

generated January 2025

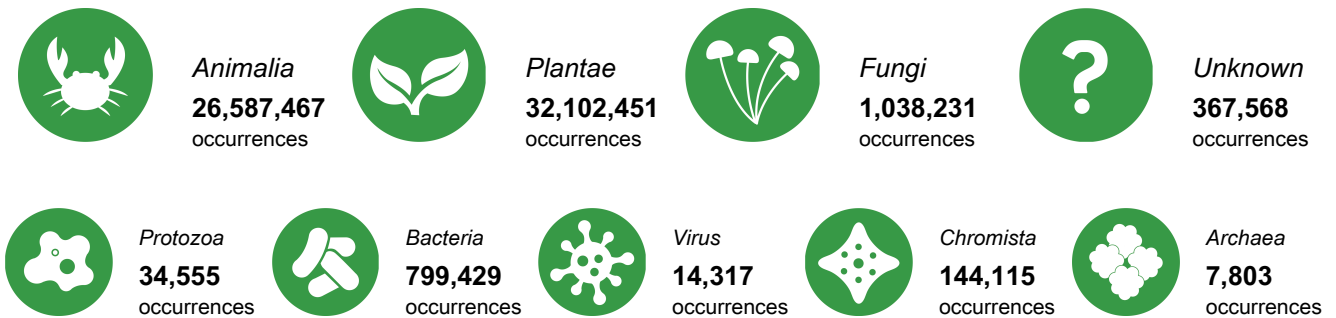
Germany

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 Germany. 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.

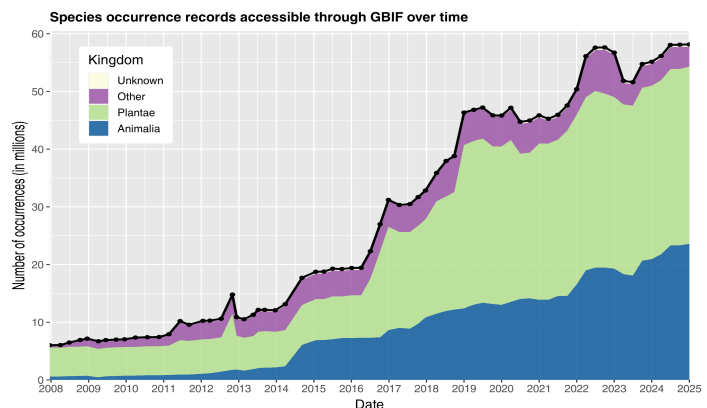
► Access and usage



► Data availability in Germany



► Data mobilization

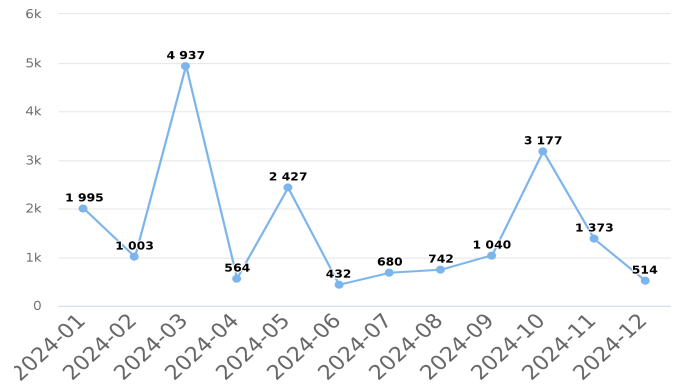


Number of records published by institutions in Germany, categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in Germany



Monthly downloads requested by users in Germany

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

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 Germany.

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

Dogbo, Salako, Agoundé *et al.* (2024) Potential impacts of future climate on twelve key multipurpose tree species in Benin: Insights from species distribution modeling for biodiversity conservation. *Trees, Forests and People*.

<https://doi.org/10.1016/j.tfp.2024.100744>

Alfeus, Irish, Birkhofer. (2024) Recognition and completeness metrics from iNaturalist and GBIF can inform future citizen science and research projects: a case study on arthropods in Namibia. *Biodiversity and Conservation*.

