

generated January 2025

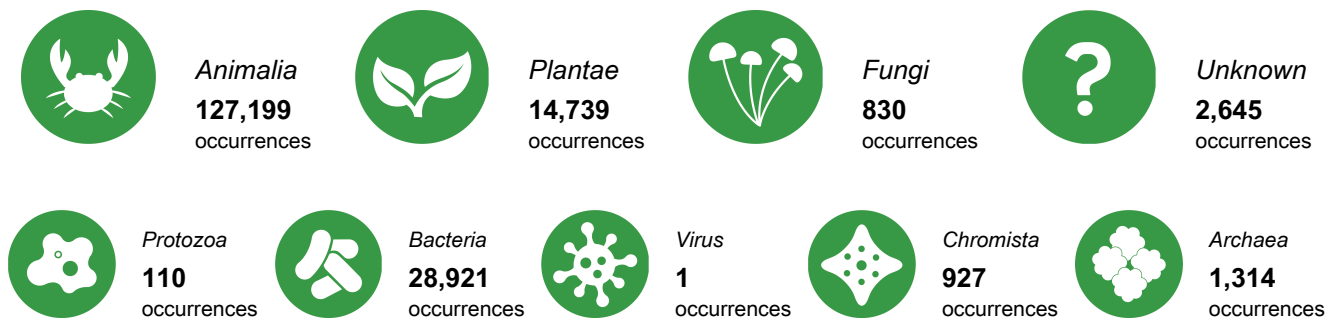
## Guam

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 Guam. 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.

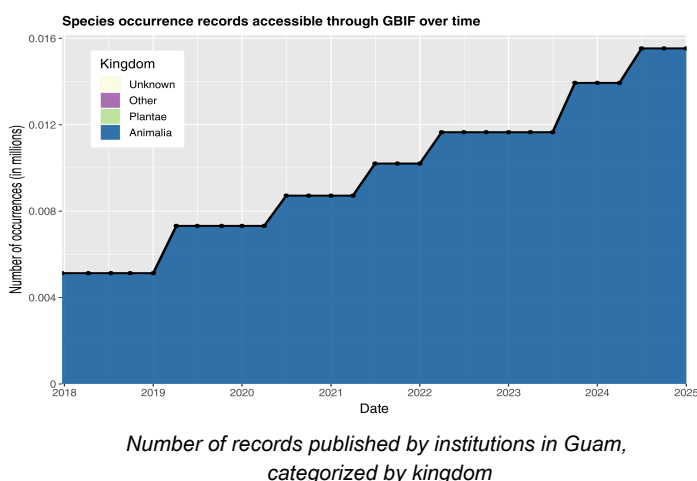
### ► Access and usage



### ► Data availability in Guam



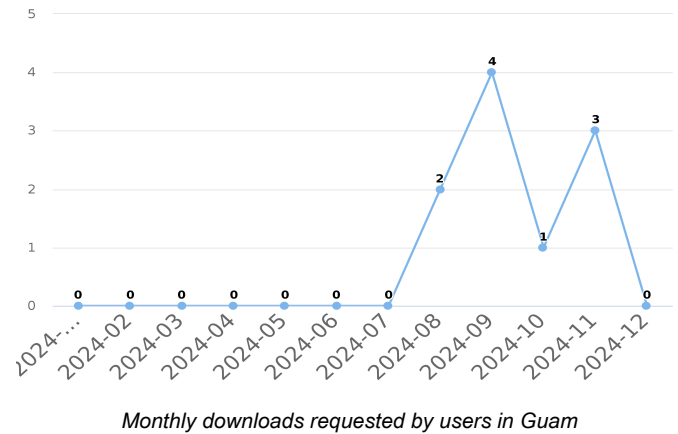
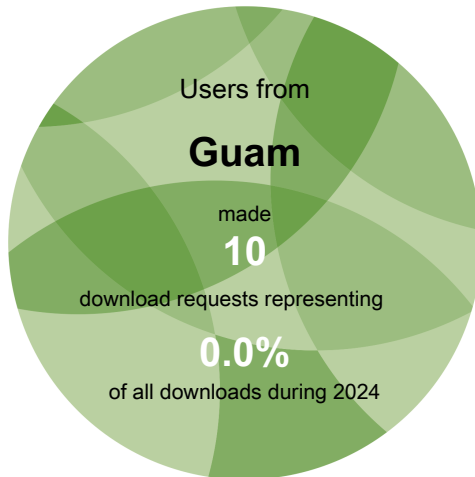
### ► Data mobilization





## Access and usage

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



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

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 Guam.

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).

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>

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



## Data availability

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



**Mammals**  
**933**  
occurrences



**Birds**  
**16,105**  
occurrences



**Bony fish**  
**54,174**  
occurrences



**Amphibians**  
**773**  
occurrences



**Insects**  
**22,367**  
occurrences



**Reptiles**  
**8,011**  
occurrences



**Molluscs**  
**13,641**  
occurrences



**Arachnids**  
**1,063**  
occurrences



**Flowering plants**  
**10,473**  
occurrences



**Ferns**  
**1,405**  
occurrences



**Gymnosperms**  
**106**  
occurrences



**Mosses**  
**803**  
occurrences



**Sac fungi**  
**481**  
occurrences



**Basidiomycota**  
**306**  
occurrences

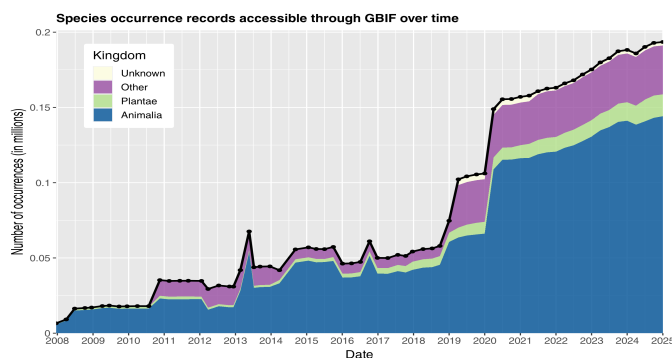
Mammals = Class *Mammalia*  
Birds = Class *Aves*  
Bony fish = Superclass  
*Osteichthyes* p.p.  
Amphibians = Class *Amphibia*

