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

Researchers from Malaysia contributed to 4 peer-reviewed articles citing GBIF use during 2023 and a total of 45 articles since 2008.

▶ Data availability in Malaysia

Animalia: 2,596,883 occurrences
Plantae: 482,212 occurrences
Fungi: 40,732 occurrences
Unknown: 7,407 occurrences
Protozoa: 363 occurrences
Bacteria: 9,888 occurrences
Virus: 1,862 occurrences
Chromista: 6,644 occurrences
Archaea: 26 occurrences

▶ Data mobilization

Institutions from Malaysia published 357,959 new occurrence records during 2023 out of a total of 355,993,458 occurrence records added globally to GBIF.org

Number of records published by institutions in Malaysia, categorized by kingdom.
Access and usage

Data downloads on GBIF.org from users in Malaysia

Users from Malaysia made 462 download requests representing 0.1% of all downloads during 2023.

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.

SHAHIMI, JAMALUDIN, AHMAD. (2023) Species richness and phytogeographic affinities of rattan genus Korthalsia in Malaysia. *Biodiversitas.*
https://doi.org/10.13057/biodiv/d241059

https://doi.org/10.1016/j.ympev.2023.107832

Mi, Ma, Yang *et al.* (2023) Global Protected Areas as refuges for amphibians and reptiles under climate change. *Nature Communications.*
https://doi.org/10.1038/s41467-023-36987-y

https://doi.org/10.1111/geb.13648

Anadón, Baral, Gurung *et al.* (2022) Global range dynamics of the Bearded Vulture ( *Gypaetus barbatus*) from the Last Glacial Maxima to climate change scenarios. *Ibis.*
https://doi.org/10.1111/ibi.13149

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**: 44,386 occurrences
- **Birds**: 2,012,229 occurrences
- **Bony fish**: 39,113 occurrences
- **Amphibians**: 41,217 occurrences
- **Insects**: 343,862 occurrences
- **Reptiles**: 30,263 occurrences
- **Molluscs**: 39,682 occurrences
- **Arachnids**: 18,198 occurrences
- **Flowering plants**: 405,513 occurrences
- **Mosses**: 12,219 occurrences
- **Sac fungi**: 22,019 occurrences
- **Basidiomycota**: 14,139 occurrences

**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

Mollusca Collections 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/z7zg34

Crustacean Collections 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/skrmkb

Black Flies (Diptera: Simuliidae) of South East Asia. Published by Tropical Infectious Diseases Research and Education Centre (TIDREC), Universiti Malaya
https://doi.org/10.15468/h5jh4z

Spatial and temporal distribution dataset of benthic macroalgae during 2015-2016 tropical monsoonal cycle in Malaysia. Published by Universiti Kebangsaan Malaysia
https://doi.org/10.15468/ga9ghj

Echinoderm dataset 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/u8tytc

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

Newest publishers from Malaysia

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

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

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

See all publishers from this country or area gbif.org/publisher/search?country=MY
Data mobilization
Data sharing with country or area of origin by national institutions in Malaysia

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

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country or area</th>
<th>No. of occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Malaysia</td>
<td>1,903,270</td>
</tr>
<tr>
<td>2</td>
<td>United States of America</td>
<td>390,736</td>
</tr>
<tr>
<td>3</td>
<td>Netherlands</td>
<td>307,900</td>
</tr>
<tr>
<td>4</td>
<td>United Kingdom</td>
<td>175,924</td>
</tr>
<tr>
<td>5</td>
<td>International organization or unknown country</td>
<td>131,630</td>
</tr>
<tr>
<td>6</td>
<td>Japan</td>
<td>34,256</td>
</tr>
<tr>
<td>7</td>
<td>Estonia</td>
<td>30,932</td>
</tr>
<tr>
<td>8</td>
<td>Singapore</td>
<td>30,103</td>
</tr>
<tr>
<td>9</td>
<td>Australia</td>
<td>23,742</td>
</tr>
<tr>
<td>10</td>
<td>Germany</td>
<td>20,926</td>
</tr>
</tbody>
</table>

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

### Top datasets contributing data about Malaysia

- **EOD – eBird Observation Dataset.** 1,901,185 occurrences in Malaysia. (Last updated 20 Aug 2023)
- **Naturalis Biodiversity Center (NL) - Botany.** 216,413 occurrences in Malaysia. (Last updated 12 Dec 2023)
- **iNaturalist Research-grade Observations.** 158,670 occurrences in Malaysia. (Last updated 2 Jan 2024)
- **International Barcode of Life project (iBOL).** 118,770 occurrences in Malaysia. (Last updated 2 Jan 2024)
- **Royal Botanic Gardens, Kew - Herbarium Specimens.** 55,026 occurrences in Malaysia. (Last updated 7 Dec 2021)

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
*GBIF: 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
*GBIF: Biodiversity Information Fund for Asia, 2019–2020*
https://www.gbif.org/project/3PMwZjKycuPnEo5FUdY99S

See all GBIF projects
gbif.org/resource/search?contentType=project