

generated January 2025

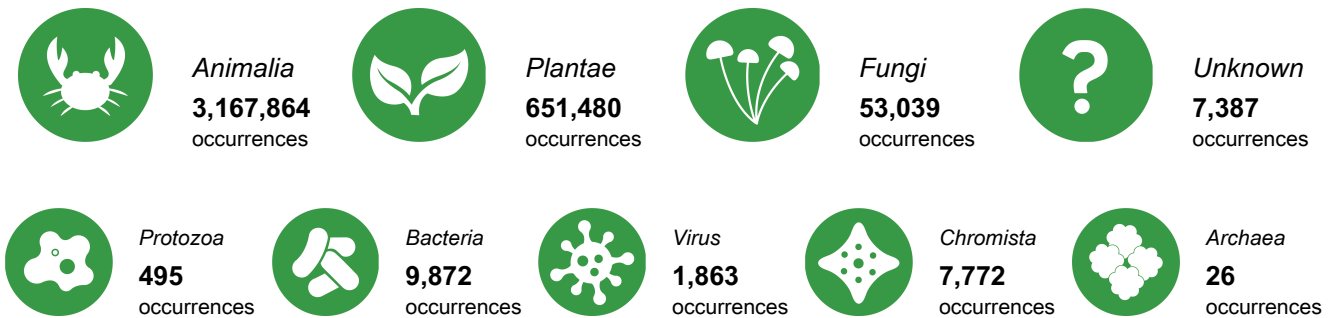
Malaysia

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 Malaysia. 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.

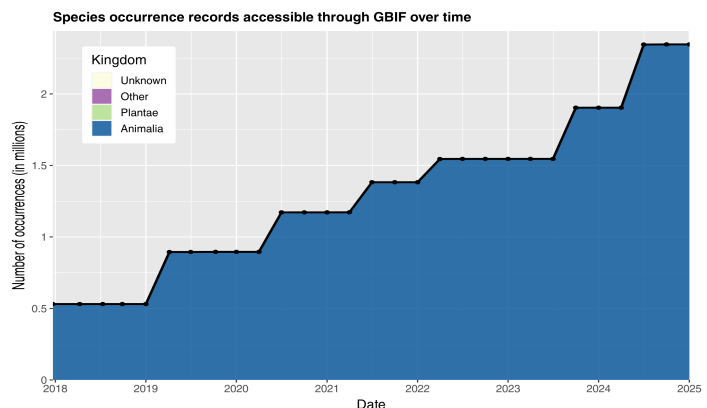
► Access and usage



► Data availability in Malaysia



► Data mobilization

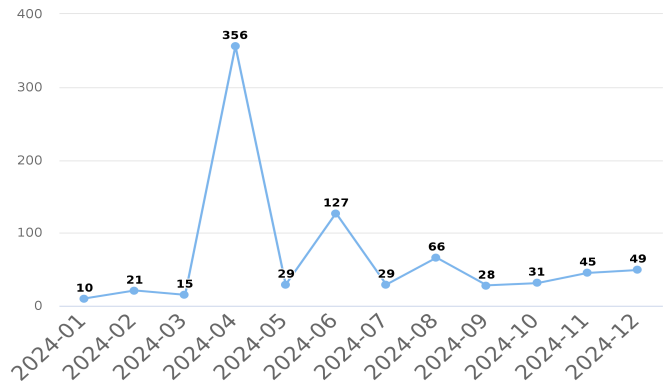
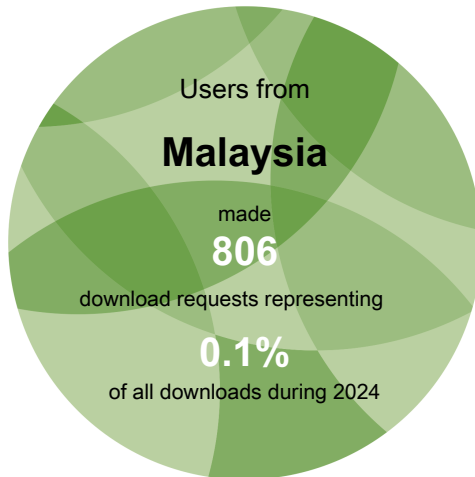


Number of records published by institutions in Malaysia, categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in Malaysia



Monthly downloads requested by users in Malaysia

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

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 Malaysia.

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

Arshaad, Yusof, Nor. (2024) Hidden in Plain Sight: freshwater whiprays of Southeast Asia and their ecological significance. *Fish for the People*.

