![GBIF | Global Biodiversity Information Facility]
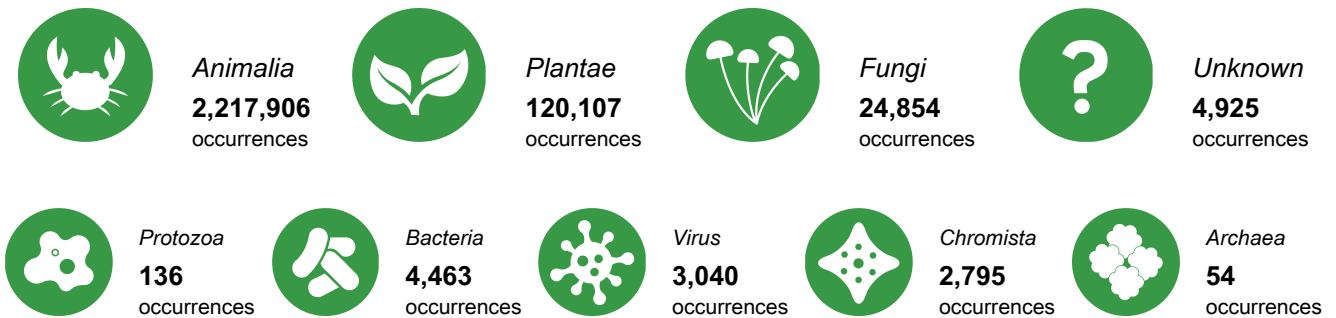
Activity report

Uganda

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 Uganda. 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.
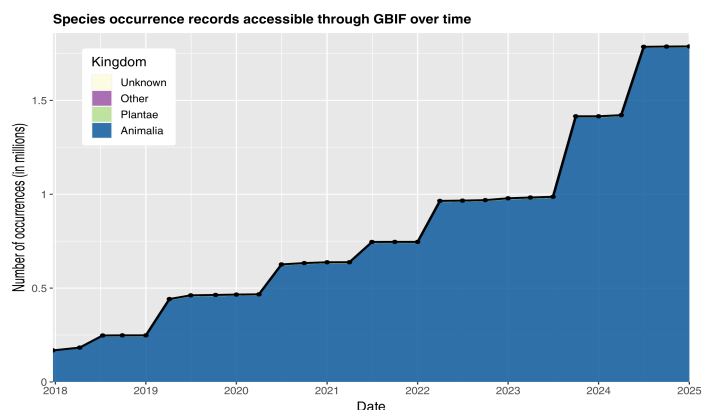

