



generated January 2025

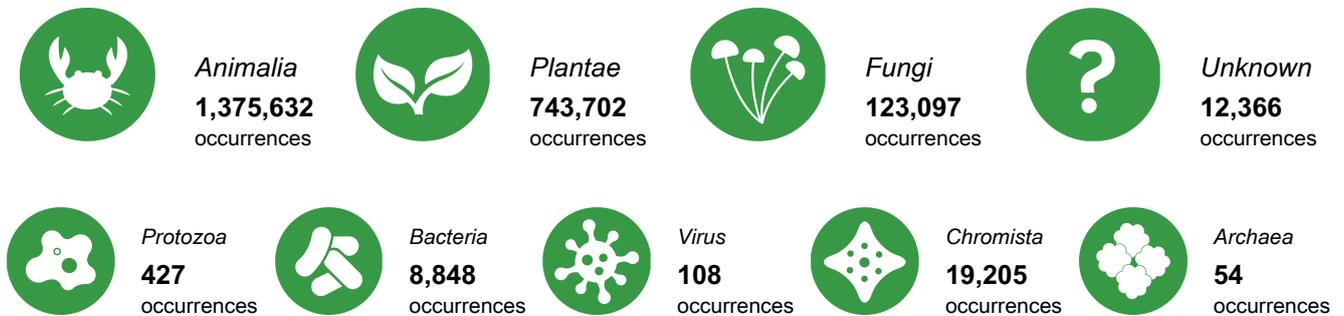
Papua New Guinea

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 Papua New Guinea. 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.

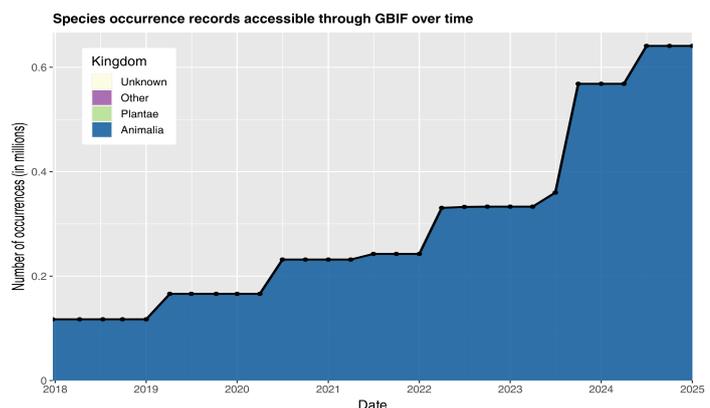
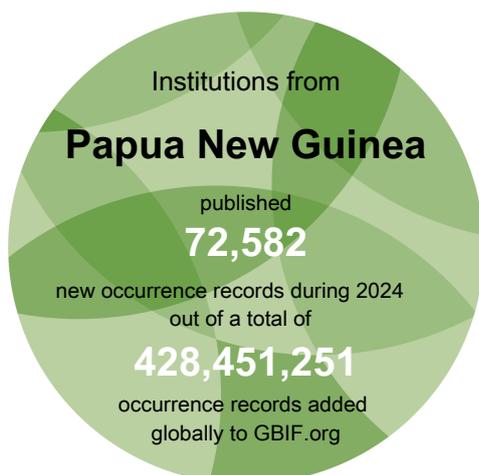
► Access and usage



► Data availability in Papua New Guinea



► Data mobilization

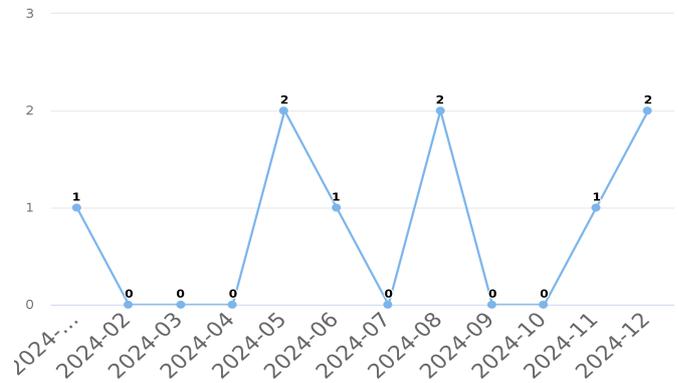
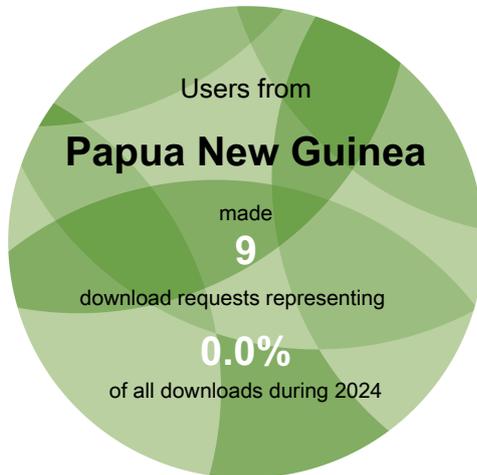


Number of records published by institutions in Papua New Guinea, categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in Papua New Guinea



Monthly downloads requested by users in Papua New Guinea

Recent peer-reviewed articles using GBIF-mediated data by co-authors based in Papua New Guinea

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 Papua New Guinea.

