United States of America

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 States of America. 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 United States of America contributed to 365 peer-reviewed articles citing GBIF use during 2023 and a total of 2522 articles since 2008.

▶ Data availability in United States of America

- **Animalia**: 904,440,616 occurrences
- **Plantae**: 37,316,842 occurrences
- **Fungi**: 4,707,006 occurrences
- **Unknown**: 1,126,639 occurrences
- **Protozoa**: 341,197 occurrences
- **Bacteria**: 6,150,574 occurrences
- **Virus**: 230,368 occurrences
- **Chromista**: 1,951,225 occurrences
- **Archaea**: 93,178 occurrences

▶ Data mobilization

Institutions from United States of America published 151,004,708 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 United States of America

Users from United States of America made 45,224 download requests representing 7.3% of all downloads during 2023.

Monthly downloads requested by users in United States of America

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

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 States of America.

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

Rivera, Zegarra, Figuerola-Hernández et al. (2023) Contemporary record and photographs of the rarely seen and poorly known Mona Blindsnake, Antillotyphlops monensis (Schmidt, 1926), with comments on its …. *Herpetology Notes.*

https://doi.org/10.3390/land12122115

Feuerborn, Quinlan, Shippee et al. (2023) Variance in heat tolerance in bumble bees correlates with species geographic range and is associated with several environmental and biological factors. *Ecology and Evolution.*
https://doi.org/10.1002/ece3.10730

https://doi.org/10.1111/nph.19351

https://doi.org/10.3390/d15121172

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

Total data available for selected taxonomic groups in United States of America

- **Mammals**: 5,069,364 occurrences
- **Birds**: 841,940,067 occurrences
- **Bony fish**: 18,140,406 occurrences
- **Amphibians**: 2,236,546 occurrences
- **Insects**: 22,043,998 occurrences
- **Reptiles**: 2,667,117 occurrences
- **Molluscs**: 3,888,257 occurrences
- **Arachnids**: 1,338,683 occurrences
- **Flowering plants**: 32,960,590 occurrences
- **Ferns**: 1,090,060 occurrences
- **Gymnosperms**: 778,705 occurrences
- **Mosses**: 1,228,420 occurrences
- **Sac fungi**: 2,087,816 occurrences
- **Basidiomycota**: 2,502,565 occurrences

**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.

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**Change over time in records about biodiversity in United States of America**

![Graphs showing species occurrence records and species counts over time in the United States of America](graph.png)

**Occurrence records available about species occurring in United States of America**

**Species for which at least one occurrence record is available in United States of America**

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**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
Most recent datasets from publishers in United States of America

Ohio State University Spider Collection. *Published by Ohio State University Insect Collection*
https://doi.org/10.15468/yx59vm

AMAPPS Northeast Aerial Cruise Summer 2021. *Published by OBIS-SEAMAP*
https://doi.org/10.15468/864c59

AMAPPS Northeast Shipboard Cruise Summer 2021. *Published by OBIS-SEAMAP*
https://doi.org/10.15468/5fjuke

Happywhale - Burmeister's porpoise in South Atlantic Ocean. *Published by OBIS-SEAMAP*
https://doi.org/10.15468/8eg7gx

Hoyt Arboretum Vascular Plant Herbarium. *Published by Consortium of Pacific Northwest Herbaria*
https://doi.org/10.15468/7hs2bc

Adam Haberski Research Collection. *Published by Clemson University Arthropod Collection*
https://doi.org/10.15468/nwwwz

California Desert Studies Center Mammal Specimens (Arctos). *Published by CSU Desert Studies Center*
https://doi.org/10.15468/ywb2p2

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

Newest publishers from United States of America

Oakland University Herbarium
Volunteer State Community College
Oswego Herbarium, SUNY Oswego
Vermont Agricultural and Environmental Laboratory
Alaska Center for Conservation Science

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

Occurrence records downloaded from GBIF.org, published by institutions in United States of America