▸ **Access and usage**

Researchers from

Uganda

contributed to

4

peer-reviewed articles citing GBIF use during 2024 and a total of

16

articles since 2008

▸ **Data availability in Uganda**

Animalia
2,217,906
occurrences

Plantae
120,107
occurrences

Fungi
24,854
occurrences

Unknown
4,925
occurrences

Protozoa
136
occurrences

Bacteria
4,463
occurrences

Virus
3,040
occurrences

Chromista
2,795
occurrences

Archaea
54
occurrences

▸ **Data mobilization**

Institutions from

Uganda

published

372,340

new occurrence records during 2024 out of a total of

428,451,251

occurrence records added globally to GBIF.org

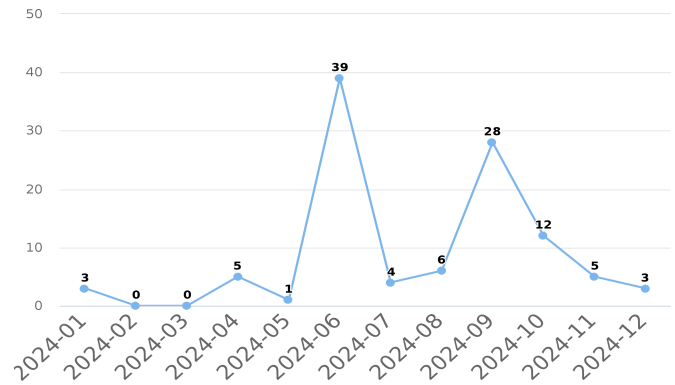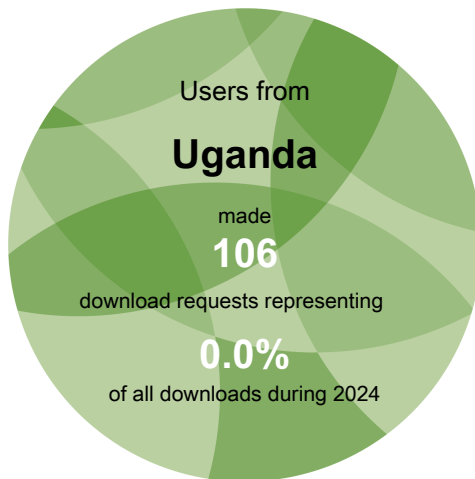Species occurrence records accessible through GBIF over time

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

Access and usage

Data downloads on GBIF.org from users in Uganda

Users from

Uganda

made

106

download requests representing

0.0%

of all downloads during 2024

Monthly downloads requested by users in Uganda

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

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 Uganda.

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

KAWUMA, NAMAGANDA, KATUURA *et al.* (2024) Morphological variation within Solanum campylacanthum (Solanaceae) in Uganda and its relationship with S. cerasiferum. *Phytotaxa.* https://doi.org/10.11646/phytotaxa.661.1.4

Hordijk, Bialic-Murphy, Lauber *et al.* (2024) Dominance and rarity in tree communities across the globe: Patterns, predictors and threats. *Global Ecology and Biogeography.* https://doi.org/10.1111/geb.13889

Cuni-Sanchez, Martin, Uzabaho *et al.* (2024) Evidence of thermophilization in Afromontane forests. *Nature Communications.* https://doi.org/10.1038/s41467-024-48520-w

Omuse, Tonnang, Yusuf *et al.* (2024) The global atlas of edible insects: Analysis of diversity and commonality contributing to food systems and sustainability. *Scientific Reports.* https://doi.org/10.1038/s41598-024-55603-7
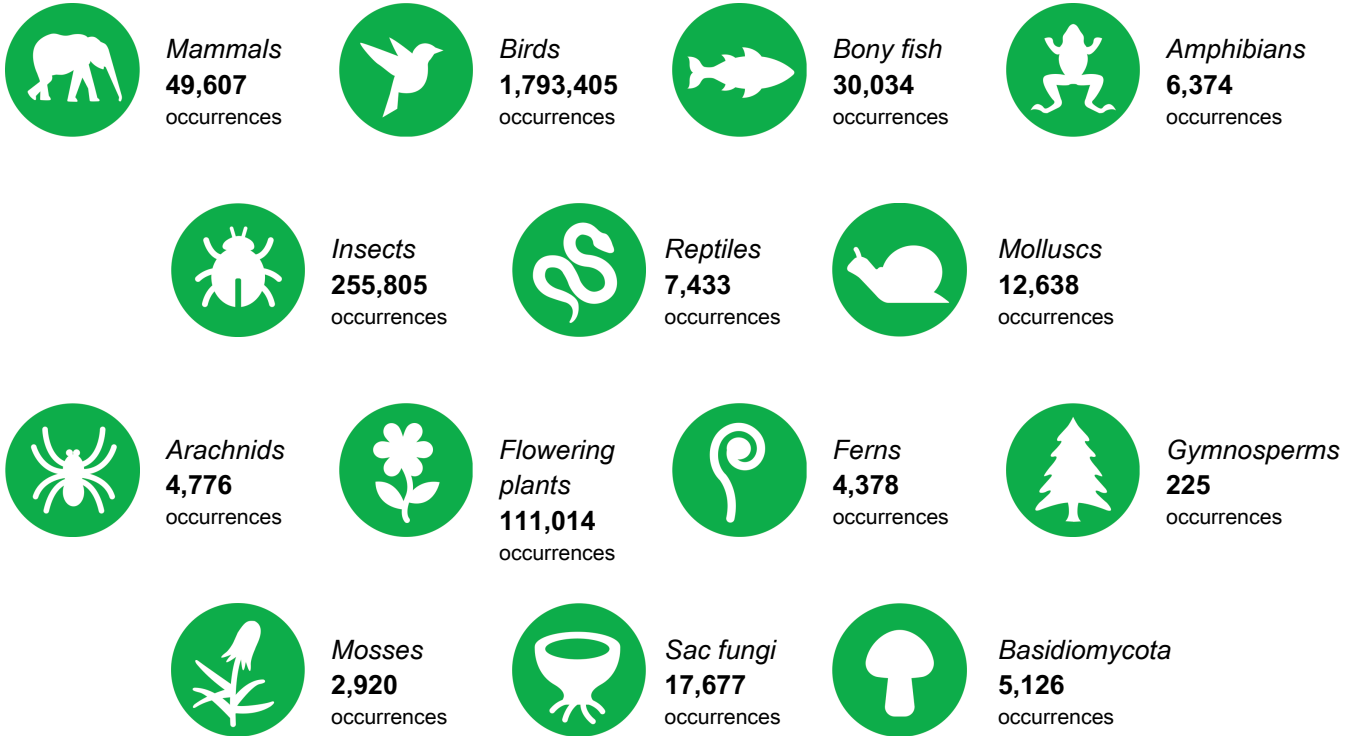
Tumwebaze, Clewing, Chibwana *et al.* (2022) Evolution and Biogeography of Freshwater Snails of the Genus Bulinus (Gastropoda) in Afromontane Extreme Environments. *Frontiers in Environmental Science.* https://doi.org/10.3389/fenvs.2022.902900