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

Barstow, Davies, Jimbo. (2022) Extinction risk to the endemic trees of Papua New Guinea. *Plants, People, Planet*.

<https://doi.org/10.1002/ppp3.10342>

Gardner, Jimbo, Zerega. (2022) *Artocarpus buyangensis* (Moraceae), a New Species from Papua New Guinea. *Systematic Botany*.

<https://doi.org/10.1600/036364422x16512564801542>

McKenzie, Yoshida, Aini *et al.* (2021) Seagrass ecosystems of the Pacific Island Countries and Territories: A global bright spot. *Marine Pollution Bulletin*.

<https://doi.org/10.1016/j.marpolbul.2021.112308>

Longenecker. (2016) First report of teardrop threadfin bream, *Nemipterus isacanthus* (Actinopterygii: Perciformes: Nemipteridae), from the Solomon Sea, Papua New Guinea. *Acta Ichthyologica et Piscatoria*.

<https://doi.org/10.3750/aip2016.46.2.08>

Kolesik, Butterill. (2014) New gall midges (Diptera: Cecidomyiidae) from Papua New Guinea. *Austral Entomology*.

<https://doi.org/10.1111/aen.12095>

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



Data availability

Total data available for selected taxonomic groups in Papua New Guinea



Mammals
71,860
occurrences



Birds
545,571
occurrences



Bony fish
48,580
occurrences



Amphibians
84,253
occurrences



Insects
334,436
occurrences



Reptiles
97,954
occurrences



Molluscs
108,000
occurrences



Arachnids
7,985
occurrences



Flowering plants
564,263
occurrences



Ferns
93,676
occurrences



Gymnosperms
9,035
occurrences



Mosses
45,163
occurrences



Sac fungi
68,152
occurrences



Basidiomycota
37,568
occurrences

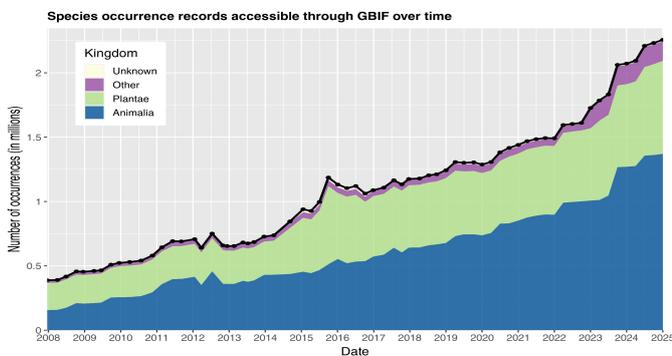
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

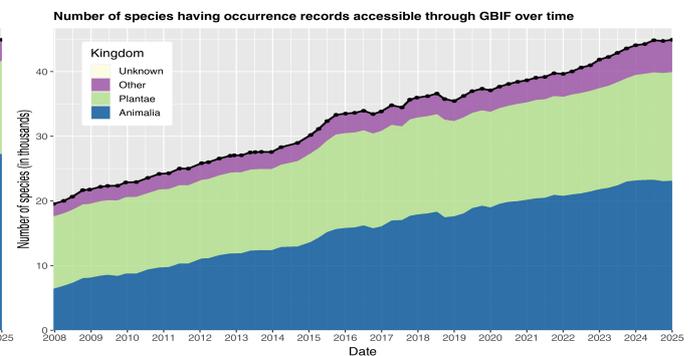
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in Papua New Guinea



Occurrence records available about species occurring in Papua New Guinea



Species for which at least one occurrence record is available in Papua New Guinea

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 Papua New Guinea

Lepidoptera data based on UPNG Insect Collection. *Published by Centre for biodiversity and natural products (CBNP), University of Papua New Guinea*

<https://doi.org/10.15468/28p7hc>

Weeds of New Guinea based on UPNG Herbarium Collection. *Published by Centre for biodiversity and natural products (CBNP), University of Papua New Guinea*

<https://doi.org/10.15468/28p7hc>

Reared caterpillars (Lepidoptera) from lower montane rainforest in Chimbu, Papua New Guinea.

