

generated January 2025

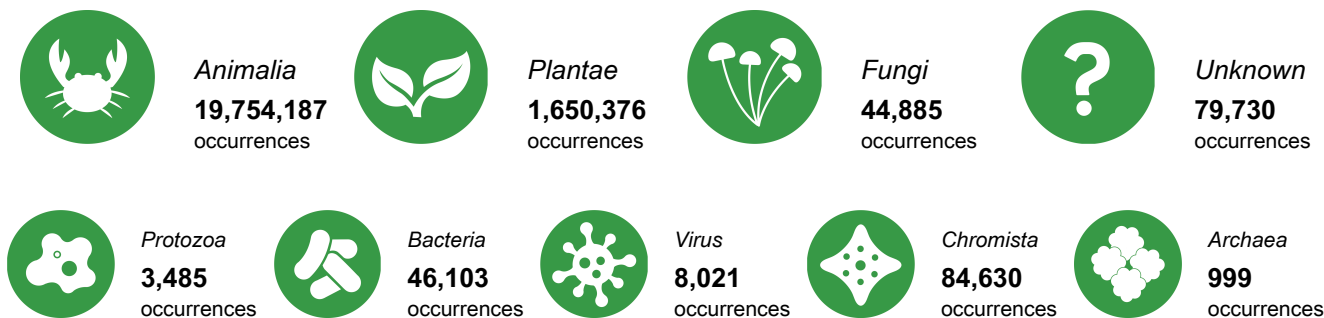
## Taiwan

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 Taiwan. 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.

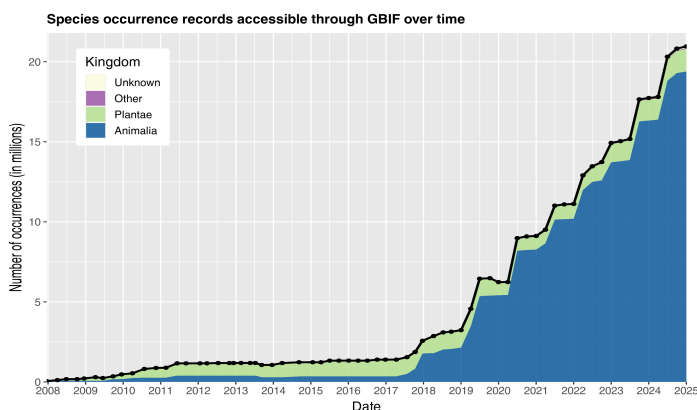
### ► Access and usage



### ► Data availability in Taiwan



### ► Data mobilization

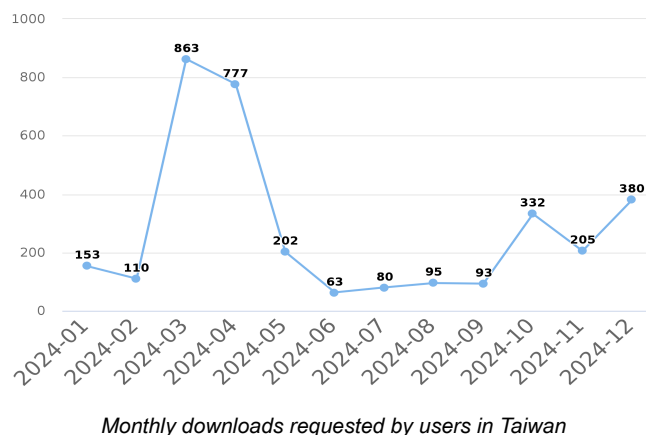
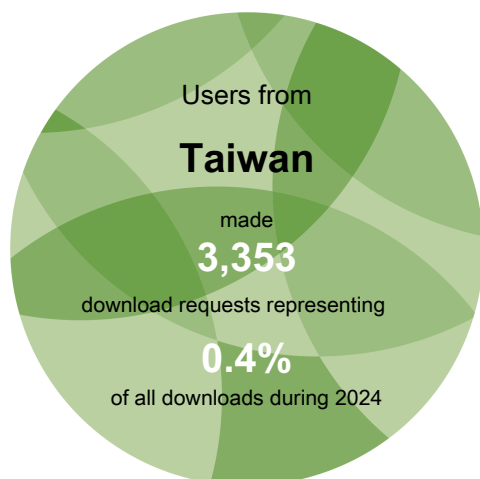


Number of records published by institutions in Taiwan, categorized by kingdom



## Access and usage

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



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

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 Taiwan.

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).

