



generated January 2025

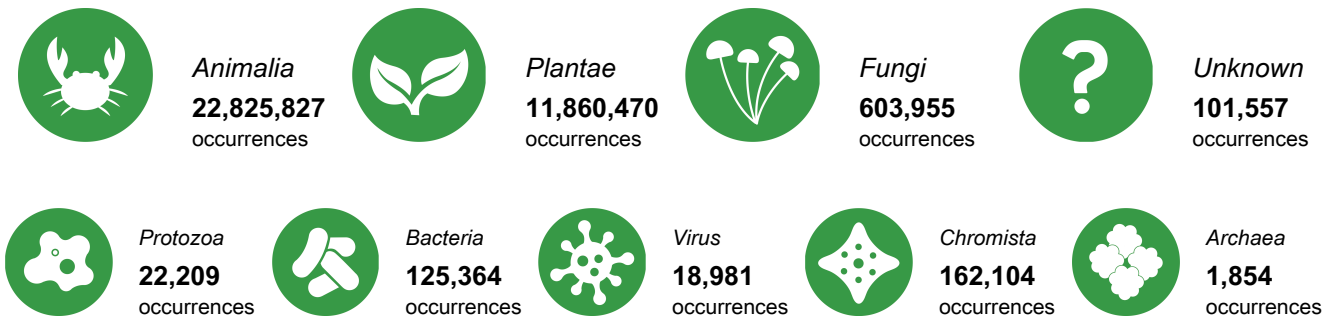
## Brazil

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 Brazil. 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.

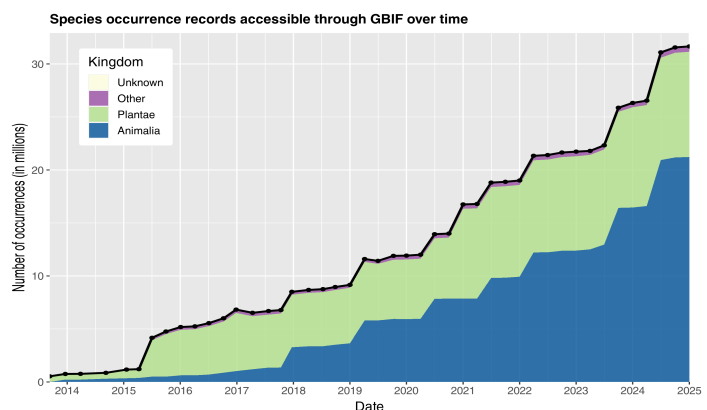
### ► Access and usage



### ► Data availability in Brazil



### ► Data mobilization

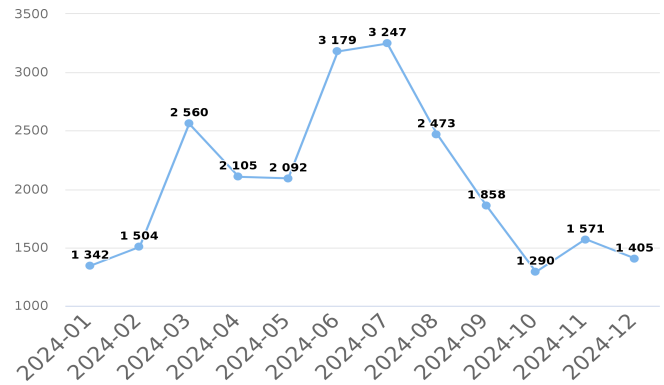
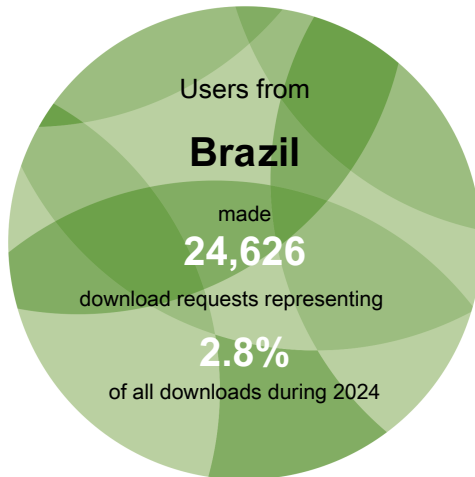


Number of records published by institutions in Brazil, categorized by kingdom



## Access and usage

### Data downloads on GBIF.org from users in Brazil



Monthly downloads requested by users in Brazil

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

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 Brazil.

