

generated January 2025

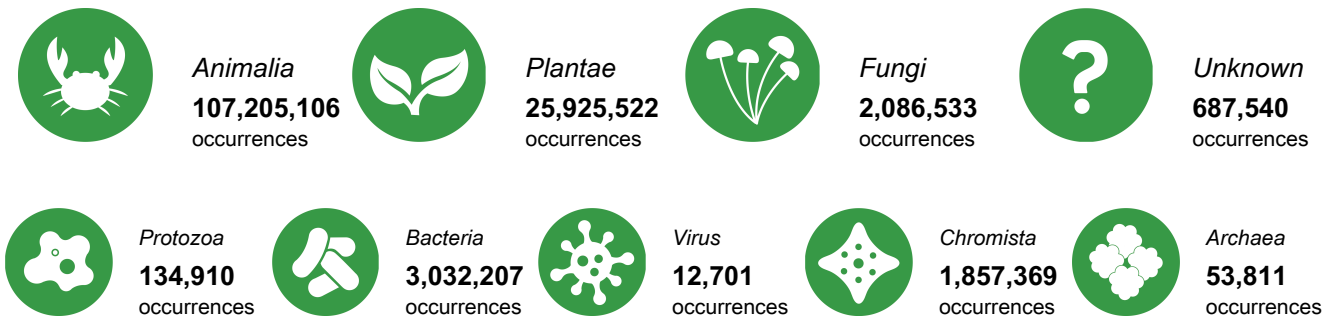
Australia

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 Australia. 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.

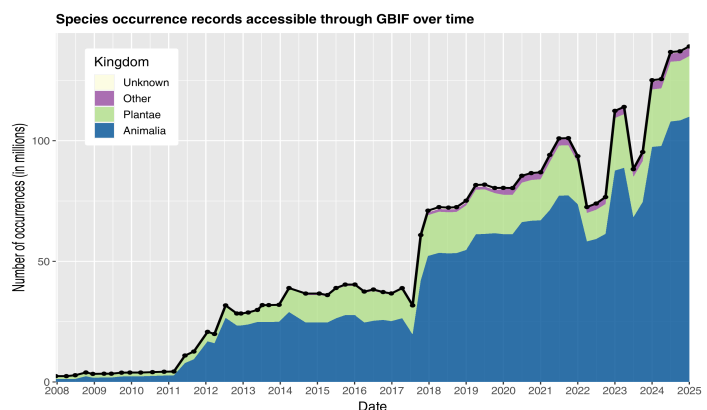
► Access and usage



► Data availability in Australia



► Data mobilization

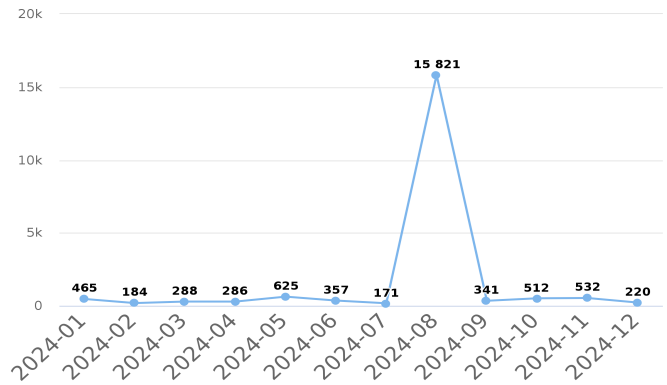
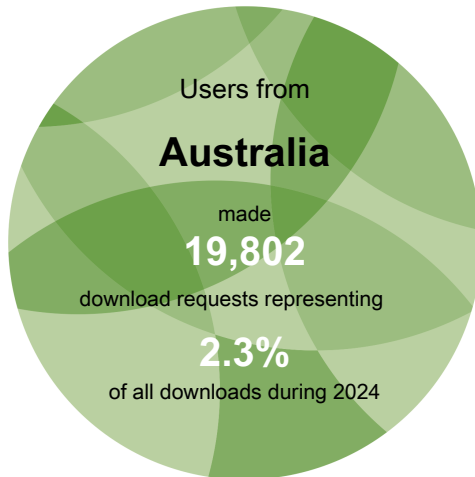


Number of records published by institutions in Australia, categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in Australia



Monthly downloads requested by users in Australia

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

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 Australia.

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

Wenk, Mesaglio, Keith *et al.* (2024) Curating protected area-level species lists in an era of diverse and dynamic data sources. *Ecological Informatics*.

<https://doi.org/10.1016/j.ecoinf.2024.102921>

Chowdhury, Cardillo, Chapman *et al.* (2024) Protected area coverage of the full annual cycle of migratory butterflies. *Conservation Biology*.

<https://doi.org/10.1111/cobi.14423>

Echeverri, Batista, Wolny *et al.* (2024) Toward Sustainable Biocultural Ecotourism: An Integrated Spatial Analysis of Cultural and Biodiversity Richness in Colombia. *People and Nature*.

