GBIF Global Biodiversity Information Facility

Activity report

generated January 2025

Nigeria

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 Nigeria. 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

Nigeria

contributed to

6

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

49

articles since 2008

▸ Data availability in Nigeria

Animalia
872,945
occurrences

Plantae
192,945
occurrences

Fungi
23,264
occurrences

Unknown
1,900
occurrences

Protozoa
616
occurrences

Bacteria
31,151
occurrences

Virus
5,877
occurrences

Chromista
8,343
occurrences

Archaea
290
occurrences

▸ Data mobilization

Institutions from

Nigeria

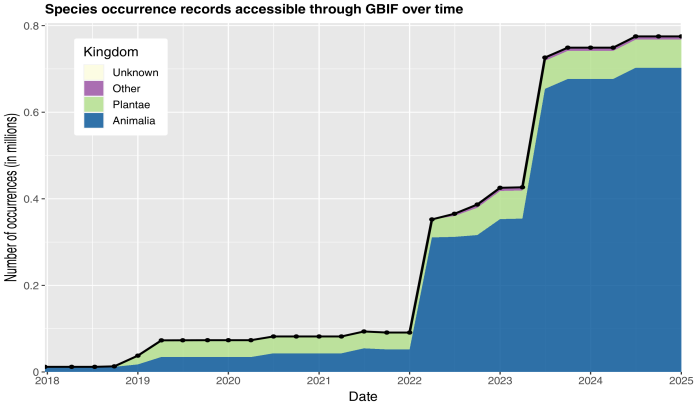
published

26,009

new occurrence records during 2024 out of a total of

428,451,251

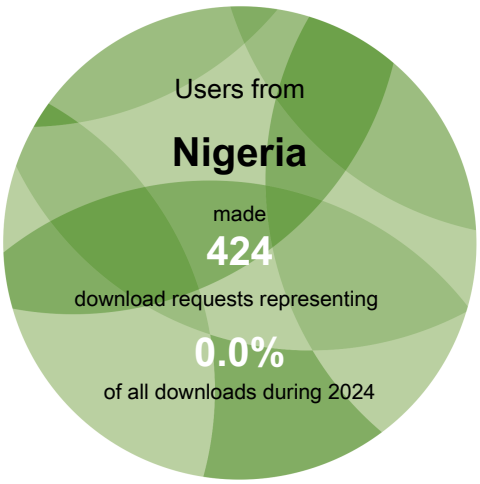
occurrence records added globally to GBIF.org

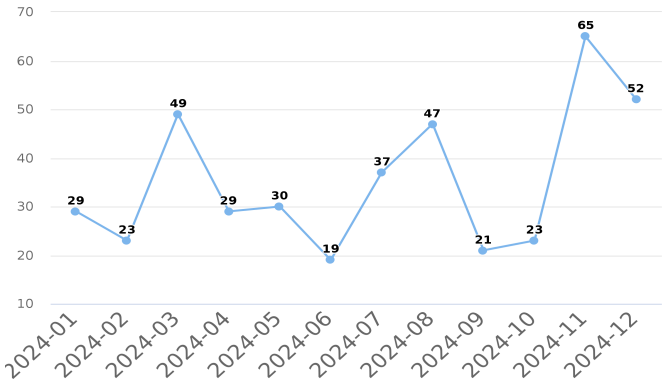


Number of records published by institutions in Nigeria, categorized by kingdom

Access and usage

Data downloads on GBIF.org from users in Nigeria





Monthly downloads requested by users in Nigeria

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

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 Nigeria.

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

Nduche, Brehm, Abberton *et al.* (2024) Global Genepool Conservation and use Strategy for Dioscorea (YAM). *Biodiversity and Conservation.* https://doi.org/10.1007/s10531-024-02944-4

AJAO, AKINLABI, STEWART *et al.* (2024) Wood anatomical diversity and distribution modelling of Pterocarpus Jacq. (Fabaceae: Dalbergieae): Ecological and systematical implications. *TAIWANIA.* https://doi.org/10.6165/tai.2024.69.454

Akwaji Patrick Ishoro. (2024) Climate change and Pentaclethra macrophylla Benth: Forecasting alterations in native distributional range across West and Central Africa. *Journal of Wildlife and Biodiversity.* https://doi.org/10.5281/zenodo.13835195

Yan, Liu, Tiamiyu *et al.* (2024) Modeling the Present and Future Geographical Distribution Potential of Dipteronia dyeriana, a Critically Endangered Species from China. *Diversity.* https://doi.org/10.3390/d16090545

Tiamiyu, Ngarega, Zhang *et al.* (2024) Climate warming will affect the range dynamics of East Asian Meehania species: a maximum entropy approach. *Tropical Ecology.* https://doi.org/10.1007/s42965-024-00351-y

