GBIF Global Biodiversity Information Facility

Activity report

generated January 2025

Democratic Republic of the Congo

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 Democratic Republic of the Congo. 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
Democratic Republic of the Congo
contributed to
2
peer-reviewed articles citing GBIF use during 2024 and a total of
5
articles since 2008

▸ Data availability in Democratic Republic of the Congo

Animalia
614,430
occurrences

Plantae
655,702
occurrences

Fungi
51,021
occurrences

Unknown
17,816
occurrences

Protozoa
722
occurrences

Bacteria
11,772
occurrences

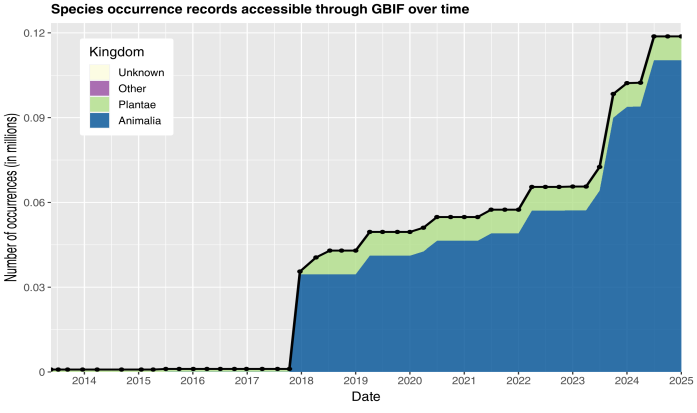
Virus
1,681
occurrences

Chromista
5,368
occurrences

Archaea
170
occurrences

▸ Data mobilization

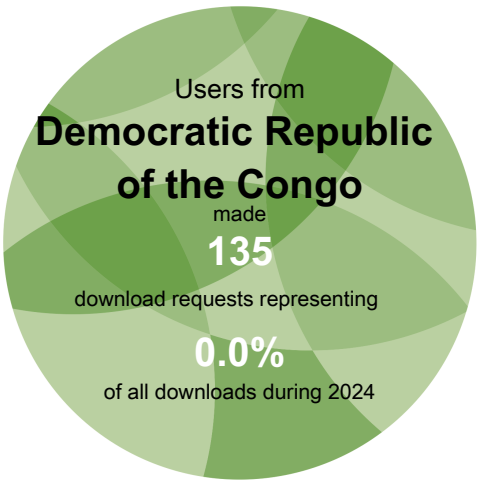
Institutions from
Democratic Republic of the Congo
published
16,533
new occurrence records during 2024
out of a total of
428,451,251
occurrence records added globally to GBIF.org

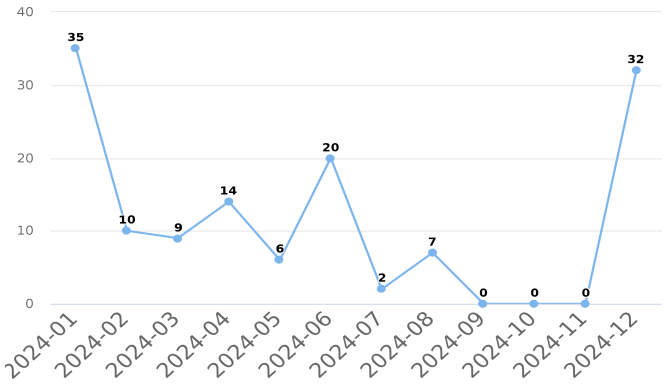


Number of records published by institutions in Democratic Republic of the Congo, categorized by kingdom

Access and usage

Data downloads on GBIF.org from users in Democratic Republic of the Congo





Monthly downloads requested by users in Democratic Republic of the Congo

Recent peer-reviewed articles using GBIF-mediated data by co-authors based in Democratic Republic of the Congo

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 Democratic Republic of the Congo.

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

Kokou, Salumu, Balde *et al.* (2024) Modelling the Current and Future Spatial Distribution Area of Adansonia digitata L. in the Context of Climate Change in Malawi (Southern Africa). *Journal of Agricultural Science.*
https://doi.org/10.5539/jas.v16n9p41

Mavunda, Kanda, Folega *et al.* (2024) Urban Sustainability: Spatial distribution and ecological niche modelling of Brachytrupes membranaceus under climatic incidence in Kinshasa, DR. Congo. *Sylwan.*
https://doi.org/10.59879/2woir

Imani wa Rusaati, Won kang. (2023) MaxEnt modeling for predicting the potential distribution of Lebrunia bushaie Staner (Clusiaceae) under different climate change scenarios in Democratic Republic of Congo. *Journal of Asia-Pacific Biodiversity.*
https://doi.org/10.1016/j.japb.2023.06.005