Published by New Guinea Binatang Research Centre

<https://doi.org/10.15468/g59evz>

Plot-based sampling and rearing of adult lepidoptera from lowland rainforest in Wanang, Papua New Guinea. *Published by New Guinea Binatang Research Centre*

<https://doi.org/10.15468/7e96ht>

Bark and ambrosia beetles reared from 13 species of tropical tree in Papua New Guinea. *Published by New Guinea Binatang Research Centre*

<https://doi.org/10.15468/q9c3hg>

Host specificity of caterpillars from lowland rainforest, Madang, Papua New Guinea. *Published by New Guinea Binatang Research Centre*

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

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

Newest publishers from Papua New Guinea

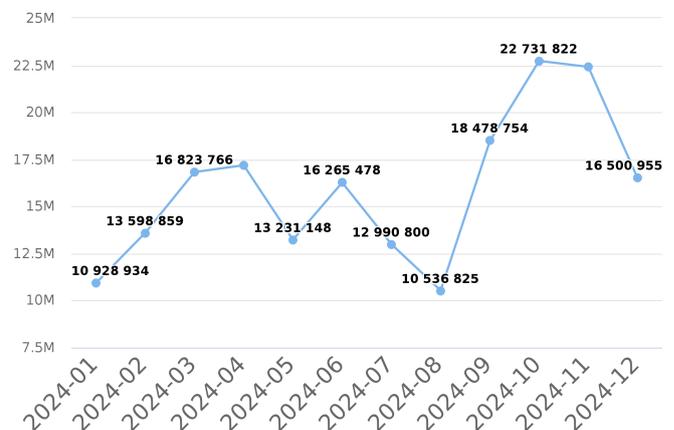
Centre for biodiversity and natural products (CBNP),
University of Papua New Guinea

New Guinea Binatang Research Centre

National Agriculture Quarantine & Inspection Authority

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

Occurrence records downloaded from GBIF.org, published by institutions in Papua New Guinea

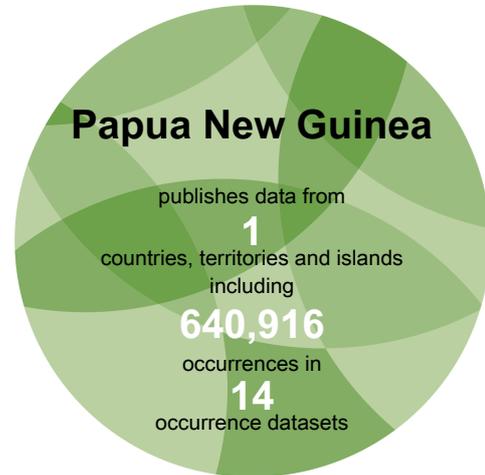
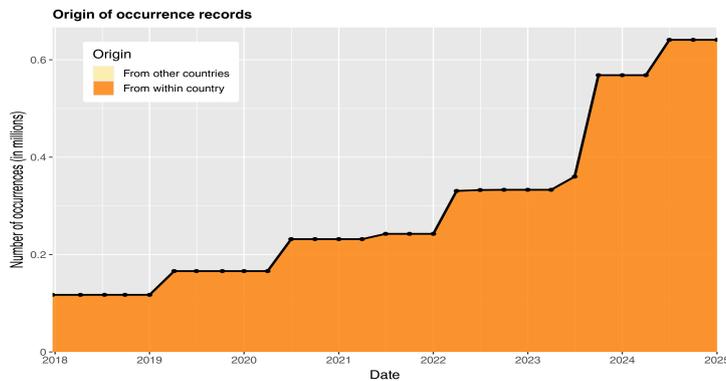


Number of occurrence records downloaded via
GBIF.org published by institutions in Papua New Guinea



Data mobilization

Data sharing with country or area of origin by national institutions in Papua New Guinea



Data sharing with country or area of origin

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

Top data contributors about biodiversity in Papua New Guinea

Rank	Country or area	No. of occurrences
1	Papua New Guinea	640,915
2	United States of America	506,119
3	Australia	468,108
4	Netherlands	169,038
5	United Kingdom	130,340
6	Estonia	103,681
7	France	61,158
8	International organization or unknown country	54,410
9	Belgium	51,657
10	Germany	26,130

Table 1. Ranking of countries or areas contributing data about Papua New Guinea

Top datasets contributing data about Papua New Guinea

EOD – eBird Observation Dataset. 462,294 occurrences in Papua New Guinea. (Last updated 27 Sep 2024)

Naturalis Biodiversity Center (NL) - Botany. 153,009 occurrences in Papua New Guinea. (Last updated 1 Nov 2024)

Plants of Papua New Guinea. 131,917 occurrences in Papua New Guinea. (Last updated 28 Feb 2018)

Centre for Australian National Biodiversity Research (CANB) AVH data. 98,384 occurrences in Papua New Guinea. (Last updated 19 Dec 2024)

Global soil organisms. 95,974 occurrences in Papua New Guinea. (Last updated 27 Feb 2023)

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



Papua New Guinea participates in the following projects coordinated by GBIF

Mobilization and digitization of natural history collections at the University of Papua New Guinea

BID: Biodiversity Information for Development, 2021–2023

<https://www.gbif.org/project/BID-PA2020-009-INS>

Creating a framework for mobilizing ecological research data from the New Guinea Binatang
Research Center

BID: Biodiversity Information for Development, 2021–2023

<https://www.gbif.org/project/BID-PA2020-007-INS>

Databasing and documenting the Papua New Guinea National
Herbarium

BID: Biodiversity Information for Development, 2017–2018

This project will continue the digitization of the 300,000 specimens held in the Papua
New Guinea National Herbarium.

<https://www.gbif.org/project/83275>

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