<https://doi.org/10.1007/s10531-024-02981-z>

Chowdhury, Cardillo, Chapman *et al.* (2024) Protected area coverage of the full annual cycle of migratory butterflies. *Conservation Biology*.

<https://doi.org/10.1111/cobi.14423>

Fallert, Li, Cabral. (2024) metaRange: A framework to build mechanistic range models. *Methods in Ecology and Evolution*.

<https://doi.org/10.1111/2041-210x.14461>

Scheiter, Wolf, Kattenborn. (2024) Crowd-sourced trait data can be used to delimit global biomes. *Biogeosciences*.

<https://doi.org/10.5194/bg-21-4909-2024>

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



Data availability

Total data available for selected taxonomic groups in Germany



Mammals
553,936
occurrences



Birds
16,471,271
occurrences



Bony fish
333,235
occurrences



Amphibians
198,793
occurrences



Insects
7,453,229
occurrences



Reptiles
117,670
occurrences



Molluscs
333,947
occurrences



Arachnids
536,919
occurrences



Flowering plants
30,599,384
occurrences



Ferns
624,742
occurrences



Gymnosperms
375,166
occurrences



Mosses
246,019
occurrences



Sac fungi
422,404
occurrences



Basidiomycota
586,982
occurrences

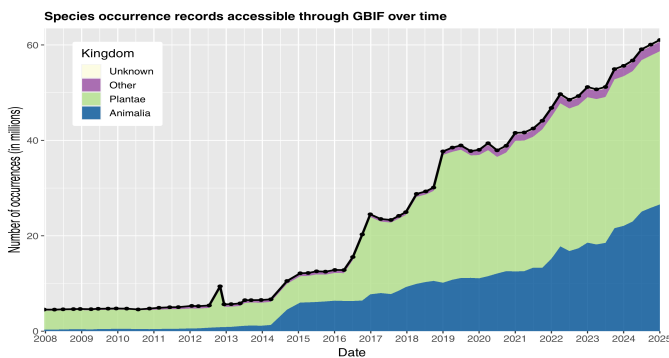
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

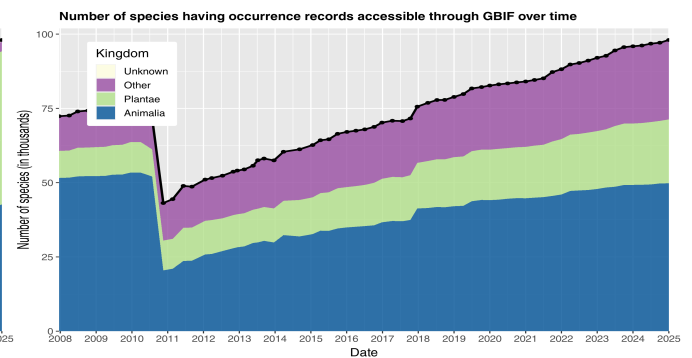
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in Germany



Occurrence records available about species occurring in Germany



Species for which at least one occurrence record is available in Germany

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 Germany

The Bryophyte Collection at the Staatliches Museum für Naturkunde Karlsruhe. *Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns*
<https://doi.org/10.15468/8h2tpd>

The Vascular Plant Collection at the Staatliches Museum für Naturkunde Karlsruhe. *Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns*
<https://doi.org/10.15468/9ysfv4>

Pflanzensoziologische Untersuchungen in der Alpen Stufe Finnisch-Lapplands. *Published by Leibniz Institute for the Analysis of Biodiversity Change (LIB)*
<https://doi.org/10.15468/2zbdqa>

Das Klimax-Gebiet der Buchenwälder in den Westkarpathen. *Published by Leibniz Institute for the Analysis of Biodiversity Change (LIB)*
<https://doi.org/10.15468/ckqa43>

Ein Beitrag zur geobotanischen Durchforschung des Steppengebiets im Böhmisches Mittelgebirge. *Published by Leibniz Institute for the Analysis of Biodiversity Change (LIB)*
<https://doi.org/10.15468/2xn3qb>