Allen, Greenbaum, Hime *et al.* (2021) Rivers, not refugia, drove diversification in arboreal, sub-Saharan African snakes. *Ecology and Evolution.*
https://doi.org/10.1002/ece3.7429

Fuller, Thomassen, Mulembakani *et al.* (2011) Using Remote Sensing to Map the Risk of Human Monkeypox Virus in the Congo Basin. *EcoHealth.*
https://doi.org/10.1007/s10393-010-0355-5

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

Data availability

Total data available for selected taxonomic groups in Democratic Republic of the Congo

Mammals
87,248
occurrences

Birds
217,541
occurrences

Bony fish
107,809
occurrences

Amphibians
48,411
occurrences

Insects
87,317
occurrences

Reptiles
24,727
occurrences

Molluscs
11,584
occurrences

Arachnids
6,328
occurrences

Flowering plants
618,424
occurrences

Ferns
24,447
occurrences

Gymnosperms
742
occurrences

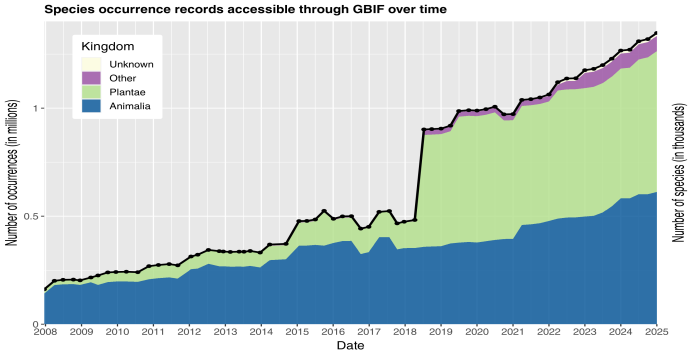
Mosses
4,677
occurrences

Sac fungi
18,542
occurrences

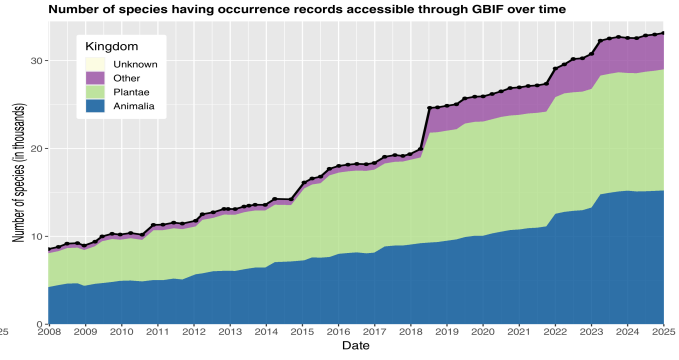
Basidiomycota
24,481
occurrences

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 Democratic Republic of the Congo



Occurrence records available about species occurring in Democratic Republic of the Congo



Species for which at least one occurrence record is available in Democratic Republic of the Congo

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 Democratic Republic of the Congo

Fisheries of western Lake Tanganyika in March 2024. *Published by Lake Tanganyika Floating Health Clinic*
https://doi.org/10.15468/mjavxt

Fisheries of northwestern Lake Tanganyika. *Published by Lake Tanganyika Floating Health Clinic*
https://doi.org/10.15468/8w3d26

Species composition and distribution of anopheles gambiae complex circulating in Kinshasa. *Published by University of Kinshasa*
https://doi.org/10.15468/excax3

Data from Entomological Collections of Aedes (Diptera: Culicidae) in a post-epidemic area of Chikungunya, City of Kinshasa, Democratic Republic of Congo. *Published by University of Kinshasa*
https://doi.org/10.15468/q53h26

Fisheries of Lake Tanganyika. *Published by Lake Tanganyika Floating Health Clinic*
https://doi.org/10.15468/zyzwxt

Diversity of Amphibians in the Tshopo and Bas-Uélé provinces of the Democratic Republic of the Congo. *Published by Centre de Surveillance de la Biodiversité de l'Université de Kisangani*
https://doi.org/10.15468/oab3wd

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

Newest publishers from Democratic Republic of the Congo

University of Kinshasa

Lake Tanganyika Floating Health Clinic

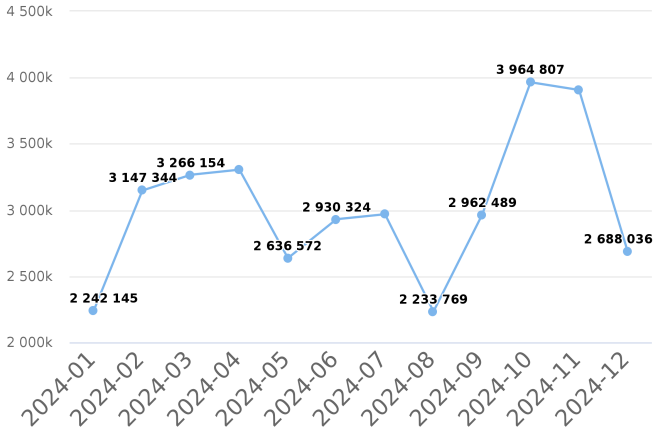
Centre de Surveillance de la Biodiversité de l'Université de Kisangani