Andreyenkova, Hong, Lin *et al.* (2023) Taiwanese Black Kite: Does the Subspecies formosanus Exist?. *Raptors Conservation*.  
<https://doi.org/10.19074/1814-8654-2023-46-34-45>

ANDREYENKOVA, HONG, LIN *et al.* (2024) Genetic relationships of populations of the Black Kite *Milvus migrans* (Accipitriformes: Accipitridae) in the east of its range in Asia and Australia. *Zootaxa*.  
<https://doi.org/10.11646/zootaxa.5523.1.5>

Journé, Bogdziewicz, Courbaud *et al.* (2024) The Relationship Between Maturation Size and Maximum Tree Size From Tropical to Boreal Climates. *Ecology Letters*.  
<https://doi.org/10.1111/ele.14500>

Sossou, Ayenan, Schafleitner *et al.* (2024) Breeding for resistance to bacterial wilt in Solanaceae crops: lessons learned and ways forward for Gboma eggplant (*Solanum macrocarpon* L.), a traditional African vegetable. *Euphytica*.  
<https://doi.org/10.1007/s10681-024-03393-4>

Brimblecombe, Querner. (2024) Catch of *Reesa vespulae* in Heritage Environments. *Insects*.  
<https://doi.org/10.3390/insects15060405>

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



## Data availability

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



**Mammals**  
**186,102**  
occurrences



**Birds**  
**17,477,380**  
occurrences



**Bony fish**  
**120,514**  
occurrences



**Amphibians**  
**531,122**  
occurrences



**Insects**  
**1,247,023**  
occurrences



**Reptiles**  
**64,944**  
occurrences



**Molluscs**  
**50,681**  
occurrences



**Arachnids**  
**17,529**  
occurrences



**Flowering plants**  
**1,378,520**  
occurrences



**Ferns**  
**215,088**  
occurrences



**Gymnosperms**  
**12,501**  
occurrences



**Mosses**  
**14,131**  
occurrences



**Sac fungi**  
**21,909**  
occurrences



**Basidiomycota**  
**17,770**  
occurrences

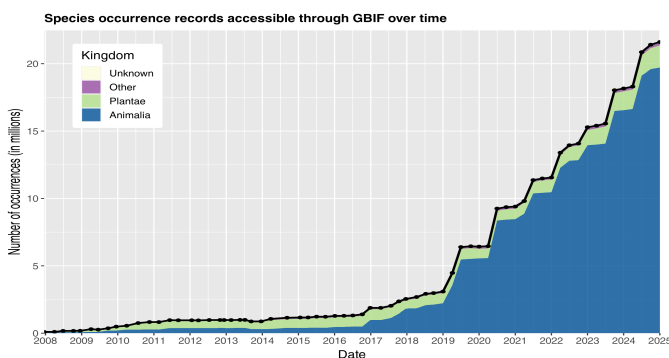
Mammals = Class *Mammalia*  
Birds = Class *Aves*  
Bony fish = Superclass  
*Osteichthyes* p.p.  
Amphibians = Class *Amphibia*

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

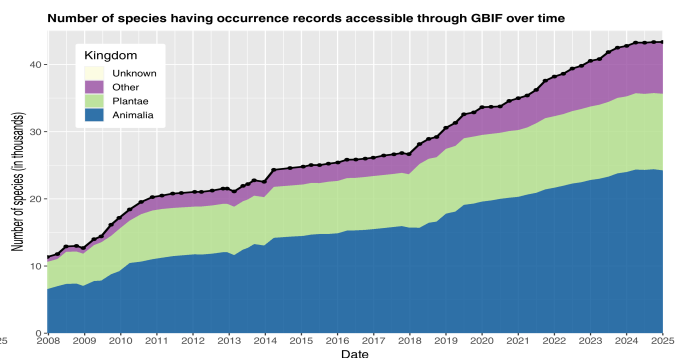
Arachnids = Class *Arachnida*  
Flowering plants = Phylum  
*Magnoliophyta*  
Gymnosperms = Superclass  
*Gymnospermae*

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

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



Occurrence records available about species occurring in Taiwan



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

#### 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 Taiwan

「全國水環境改善計畫」新竹市政府生態檢核暨相關工作計畫(112~113) | National Plan for Water Environments Improvement (2023-2024). *Published by* 逢甲大學水利發展中心  
<https://doi.org/10.15468/crzbcj>

Forest bats in Peninsular Malaysia\_2007-2009. *Published by* Department of Life Science, National Taiwan Normal University  
<https://doi.org/10.15468/vatum8>

Avian communities of betel nut plantation and secondary forest in Taiwan. *Published by* Taiwan Biodiversity Research Institute  
<https://doi.org/10.15468/wkdnqx>

臺北市政府工務局水利工程處轄管濕地及滯洪池生態監測資料. *Published by* Taiwan Biodiversity Information Facility (TaiBIF)  
<https://doi.org/10.15468/vkfqtat>

An updated checklist of fishes of Dongsha Island, Taiwan, northern South China Sea. *Published by* Biodiversity Research Center, Academia Sinica, Taiwan  
<https://doi.org/10.15468/hc7epr>

Cetacean Survey Data in Guishan Island Sea Area, Taiwan. *Published by* Ceta explorers Co., Ltd  
<https://doi.org/10.15468/ndb8cw>