Die Pflanzengesellschaften des westsächsischen Berg- und Hügellandes (Flußgebiet der Freiburger und Zwickauer Mulde) 1. Teil Die Gesellschaft des nackten Teichschlammes (*Eleocharetum ovatae*). *Published by Leibniz Institute for the Analysis of Biodiversity Change (LIB)*
<https://doi.org/10.15468/e2jaks>

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

Newest publishers from Germany

Bayerisches Hauptstaatsarchiv

Local Cosmos Community

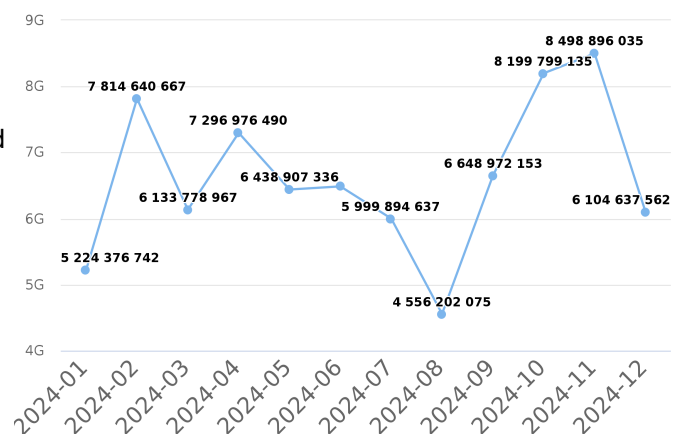
ArtenFinder bei der Stiftung Natur und Umwelt RLP und der Stiftung Naturschutz Berlin

Rote-Liste-Zentrum

Botanischer Garten, TU Dresden

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

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

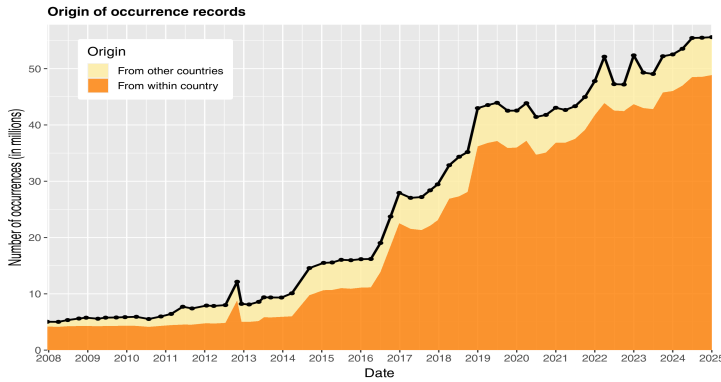


Number of occurrence records downloaded via GBIF.org published by institutions in Germany



Data mobilization

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



Data sharing with country or area of origin



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

Top data contributors about biodiversity in Germany

Rank	Country or area	No. of occurrences
1	Germany	48,908,324
2	Netherlands	4,712,437
3	United States of America	2,732,535
4	France	1,855,088
5	United Kingdom	1,045,502
6	Belgium	552,746
7	International organization or unknown country	308,339
8	Switzerland	208,591
9	Austria	122,791
10	Estonia	118,494

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

Top datasets contributing data about Germany

naturgucker. 13,185,070 occurrences in Germany. (Last updated 20 Dec 2024)

Flora von Deutschland (Phanerogamen). 9,283,055 occurrences in Germany. (Last updated 9 Aug 2021)

Floristic records from survey studies of the Bayerisches Landesamt für Umwelt. 7,549,012 occurrences in Germany. (Last updated 20 Dec 2024)

Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria. 7,211,693 occurrences in Germany. (Last updated 16 Mar 2021)

EOD – eBird Observation Dataset. 5,342,168 occurrences in Germany. (Last updated 27 Sep 2024)

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



Germany participates in the following projects coordinated by GBIF

International Living Atlases workshop

Capacity Enhancement Support Programme, 2017–2018

This project will support and strengthen the growing international community of practice around open-source software developed by the Atlas of Living Australia.

<https://www.gbif.org/project/83337>

European training hackathon on species checklists using GBIF data

Capacity Enhancement Support Programme, 2014–2015

This regional collaboration supports a hackathon for European nodes, aiming to enhance their capacity to produce national checklists.

<https://www.gbif.org/project/82221>

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