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

Data availability

Total data available for selected taxonomic groups in Nigeria

Mammals
13,382
occurrences

Birds
714,612
occurrences

Bony fish
48,929
occurrences

Amphibians
4,076
occurrences

Insects
52,676
occurrences

Reptiles
4,991
occurrences

Molluscs
3,854
occurrences

Arachnids
1,058
occurrences

Flowering plants
186,174
occurrences

Ferns
1,352
occurrences

Gymnosperms
233
occurrences

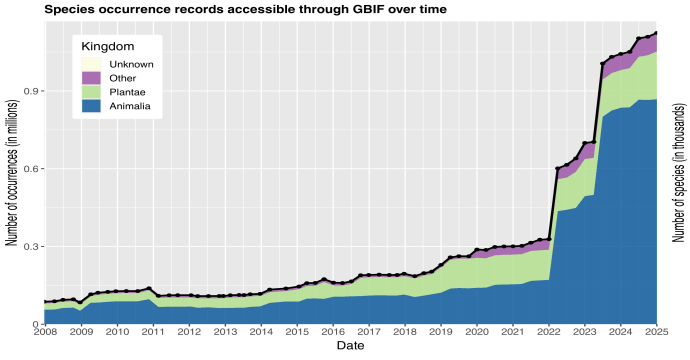
Mosses
1,461
occurrences

Sac fungi
15,931
occurrences

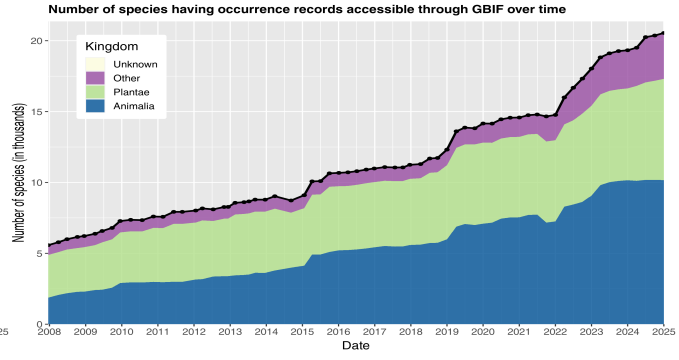
Basidiomycota
3,858
occurrences

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 Nigeria



Occurrence records available about species occurring in Nigeria



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

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 Nigeria

Checklist of flora and fauna of Bayelsa State, Nigeria. *Published by University of Lagos*
https://doi.org/10.15468/2dz5u4

Checklist of flora in Ogba Zoo, Edo State, Nigeria. *Published by University of Lagos*
https://doi.org/10.15468/pdxuz5

Macrobenthos of Atlantic Ocean by Ikike, Akwa-Ibom State, Nigeria. *Published by University of Lagos*
https://doi.org/10.15468/u2crjj

Checklist of Macrobenthos around Ikike, Akwa-Ibom State, Nigeria. *Published by University of Lagos*
https://doi.org/10.15468/8qbea9

Checklist of Plants in Niger Delta Region of Nigeria. *Published by University of Lagos*
https://doi.org/10.15468/44tbp5

Plants of Onura Sacred Groove, Alesa, Nigeria. *Published by University of Lagos*
https://doi.org/10.15468/zsq95g

Plants of Omakuru and Obite Sacred Groove, Etche Local Government, Rivers, Nigeria. *Published by University of Lagos*
https://doi.org/10.15468/yh8xrw

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

Newest publishers from Nigeria

University of Calabar

A.P. Leventis Ornithological Research Institute (APLORI)

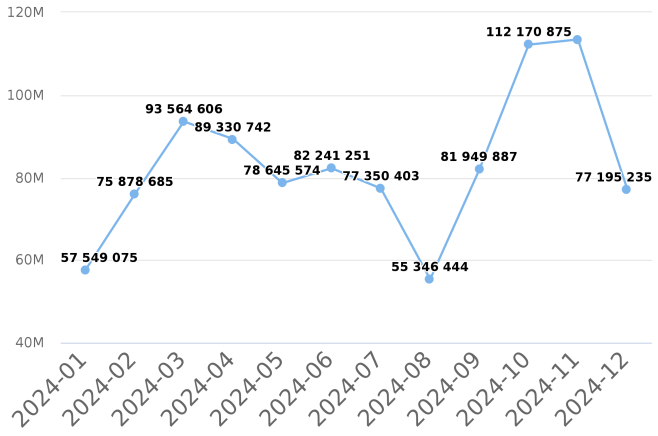
National Park Services

Nigerian Conservation Foundation (NCF)

