

generated January 2025

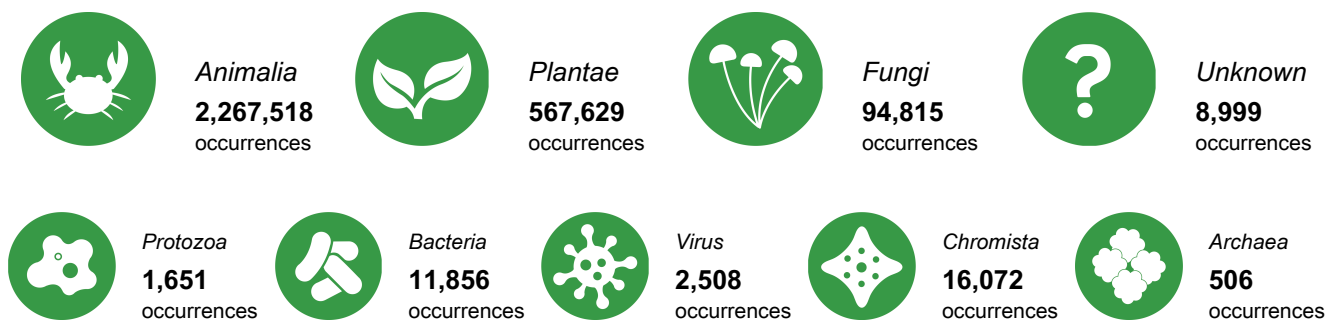
United Republic of Tanzania

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 United Republic of Tanzania. 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.

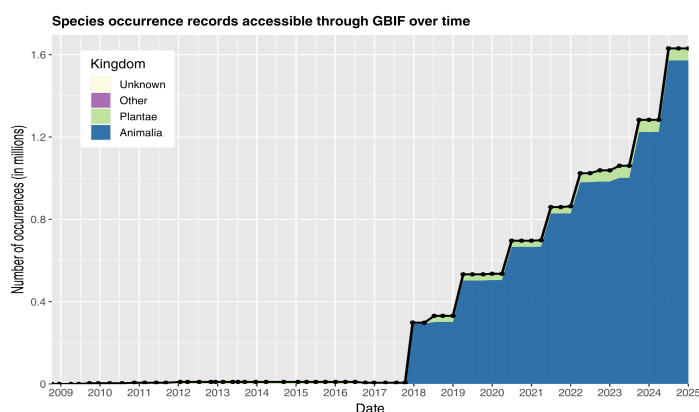
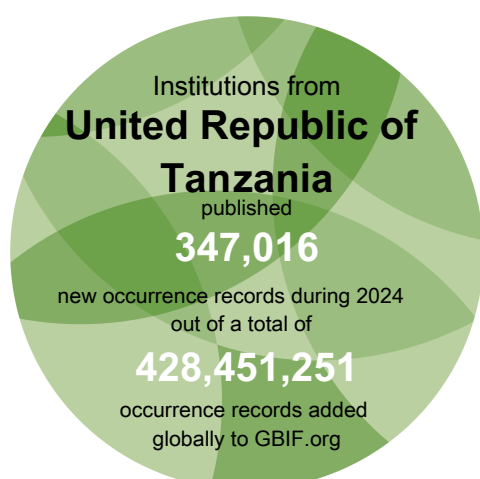
► Access and usage