<https://doi.org/10.1002/pan3.10755>

Zhang, Dayananda, Liu *et al.* (2024) Spatial and Temporal Variation of Precipitation Drives the Genome Size Variation in Scolopendra in Chinese Mainland. *Ecology and Evolution*.

<https://doi.org/10.1002/ece3.70580>

Zhao, Xian, Yang *et al.* (2024) A Proposed Coupling Framework of Biological Invasions: Quantifying the Management Prioritization in Mealybugs Invasion. *Global Change Biology*.

<https://doi.org/10.1111/gcb.17583>

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



Data availability

Total data available for selected taxonomic groups in Australia



Mammals
4,603,796
occurrences



Birds
83,533,429
occurrences



Bony fish
4,278,915
occurrences



Amphibians
1,612,815
occurrences



Insects
5,740,573
occurrences



Reptiles
1,816,466
occurrences



Molluscs
1,420,859
occurrences



Arachnids
659,834
occurrences



Flowering plants
24,209,476
occurrences



Ferns
609,531
occurrences



Gymnosperms
135,525
occurrences



Mosses
260,895
occurrences



Sac fungi
1,038,457
occurrences



Basidiomycota
850,302
occurrences

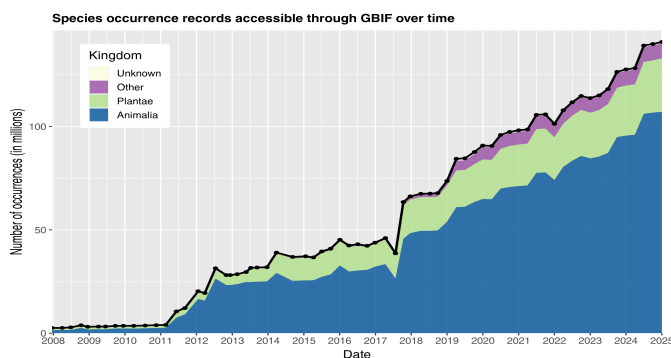
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

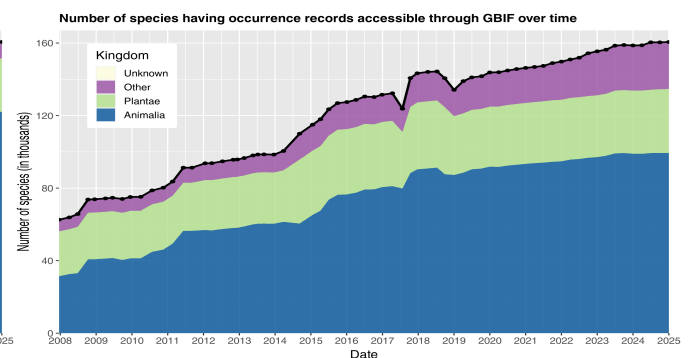
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in Australia



Occurrence records available about species occurring in Australia



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

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 Australia

Alice Springs Desert Park (ASDP). *Published by Northern Territory Government*
<https://doi.org/10.15468/mzpret>

NSW Biosecurity Information System - Weeds. *Published by Atlas of Living Australia*
<https://doi.org/10.15468/ctvmns>

Phascogale pirata records from Melville Island 2015-2024. *Published by Atlas of Living Australia*
<https://doi.org/10.15468/4pw7qe>

WEST CAPE YORK MARINE PARK (WCYMP). Benthic surveys of Carpentaria and Merkara Shoals, 10?20 November 2022. *Published by Atlas of Living Australia*
<https://doi.org/10.15468/xqhpkk>

WEST CAPE YORK MARINE PARK (WCYMP). Fish surveys of Carpentaria and Merkara Shoals, 10 ? 20 November 2022. *Published by Atlas of Living Australia*
<https://doi.org/10.15468/uw2n6x>

National Seed Bank. *Published by Australian National Botanic Gardens*
<https://doi.org/10.15468/kyg9he>

New Zealand National Forestry Herbarium. *Published by Scion*
<https://doi.org/10.15468/wwmzk6>

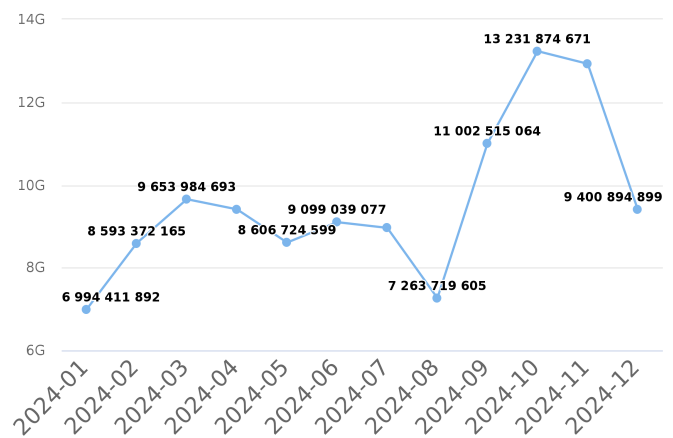
See all datasets from this country or area: gbif.org/dataset/search?publishing_country=AU

