Ghana

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 Ghana. 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 Ghana contributed to 4 peer-reviewed articles citing GBIF use during 2023 and a total of 20 articles since 2008.

▶ Data availability in Ghana

<table>
<thead>
<tr>
<th>Kingdom</th>
<th>Occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animalia</td>
<td>618,657</td>
</tr>
<tr>
<td>Plantae</td>
<td>174,222</td>
</tr>
<tr>
<td>Fungi</td>
<td>9,426</td>
</tr>
<tr>
<td>Unknown</td>
<td>1,860</td>
</tr>
<tr>
<td>Protozoa</td>
<td>80</td>
</tr>
<tr>
<td>Bacteria</td>
<td>1,130</td>
</tr>
<tr>
<td>Virus</td>
<td>1,627</td>
</tr>
<tr>
<td>Chromista</td>
<td>16,513</td>
</tr>
<tr>
<td>Archaea</td>
<td>0</td>
</tr>
</tbody>
</table>

▶ Data mobilization

Institutions from Ghana published 110,800 new occurrence records during 2023 out of a total of 355,993,458 occurrence records added globally to GBIF.org.

Number of records published by institutions in Ghana, categorized by kingdom.
Access and usage

Data downloads on GBIF.org from users in Ghana

Users from Ghana made 178 download requests representing 0.0% of all downloads during 2023.

Monthly downloads requested by users in Ghana

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

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 Ghana.

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

https://doi.org/10.1007/s40808-023-01856-6

Dueker, Willows-Munro, Perrin et al. (2023) Conservation status and threats to lovebirds: knowledge gaps and research priorities. Ostrich.
https://doi.org/10.2989/00306525.2023.2206674

Souza, Aidoo, Farnezi et al. (2023) Tamarixia radiata global distribution to current and future climate using the climate change experiment (CLIMEX) model. Scientific Reports.
https://doi.org/10.1038/s41598-023-29064-3

https://doi.org/10.1016/j.scitotenv.2022.160962

https://doi.org/10.3390/plants11141840

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

Total data available for selected taxonomic groups in Ghana

- **Mammals**: 16,932 occurrences
- **Birds**: 497,257 occurrences
- **Bony fish**: 28,154 occurrences
- **Amphibians**: 7,793 occurrences
- **Insects**: 41,155 occurrences
- **Reptiles**: 7,673 occurrences
- **Molluscs**: 3,456 occurrences
- **Arachnids**: 1,459 occurrences
- **Flowering plants**: 163,683 occurrences
- **Ferns**: 5,397 occurrences
- **Gymnosperms**: 119 occurrences
- **Mosses**: 763 occurrences
- **Sac fungi**: 5,214 occurrences
- **Basidiomycota**: 2,645 occurrences

**Change over time in records about biodiversity in Ghana**

**Species occurrence records accessible through GBIF over time**

**Number of species having occurrence records accessible through GBIF over time**

**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 Ghana

A checklist of Trees in Atewa Range Forest Reserve, Ghana. Published by A Rocha Ghana
https://doi.org/10.15468/us72da

A checklist of Butterflies in Atewa Range Forest Reserve, Eastern Region, Ghana. Published by A Rocha Ghana
https://doi.org/10.15468/38ws89

A checklist of Wild Mushrooms of the Atewa Range Forest Reserve, Eastern Region, Ghana.
Published by A Rocha Ghana
https://doi.org/10.15468/4hcd6v

A checklist of Wild Mushrooms of the Bia Conservation Area, Western North Region, Ghana.
Published by A Rocha Ghana
https://doi.org/10.15468/f6w5pc

Checklist of Birds in Atewa Range Forest Reserve Ghana. Published by A Rocha Ghana
https://doi.org/10.15468/277p7d

A checklist of mushrooms from Agumatsa, Ghana. Published by A Rocha Ghana
https://doi.org/10.15468/sayep2

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

Newest publishers from Ghana

Department of Animal Biology and Conservation Sciences, University of Ghana

Conservation Alliance International

A Rocha Ghana

Department of Marine and Fisheries Sciences, University of Ghana

Aburi Botanic Gardens

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

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

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

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

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

Top data contributors about biodiversity in Ghana

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country or area</th>
<th>No. of occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ghana</td>
<td>576,789</td>
</tr>
<tr>
<td>2</td>
<td>Netherlands</td>
<td>58,585</td>
</tr>
<tr>
<td>3</td>
<td>United States of America</td>
<td>55,617</td>
</tr>
<tr>
<td>4</td>
<td>Sweden</td>
<td>29,601</td>
</tr>
<tr>
<td>5</td>
<td>United Kingdom</td>
<td>25,538</td>
</tr>
<tr>
<td>6</td>
<td>Germany</td>
<td>21,280</td>
</tr>
<tr>
<td>7</td>
<td>International organization or unknown country</td>
<td>8,589</td>
</tr>
<tr>
<td>8</td>
<td>Belgium</td>
<td>7,878</td>
</tr>
<tr>
<td>9</td>
<td>Kenya</td>
<td>7,824</td>
</tr>
<tr>
<td>10</td>
<td>Estonia</td>
<td>7,759</td>
</tr>
</tbody>
</table>

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

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

Top datasets contributing data about Ghana

- EOD – eBird Observation Dataset. 442,121 occurrences in Ghana. (Last updated 20 Aug 2023)
- Plants of Ghana. 38,398 occurrences in Ghana. (Last updated 11 Mar 2021)
- Observation.org, Nature data from around the World. 37,761 occurrences in Ghana. (Last updated 12 Dec 2023)
- Medicinal plants and associated plant collections at Ghana Herbarium. 31,997 occurrences in Ghana. (Last updated 11 Mar 2021)
- FishBase Database. 28,586 occurrences in Ghana. (Last updated 23 Mar 2023)
Ghana participates in the following projects coordinated by GBIF

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/imAtw3uVGVprpiYHAxvD

Cross-continental partnership to investigate data mining approaches for impactful data use cases and stories
Capacity Enhancement Support Programme, 2022–2023
https://www.gbif.org/project/CESP2022-005

International workshop on invasive species in the sub-Sahara area
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

Integrating ecosystem and biodiversity data to assist national development planning
BID: Biodiversity Information for Development, 2021–2023
https://www.gbif.org/project/BID-AF2020-029-USE

Increasing data-mobilization capacity to conserve threatened medicinal plants in Ghana
BID: Biodiversity Information for Development, 2017–2019
Project to support digitization and sharing of open data critical to conserving cultural and natural heritage of plants used in traditional medicines
https://www.gbif.org/project/6q1ktYSyo8ku6y4YWGYyA6

Capacity enhancement for the Ghana node of GBIF
BID: Biodiversity Information for Development, 2016–2018
This project develops a strategic plan for the GBIF node in Ghana (GhaBIF) to enhance its capacity as a national biodiversity information institution.
https://www.gbif.org/project/82661

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