► Data availability in United Republic of Tanzania



► Data mobilization

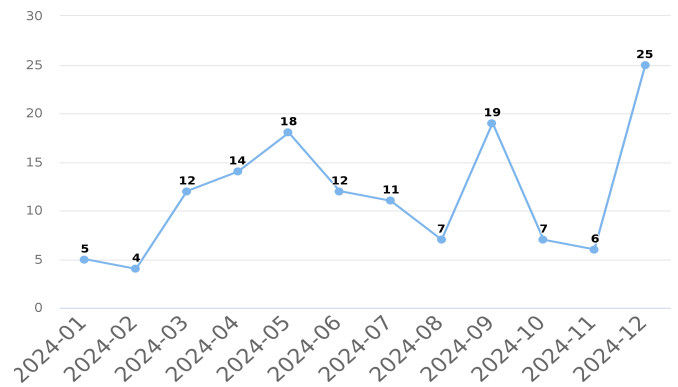
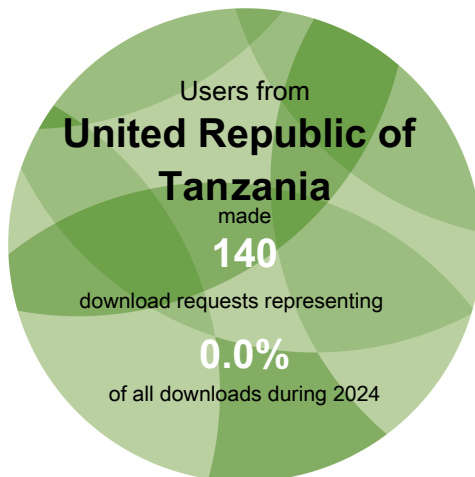


Number of records published by institutions in United Republic of Tanzania, categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in United Republic of Tanzania



Monthly downloads requested by users in United Republic of Tanzania

Recent peer-reviewed articles using GBIF-mediated data by co-authors based in United Republic of Tanzania

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 United Republic of Tanzania.

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

Kavana, Wang, Zhang *et al.* (2024) Spatio-temporal analysis of habitat suitability for the endangered oriental white stork (*Ciconia boyciana*) in the wetland ecosystem of northeast China. *Journal for Nature Conservation*.

<https://doi.org/10.1016/j.jnc.2024.126760>

Mayengo, Ngonyoka, Mtili *et al.* (2024) Coexistence through sustainable conservation strategies for sitatunga *Tragelaphus spekii* in African ecosystems. *Wildlife Biology*.

<https://doi.org/10.1002/wlb3.01274>

Lyakurwa, Loader, Ngalason *et al.* (2024) Kimboza, a Small Lowland Forest With an Outstanding Herpetofauna Diversity in East Africa. *Ecology and Evolution*.

<https://doi.org/10.1002/ece3.70406>

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>

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



Data availability

Total data available for selected taxonomic groups in United Republic of Tanzania



Mammals
98,106
occurrences



Birds
1,692,436
occurrences



Bony fish
66,018
occurrences



Amphibians
22,776
occurrences



Insects
294,969
occurrences



Reptiles
25,209
occurrences



Molluscs
29,695
occurrences



Arachnids
6,149
occurrences



Flowering plants
528,752
occurrences



Ferns
13,501
occurrences



Gymnosperms
1,419
occurrences



Mosses
11,650
occurrences



Sac fungi
52,278
occurrences



Basidiomycota
27,839
occurrences

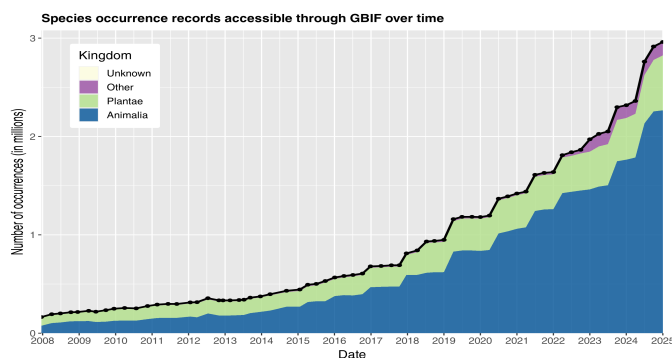
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

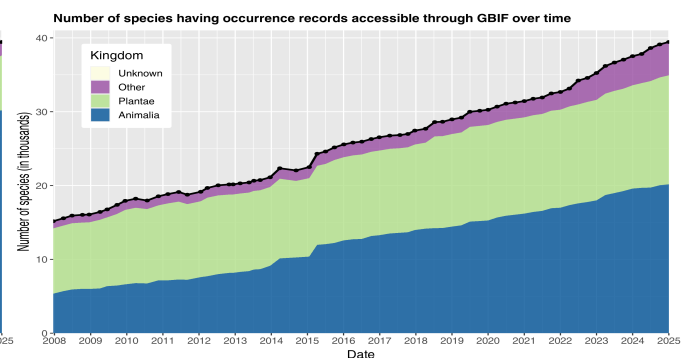
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in United Republic of Tanzania



