![GBIF Global Biodiversity Information Facility]
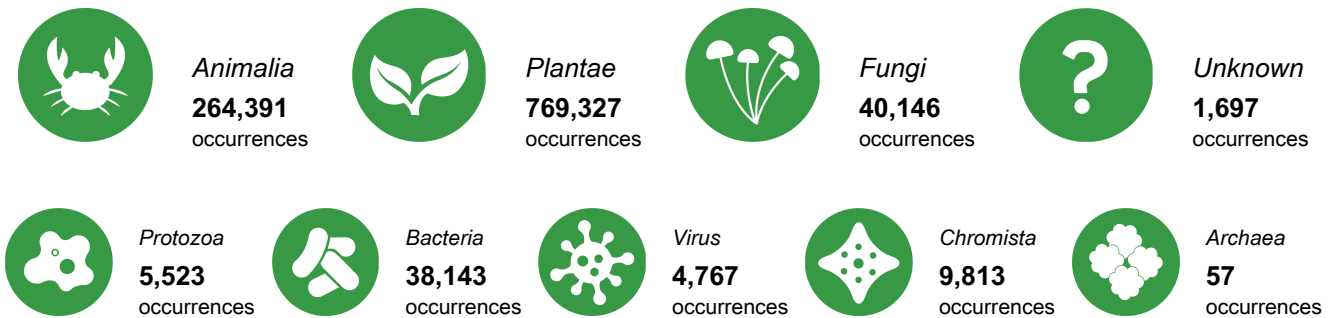
Activity report

Benin

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 Benin. 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.
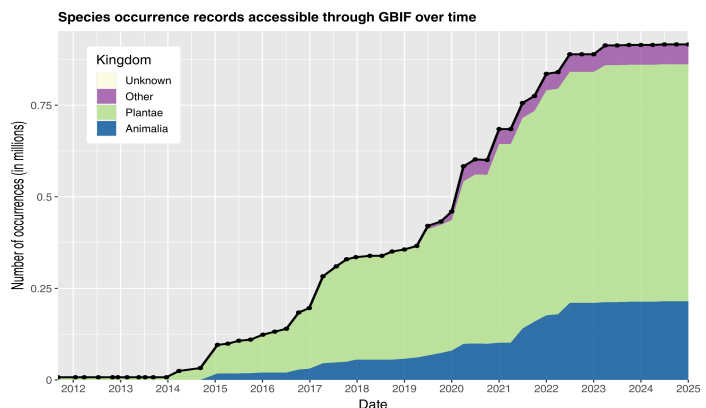
▶ Access and usage

Researchers from

Benin

contributed to

15

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

65

articles since 2008

▶ Data availability in Benin

Animalia
264,391
occurrences

Plantae
769,327
occurrences

Fungi
40,146
occurrences

Unknown
1,697
occurrences

Protozoa
5,523
occurrences

Bacteria
38,143
occurrences

Virus
4,767
occurrences

Chromista
9,813
occurrences

Archaea
57
occurrences

▶ Data mobilization

Institutions from

Benin

published

1,558

new occurrence records during 2024 out of a total of

428,451,251

occurrence records added globally to GBIF.org
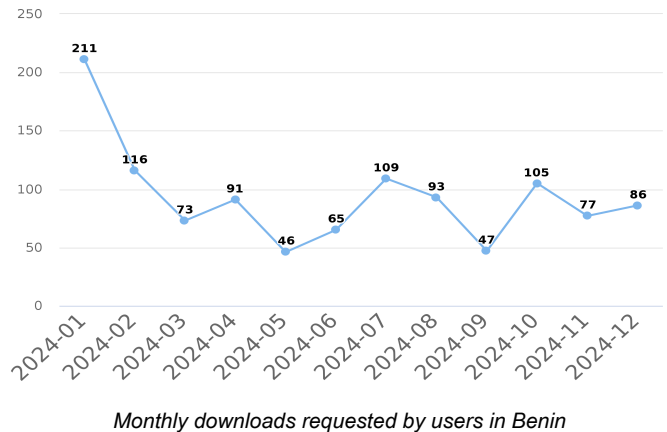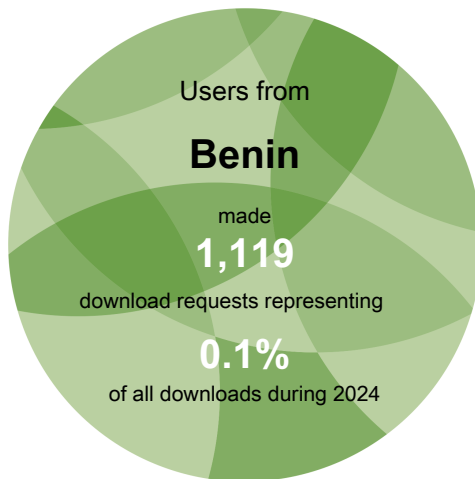

