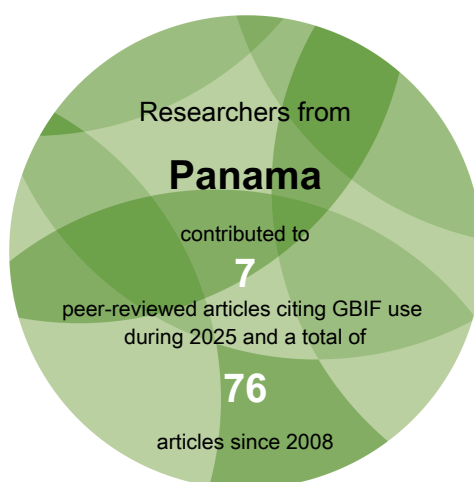


generated January 2026

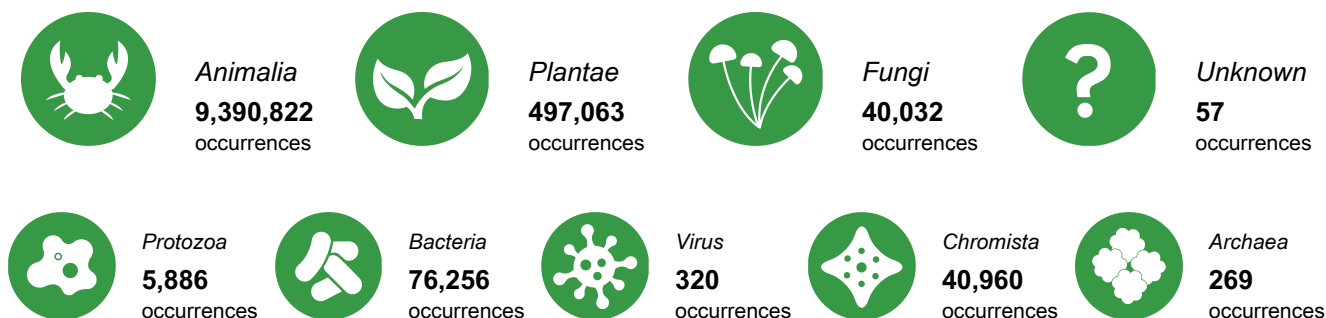
Panama

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 Panama. 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.

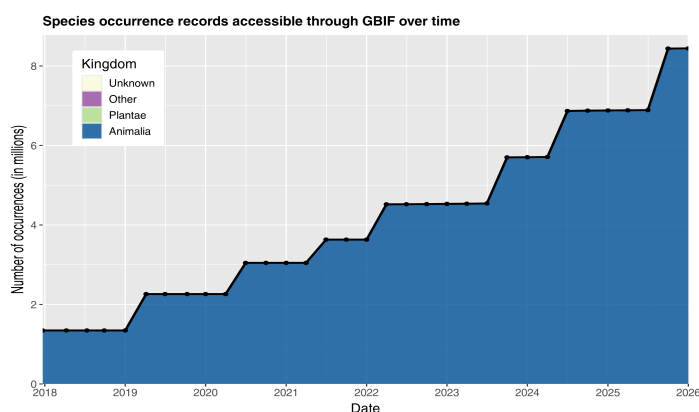
► Access and usage



► Data availability in Panama



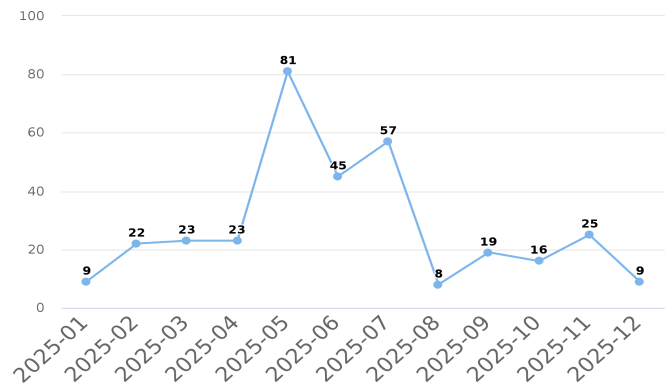
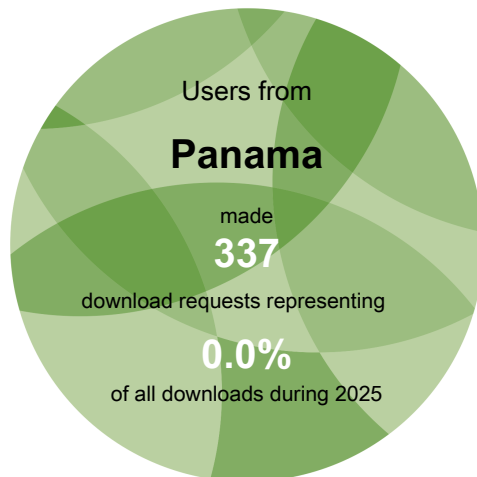
► Data mobilization



