

generated January 2025

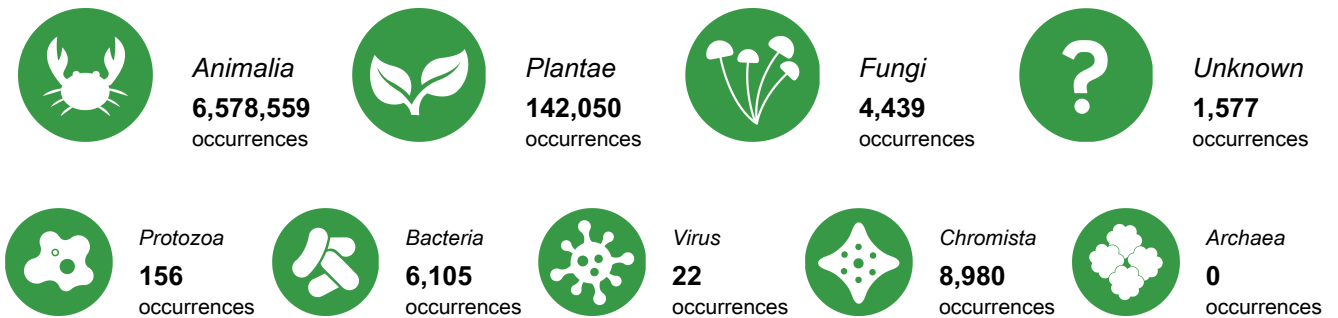
Belize

This report provides a series of summary charts, statistics and other details about the mobilization and use of open-access species data through the GBIF network, relating to users and participating institutions in Belize. These metrics show status at the time of report generation, unless otherwise noted. Taken together, the elements of this report can help guide and measure progress toward the information needs for biodiversity research, as well as for national commitments on biodiversity and sustainable development.

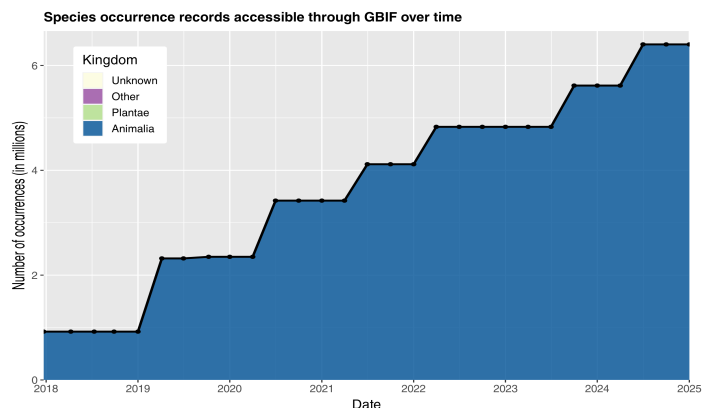
► Access and usage



► Data availability in Belize



► Data mobilization

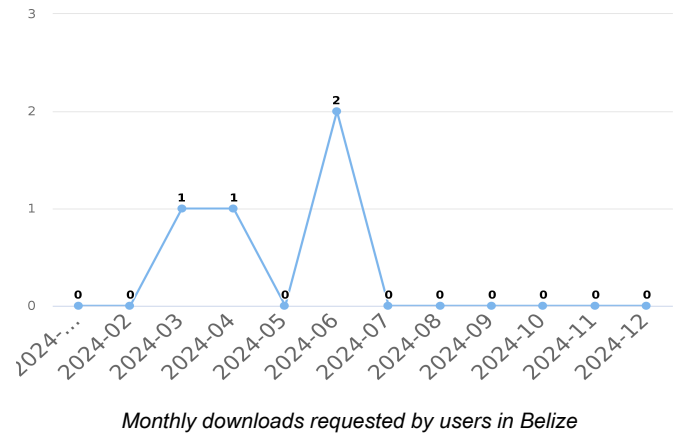
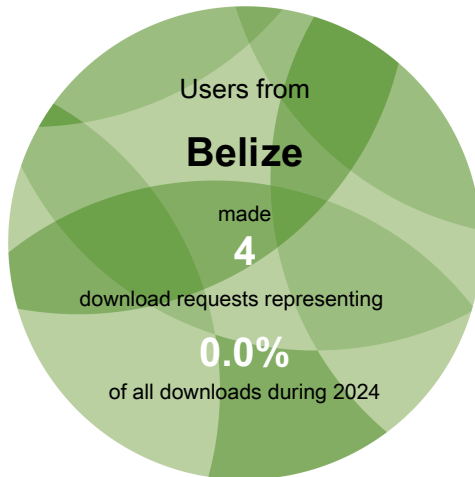


Number of records published by institutions in Belize, categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in Belize



Recent peer-reviewed articles using GBIF-mediated data by co-authors based in Belize

The GBIF Secretariat maintains and reports on an ongoing literature tracking programme, giving priority to substantive uses of GBIF-mediated data in peer-reviewed literature while identifying the countries or areas of the authors' institutional affiliations. The citations below represent the five most recent journal articles with at least one co-author from Belize.

