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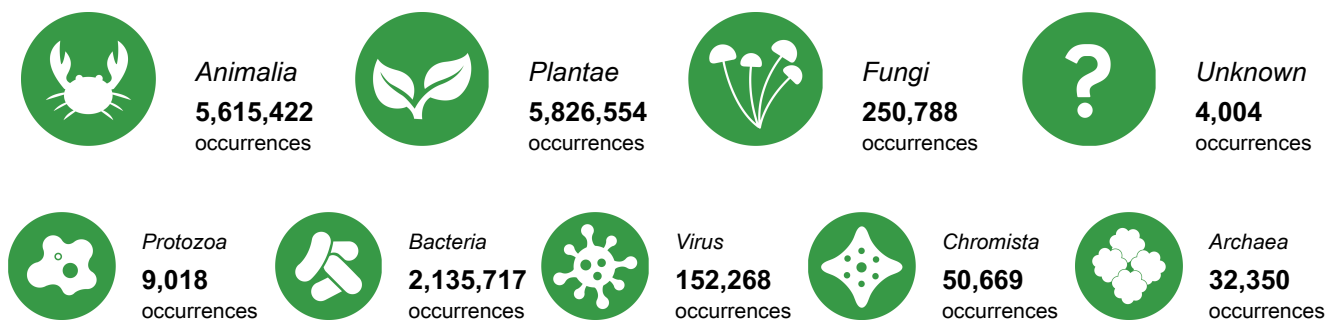
China

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 China. 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.

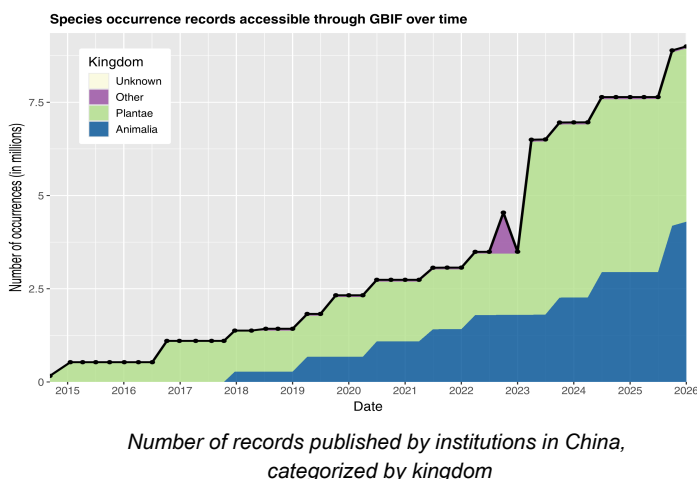
► Access and usage



► Data availability in China



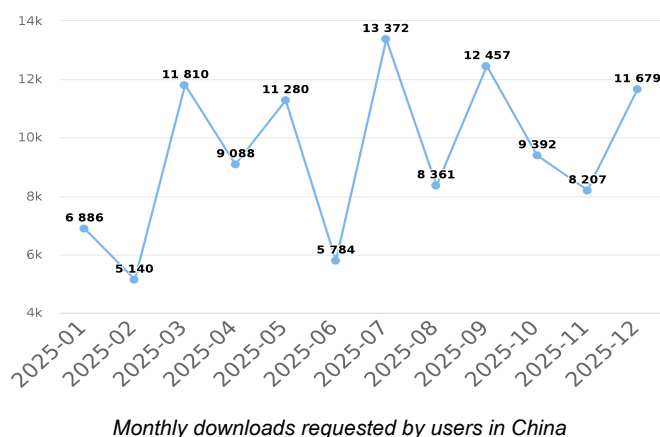
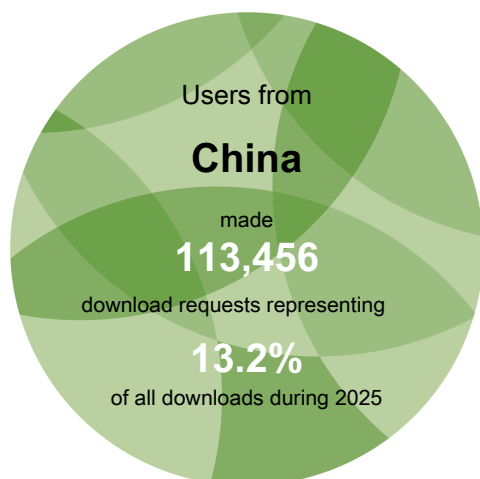
► Data mobilization





Access and usage

Data downloads on GBIF.org from users in China



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

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 China.

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

Tan, Bai. (2025) Antarctic krill habitat suitability variation in the Southern Ocean over 20 years.

Frontiers in Marine Science.

<https://doi.org/10.3389/fmars.2025.1513013>

Liu, Gao, Xiao *et al.* (2025) Genetic differentiation and historical dynamics of the endemic species *Rheum pumilum* on the Qinghai-Tibetan Plateau inferred from phylogeography implications. *BMC Plant Biology*.