Species occurrence records accessible through GBIF over time

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

Access and usage

Data downloads on GBIF.org from users in Benin

Users from

Benin

made

1,119

download requests representing

0.1%

of all downloads during 2024

Monthly downloads requested by users in Benin

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

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 Benin.

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

Dogbo, Salako, Agoundé *et al.* (2024) Potential impacts of future climate on twelve key multipurpose tree species in Benin: Insights from species distribution modeling for biodiversity conservation. *Trees, Forests and People.*
https://doi.org/10.1016/j.tfp.2024.100744

Waldock, Maire, Albouy *et al.* (2024) Micronutrient levels of global tropical reef fish communities differ from fisheries capture. *People and Nature.*
https://doi.org/10.1002/pan3.10736

Aikpon, Gbenou, Lokossou *et al.* (2024) Spatial distribution and ecological niche modelling of lymphatic filariasis (Wuchereria bancrofti (Cobbold, 1877) in the context of climate and global change (Benin, West Africa). *International Journal of Mosquito Research.*
https://doi.org/10.22271/23487941.2024.v11.i5a.803

Dassou, Agoundé, Akouété *et al.* (2024) Past, present, and future potential distributions of the African multipurpose tree Detarium senegalense (Fabaceae). *Plant Ecology and Evolution.*
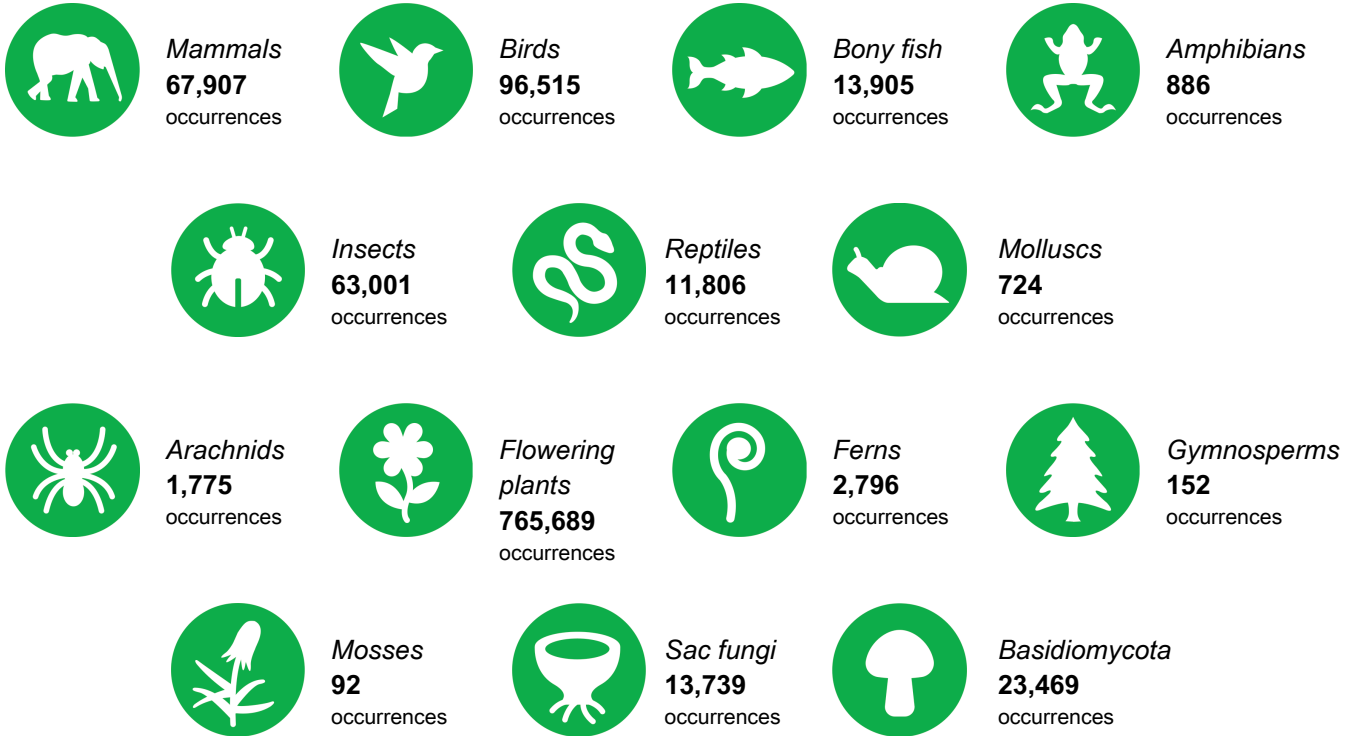https://doi.org/10.5091/plecevo.122470