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

Data availability

Total data available for selected taxonomic groups in Uganda

Mammals
49,607
occurrences

Birds
1,793,405
occurrences

Bony fish
30,034
occurrences

Amphibians
6,374
occurrences

Insects
255,805
occurrences

Reptiles
7,433
occurrences

Molluscs
12,638
occurrences

Arachnids
4,776
occurrences

Flowering plants
111,014
occurrences

Ferns
4,378
occurrences

Gymnosperms
225
occurrences

Mosses
2,920
occurrences

Sac fungi
17,677
occurrences

Basidiomycota
5,126
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 Uganda

Occurrence records available about species occurring in Uganda

Species for which at least one occurrence record is available in Uganda
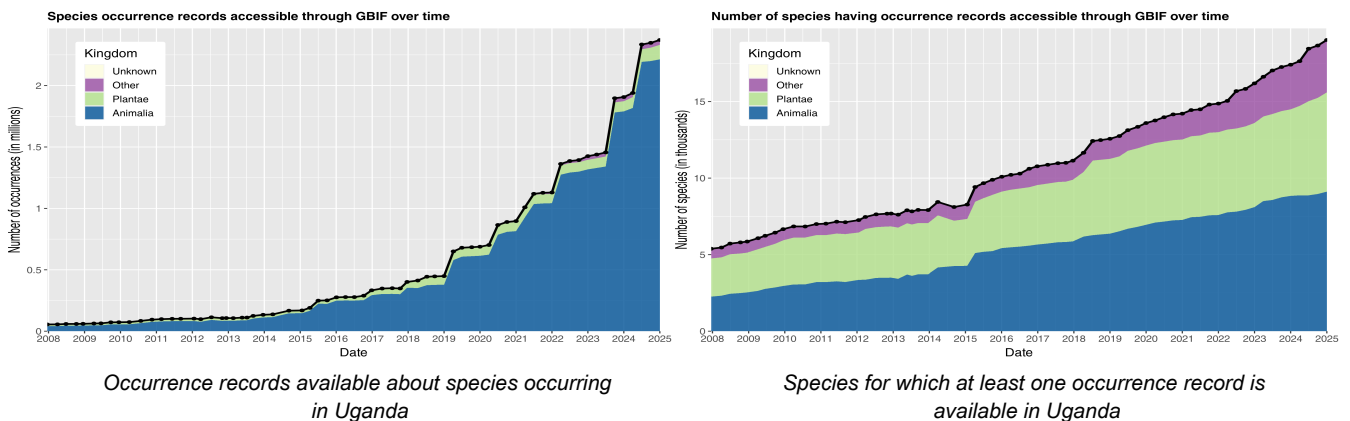
WHY MIGHT THE AMOUNT OF MOBILIZED DATA DECREASE?
Datasets are sometimes removed by publishers, but more often decreases in the number of records are due to the removal of duplicate records and datasets.