Xu, Wu, Wang *et al.* (2024) Predicting the potential distribution of *Arisaema heterophyllum* in China under current and future climate change based on ArcGIS and MaxEnt model. *Plant Biosystems - An International Journal Dealing with all Aspects of Plant Biology*.
<https://doi.org/10.1080/11263504.2024.2407813>

Shan, Lu, Yan *et al.* (2024) Prediction of *Platycodon grandiflorus* distribution in China using MaxEnt model concerning current and future climate change. *Nordic Journal of Botany*.
<https://doi.org/10.1111/njb.04502>

Luo, Lapuz, Wee. (2024) Large-scale changes in the distribution of suitable habitat of the endangered subtropical canopy tree species *Vatica guangxiensis* under climate change. *Biodiversity and Conservation*.
<https://doi.org/10.1007/s10531-024-02908-8>

Hordijk, Bialic-Murphy, Lauber *et al.* (2024) Dominance and rarity in tree communities across the globe: Patterns, predictors and threats. *Global Ecology and Biogeography*.
<https://doi.org/10.1111/geb.13889>

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



Data availability

Total data available for selected taxonomic groups in Malaysia



Mammals
53,302
occurrences



Birds
2,477,842
occurrences



Bony fish
44,837
occurrences



Amphibians
44,700
occurrences



Insects
419,257
occurrences



Reptiles
36,815
occurrences



Molluscs
41,377
occurrences



Arachnids
19,461
occurrences



Flowering plants
566,966
occurrences



Ferns
53,906
occurrences



Gymnosperms
4,525
occurrences



Mosses
12,918
occurrences



Sac fungi
30,171
occurrences



Basidiomycota
16,717
occurrences

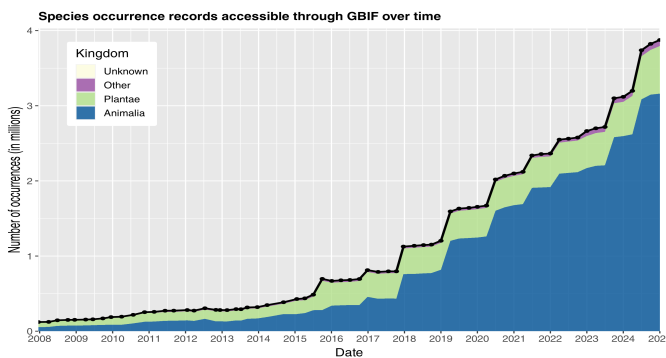
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

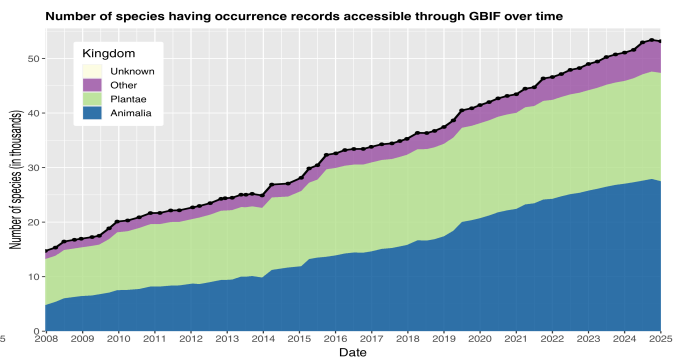
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in Malaysia



Occurrence records available about species occurring in Malaysia



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

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 Malaysia

Fish Collection (2021-2023) (Setiu Wetlands) from the South China Sea Repository and Reference Centre (RRC), Institute of Oceanography and Environment (INOS), Universiti Malaysia Terengganu (UMT). *Published by Institute of Oceanography and Environment (INOS)*
<https://doi.org/10.15468/5s3jvy>

Fish Collection (2009, 2018 & 2019) (Kemaman & LKIM Kuantan) from the South China Sea Repository and Reference Centre (RRC), Institute of Oceanography and Environment (INOS), Universiti Malaysia Terengganu (UMT). *Published by Institute of Oceanography and Environment (INOS)*
<https://doi.org/10.15468/h9f8r6>

Taxonomic Checklist of the mosses from Mt Trusmadi of Sabah, Malaysian Borneo. *Published by Sabah Forestry Department*
<https://doi.org/10.15468/nz2c3e>

Herbarium Collection (2003) (Part 2) from the South China Sea Repository and Reference Centre (RRC), Institute of Oceanography and Environment (INOS), Universiti Malaysia Terengganu (UMT). *Published by Institute of Oceanography and Environment (INOS)*
<https://doi.org/10.15468/udww85>

Herbarium Collection (2003) (Part 1) from the South China Sea Repository and Reference Centre (RRC), Institute of Oceanography and Environment (INOS), Universiti Malaysia Terengganu (UMT). *Published by Institute of Oceanography and Environment (INOS)*
<https://doi.org/10.15468/pwazv4>