<https://doi.org/10.1186/s12870-025-06164-y>

Lan, Wu, Xu *et al.* (2025) High-resolution global distribution projections of 10 rodent genera under diverse SSP-RCP scenarios, 2021–2100. *Scientific Data*.

<https://doi.org/10.1038/s41597-025-05793-0>

Li, Zuo, Wang. (2025) Research on the synergistic prediction of the suitable distribution and chemical components of *Panax Notoginseng* under the background of climate warming. *BMC Plant Biology*.

<https://doi.org/10.1186/s12870-025-07169-3>

Zhu, Zhang, Zhang *et al.* (2025) Profiling Climate Risk Patterns of Urban Trees in Wuhan: Interspecific Variation and Species' Trait Determinants. *Forests*.

<https://doi.org/10.3390/f16081358>

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



Data availability

Total data available for selected taxonomic groups in China



Mammals
76,584
occurrences



Birds
4,542,667
occurrences



Bony fish
72,087
occurrences



Amphibians
119,816
occurrences



Insects
542,124
occurrences



Reptiles
48,866
occurrences



Molluscs
68,358
occurrences



Arachnids
25,826
occurrences



Flowering plants
5,297,443
occurrences



Ferns
295,401
occurrences



Gymnosperms
86,902
occurrences



Mosses
81,193
occurrences



Sac fungi
138,861
occurrences



Basidiomycota
90,864
occurrences

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

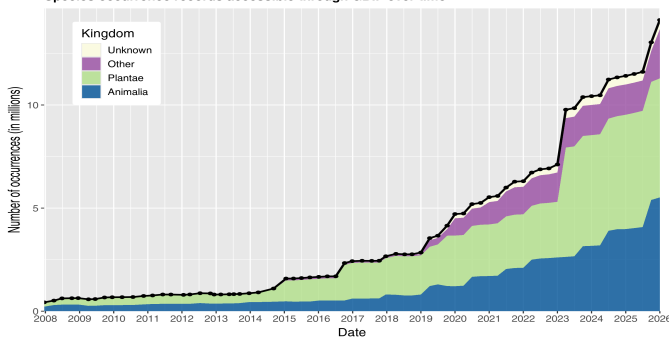
Insects = Class *Insecta*
Reptiles = Class *Testudines*,
Sphenodontia, *Squamata* &
Crocodylia
Molluscs = Phylum *Mollusca*

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

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

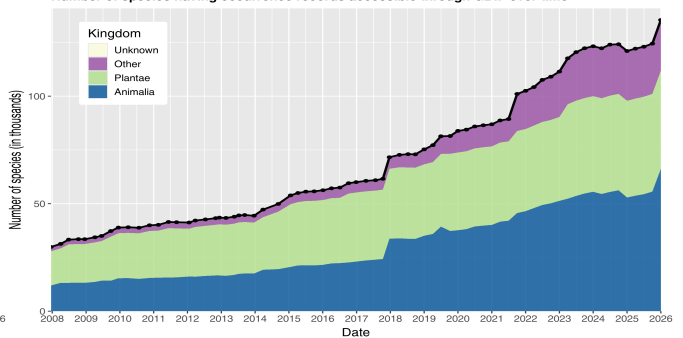
Change over time in records about biodiversity in China

Species occurrence records accessible through GBIF over time



Occurrence records available about species occurring in China

Number of species having occurrence records accessible through GBIF over time



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

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 China

A Sampling-event Dataset from Aerial Surveys of Northern Eurasian Waterbirds, 2014–2024.

Published by Chinese Academy of Sciences (CAS)

<https://doi.org/10.15468/yqtagk>

Checklist of Cassidinae beetles and their host plants in Ganzhou City, Jiangxi Province, China.

Published by Chinese Academy of Sciences (CAS)

<https://doi.org/10.15468/vjatnt>

Darwin Wasps (Hymenoptera, Ichneumonidae) from sub-alpineforest (Lasha mountain), Yunnan, China. *Published by Chinese Academy of Sciences (CAS)*

<https://doi.org/10.15468/kvpqme>

Darwin Wasps (Hymenoptera, Ichneumonidae) from sub-alpineforests and farmlands (Dali), Yunnan, China. *Published by Chinese Academy of Sciences (CAS)*

<https://doi.org/10.15468/qb8kbd>

Darwin Wasps (Hymenoptera, Ichneumonidae) from sub-alpineforests (Baima mountain), Yunnan, China. *Published by Chinese Academy of Sciences (CAS)*

<https://doi.org/10.15468/w5hww7>

Camera trap survey of mammal diversity in a subtropical forest of Huangshan Mountain, China.