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 Uganda

Abundance and distribution of endemic bird species in Rushebeya Kanyabaha wetland, Rukiga district, SouthWestern Uganda. *Published by Kabale University*
https://doi.org/10.15468/6xys6x

Fish taxa observed in the first national surveys of streams and rivers in Uganda. *Published by National Fisheries Resources Research Institute*
https://doi.org/10.15468/sngcfm

Fish species occurrences in selected rivers in the Albert system. *Published by National Fisheries Resources Research Institute*
https://doi.org/10.15468/8x7bjb

Occurrence dataset of wild bees (Hymenoptera, Apoidea) present in agricultural and non-farmed landscapes of Central Uganda. *Published by Department of Zoology, Entomology and Fisheries Sciences*
https://doi.org/10.15468/ew2zkd

Checklist of small mammals of Mpigi Forest Reserve, Uganda. *Published by A Rocha Uganda*
https://doi.org/10.15468/6wh2v6

Checklist of small mammals of Bukaleba Forest Reserve, Uganda. *Published by A Rocha Uganda*
https://doi.org/10.15468/w6wsk7

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

## Newest publishers from Uganda

Kabale University

A Rocha Uganda

Makarere University, Department of Plant Science, Microbiology and Biotechnology

Department of Zoology, Entomology and Fisheries Sciences

National Biodiversity Data Bank

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

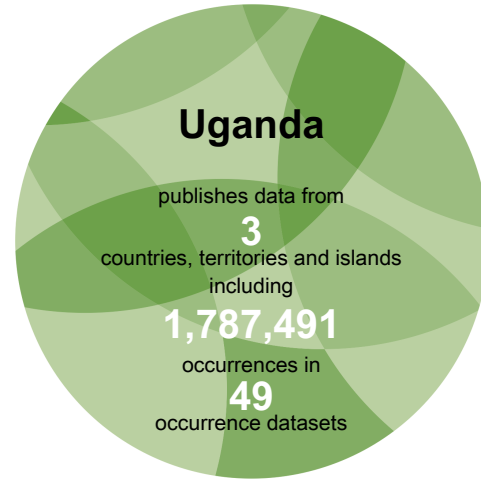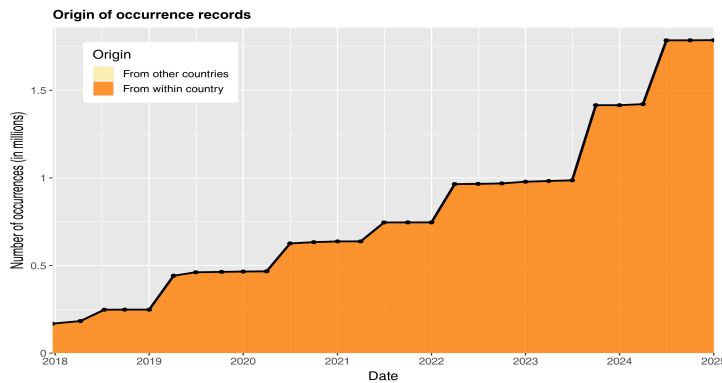## Occurrence records downloaded from GBIF.org, published by institutions in Uganda
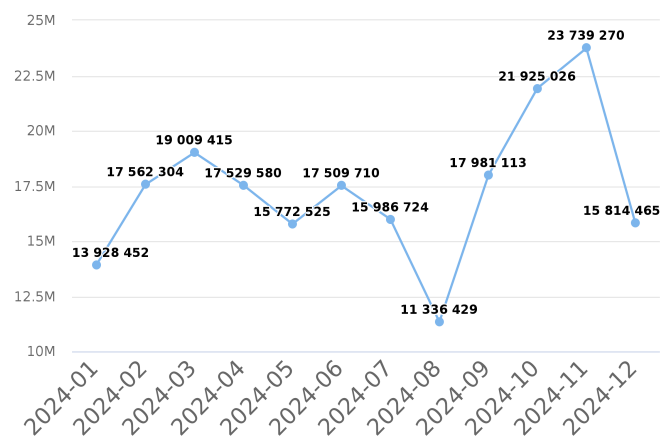
Number of occurrence records downloaded via GBIF.org published by institutions in Uganda

