Kenya
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 Kenya. 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 Kenya contributed to 18 peer-reviewed articles citing GBIF use during 2023 and a total of 94 articles since 2008.

▶ Data availability in Kenya
- Animalia: 3,669,765 occurrences
- Plantae: 203,080 occurrences
- Fungi: 16,776 occurrences
- Unknown: 6,934 occurrences
- Protozoa: 4,959 occurrences
- Bacteria: 10,855 occurrences
- Virus: 5,261 occurrences
- Chromista: 4,904 occurrences
- Archaea: 405 occurrences

▶ Data mobilization
Institutions from Kenya published 470,161 new occurrence records during 2023 out of a total of 355,993,458 occurrence records added globally to GBIF.org.
Access and usage

Data downloads on GBIF.org from users in Kenya

Users from Kenya

- Made 514 download requests representing 0.1% of all downloads during 2023

Monthly downloads requested by users in Kenya

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

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 Kenya.

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

Bančič, Odeny, Ojulong et al. (2023) Genomic and phenotypic characterization of finger millet indicates a complex diversification history. *The Plant Genome.*
https://doi.org/10.1002/tpg2.20392

Getaneh, Demissew, Woldu et al. (2023) Predicting the potential geographical distribution of Osyris quadripartita Decn. (Santalaceae) in Ethiopia under climate change scenarios. *Brazilian Journal of Botany.*
https://doi.org/10.1007/s40415-023-00953-1

https://doi.org/10.1002/ece3.10443

Azrag, Mohamed, Ndlela et al. (2023) Invasion risk by fruit trees mealybug Rastrococcus invadens (Williams) (Homoptera: Pseudococcidae) under climate warming. *Frontiers in Ecology and Evolution.*
https://doi.org/10.3389/fevo.2023.1182370

https://doi.org/10.1111/gcb.16914

See all research from this country or area gbif.org/country/KE/publications/from
## Data availability

**Total data available for selected taxonomic groups in Kenya**

<table>
<thead>
<tr>
<th>Taxonomic Group</th>
<th>Total Occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mammals</td>
<td>121,524</td>
</tr>
<tr>
<td>Birds</td>
<td>3,212,670</td>
</tr>
<tr>
<td>Bony fish</td>
<td>23,074</td>
</tr>
<tr>
<td>Amphibians</td>
<td>17,361</td>
</tr>
<tr>
<td>Insects</td>
<td>217,916</td>
</tr>
<tr>
<td>Reptiles</td>
<td>23,409</td>
</tr>
<tr>
<td>Molluscs</td>
<td>13,167</td>
</tr>
<tr>
<td>Arachnids</td>
<td>9,239</td>
</tr>
<tr>
<td>Flowering plants</td>
<td>185,336</td>
</tr>
<tr>
<td>Ferns</td>
<td>5,912</td>
</tr>
<tr>
<td>Gymnosperms</td>
<td>652</td>
</tr>
<tr>
<td>Mosses</td>
<td>2,663</td>
</tr>
<tr>
<td>Sac fungi</td>
<td>13,186</td>
</tr>
<tr>
<td>Basidiomycota</td>
<td>2,904</td>
</tr>
</tbody>
</table>

**change over time in records about biodiversity in Kenya**

**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 Kenya

Geospatial distribution data of Sub-Saharan edible Saturnids (Lepidoptera: Saturniidae) in the National Museums of Kenya. *Published by National Museums of Kenya*
https://doi.org/10.15468/3yv5kh

Occurrence of invertebrates from all over Africa in natural history museum collection in Nairobi, Kenya. *Published by National Museums of Kenya*
https://doi.org/10.15468/pugvhn

Fish species occurrences in the rivers of the Lake Victoria Basin Kenya, digitized from the Ichthyology specimen collection at the National Museums of Kenya. *Published by National Museums of Kenya*
https://doi.org/10.15468/wvj4zx

https://doi.org/10.15468/fwfs73

Occurrence of Acraea Butterflies in Africa, 1892-2022. *Published by A Rocha Kenya*
https://doi.org/10.15468/48qe24

Occurrence of Butterflies in Eastern and Central Uganda, 1932-2021. *Published by A Rocha Kenya*
https://doi.org/10.15468/648pyd