Those interested in assisting the Secretariat in identifying additional peer-reviewed uses of GBIF-mediated data may forward relevant citations to comms@gbif.org.

Munscher, Pop, Pearson *et al.* (2022) First verified observation of the Narrow-bridged Musk Turtle, *Claudius angustatus* Cope, 1865 from the Toledo District of southern Belize. *Herpetology Notes*.

Elías, Fuentes-Montejo, Quintana *et al.* (2022) □ Non-native freshwater fishes in Guatemala, northern Central America: introduction sources, distribution, history, and conservation consequences. *Neotropical Biology and Conservation*.
<https://doi.org/10.3897/neotropical.17.e80062>

Thornton, Reyna, Perera-Romero *et al.* (2020) Precipitous decline of white-lipped peccary populations in Mesoamerica. *Biological Conservation*.
<https://doi.org/10.1016/j.biocon.2020.108410>

van Kleunen, Dawson, Essl *et al.* (2015) Global exchange and accumulation of non-native plants. *Nature*.
<https://doi.org/10.1038/nature14910>

See all research from this country or area
gbif.org/country/BZ/publications/from



Data availability

Total data available for selected taxonomic groups in Belize



Mammals
9,010
occurrences



Birds
6,440,376
occurrences



Bony fish
37,215
occurrences



Amphibians
3,832
occurrences



Insects
34,146
occurrences



Reptiles
10,320
occurrences



Molluscs
10,600
occurrences



Arachnids
1,964
occurrences



Flowering plants
118,888
occurrences



Ferns
7,918
occurrences



Gymnosperms
700
occurrences



Mosses
3,841
occurrences



Sac fungi
2,109
occurrences



Basidiomycota
2,133
occurrences

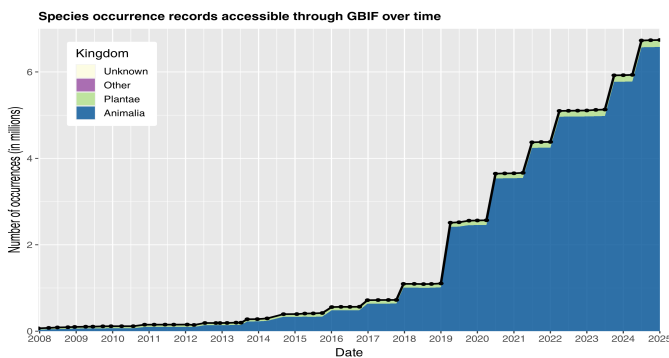
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

Insects = Class *Insecta*
Reptiles = Class *Testudines*,
Sphenodontia, *Squamata* &
Crocodylia
Molluscs = Phylum *Mollusca*

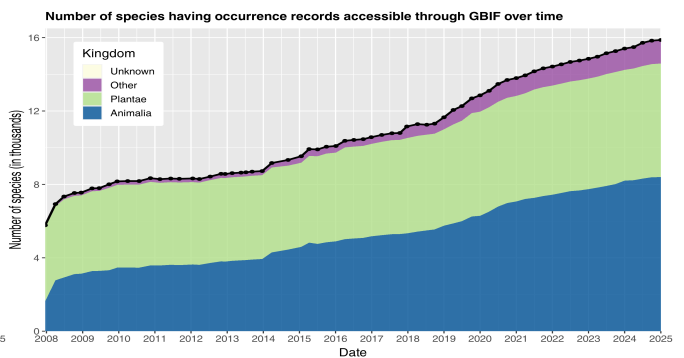
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

Ferns = Phylum *Pteridophyta*
Mosses = Phylum *Bryophyta*
Sac fungi = Phylum *Ascomycota*
Basidiomycota = Phylum
Basidiomycota

Change over time in records about biodiversity in Belize



Occurrence records available about species occurring in Belize



Species for which at least one occurrence record is available in Belize

WHY MIGHT THE AMOUNT OF MOBILIZED DATA DECREASE?

Datasets are sometimes removed by publishers, but more often decreases in the number of records are due to the removal of duplicate records and datasets.

SPECIES COUNTS represent the number of binomial scientific names for which GBIF has received data records, organized as far as possible using synonyms recorded in key databases like the Catalogue of Life



Most recent datasets from publishers in Belize

Point Count Data for TIDE's Private Land (Starcher), Belize 2009-2012. *Published by University of Belize Environmental Research Institute*
<https://doi.org/10.15468/qfzmqx>

Point Count Data for TIDE's Private Land (Block 127), Belize 2009-2013. *Published by University of Belize Environmental Research Institute*
<https://doi.org/10.15468/xxs6mb>

Point Count Data for Chaa Creek Lodge, Belize 1997-2001. *Published by University of Belize Environmental Research Institute*
<https://doi.org/10.15468/tixaov>

Point Count Data for Payne's Creek National Park, Belize 2008-2013. *Published by University of Belize Environmental Research Institute*
<https://doi.org/10.15468/nspvwq>

Point Count Data for the Maya Golden Landscape, Belize 2010-2016. *Published by University of Belize Environmental Research Institute*
<https://doi.org/10.15468/h1pmff>

