Viet Nam

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 Viet Nam. 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 Viet Nam contributed to 8 peer-reviewed articles citing GBIF use during 2023 and a total of 34 articles since 2008.

▶ Data availability in Viet Nam

- Animalia: 582,033 occurrences
- Plantae: 197,899 occurrences
- Fungi: 15,053 occurrences
- Unknown: 3,670 occurrences
- Protozoa: 251 occurrences
- Bacteria: 33,030 occurrences
- Virus: 17,606 occurrences
- Chromista: 9,052 occurrences
- Archaea: 373 occurrences

▶ Data mobilization

Institutions from Viet Nam published 48,905 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 Viet Nam, categorized by kingdom
Access and usage

Data downloads on GBIF.org from users in Viet Nam

Users from Viet Nam made 428 download requests representing 0.1% of all downloads during 2023.

Monthly downloads requested by users in Viet Nam

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

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 Viet Nam.

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

Deville, Mori, Kawai et al. (2023) Cryptic biodiversity in the commercial diamondback squid Thysanoteuthis rhombus Troschel 1857. Reviews in Fish Biology and Fisheries.
https://doi.org/10.1007/s11160-023-09813-3

https://doi.org/10.1007/s10531-023-02709-5

Tran, Vu, Fukutani et al. (2023) Demographic and ecological niche dynamics of the Vietnam warty newt, Paramesotriton deloustali: Historical climate influences. PLOS ONE.
https://doi.org/10.1371/journal.pone.0290044

Rais, Nawaz, Gray et al. (2023) Niche suitability and spatial distribution patterns of anurans in a unique Ecoregion mosaic of Northern Pakistan. PLOS ONE.
https://doi.org/10.1371/journal.pone.0285867

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

See all research from this country or area gbif.org/country/VN/publications/from
Data availability

Total data available for selected taxonomic groups in Viet Nam

- **Mammals**: 20,516 occurrences
- **Birds**: 375,318 occurrences
- **Bony fish**: 43,336 occurrences
- **Amphibians**: 30,357 occurrences
- **Insects**: 59,310 occurrences
- **Reptiles**: 14,675 occurrences
- **Molluscs**: 20,542 occurrences
- **Arachnids**: 2,788 occurrences
- **Flowering plants**: 160,983 occurrences
- **Ferns**: 17,574 occurrences
- **Gymnosperms**: 2,892 occurrences
- **Mosses**: 10,094 occurrences
- **Sac fungi**: 9,550 occurrences
- **Basidiomycota**: 4,270 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**  
**Ferns** = Phylum **Pteridophyta**  
**Mosses** = Phylum **Bryophyta**  
**Sac fungi** = Phylum **Ascomycota**  
**Basidiomycota** = Phylum **Basidiomycota**

Change over time in records about biodiversity in Viet Nam

**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 Viet Nam

Endemic Insects of Vietnam. Published by University of Science, Vietnam National University Hanoi
https://doi.org/10.15468/wqsmku

Vietnam 200 endemic and/or endangered plant species. Published by Institute of Ecology and Biological Resources (IEBR)
https://doi.org/10.15468/4drud2

Marine mammal specimen from whale temple in Vietnam (2022). Published by Center for Biodiversity conservation and Endangered Species (CBES)
https://doi.org/10.15468/y6jdpk

CBES marine mammals encounters through citizen science apps (2022). Published by Center for Biodiversity conservation and Endangered Species (CBES)
https://doi.org/10.15468/wvkr7d

CBES Marine mammal stranding data in Vietnam 2004-now. Published by Center for Biodiversity conservation and Endangered Species (CBES)
https://doi.org/10.15468/47bckh

Miscellaneous Lichenized Fungi (PHH Herbarium, Cryptogam Collection). Published by University of Science, Vietnam National University Ho Chi Minh city
https://doi.org/10.15468/rtk3dk

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

Newest publishers from Viet Nam

University of Science, Vietnam National University Hanoi

Institute of Ecology and Biological Resources (IEBR)

Center for Biodiversity conservation and Endangered Species (CBES)

University of Science, Vietnam National University Ho Chi Minh city

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

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

Number of occurrence records downloaded via GBIF.org published by institutions in Viet Nam
Data mobilization

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

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

Top data contributors about biodiversity in Viet Nam

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country or area</th>
<th>No. of occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Viet Nam</td>
<td>350,490</td>
</tr>
<tr>
<td>2</td>
<td>United States of America</td>
<td>143,878</td>
</tr>
<tr>
<td>3</td>
<td>United Kingdom</td>
<td>86,920</td>
</tr>
<tr>
<td>4</td>
<td>France</td>
<td>64,547</td>
</tr>
<tr>
<td>5</td>
<td>Germany</td>
<td>37,016</td>
</tr>
<tr>
<td>6</td>
<td>Netherlands</td>
<td>33,686</td>
</tr>
<tr>
<td>7</td>
<td>Japan</td>
<td>23,085</td>
</tr>
<tr>
<td>8</td>
<td>International organization or unknown country</td>
<td>20,840</td>
</tr>
<tr>
<td>9</td>
<td>Canada</td>
<td>17,821</td>
</tr>
<tr>
<td>10</td>
<td>China</td>
<td>13,024</td>
</tr>
</tbody>
</table>

Table 1. Ranking of countries or areas contributing data about Viet Nam

Top datasets contributing data about Viet Nam

- EOD – eBird Observation Dataset. 339,339 occurrences in Viet Nam. (Last updated 20 Aug 2023)
- The vascular plants collection (P) at the Herbarium of the Muséum national d'Histoire Naturelle (MNHN - Paris). 42,057 occurrences in Viet Nam. (Last updated 27 Dec 2023)
- iNaturalist Research-grade Observations. 27,002 occurrences in Viet Nam. (Last updated 2 Jan 2024)
- INSDC Sequences. 20,610 occurrences in Viet Nam. (Last updated 30 Dec 2023)
- INSDC Host Organism Sequences. 19,840 occurrences in Viet Nam. (Last updated 30 Dec 2023)

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

Using citizen science to study whales and dolphins in Vietnamese waters
*BIFA: Biodiversity Information Fund for Asia, 2020–2022*
This project aims to acquire and mobilize data on cetaceans in Vietnam to create baseline data for conservation management
https://www.gbif.org/project/79gh75hiP3mrrkx27tg05FSy

Continued data mobilization of Vietnamese herbarium cryptogam collections
*BIFA: Biodiversity Information Fund for Asia, 2019–2020*
https://www.gbif.org/project/4Hdpl6TMg2C8Y10CPzWaKM

Data mobilization of Vietnamese herbarium Cryptogam collections
*BIFA: Biodiversity Information Fund for Asia, 2018–2019*
This project aims to transfer digitized data on 15,000 specimens held in the Cryptogam collections in the University of Science, Vietnam National University Ho Chi Minh City herbarium with updated identification into GBIF.org.
https://www.gbif.org/project/5j025A8Q2Mo44oMeU

Development of the biodiversity database system in Vietnam
*BIFA: Biodiversity Information Fund for Asia, 2016–2016*
The Biodiversity Conservation Agency within the Vietnam Ministry of National Resources and Environment will strengthen national capacity in database management and promote GBIF as the means for exchanging national information for global-scale research.
https://www.gbif.org/project/82641