Université Pédagogique Nationale de Kinshasa

Herbarium de la Réserve de l'INERA-Luki

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

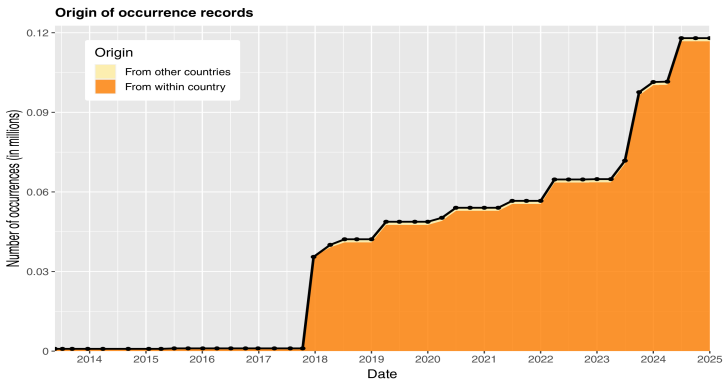
Occurrence records downloaded from GBIF.org, published by institutions in Democratic Republic of the Congo

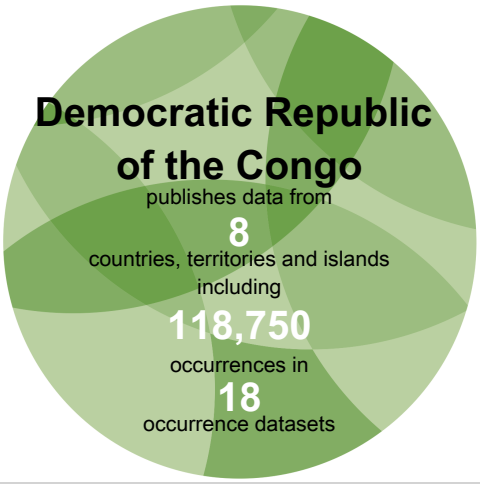


Number of occurrence records downloaded via GBIF.org published by institutions in Democratic Republic of the Congo

Data mobilization

Data sharing with country or area of origin by national institutions in Democratic Republic of the Congo





Data sharing with country or area of origin

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

Top data contributors about biodiversity in Democratic Republic of the Congo

Rank	Country or area	No. of occurrences
1	Belgium	793,512
2	United States of America	118,440
3	Democratic Republic of the Congo	117,144
4	United Kingdom	71,807
5	Estonia	53,707
6	Netherlands	49,790
7	Sweden	41,542
8	Poland	40,112
9	France	16,381
10	Germany	10,616

Table 1. Ranking of countries or areas contributing data about Democratic Republic of the Congo

Top datasets contributing data about Democratic Republic of the Congo

Meise Botanic Garden Herbarium (BR). *490,380 occurrences in Democratic Republic of the Congo.* (Last updated 8 Dec 2024)

EOD – eBird Observation Dataset. *96,570 occurrences in Democratic Republic of the Congo.* (Last updated 27 Sep 2024)

RBINS DaRWIN. *70,278 occurrences in Democratic Republic of the Congo.* (Last updated 11 Mar 2021)

Naturalis Biodiversity Center (NL) - Botany. *44,824 occurrences in Democratic Republic of the Congo.* (Last updated 1 Nov 2024)

African Mammalia. *40,884 occurrences in Democratic Republic of the Congo.* (Last updated 29 Nov 2024)

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

Democratic Republic of the Congo participates in the following projects coordinated by GBIF

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

Amphibian conservation in DR Congo through biodiversity capacity building and data mobilization

BID: Biodiversity Information for Development, 2017–2019

This project aims to mobilize data and capacity building to (1) examine amphibian species richness and abundance in individual protected area and for the country as a whole, (2) identify the distribution patterns of the threatened species, (3) examine which local and landscape variables are related to observed species richness, abundance and differences in composition, and (4) using BioClim variables, explore what determine species occurrence and predict potential distribution of species in the context of climate change.

https://www.gbif.org/project/3ejXgOU4xGIMccyIWWScOY

Building capacity in the DRC to establish an effective GBIF

BID: Biodiversity Information for Development, 2016–2018

This project will facilitate DRC's transition from its current status as a GBIF Associate Participant to Voting Participant.

https://www.gbif.org/project/82768

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