidae) collections in the Florida Keys, Monroe County, Florida, USA. Studia Dipterologica 9: 679-6921.
- Hribar LJ, DeMay DJ, Murray HL (2018) Life and death of a trap site. Wing Beats 29 (1): 33-38.

Supplementary material

Suppl. material 1: Manor Lane BDJ doi

Authors: Hribar, L.J.

Data type: Count data in a csv spreadsheet.

Brief description: Approximately 19.5 years of neal BDJ_article_55059.pdf is from Vaca Key, Monroe County, Florida.

Download file (107.29 kb)

Writing efforts General formats of a data paper

Just read the journal guideline

Title & Authors & Affiliations

Abstract & keywords

Background / Introduction

Project details

Study area description/ Design description/ Geographic coverage/ Taxonomic coverage/ Temporal Coverage...

Methods

Data records / Data resources

Overview of your data files and their formats / explain each data record associated with this work

Technical Validation / Quality control

Citations of Public Resource Databases

Acknowledgements

Author contributions

Figures & Tables

References

Complete metadata as more as you can!

Stories should be addressed in your data paper

- No claims regarding new scientific findings
- Potentials of data reuse
- Importance of the data to biodiversity science
- Contributions of each researcher and other participants, e.g. the metadata provider
- Figures: the spatial information of data, the experimental workflow
- Tables: taxonomic information of species, explanation fields of data

Data quantity and significance

The representative of your data is more important than the data quantity

New records of species
New taxa
Filling the temporal or spatial gaps

List of data journals (example) - Index & Publication fee

Animalia

Occurrence

Sampling event

Distribution

Biodiversity

| Data journal | Publisher | Impact factor 2019 | Scopus 2019 | Charge |
|---------------------------|-------------------------|-----------------------|----------------|-----------|
| Check List Taxonomy | Biotaxa | - | 0.9 | EUR 150 |
| Data in Brief | Elsevier | - | 1.5 | USD 500 |
| Biodiversity Data Journal | Pensoft | 1.029 | 2.1 | EUR 100 |
| ZooKeys | Pensoft | 1.143 | 2.0 | EUR 300 |
| Ecological Research | Wiley | 1.546 | 3.0 | Free |
| BMC Ecology | Biomed Central | 2.381 | 3.5 | EUR 1,870 |
| PLoS One | Plos | 2.776 | 5.2 | USD 1,300 |
| Scientific Data | Nature Publishing Group | 5.929 | 8.4 | USD 1,675 |

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Thank you

A data paper guideline will be released in this October!

Hopefully...

Feel free to contact us taibif.brcas@gmail.com



Coral Reef, from New Taipei City, Taiwan, by Eloise Fan