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

## Newest publishers from Taiwan

逢甲大學水利發展中心

Biodiversity Research Center, Academia Sinica, Taiwan

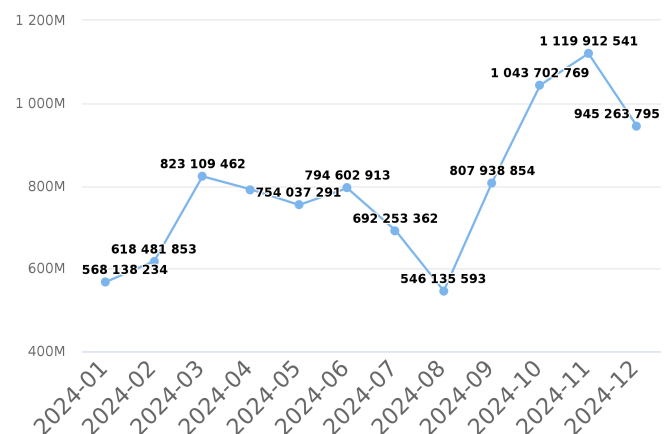
Ceta explorers Co., Ltd

Taipei Water Management Branch, WRA, MOEA

Department of Life Science, National Taiwan Normal University

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

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

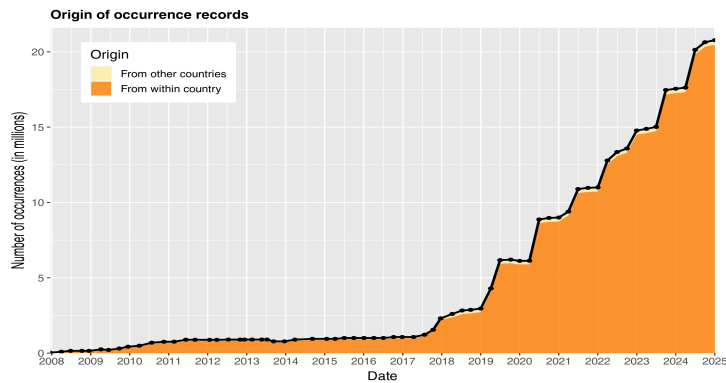


Number of occurrence records downloaded via GBIF.org published by institutions in Taiwan

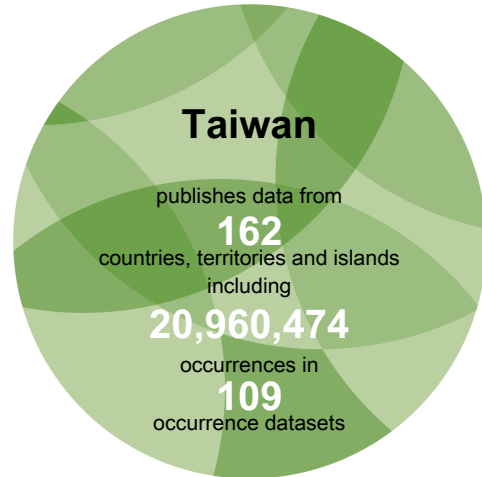


## Data mobilization

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



Data sharing with country or area of origin



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

### Top data contributors about biodiversity in Taiwan

Rank	Country or area	No. of occurrences
1	Taiwan	20,511,700
2	United States of America	740,497
3	United Kingdom	139,196
4	Japan	91,835
5	Germany	51,938
6	Netherlands	30,722
7	International organization or unknown country	21,042
8	Colombia	19,985
9	France	15,660
10	Estonia	15,059

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

### Top datasets contributing data about Taiwan

- EOD – eBird Observation Dataset. 13,397,621 occurrences in Taiwan. (Last updated 27 Sep 2024)
- Taiwan Wild Bird Federation Bird Records Database. 1,853,589 occurrences in Taiwan. (Last updated 6 Sep 2022)
- iNaturalist Research-grade Observations. 1,326,078 occurrences in Taiwan. (Last updated 30 Dec 2024)
- The Taiwan Breeding Bird Survey Data. 822,365 occurrences in Taiwan. (Last updated 12 Aug 2024)
- Acoustic detections of birds using the SILIC in Yushan National Park, Taiwan. 802,670 occurrences in Taiwan. (Last updated 15 Nov 2022)

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



## Taiwan participates in the following projects coordinated by GBIF

### 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>

### Improving knowledge of Asian pteridophytes through DNA sampling of specimens in regional collections

*BIFA: Biodiversity Information Fund for Asia, 2021–2023*

[https://www.gbif.org/project/BIFA6\\_010](https://www.gbif.org/project/BIFA6_010)

### A bilingual open-source checklist and digitization of Taiwan's bee fauna

*BIFA: Biodiversity Information Fund for Asia, 2021–2023*

[https://www.gbif.org/project/BIFA6\\_033](https://www.gbif.org/project/BIFA6_033)

### Biodiversity informatics cookbook

*BIFA: Biodiversity Information Fund for Asia, 2016–2017*

GBIF nodes in India, Japan, Korea and Taiwan will produce a biodiversity informatics 'cookbook' – an open-access learning resource to support regional training activities.

<https://www.gbif.org/project/82649>

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