Lagos State University

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

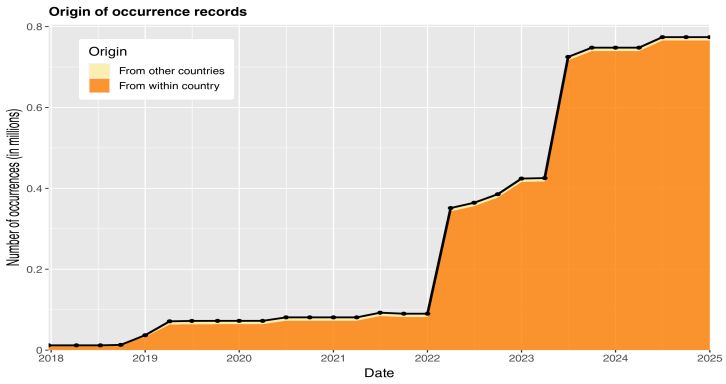
Occurrence records downloaded from GBIF.org, published by institutions in Nigeria



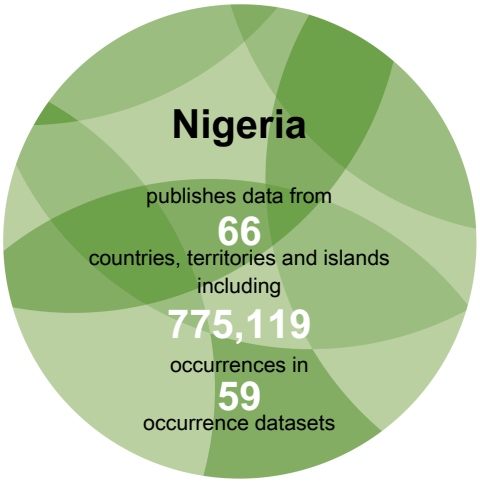
Number of occurrence records downloaded via GBIF.org published by institutions in Nigeria

Data mobilization

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



Data sharing with country or area of origin



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

Top data contributors about biodiversity in Nigeria

Rank	Country or area	No. of occurrences
1	Nigeria	765,466
2	United Kingdom	114,327
3	United States of America	52,536
4	Sweden	49,872
5	International organization or unknown country	27,481
6	Colombia	22,767
7	Netherlands	21,513
8	Estonia	16,787
9	Belgium	11,011
10	France	8,548

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

Top datasets contributing data about Nigeria

Nigerian Bird Atlas Project (Adhoc Records). *337,648 occurrences in Nigeria.* (Last updated 20 Dec 2024)

Nigeria Bird Atlas (Full Protocol Submissions). *238,677 occurrences in Nigeria.* (Last updated 1 Feb 2022)

EOD – eBird Observation Dataset. *111,251 occurrences in Nigeria.* (Last updated 27 Sep 2024)

FishBase Database. *46,510 occurrences in Nigeria.* (Last updated 23 Mar 2023)

Royal Botanic Gardens, Kew - Herbarium Specimens. *35,494 occurrences in Nigeria.* (Last updated 2 Jan 2025)

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

Nigeria participates in the following projects coordinated by GBIF

Implementation of the biodiversity information and data system for coastal ecosystems in Nigeria
BID: Biodiversity Information for Development, 2021–2023
https://www.gbif.org/project/BID-AF2020-022-NAC

Enhancing capacity to mobilize and use biodiversity data to support sustainable development in West Africa
Capacity Enhancement Support Programme, 2020–2023
The overall goal of this project is to enhance capacity for biodiversity data mobilization and development of information products in support of sustainable development in West Africa
https://www.gbif.org/project/ImAtw3uVGVpjrpiYHAxvD

The African Bird Atlas Project
BID: Biodiversity Information for Development, 2021–2023
https://www.gbif.org/project/BID-AF2020-039-REG

Expanding the visibility of the Lagos Herbarium through digitization and mobilization of plant specimen data
BID: Biodiversity Information for Development, 2021–2022
https://www.gbif.org/project/BID-AF2020-009-INS

Capacity advancement for the Nigeria node of GBIF
BID: Biodiversity Information for Development, 2017–2019
More than 700,000 data records related to plants and animals within protected areas and corresponding invasive, threatened and endemic species are housed in Institutions in Nigeria. The objective of the project is to initiate mobilization of biodiversity data from Nigerian biodiversity data holders, custodians, and institutions that are yet to begin data mobilization.
https://www.gbif.org/project/6PYpxnirfiMs2AQYIc0IO2

Digitizing Odonata species of southern Nigeria
BID: Biodiversity Information for Development, 2017–2019
A number of studies have been done on diversity, banking and DNA barcoding of odonates in southern Nigeria however, data collation on Odonata in Nigeria as a whole is unavailable. It is therefore important to compile this record for ease of access. The broader impact of the research would include capacity building for postgraduate students as well as conservationists, as well as availability of species records in relevant databases i.e. GBIF
https://www.gbif.org/project/5M3TP8VrR6YCmQUC0S8WkU

Mentoring of Nigerian Biodiversity Information Facility
Capacity Enhancement Support Programme, 2018–2019
This project will enhance the capacity of the Nigerian GBIF node through mentoring by GBIF Benin/France with some Nigerian partners to strengthen biological collections.
https://www.gbif.org/project/4knGeACuYomSS4OekCI4E0

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