Occurrence records available about species occurring in United Republic of Tanzania



Species for which at least one occurrence record is available in United Republic of Tanzania

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 United Republic of Tanzania

Occurrence Records of Bryopsida, Cycadopsida, Liliopsida, Magnoliopsida and Polypodiopsida specimens from the National Herbarium of Tanzania.. *Published by TanBIF*
<https://doi.org/10.15468/mk5gtg>

Occurrence and diversity of aquatic macroinvertebrates in the Lake Manyara Basin, northern-Tanzania.. *Published by TanBIF*
<https://doi.org/10.15468/bua68p>

Diversity and distribution of freshwater invertebrates in the Lake Victoria Basin. *Published by TanBIF*
<https://doi.org/10.15468/pu3xma>

A data set of non-flowering seed producing plants at TAFORI herbarium. *Published by TanBIF*
<https://doi.org/10.15468/hfygvj>

Occurrence and distribution of spores producing plants in Tanzania: Collection of Preserved Specimens at TAFORI herbarium. *Published by TanBIF*
<https://doi.org/10.15468/urxwjg>

Bryophyte collection -Tanzania Forestry Research Institute Herbarium. *Published by TanBIF*
<https://doi.org/10.15468/gsp6vf>

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

Newest publishers from United Republic of Tanzania

University of Dar es Salaam, Department of Zoology

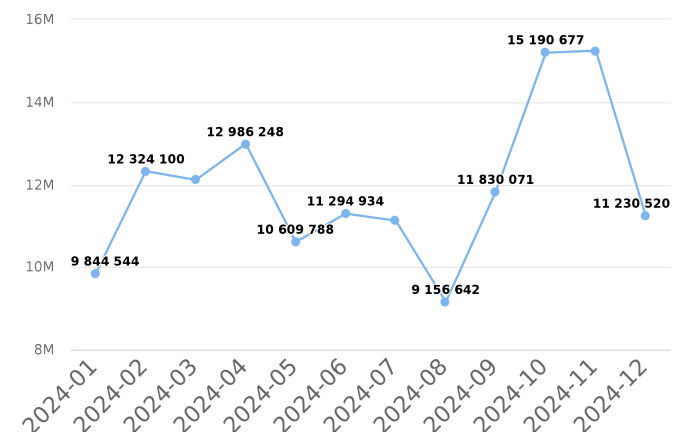
University of Dar es Salaam, Department of Botany

Sokoine University of Agriculture, Department of Ecosystems and Conservation

TanBIF

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

Occurrence records downloaded from GBIF.org, published by institutions in United Republic of Tanzania

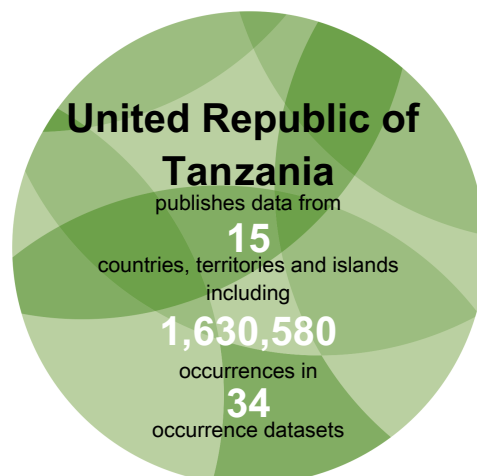
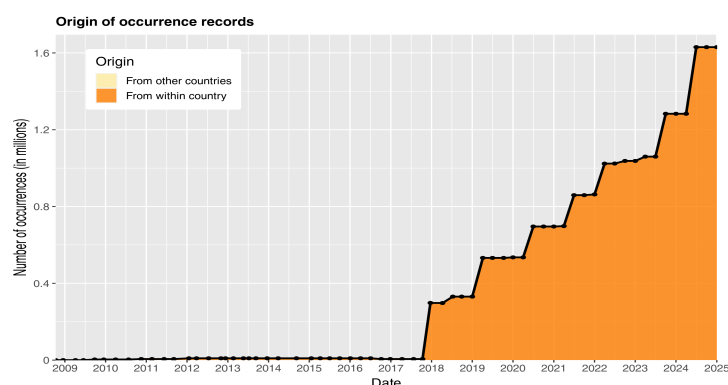