Number of occurrence records downloaded via GBIF.org published by institutions in United States of America
Data mobilization

Data sharing with country or area of origin by national institutions in United States of America

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

Top data contributors about biodiversity in United States of America

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country or area</th>
<th>No. of occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>United States of America</td>
<td>942,614,021</td>
</tr>
<tr>
<td>2</td>
<td>United Kingdom</td>
<td>7,852,400</td>
</tr>
<tr>
<td>3</td>
<td>Canada</td>
<td>1,187,659</td>
</tr>
<tr>
<td>4</td>
<td>France</td>
<td>931,907</td>
</tr>
<tr>
<td>5</td>
<td>International organization or unknown country</td>
<td>668,992</td>
</tr>
<tr>
<td>6</td>
<td>Colombia</td>
<td>441,650</td>
</tr>
<tr>
<td>7</td>
<td>Portugal</td>
<td>427,056</td>
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<tr>
<td>8</td>
<td>Estonia</td>
<td>417,713</td>
</tr>
<tr>
<td>9</td>
<td>Netherlands</td>
<td>340,179</td>
</tr>
<tr>
<td>10</td>
<td>Germany</td>
<td>218,395</td>
</tr>
</tbody>
</table>

Table 1. Ranking of countries or areas contributing data about United States of America

Top datasets contributing data about United States of America

- EOD – eBird Observation Dataset. 805,508,316 occurrences in United States of America. (Last updated 20 Aug 2023)
- iNaturalist Research-grade Observations. 34,412,130 occurrences in United States of America. (Last updated 2 Jan 2024)
- Great Backyard Bird Count. 6,789,249 occurrences in United States of America. (Last updated 6 Mar 2018)

See all contributing countries and areas or datasets: gbif.org/country/US/about
United States of America participates in the following projects coordinated by GBIF

Expanding the network: Bringing marine research stations and library collections into the data-sharing community
*Capacity Enhancement Support Programme, 2022–2023*
https://www.gbif.org/project/CESP2022-009

Using invasive species and biodiversity data for decision-making in the Pacific region
*BID: Biodiversity Information for Development, 2021–2023*
https://www.gbif.org/project/BID-PA2020-003-USE

Building capacity at SPREP for data mobilization and use
*BID: Biodiversity Information for Development, 2021–2023*
https://www.gbif.org/project/BID-PA2020-002-INS

Strengthening processes for invasive species and biodiversity data mobilization in the Pacific region
*BID: Biodiversity Information for Development, 2021–2023*
https://www.gbif.org/project/BID-PA2020-004-REG

From shared experiences to shared knowledge and common solutions: collaborating to improve web-based tools in Latin America and the Caribbean
*Capacity Enhancement Support Programme, 2020–2022*
Participating nodes aim to incorporate shared best practices, protocols, tools and future road maps for representing the region’s biodiversity richness and abundance
https://www.gbif.org/project/4YJjFEvYJi5kfuUVzNcfYH

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/ImAtw3uVGVpjrpiYHAxvD

Digitization of specimens at the University of the Philippines Los Baños Museum of Natural History
*BIFA: Biodiversity Information Fund for Asia, 2020–2022*
This project aims to digitize specimen data from four different museum research and teaching collections and share data skills through training
https://www.gbif.org/project/2as3Q2nNvRQhMc30JzAQ6e

Extending tools for improving biodiversity data quality to Spanish-speaking communities
*Capacity Enhancement Support Programme, 2017–2018*
By translating elements of a key tool for making pre-publications improvements to data quality, VertNet and SiB Colombia will fill an important technical gap for the numerous Spanish-speaking staff across the GBIF community.
https://www.gbif.org/project/83348

Workshop on digital documentation: Linking biodiversity data, publications and images
*Capacity Enhancement Support Programme, 2014–2015*
This project will increase the Latin American region’s capacity to digitize and publish biodiversity data from scientific literature, images and other multimedia objects.
https://www.gbif.org/project/82236

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