Point Count Data for TIDE's Private Land (Kern), Belize 2009-2013. *Published by University of Belize Environmental Research Institute*
<https://doi.org/10.15468/obxmoa>

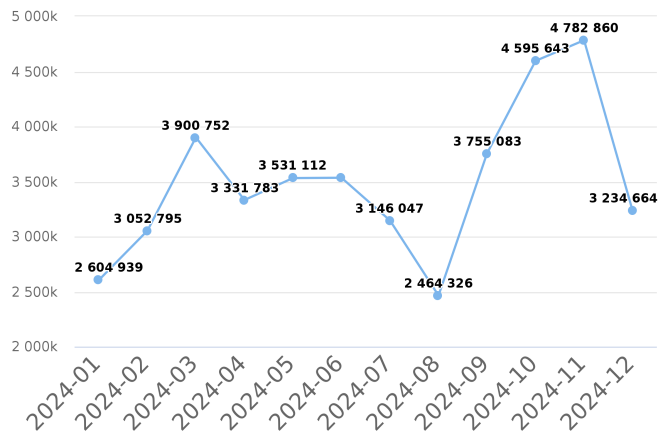
See all datasets from this country or area: gbif.org/dataset/search?publishing_country=BZ

Newest publishers from Belize

University of Belize Environmental Research Institute

See all publishers from this country or area
gbif.org/publisher/search?country=BZ

Occurrence records downloaded from GBIF.org, published by institutions in Belize

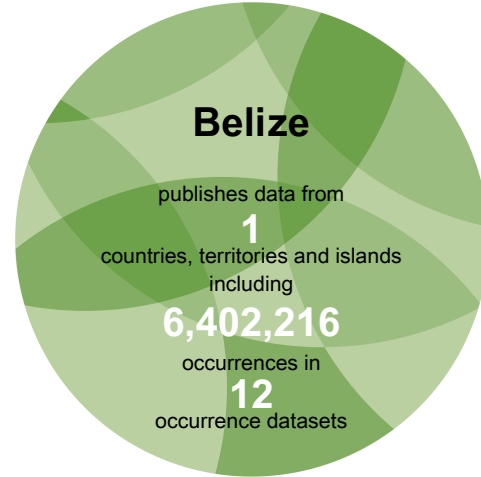
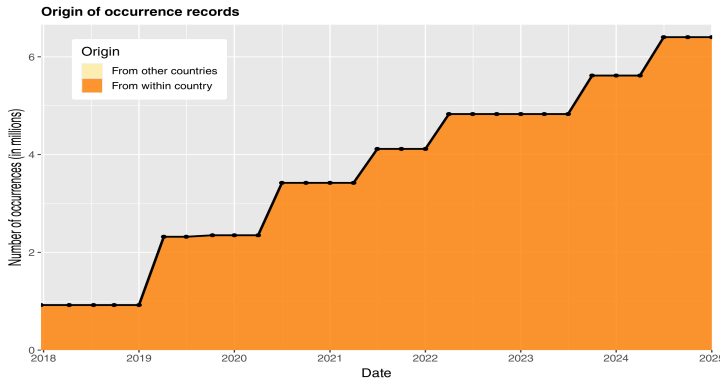


Number of occurrence records downloaded via GBIF.org published by institutions in Belize



Data mobilization

Data sharing with country or area of origin by national institutions in Belize



Data sharing with country or area of origin

The chart above shows the number of records shared over time by publishers within Belize, with separate colours for records about species occurring within undefined and those occurring elsewhere.

Top data contributors about biodiversity in Belize

Rank	Country or area	No. of occurrences
1	Belize	6,402,216
2	United States of America	248,332
3	United Kingdom	36,068
4	Mexico	14,896
5	Canada	10,572
6	International organization or unknown country	8,042
7	Venezuela	5,692
8	Netherlands	3,310
9	Sweden	3,063
10	France	1,797

Top datasets contributing data about Belize

- EOD – eBird Observation Dataset. 6,370,692 occurrences in Belize. (Last updated 27 Sep 2024)
- iNaturalist Research-grade Observations. 62,030 occurrences in Belize. (Last updated 30 Dec 2024)
- NMNH Extant Specimen Records (USNM, US). 51,036 occurrences in Belize. (Last updated 2 Jan 2025)
- Tropicos MO Specimen Data. 36,246 occurrences in Belize. (Last updated 4 Jan 2025)
- Point Count Data for Chaa Creek Lodge, Belize 1997-2001. 15,615 occurrences in Belize. (Last updated 15 Jul 2019)

Table 1. Ranking of countries or areas contributing data about Belize

See all contributing countries and areas or datasets: gbif.org/country/BZ/about



Belize participates in the following projects coordinated by GBIF

Improving natural resources management in Belize by mobilizing biodiversity data

BID: Biodiversity Information for Development, 2017–2018

This project will seek to compile and analyze several large, uncompiled datasets on birds in Belize and publicly disseminate the results through eBird and the GBIF network.

<https://www.gbif.org/project/83247>

See all GBIF projects
[gbif.org/resource/search?contentType=project](https://www.gbif.org/resource/search?contentType=project)