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

Access and usage

Data downloads on GBIF.org from users in Panama



Monthly downloads requested by users in Panama

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

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 Panama.

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

Bocanegra-González, Dexter, Kidner *et al.* (2025) Integrative taxonomy recognises four species within the legume *Inga chocoensis* (Leguminosae: Caesalpinioideae). *TAXON*.
<https://doi.org/10.1002/tax.13375>

Tardin, Maricato, Kiszka *et al.* (2025) Optimistic climate mitigation scenario halves projected range loss in a neotropical dolphin. *Ocean & Coastal Management*.
<https://doi.org/10.1016/j.ocecoaman.2025.107800>

Adaimé, Urban, Kong *et al.* (2025) Pollen morphology, deep learning, phylogenetics, and the evolution of environmental adaptations in *Podocarpus*. *New Phytologist*.
<https://doi.org/10.1111/nph.70250>

Yau, Jones, Tsang *et al.* (2025) Spatial occurrence records and distributions of tropical Asian butterflies. *Scientific Data*.
<https://doi.org/10.1038/s41597-025-05333-w>

Rubin, Campbell, Carvalho *et al.* (2025) Strong bat predation and weak environmental constraints predict longer moth tails. *Proceedings of the Royal Society B: Biological Sciences*.
<https://doi.org/10.1098/rspb.2024.2824>

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



Data availability

Total data available for selected taxonomic groups in Panama



Mammals
74,001
occurrences



Birds
8,547,681
occurrences



Bony fish
96,926
occurrences



Amphibians
48,149
occurrences



Insects
329,176
occurrences



Reptiles
45,578
occurrences



Molluscs
105,861
occurrences



Arachnids
22,177
occurrences



Flowering plants
428,310
occurrences



Ferns
36,586
occurrences



Gymnosperms
946
occurrences



Mosses
10,180
occurrences



Sac fungi
22,745
occurrences



Basidiomycota
12,273
occurrences

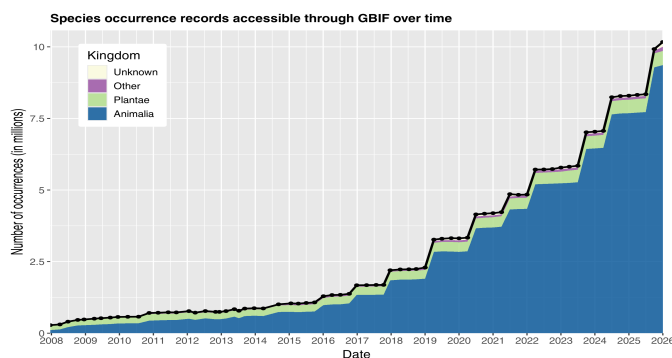
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

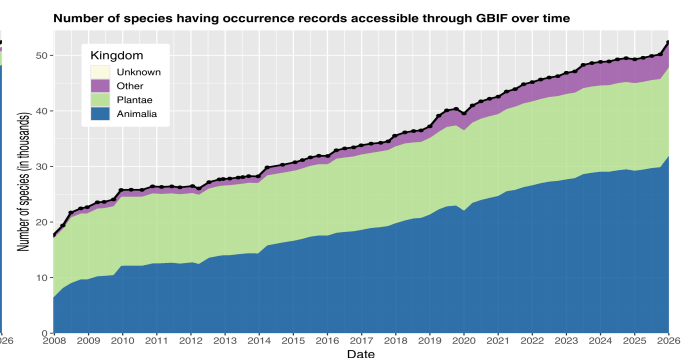
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in Panama



Occurrence records available about species occurring in Panama



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

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 Panama

Caracterización de Flora y Fauna en el área del proyecto "Baco Solar" en Chiriquí, Panamá.

