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 Philippines. 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 Philippines contributed to 9 peer-reviewed articles citing GBIF use during 2023 and a total of 40 articles since 2008.

### Data availability in Philippines

<table>
<thead>
<tr>
<th>Kingdom</th>
<th>Occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animalia</td>
<td>1,914,892</td>
</tr>
<tr>
<td>Plantae</td>
<td>434,431</td>
</tr>
<tr>
<td>Fungi</td>
<td>39,247</td>
</tr>
<tr>
<td>Unknown</td>
<td>9,369</td>
</tr>
<tr>
<td>Protozoa</td>
<td>1,514</td>
</tr>
<tr>
<td>Bacteria</td>
<td>27,747</td>
</tr>
<tr>
<td>Virus</td>
<td>2,468</td>
</tr>
<tr>
<td>Chromista</td>
<td>26,738</td>
</tr>
<tr>
<td>Archaea</td>
<td>520</td>
</tr>
</tbody>
</table>

### Data mobilization

Institutions from Philippines published 177,838 new occurrence records during 2023 out of a total of 355,993,458 occurrence records added globally to GBIF.org.
Access and usage

Data downloads on GBIF.org from users in Philippines

Users from Philippines made 1,014 download requests representing 0.2% of all downloads during 2023.

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

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 Philippines.

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

Oca, Reyes Jr. (2023) Predicting the habitat suitability of the Philippine Cockatoo (Cacatua haematuropygia S. Muller) using ecological niche factor analysis. *Ecosystems and Development Journal.*

Du, Jueterbock, Firdaus *et al.* (2023) Niche comparison and range shifts for two Kappaphycus species in the Indo-Pacific Ocean under climate change. *Ecological Indicators.*
https://doi.org/10.1016/j.ecolind.2023.110900

Wang, Chan, Pham *et al.* (2023) One in five butterfly species sold online across borders. *Biological Conservation.*
https://doi.org/10.1016/j.biocon.2023.110092

https://doi.org/10.1016/j.jnc.2023.126415

https://doi.org/10.1080/10095020.2022.2155255
Data availability

Total data available for selected taxonomic groups in Philippines

- **Mammals**: 60,795 occurrences
- **Birds**: 1,052,766 occurrences
- **Bony fish**: 149,283 occurrences
- **Amphibians**: 52,156 occurrences
- **Insects**: 99,345 occurrences
- **Reptiles**: 59,615 occurrences
- **Molluscs**: 345,451 occurrences
- **Arachnids**: 9,356 occurrences
- **Flowering plants**: 334,858 occurrences
- **Ferns**: 60,746 occurrences
- **Gymnosperms**: 2,259 occurrences
- **Mosses**: 12,273 occurrences
- **Sac fungi**: 22,379 occurrences
- **Basidiomycota**: 16,604 occurrences

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Change over time in records about biodiversity in Philippines

**Occurrence records available about species occurring in Philippines**

**Species occurrence records accessible through GBIF over time**

**Number of species having occurrence records accessible through GBIF over time**

**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 Philippines

Philippine Native Tree Species Occurrences. Published by ASEAN Centre for Biodiversity (ACB)
https://doi.org/10.15468/mad7h3

UPLB Museum of Natural History Bat Ectoparasite Collection. Published by University of the Philippines Los Baños Museum of Natural History
https://doi.org/10.15468/r623m6

Philippine Bat Viruses and Pathogens. Published by University of the Philippines Los Baños Museum of Natural History
https://doi.org/10.15468/5a7mg3

UPLB Museum of Natural History DS Rabor Chiroptera Collection. Published by University of the Philippines Los Baños Museum of Natural History
https://doi.org/10.15468/m899kg

Amphibia-Malaysia. Published by ASEAN Centre for Biodiversity (ACB)
https://doi.org/10.15468/3zhpkt

Freshwater Calanoid Copepods in Southern Luzon, Philippines. Published by University of Santo Tomas - Zooplankton Ecology, Systematics, and Limnology Laboratory
https://doi.org/10.15468/qwhdjn

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

Newest publishers from Philippines

Father Saturnino Urios University-Biodiversity Informatics and Research Center (FSUU-BIRC)

University of the Philippines Los Baños Museum of Natural History

University of Santo Tomas - Zooplankton Ecology, Systematics, and Limnology Laboratory

Biodiversity Research Laboratory, Institute of Biology

HerpWatch Pilipinas, Inc.