Gandaho, Sogbohossou, Thompson. (2024) NIMO: A graphical user interface-based R package for species distribution modelling. *Ecological Solutions and Evidence.*
https://doi.org/10.1002/2688-8319.12385

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

Data availability

Total data available for selected taxonomic groups in Benin

Mammals
67,907
occurrences

Birds
96,515
occurrences

Bony fish
13,905
occurrences

Amphibians
886
occurrences

Insects
63,001
occurrences

Reptiles
11,806
occurrences

Molluscs
724
occurrences

Arachnids
1,775
occurrences

Flowering plants
765,689
occurrences

Ferns
2,796
occurrences

Gymnosperms
152
occurrences

Mosses
92
occurrences

Sac fungi
13,739
occurrences
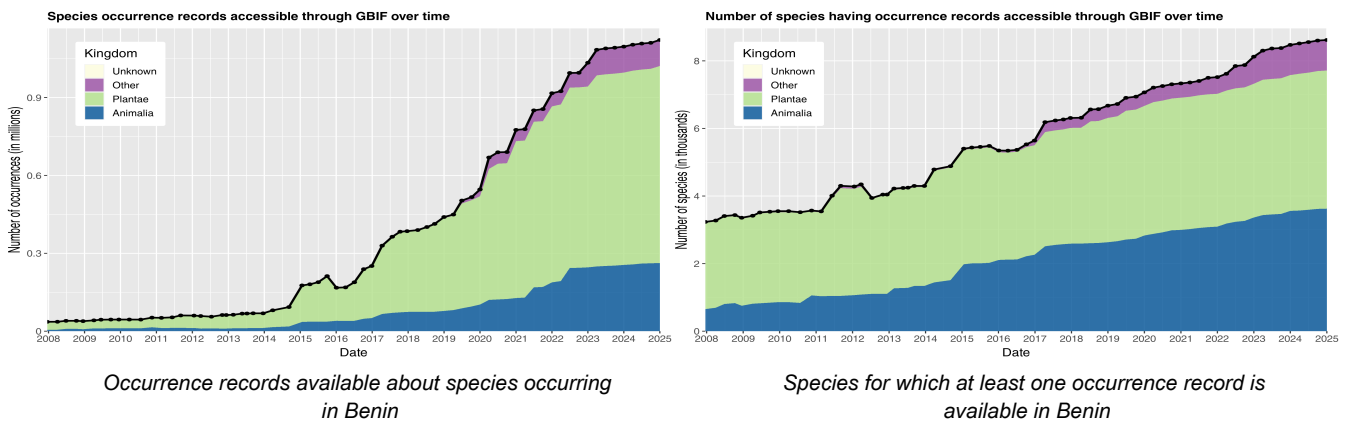
Basidiomycota
23,469
occurrences

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 Benin

Species occurrence records accessible through GBIF over time

Occurrence records available about species occurring in Benin

Number of species having occurrence records accessible through GBIF over time

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

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 Benin

Numbering of birds and small carnivores in a wetland at Grand Popo (Benin). *Published by Benin Ecotourism Concern*
https://doi.org/10.15468/3e7g39