Data mobilization

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

Origin of occurrence records

Data sharing with country or area of origin

Uganda

publishes data from
3
countries, territories and islands
including
1,787,491
occurrences in
49
occurrence datasets

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

Top data contributors about biodiversity in Uganda

Rank	Country or area	No. of occurrences
1	Uganda	1,786,187
2	United States of America	266,161
3	United Kingdom	88,966
4	Netherlands	40,667
5	Finland	33,152
6	International organization or unknown country	22,226
7	Estonia	21,744
8	Kenya	21,464
9	Norway	18,898
10	Belgium	16,987

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

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

Top datasets contributing data about Uganda

EOD – eBird Observation Dataset. *1,629,562 occurrences in Uganda.* (Last updated 27 Sep 2024)

VectorBase (Bioinformatics Resource for Invertebrate Vectors of Human Pathogens). *132,515 occurrences in Uganda.* (Last updated 19 Mar 2024)

National Biodiversity Data Bank. Observation records, 1900-2014. *57,218 occurrences in Uganda.* (Last updated 28 Sep 2021)

iNaturalist Research-grade Observations. *39,634 occurrences in Uganda.* (Last updated 30 Dec 2024)

Natural History Museum (London) Collection Specimens. *34,650 occurrences in Uganda.* (Last updated 3 Jan 2025)

Uganda participates in the following projects coordinated by GBIF

GBIF Africa Nodes data mobilization, ecological niche modelling and data paper training and mentorship
Capacity Enhancement Support Programme, 2015–2016
This project is centred on providing practical training on ecological niche modelling and the preparation of data papers to participants from up to 10 nodes in Africa using real datasets for threatened or invasive species to be published to the GBIF network.
https://www.gbif.org/project/82204

Advancing freshwater biodiversity data access, utility and relevance for conservation decision-making in Uganda
BID: Biodiversity Information for Development, 2021–2023
https://www.gbif.org/project/BID-AF2020-145-USE

Biodiversity data mobilization in the Albertine Rift region
BID: Biodiversity Information for Development, 2016–2017
This project strengthens the ARBIMS portal and expands the data managers' network.
https://www.gbif.org/project/82764

Mobilizing plant diversity data in Uganda through training
BID: Biodiversity Information for Development, 2016–2017
The project aims to identify data holders from Uganda engaged in active monitoring and management of plant biodiversity data
https://www.gbif.org/project/82781

Increasing capacity for conservation of threatened fish species through data mobilization and training
BID: Biodiversity Information for Development, 2017–2019
The goal of this project is to increase capacity for conservation of threatened fish species through data mobilization and training. The specific objectives are (1) to mobilize data on at least 10,000 fish records from Uganda's aquatic systems (including lakes, rivers and streams, and wetlands), (2) identify and train scientists active in monitoring and management of fish biodiversity data in the use of data publishing tools, and (3) create awareness among policy makers in use of biodiversity information for decision making.
https://www.gbif.org/project/5MKPHm718koog2OYmgqKKl

See all GBIF projects
gbif.org/resource/search?contentType=project