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

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

![Graph showing number of records shared over time by publishers within Philippines with separate colours for records about species occurring within undefined and those occurring elsewhere.]

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

Top data contributors about biodiversity in Philippines

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country or area</th>
<th>No. of occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Philippines</td>
<td>937,944</td>
</tr>
<tr>
<td>2</td>
<td>United States of America</td>
<td>925,552</td>
</tr>
<tr>
<td>3</td>
<td>Netherlands</td>
<td>132,144</td>
</tr>
<tr>
<td>4</td>
<td>United Kingdom</td>
<td>95,073</td>
</tr>
<tr>
<td>5</td>
<td>Japan</td>
<td>59,971</td>
</tr>
<tr>
<td>6</td>
<td>Germany</td>
<td>42,712</td>
</tr>
<tr>
<td>7</td>
<td>France</td>
<td>42,288</td>
</tr>
<tr>
<td>8</td>
<td>Australia</td>
<td>28,726</td>
</tr>
<tr>
<td>9</td>
<td>International organization or unknown country</td>
<td>27,642</td>
</tr>
<tr>
<td>10</td>
<td>Belgium</td>
<td>25,227</td>
</tr>
</tbody>
</table>

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

Top datasets contributing data about Philippines

- EOD – eBird Observation Dataset. 921,606 occurrences in Philippines. (Last updated 20 Aug 2023)
- NMNH Extant Specimen Records (USNM, US). 267,899 occurrences in Philippines. (Last updated 2 Jan 2024)
- Naturalis Biodiversity Center (NL) - Botany. 96,994 occurrences in Philippines. (Last updated 12 Dec 2023)
- iNaturalist Research-grade Observations. 68,093 occurrences in Philippines. (Last updated 2 Jan 2024)
- KUBI Herpetology Collection. 30,960 occurrences in Philippines. (Last updated 2 Jan 2024)

See all contributing countries and areas or datasets: gbif.org/country/PH/about
Philippines participates in the following projects coordinated by GBIF

Bats and associated ectoparasites and pathogens from the UPLB Museum of Natural History
*BIFA: Biodiversity Information Fund for Asia, 2022–2023*
https://www.gbif.org/project/BIFA6_026

Digitization of specimens at the University of the Philippines Los Baños Museum of Natural History
*BIFA: Biodiversity Information Fund for Asia, 2020–2022*
This project aims to digitize specimen data from four different museum research and teaching collections and share data skills through training.
https://www.gbif.org/project/2as3Q2nNvRQhMc30JzAQ6e

Strengthening GBIF Philippines
*BIFA: Biodiversity Information Fund for Asia, 2016–2017*
This project aims at strengthening PhilBIF by enhancing the capacities of partners in the publishing of biodiversity information according to GBIF standards.
https://www.gbif.org/project/82652

Alien reptiles and amphibians of the Philippines
*BIFA: Biodiversity Information Fund for Asia, 2018–2019*
This project aims to develop a national invasive alien amphibian and reptile species inventory and occurrence database and an observation and monitoring system.
https://www.gbif.org/project/2xGhurLsnOmIoQgo8iYu2A

Mobilizing biodiversity data from ASEAN protected areas
*BIFA: Biodiversity Information Fund for Asia, 2016–2016*
The goal of this project was to facilitate the mobilization of biodiversity information from ASEAN Heritage Parks - regionally significant protected areas for biodiversity.
https://www.gbif.org/project/82651

Using microbial metabarcoding to monitor biodiversity and bioindicators in the Mekong River
*BIFA: Biodiversity Information Fund for Asia, 2021–2023*
https://www.gbif.org/project/BIFA6_030

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