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

Newest publishers from Kenya

Kenya Marine and Fisheries research Institute

Strathmore University

A Rocha Kenya

Kenya Wildlife Service

National Museums of Kenya

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

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

Number of occurrence records downloaded via GBIF.org published by institutions in Kenya
Data mobilization

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

![Chart showing data sharing over time](chart.png)

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

**Top data contributors about biodiversity in Kenya**

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country or area</th>
<th>No. of occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Kenya</td>
<td>2,431,285</td>
</tr>
<tr>
<td>2</td>
<td>South Africa</td>
<td>758,374</td>
</tr>
<tr>
<td>3</td>
<td>United States of America</td>
<td>316,474</td>
</tr>
<tr>
<td>4</td>
<td>United Kingdom</td>
<td>79,827</td>
</tr>
<tr>
<td>5</td>
<td>Netherlands</td>
<td>73,326</td>
</tr>
<tr>
<td>6</td>
<td>International organization or unknown country</td>
<td>64,707</td>
</tr>
<tr>
<td>7</td>
<td>Belgium</td>
<td>38,118</td>
</tr>
<tr>
<td>8</td>
<td>Germany</td>
<td>31,428</td>
</tr>
<tr>
<td>9</td>
<td>Norway</td>
<td>14,546</td>
</tr>
<tr>
<td>10</td>
<td>Estonia</td>
<td>14,001</td>
</tr>
</tbody>
</table>

*Table 1. Ranking of countries or areas contributing data about Kenya*

**Top datasets contributing data about Kenya**

- EOD – eBird Observation Dataset. 2,060,755 occurrences in Kenya. (Last updated 20 Aug 2023)
- Kenya Bird Map (Full protocol and Adhoc records). 725,099 occurrences in Kenya. (Last updated 26 Dec 2023)
- iNaturalist Research-grade Observations. 87,244 occurrences in Kenya. (Last updated 2 Jan 2024)
- International Barcode of Life project (iBOL). 48,799 occurrences in Kenya. (Last updated 2 Jan 2024)

See all contributing countries and areas or datasets: [gbif.org/country/KE/about](gbif.org/country/KE/about)
Kenya participates in the following projects coordinated by GBIF

Enhancing capacity of GBIF South Sudan
*Capacity Enhancement Support Programme, 2021–2023*
https://www.gbif.org/project/CESP2021-009

GBIF Africa Nodes data mobilization, ecological niche modelling and data paper training and mentorship
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

Capacity development for mobilization and use of biodiversity data on endangered bird species in Kenya
*BID: Biodiversity Information for Development, 2021–2023*
https://www.gbif.org/project/BID-AF2020-014-NAC

Raising the profile of data for the conservation of four forested African landscapes
*BID: Biodiversity Information for Development, 2021–2023*
https://www.gbif.org/project/BID-AF2020-140-REG

Prioritizing conservation management in an East African forest landscape
*BID: Biodiversity Information for Development, 2017–2019*
A Rocha Kenya, the National Museum of Kenya (NMK), Kenya Wildlife Service (KWS), Animal Demography Unit of University of Cape Town (ADU), and the Arabuko-Sokoke Forest Guides Association (ASFGA) will access, assess, digitize, engage and improve the data for birds, mammals, invertebrates, reptiles and higher plants in order to inform the management of important, unique and threatened forest ecosystem.
https://www.gbif.org/project/7EOzw96rgAoSKKUgYaoaCe

Mobilizing data on freshwater snails in Kenya
*BID: Biodiversity Information for Development, 2016–2017*
This project is mining and will publish records of freshwater snails from existing voucher collections of the National Museums of Kenya and other research institutions.
https://www.gbif.org/project/82725

Mobilizing biodiversity information from the Kenya Wildlife Service
*BID: Biodiversity Information for Development, 2016–2018*
This project organizes biodiversity data collected in Kenya’s protected areas since the 1950’s.
https://www.gbif.org/project/82706

Kenya’s other carnivores: harnessing biodiversity data for conservation
*BID: Biodiversity Information for Development, 2016–2017*
This project mobilizes existing biodiversity data for 31 species of Kenya’s small carnivores to develop a national strategy for their conservation.
https://www.gbif.org/project/82779