Simple plants inventory in a wetland at Grand Popo (Benin). *Published by Benin Ecotourism Concern*
https://doi.org/10.15468/dar479

Inventaire des espèces d'oiseaux au sein du parc naturel communautaire de la vallée de Sitatunga (sud-Bénin). *Published by CENTRE REGIONAL DE RECHERCHE ET D'EDUCATION POUR UN DEVELOPPEMENT INTEGRE (CREDI-ONG)*
https://doi.org/10.15468/ektptb

Forest species found in southern Benin. *Published by Faculté des Sciences et Techniques (FAST)*
https://doi.org/10.15468/wzkdbz

Tree species occurrences collected in the forest of Niaouli (Benin). *Published by Laboratory of Forest Sciences (University of Abomey-Calavi)*
https://doi.org/10.15468/kvg37e

Checklist derived from plant species published on GBIF through BID project (BID-AF2020-083-USE). *Published by Laboratory of Forest Sciences (University of Abomey-Calavi)*
https://doi.org/10.15468/we9pft

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

Newest publishers from Benin

Benin Ecotourism Concern

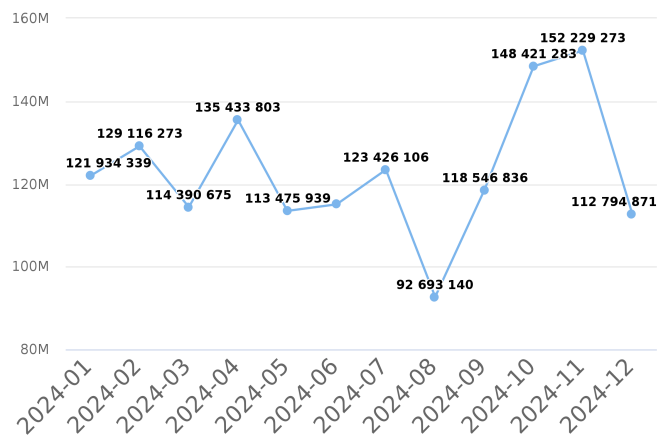Agence Béninoise pour l'Environnement (ABE)

Coordination pour la Recherche et le Développement de l'Environnement (CORDE ONG)

Unité de Recherche en Conservation et Écologie de la Faune

Office National du Bois

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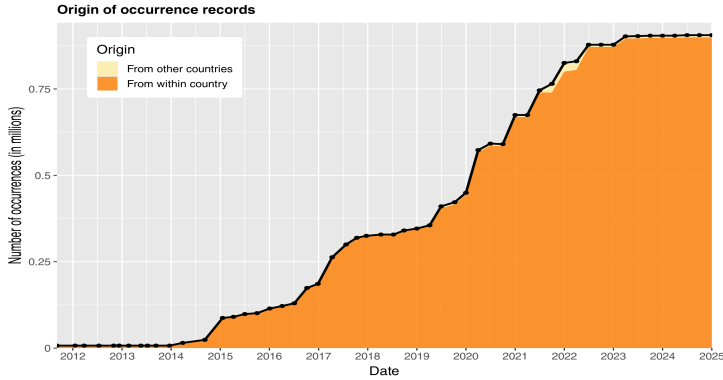*gbif.org/publisher/search?country=BJ*

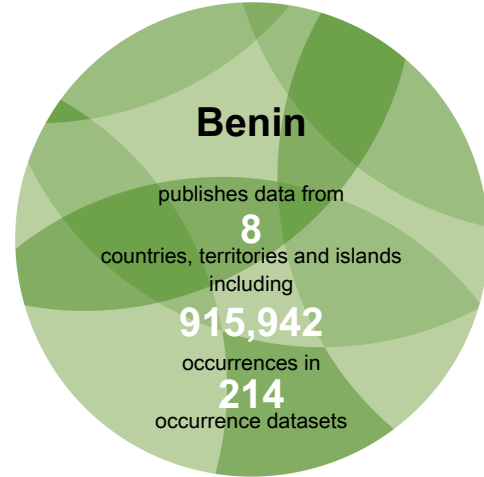## Occurrence records downloaded from GBIF.org, published by institutions in Benin