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

Newest publishers from Malaysia

Sabah Forestry Department

Universiti Kebangsaan Malaysia

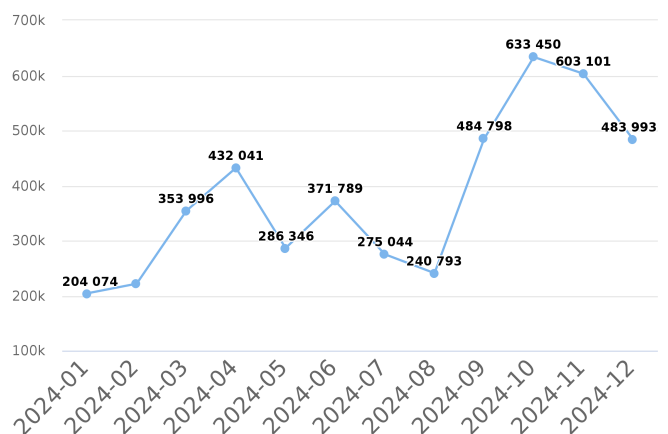
Tropical Infectious Diseases Research and Education Centre (TIDREC), Universiti Malaya

Institute of Oceanography and Environment (INOS)

Bioinformatics Research Group, Biological Science Department, Faculty of Bioscience & Bioengineering

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

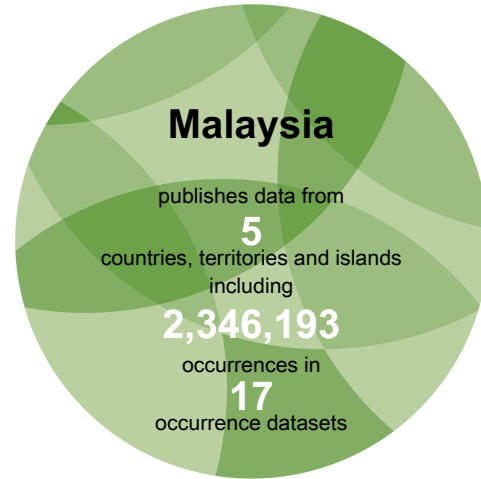
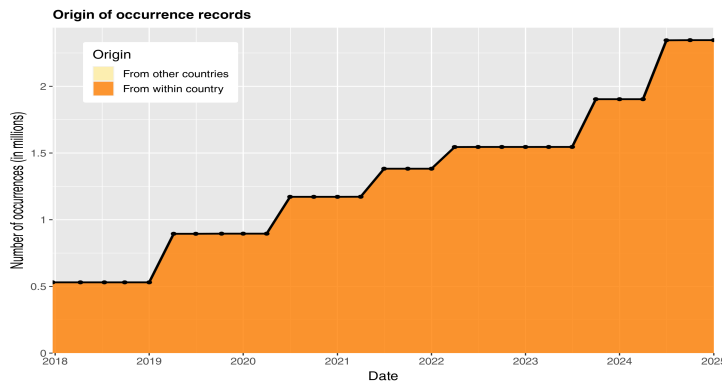
Occurrence records downloaded from GBIF.org, published by institutions in Malaysia



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

Data mobilization

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



Data sharing with country or area of origin

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

Top data contributors about biodiversity in Malaysia

Rank	Country or area	No. of occurrences
1	Malaysia	2,345,889
2	United States of America	495,417
3	Netherlands	317,158
4	United Kingdom	286,939
5	International organization or unknown country	169,185
6	Japan	60,557
7	Estonia	30,935
8	Singapore	30,126
9	Australia	27,318
10	Germany	21,068

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

Top datasets contributing data about Malaysia

- EOD – eBird Observation Dataset. 2,342,170 occurrences in Malaysia. (Last updated 27 Sep 2024)
- iNaturalist Research-grade Observations. 225,034 occurrences in Malaysia. (Last updated 30 Dec 2024)
- Naturalis Biodiversity Center (NL) - Botany. 216,557 occurrences in Malaysia. (Last updated 1 Nov 2024)
- International Barcode of Life project (iBOL). 156,325 occurrences in Malaysia. (Last updated 7 Aug 2024)
- Royal Botanic Gardens, Kew - Herbarium Specimens. 151,569 occurrences in Malaysia. (Last updated 2 Jan 2025)

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



Malaysia participates in the following projects coordinated by GBIF

DNA barcoding and taxonomic classification of black flies in Southeast Asia

BIFA: Biodiversity Information Fund for Asia, 2021–2023

https://www.gbif.org/project/BIFA6_017

Deploying acoustic data to fill gaps in bat biodiversity information for Southeast Asia

BIFA: Biodiversity Information Fund for Asia, 2019–2020

<https://www.gbif.org/project/3PMwZjKycuPnEo5FUDY99S>

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