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

Jain, Cunha, Bunsen *et al.* (2024) Insect Identification in the Wild: The AMI Dataset. *Lecture Notes in Computer Science, Computer Vision – ECCV 2024*.

[https://doi.org/10.1007/978-3-031-72913-3\\_4](https://doi.org/10.1007/978-3-031-72913-3_4)

Barros, Paixão, Sacramento *et al.* (2024) Predicting the climate change and suitable areas of *Digitaria insularis* based on CMIP6 projections by MaxEnt. *New Zealand Journal of Agricultural Research*.

<https://doi.org/10.1080/00288233.2024.2433211>

ANTÚNEZ-FONSECA, RAMOS-GALDAMEZ, SOLÍS *et al.* (2024) A new species of the genus *Liotyphlops* Peters, 1881 (Serpentes: Anomalepididae) from the Caribbean coast of Honduras. *Zootaxa*.

<https://doi.org/10.11646/zootaxa.5543.1.5>

Xavier, Bovcon, Basilio *et al.* (2024) Distributional limits of the Shortnose Guitarfish, *Zapteryx brevirostris* (Rhinopristiformes: Trygonorrhinidae) - An update. *Ocean and Coastal Research*.

<https://doi.org/10.1590/2675-2824072.23119>

Desidério, Sganga, Libonatti *et al.* (2024) After six decades, a new species of the Andean caddisfly genus *Eosericostruma* Schmid, 1955 (Trichoptera: Helicophidae) is discovered. *Austral Entomology*.

<https://doi.org/10.1111/aen.12713>

See all research from this country or area  
[gbif.org/country/BR/publications/from](https://gbif.org/country/BR/publications/from)



## Data availability

### Total data available for selected taxonomic groups in Brazil



**Mammals**  
181,666  
occurrences



**Birds**  
18,181,922  
occurrences



**Bony fish**  
939,028  
occurrences



**Amphibians**  
244,295  
occurrences



**Insects**  
2,246,214  
occurrences



**Reptiles**  
200,218  
occurrences



**Molluscs**  
160,249  
occurrences



**Arachnids**  
250,080  
occurrences



**Flowering plants**  
10,878,728  
occurrences



**Ferns**  
492,341  
occurrences



**Gymnosperms**  
25,619  
occurrences



**Mosses**  
155,945  
occurrences



**Sac fungi**  
372,049  
occurrences



**Basidiomycota**  
193,663  
occurrences

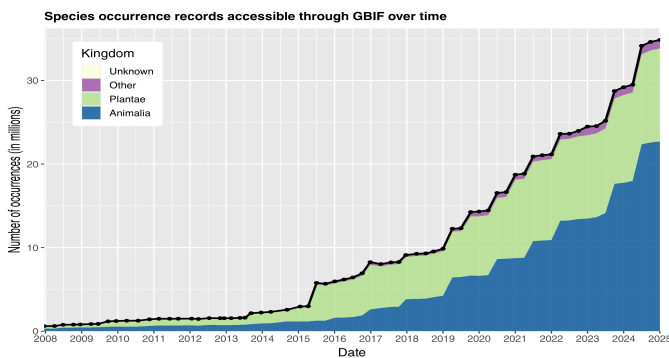
Mammals = Class *Mammalia*  
Birds = Class *Aves*  
Bony fish = Superclass  
*Osteichthyes* p.p.  
Amphibians = Class *Amphibia*