Published by Enel Panamá

<https://doi.org/10.15468/2ndfq9>

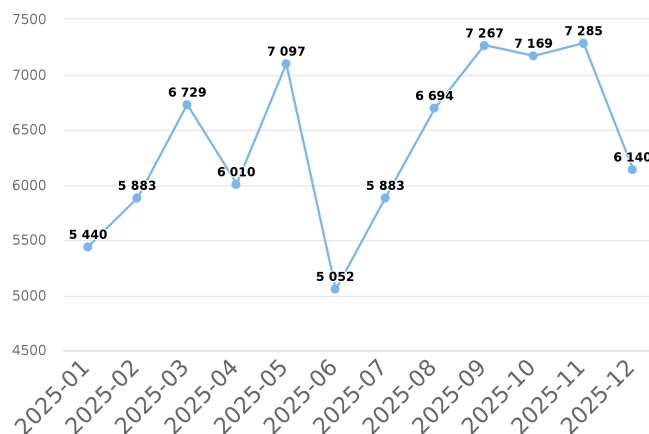
See all datasets from this country or area: gbif.org/dataset/search?publishing_country=PA

Newest publishers from Panama

Enel Panamá

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

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

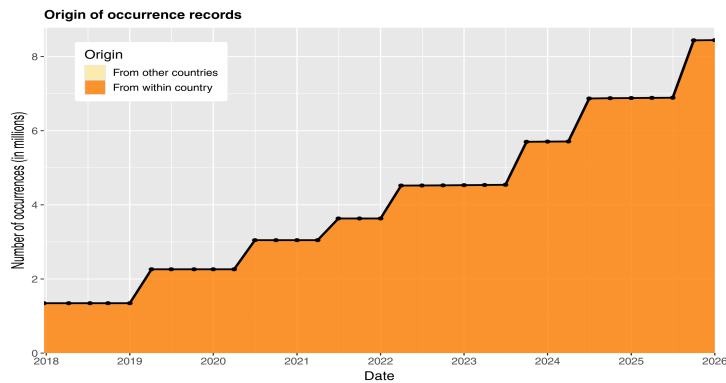


Number of occurrence records downloaded via
GBIF.org published by institutions in Panama

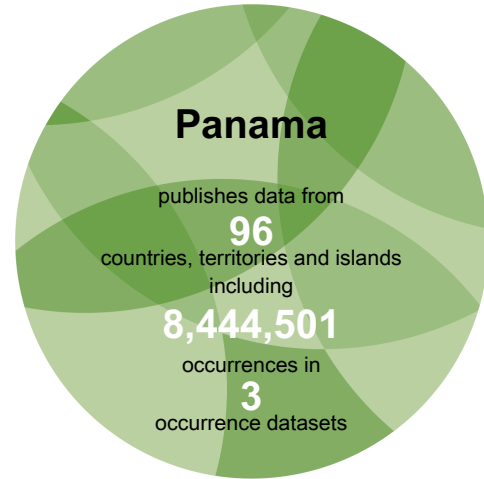


Data mobilization

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



Data sharing with country or area of origin



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

Top data contributors about biodiversity in Panama

Rank	Country or area	No. of occurrences
1	Panama	8,417,041
2	United States of America	1,175,736
3	Belgium	170,031
4	United Kingdom	103,420
5	Germany	66,818
6	International organization or unknown country	52,361
7	Netherlands	36,665
8	Mexico	23,988
9	Estonia	19,156
10	Australia	15,260

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

Top datasets contributing data about Panama

- EOD – eBird Observation Dataset. 8,329,986 occurrences in Panama. (Last updated 29 Oct 2025)
- iNaturalist Research-grade Observations. 268,457 occurrences in Panama. (Last updated 31 Dec 2025)
- Tropicos MO Specimen Data. 193,165 occurrences in Panama. (Last updated 31 Dec 2025)
- NMNH Extant Specimen Records (USNM, US). 191,308 occurrences in Panama. (Last updated 2 Jan 2026)
- UNESCO eDNA expedition in Coiba National Park and its Special Zone of Marine Protection (Panama), February 2023. 153,049 occurrences in Panama. (Last updated 29 Oct 2025)

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