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

Data mobilization

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

Origin of occurrence records

Origin
- From other countries
- From within country

Number of occurrences (in millions)

Date

Data sharing with country or area of origin

Benin

publishes data from
8
countries, territories and islands
including
915,942
occurrences in
214
occurrence datasets

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

Top data contributors about biodiversity in Benin

Rank	Country or area	No. of occurrences
1	Benin	909,589
2	United States of America	51,470
3	Estonia	40,311
4	France	25,901
5	Togo	25,166
6	Netherlands	24,663
7	Belgium	17,388
8	Germany	11,728
9	United Kingdom	7,238
10	Sweden	5,580

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

Top datasets contributing data about Benin

Census of plant species in Benin as part of several research projects. *47,925 occurrences in Benin.* (Last updated 21 Dec 2020)

The census of national forest of Benin .. *42,979 occurrences in Benin.* (Last updated 13 Aug 2018)

Global soil organisms. *37,259 occurrences in Benin.* (Last updated 27 Feb 2023)

iNaturalist Research-grade Observations. *34,287 occurrences in Benin.* (Last updated 30 Dec 2024)

Occurrences de vecteurs de maladies recensées à l'Hôpital de Mènontin. *29,559 occurrences in Benin.* (Last updated 10 Jan 2020)

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

Benin participates in the following projects coordinated by GBIF

Data use to inform decisions on biodiversity conservation and public health in Benin
BID: Biodiversity Information for Development, 2021–2023
https://www.gbif.org/project/BID-AF2020-083-USE

Capacity building and biodiversity data mobilization for conservation and policy in Africa
BID: Biodiversity Information for Development, 2016–2018
This project to mobilize biodiversity data and identify conservation priorities is implemented by a consortium of eight African countries – Senegal, Côte-d'Ivoire, Mali, Guinea, DRC, Niger, Madagascar, and Benin.
https://www.gbif.org/project/82750

Mobilizing biodiversity data from the forest reserves of southern and central Benin
BID: Biodiversity Information for Development, 2016–2017
This project builds on a previous programme to map seedlings of native tree species in forest reserves in south and central Benin.
https://www.gbif.org/project/82729

Gathering of biodiversity data on bird species for their sustainable management in Benin
BID: Biodiversity Information for Development, 2016–2017
The project contributes to the conservation of bird species in Benin by enhancing data available on the species.
https://www.gbif.org/project/82723

Capacity building and biodiversity data mobilization to address health and food security priorities in Benin
BID: Biodiversity Information for Development, 2016–2018
This project enhances data mobilization capacity and promotes the use of data on medicinal plants used to treat malaria, and on multipurpose agroforestry plant species.
https://www.gbif.org/project/82741

Mobilization of biodiversity data on protected areas and threatened species in Benin
BID: Biodiversity Information for Development, 2016–2017
This project increases availability of data on protected areas, including from the W and Pendjari national parks of Benin, and on threatened species such as _Afzelia africana_.
https://www.gbif.org/project/82703

Mentoring of GBIF Cameroon by GBIF Benin and GBIF France
Capacity Enhancement Support Programme, 2021–2022
https://www.gbif.org/project/CESP2021-002

Using the CBD Clearing-House Mechanism to strengthen biodiversity data acquisition and data sharing
Capacity Enhancement Support Programme, 2019–2020
A new content management system, Bioland Tool, could use the Convention on Biological Diversity's CHM network and infrastructure to improve biodiversity data sharing
https://www.gbif.org/project/79ZRBGx5dNXYpR2ijHKebK

International Living Atlases workshop
Capacity Enhancement Support Programme, 2017–2018
This project will support and strengthen the growing international community of practice around open-source software developed by the Atlas of Living Australia.
https://www.gbif.org/project/83337

International workshop on invasive species in the sub-Sahara area
Capacity Enhancement Support Programme, 2014–2015
This bilingual regional training event will promote knowledge exchange between biodiversity experts and establish a coordinated early warning and response network for invasive alien species across the entire sub-Saharan region (Maghreb and Sahel).
https://www.gbif.org/project/82223

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