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

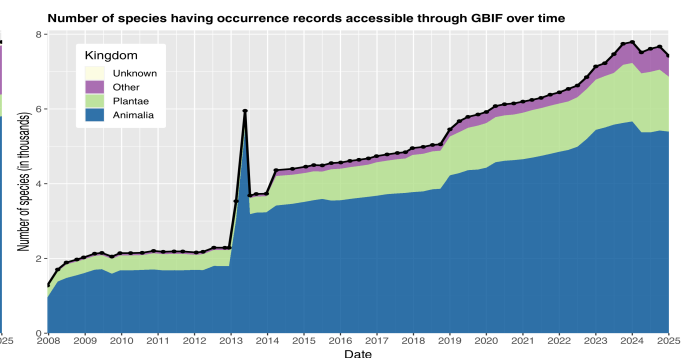
Arachnids = Class *Arachnida*  
Flowering plants = Phylum  
*Magnoliophyta*  
Gymnosperms = Superclass  
*Gymnospermae*

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

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



Occurrence records available about species occurring in Guam



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

#### 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.

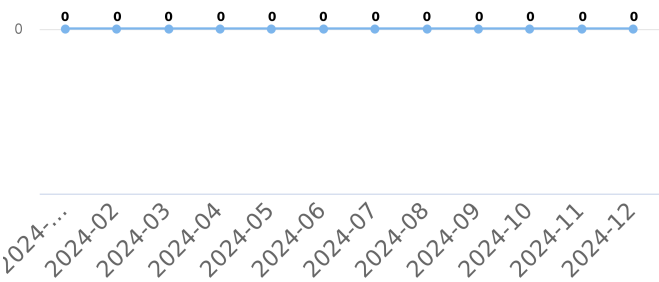
**SPECIES COUNTS** represent the number of binomial scientific names for which GBIF has received data records, organized as far as possible using synonyms recorded in key databases like the Catalogue of Life



Newest publishers from Guam

No data available

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



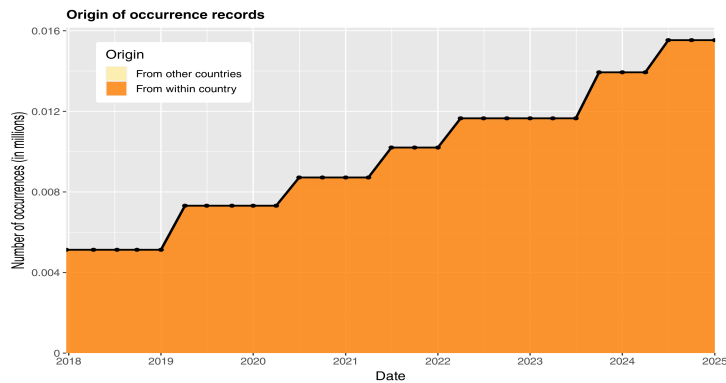
See all publishers from this country or area  
[gbif.org/publisher/search?country=GU](https://gbif.org/publisher/search?country=GU)

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

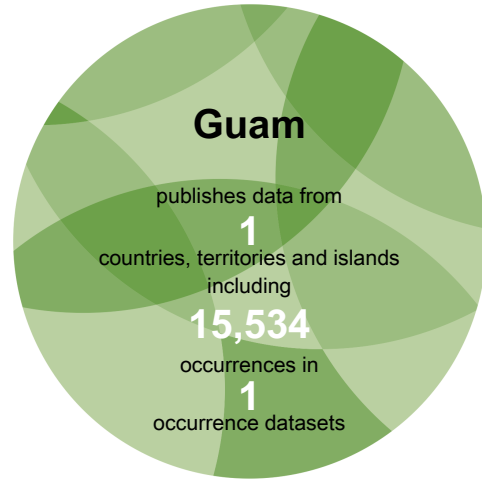


## Data mobilization

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



Data sharing with country or area of origin



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

### Top data contributors about biodiversity in Guam

Rank	Country or area	No. of occurrences
1	United States of America	125,773
2	United Kingdom	27,952
3	Guam	15,534
4	Australia	1,591
5	Netherlands	1,303
6	Japan	1,064
7	International organization or unknown country	731
8	Switzerland	462
9	France	394
10	Sweden	385

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

### Top datasets contributing data about Guam

NOAA Pacific Islands Fisheries Science Center, Ecosystem Sciences Division, National Coral Reef Monitoring Program: Stratified random surveys (StRS) of reef fish in the U.S. Pacific Islands. *40,308 occurrences in Guam.* (Last updated 2 Nov 2022)

Mariana and Kermadec Trench sediment 16S rRNA gene sequencing. *24,218 occurrences in Guam.* (Last updated 19 Feb 2020)

NMNH Extant Specimen Records (USNM, US). *20,614 occurrences in Guam.* (Last updated 2 Jan 2025)

University of Guam Insect Collection. *18,610 occurrences in Guam.* (Last updated 19 May 2023)

EOD – eBird Observation Dataset. *15,534 occurrences in Guam.* (Last updated 27 Sep 2024)

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