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

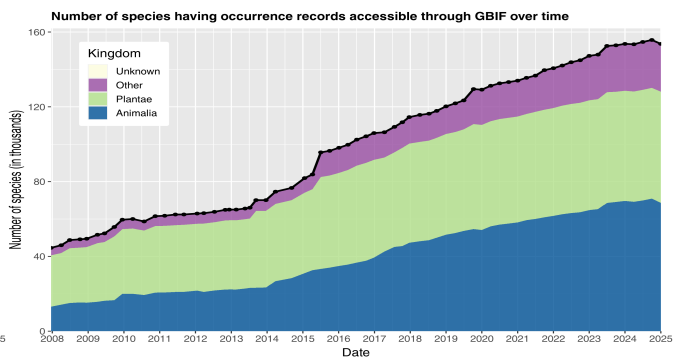
Arachnids = Class *Arachnida*  
Flowering plants = Phylum  
*Magnoliophyta*  
Gymnosperms = Superclass  
*Gymnospermae*

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

### Change over time in records about biodiversity in Brazil



Occurrence records available about species occurring in Brazil



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

#### 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 Brazil

Inventory of Fish Taxa Based on Bulk Fish Diet Samples from the Capim River Basin (Pará, Brazil).

*Published by Universidade Federal do Pará*

<https://doi.org/10.15468/t2fv67>

UFMT | Composição aves do Cerrado. *Published by Universidade Federal de Mato Grosso*

<https://doi.org/10.15468/a9bznp>

Inventory of Fish Taxa from Water eDNA Samples in the Capim River Basin (Pará, Brazil). *Published by Universidade Federal do Pará*

<https://doi.org/10.15468/yphvf5>

PPBioMA - PPBio | Monitoramento de morcegos na Ilha Grande, RJ - Mata Atlântica. *Published by Universidade do Estado do Rio de Janeiro*

<https://doi.org/10.15468/w4wmuh>

PPBio - ComCerrado | Levantamento da vegetação arbórea-arbustiva do cerrado sul maranhense no Parque Estadual do Mirador (PEM). *Published by Universidade Estadual do Maranhão*

<https://doi.org/10.15468/24n3bw>

PPBio | Efeito da perturbação sobre a diversidade de espécies de Asteraceae e insetos endófitos associados em fragmentos de Cerrado na Chapada dos Guimarães – MT. *Published by Universidade Federal de Mato Grosso*

<https://doi.org/10.15468/xkyyzn>

See all datasets from this country or area: [gbif.org/dataset/search?publishing\\_country=BR](https://gbif.org/dataset/search?publishing_country=BR)

### Newest publishers from Brazil

Universidade do Estado do Rio de Janeiro

Universidade Federal do Amapá

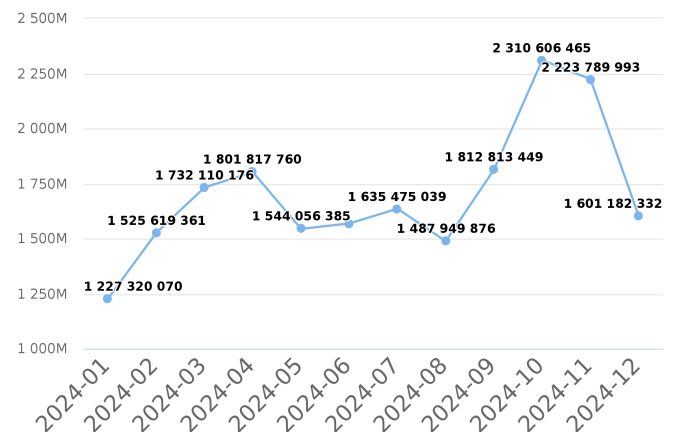
Universidade Federal do Pará

Instituto Vital Brazil

Universidade Federal do Rio Grande

See all publishers from this country or area [gbif.org/publisher/search?country=BR](https://gbif.org/publisher/search?country=BR)