Number of occurrence records downloaded via GBIF.org published by institutions in United Republic of Tanzania



Data mobilization

Data sharing with country or area of origin by national institutions in United Republic of Tanzania



Data sharing with country or area of origin

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

Top data contributors about biodiversity in United Republic of Tanzania

Rank	Country or area	No. of occurrences
1	United Republic of Tanzania	1,630,336
2	United States of America	374,540
3	United Kingdom	234,959
4	International organization or unknown country	159,898
5	Estonia	115,414
6	Belgium	104,055
7	Netherlands	102,037
8	Germany	66,389
9	Sweden	30,662
10	Denmark	28,472

Table 1. Ranking of countries or areas contributing data about United Republic of Tanzania

Top datasets contributing data about United Republic of Tanzania

EOD – eBird Observation Dataset. 1,536,080 occurrences in United Republic of Tanzania. (Last updated 27 Sep 2024)

Royal Botanic Gardens, Kew - Herbarium Specimens. 126,632 occurrences in United Republic of Tanzania. (Last updated 2 Jan 2025)

International Barcode of Life project (iBOL). 125,392 occurrences in United Republic of Tanzania. (Last updated 7 Aug 2024)

iNaturalist Research-grade Observations. 97,988 occurrences in United Republic of Tanzania. (Last updated 30 Dec 2024)

Global soil organisms. 95,281 occurrences in United Republic of Tanzania. (Last updated 27 Feb 2023)

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



United Republic of Tanzania 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>

Mainstreaming freshwater invertebrate biodiversity data into government decision-making

BID: Biodiversity Information for Development, 2021–2023

<https://www.gbif.org/project/BID-AF2020-169-USE>

Enhancing accessibility of forest flora data in Tanzania

BID: Biodiversity Information for Development, 2021–2023

<https://www.gbif.org/project/BID-AF2020-038-INS>

Establishing Metadata of Biodiversity Data Generated from Ramsar Sites in Tanzania

BID: Biodiversity Information for Development, 2017–2019

The project will undertake an inventory of (a) who has what type of data, (b) in what form and format, (c) in what state of digitization, (d) if digitized, whether accessible or not (e) if accessible, from which source. Further the data will be mobilized and published on GBIF and TanBIF portals. In addition holders of biodiversity data from the Ramsar sites will be trained on how to publish and access data from GBIF Portal, as the strategic option for sustainability of data management in the Ramsar sites. Data that will be mobilized in the project will be analysed and help develop a checklist of species of the Tanzanian Ramsar Sites.

<https://www.gbif.org/project/7tTBfJVAicYKKg2ke68AMW>

Publishing metadata for biodiversity data generated from REDD+ projects in Tanzania

BID: Biodiversity Information for Development, 2016–2017

This project inventories data generated from REDD+ pilot projects in Tanzania, to establish data holdings, formats that data are held in, and the state of data digitization and access.

<https://www.gbif.org/project/82753>

Digitizing national vegetable databases to improve food and nutritional security in Eastern Africa

BID: Biodiversity Information for Development, 2017–2018

Capacity building towards digitization of national vegetable databases to address regional and national priorities in food and nutritional security in Eastern Africa

<https://www.gbif.org/project/5YRUprXjGgiq0Qo4GWMMeYG>

See all GBIF projects
[gbif.org/resource/search?contentType=project](https://www.gbif.org/resource/search?contentType=project)