Newest publishers from Australia

- Plant Health Australia
- Scion
- Myrtleford & District Landcare & Sustainability Group
- Central Coast Council
- Sunshine Coast Council

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

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

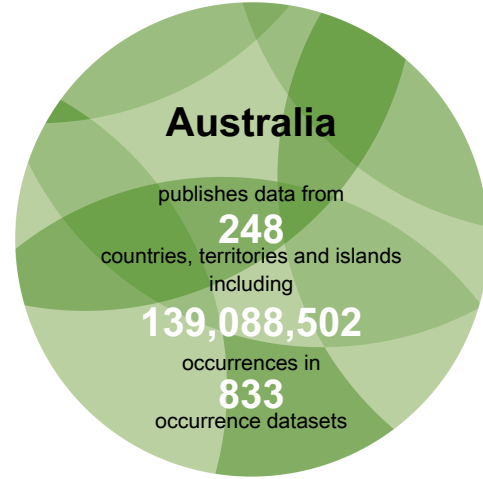
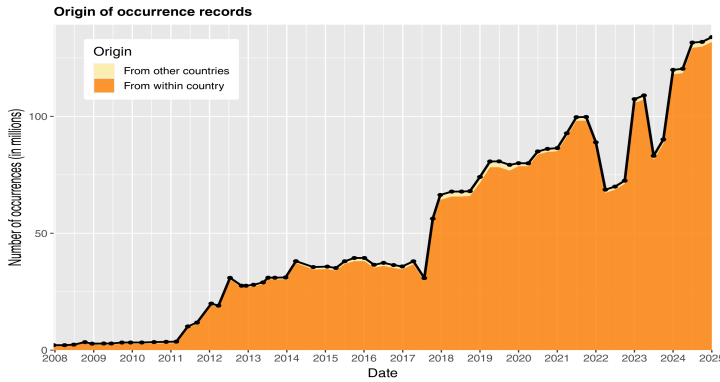


Number of occurrence records downloaded via GBIF.org published by institutions in Australia



Data mobilization

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



Data sharing with country or area of origin

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

Top data contributors about biodiversity in Australia

Rank	Country or area	No. of occurrences
1	Australia	131,864,621
2	United Kingdom	4,639,870
3	United States of America	2,787,846
4	International organization or unknown country	469,516
5	Netherlands	226,648
6	Estonia	220,021
7	Germany	158,370
8	New Zealand	119,608
9	Colombia	118,733
10	France	67,023

Top datasets contributing data about Australia

- EOD – eBird Observation Dataset. *47,102,359 occurrences in Australia.* (Last updated 27 Sep 2024)
- NSW BioNet Atlas. *14,601,716 occurrences in Australia.* (Last updated 19 Dec 2024)
- BirdLife Australia, Birdata. *11,631,570 occurrences in Australia.* (Last updated 19 Dec 2024)
- Victorian Biodiversity Atlas. *10,079,568 occurrences in Australia.* (Last updated 19 Dec 2024)
- iNaturalist Research-grade Observations. *4,926,019 occurrences in Australia.* (Last updated 30 Dec 2024)

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

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



Australia participates in the following projects coordinated by GBIF

Atlas of Living Australia

, 2010–2010

The Atlas of Living Australia (ALA) provides free, online access to a vast repository of information about Australia's amazing biodiversity. It's a collaborative, open infrastructure that pulls together biodiversity data from multiple sources, and focuses on making biodiversity information accessible and usable.

<https://www.gbif.org/project/82983>

GBIF.es

, 2014–2014

GBIF Spain's biodiversity data portal was the first adaptation of the open-source system Atlas of Living Australia to another national platform.

<https://www.gbif.org/project/82954>

Atlas of Living Scotland

, 2016–2016

The Atlas of Living Scotland was created in 2015 to provide a platform for the collection, aggregation, analysis and use of biological data in Scotland.

<https://www.gbif.org/project/82973>

International Living Atlases workshop

Capacity Enhancement Support Programme, 2017–2018

This project will support and strengthen the growing international community of practice around open-source software developed by the Atlas of Living Australia.

<https://www.gbif.org/project/83337>

Argentina: Sistema Nacional de Datos Biológicos

, 2016–2016

<https://www.gbif.org/project/82985>

Atlas of Living France

, 2015–2015

The Atlas of Living France provides open access to primary biodiversity data from French institutions.

<https://www.gbif.org/project/82969>

GBIF.pt

, 2016–2016

The Biodiversity Data Portal of Portugal is the site for access to national information published through the GBIF.

<https://www.gbif.org/project/82967>

CRBio: Atlas of Living Costa Rica

, 2016–2016

CRBio integrates occurrence records, species pages, multimedia and scientific literature about the biodiversity of Costa Rica in a single site through the use of several biodiversity informatics APIs, including the ones developed by ALA, GBIF and BHL.

<https://www.gbif.org/project/82989>

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