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

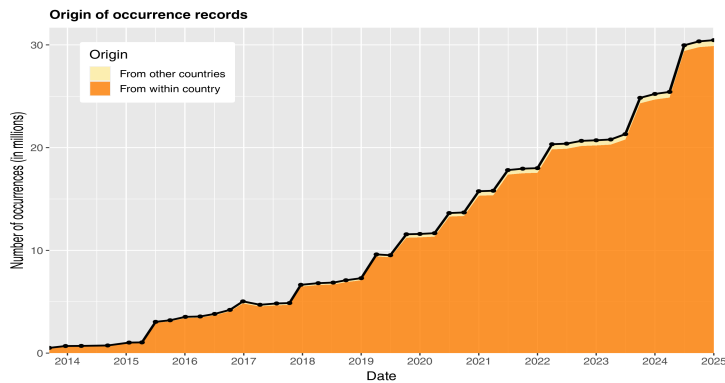


Number of occurrence records downloaded via GBIF.org published by institutions in Brazil



## Data mobilization

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



Data sharing with country or area of origin



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

### Top data contributors about biodiversity in Brazil

Rank	Country or area	No. of occurrences
1	Brazil	30,723,943
2	United States of America	2,677,653
3	United Kingdom	611,253
4	France	313,802
5	Estonia	308,658
6	Netherlands	234,141
7	Germany	111,186
8	Sweden	104,046
9	International organization or unknown country	99,547
10	Colombia	90,880

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

### Top datasets contributing data about Brazil

EOD – eBird Observation Dataset. 17,359,307 occurrences in Brazil. (Last updated 27 Sep 2024)

iNaturalist Research-grade Observations. 850,808 occurrences in Brazil. (Last updated 30 Dec 2024)

RB - Rio de Janeiro Botanical Garden Herbarium Collection. 753,495 occurrences in Brazil. (Last updated 1 Jan 2025)

The New York Botanical Garden Herbarium (NY). 423,728 occurrences in Brazil. (Last updated 25 Dec 2024)

NMNH Extant Specimen Records (USNM, US). 376,037 occurrences in Brazil. (Last updated 2 Jan 2025)

See all contributing countries and areas or datasets: [gbif.org/country/BR/about](https://gbif.org/country/BR/about)



## Brazil participates in the following projects coordinated by GBIF

Filling taxonomic and geographic gaps in open data by strengthening skills of the Brazilian zoological collections network

*Capacity Enhancement Support Programme, 2021–2023*

<https://www.gbif.org/project/CESP2021-008>

Developing a data extension for documenting socio-biodiversity information

*Capacity Enhancement Support Programme, 2024–2026*

<https://www.gbif.org/project/CESP2024-015>

From shared experiences to shared knowledge and common solutions: collaborating to improve web-based tools in Latin America and the Caribbean

*Capacity Enhancement Support Programme, 2020–2022*

Participating nodes aim to incorporate shared best practices, protocols, tools and future road maps for representing the region's biodiversity richness and abundance

<https://www.gbif.org/project/4YJIFEvYJi5kfuUVzNcfYH>

Regional capacity enhancement by setting up Uruguay's data portal

*Capacity Enhancement Support Programme, 2015–2016*

Project to provide mentorship to Uruguay in establishing a national biodiversity website and data-portal, as well as an efficient data publication workflow.

<https://www.gbif.org/project/82209>

International Living Atlases workshop

*Capacity Enhancement Support Programme, 2017–2018*

This project will support and strengthen the growing international community of practice around open-source software developed by the Atlas of Living Australia.

<https://www.gbif.org/project/83337>

CRBio: Atlas of Living Costa Rica

*, 2016–2016*

CRBio integrates occurrence records, species pages, multimedia and scientific literature about the biodiversity of Costa Rica in a single site through the use of several biodiversity informatics APIs, including the ones developed by ALA, GBIF and BHL.

<https://www.gbif.org/project/82989>

Data quality: Improving primary biodiversity data in the GBIF network

*Capacity Enhancement Support Programme, 2014–2015*

This regional initiative aims to address data quality by transferring knowledge about best publishing practices and putting them into effect.

<https://www.gbif.org/project/82230>

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