Published by Chinese Academy of Sciences (CAS)

<https://doi.org/10.15468/94t4wd>

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

Newest publishers from China

Northeast Forestry University

China National GeneBank (CNGB)

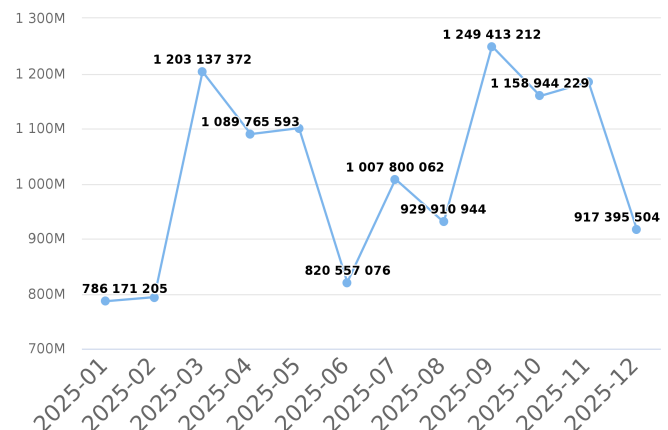
China Biodiversity Conservation and Green Development Foundation

Chinese Academy of Sciences (CAS)

WFCC-MIRCEN World Data Centre for Microorganisms (WDCM)

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

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

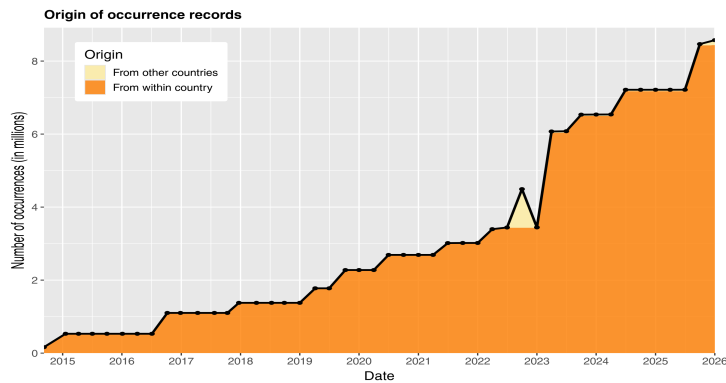


Number of occurrence records downloaded via
GBIF.org published by institutions in China



Data mobilization

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



Data sharing with country or area of origin



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

Top data contributors about biodiversity in China

Rank	Country or area	No. of occurrences
1	China	8,441,827
2	United Kingdom	2,074,789
3	United States of America	1,470,734
4	Germany	967,482
5	Taiwan	230,620
6	International organization or unknown country	203,086
7	Estonia	133,112
8	Sweden	117,512
9	Switzerland	86,236
10	Colombia	74,248

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

Top datasets contributing data about China

EOD – eBird Observation Dataset. 4,162,978 occurrences in China. (Last updated 29 Oct 2025)

2023 Contributions of Plant Specimen Data inside China. 2,593,837 occurrences in China. (Last updated 5 Mar 2023)

Microbial Community Database (MiCoDa). A curated global 16S rRNA gene amplicon dataset from all environments. 907,411 occurrences in China. (Last updated 23 Oct 2025)

iNaturalist Research-grade Observations. 637,007 occurrences in China. (Last updated 31 Dec 2025)

500,000 plant Specimens from PE Herbarium in China from 1950 to 1999. 500,000 occurrences in China. (Last updated 29 Jun 2021)

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



China participates in the following projects coordinated by GBIF

Cleaning and digitizing plant specimen records from Heilongjiang Province

BIFA: Biodiversity Information Fund for Asia, 2020–2022

This project aims to pilot activities to clean digitize herbarium specimen data from China's northernmost province

<https://www.gbif.org/project/CDF2eNPzbhDXjc2DiMYH0>

Compiling a multi-language gazetteer for occurrence distribution in Asia

BIFA: Biodiversity Information Fund for Asia, 2017–2018

This project focuses on compiling a multilingual gazetteer for locations in Asia from different data sources, initially tapping locality information from the non-georeferenced specimen records currently available through GBIF.

<https://www.gbif.org/project/83225>

Data mining of historical herbarium specimens from the Korean peninsula

BIFA: Biodiversity Information Fund for Asia, 2018–2019

This project will mobilize existing biodiversity information and knowledge within the Korean Peninsula using the BRAHMS database. Much of the historical biodiversity information about the Korean peninsula is held in institutions outside of the region

<https://www.gbif.org/project/1WashWi9buQEeYQQM0QUA>

Tending to the neglected diversity of beetles and Darwin wasps in Southwest China's "Lost World"

BIFA: Biodiversity Information Fund for Asia, 2021–2023

https://www.gbif.org/project/BIFA6_006

Mobilizing invertebrate monitoring data in South-East Asia

BIFA: Biodiversity Information Fund for Asia, 2020–2022

This project aims to explore the diversity of forest organisms and functions across latitude and elevation in Southeast Asia

<https://www.gbif.org/project/1EzuZWkQMvYhBHh0GRirLL>

See all GBIF projects

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