

generated January 2025

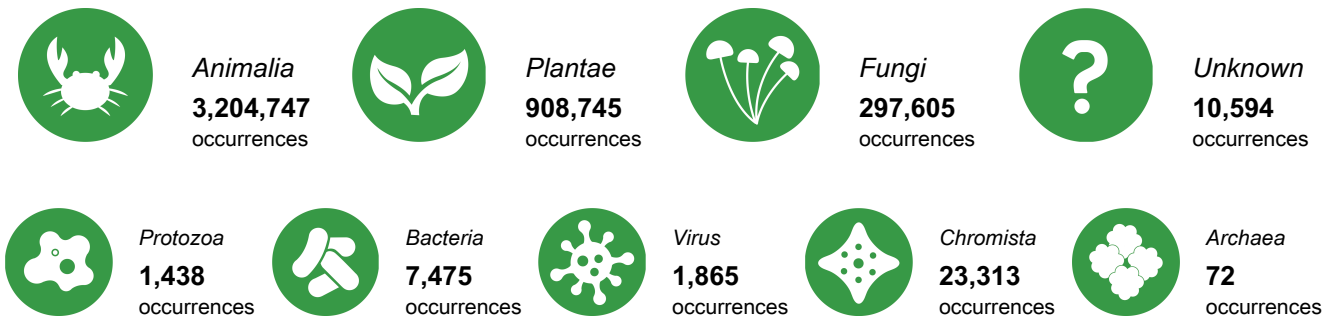
Czechia

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 Czechia. 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.

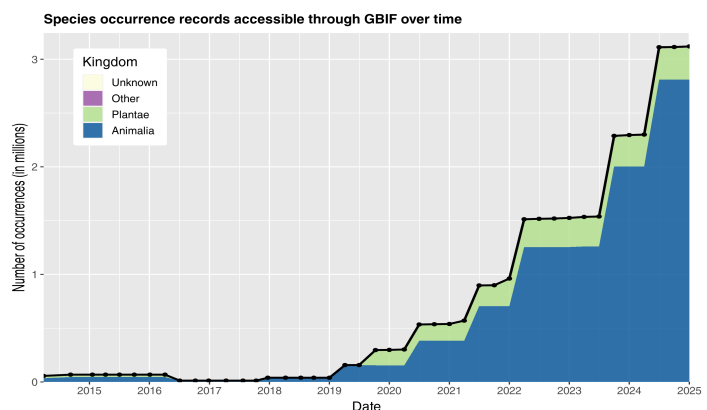
► Access and usage



► Data availability in Czechia



► Data mobilization

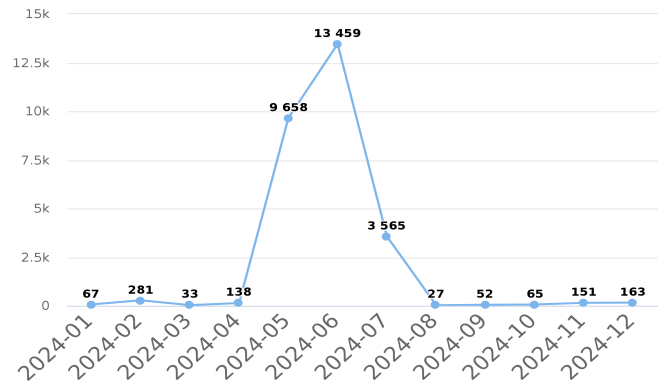
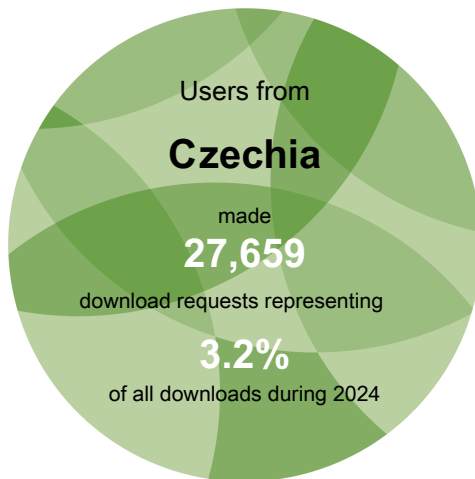


Number of records published by institutions in Czechia, categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in Czechia



Monthly downloads requested by users in Czechia

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

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 Czechia.

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

Petrenko, Dzizyurova, Altman *et al.* (2024) Changes in Distribution Ranges of Abies Species Dominating in the Forests of Northeast Asia Since the Last Glacial Maximum. *Journal of Biogeography*.
<https://doi.org/10.1111/jbi.15057>

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>

Plášek, Číhal, Müller *et al.* (2024) Newly found and rediscovered hornworts (Anthocerotophyta) in Poland: Indicators of climate change impact in Central Europe. *PhytoKeys*.
<https://doi.org/10.3897/phytokeys.248.134729>

ANDREYENKOVA, HONG, LIN *et al.* (2024) Genetic relationships of populations of the Black Kite *Milvus migrans* (Accipitriformes: Accipitridae) in the east of its range in Asia and Australia. *Zootaxa*.
<https://doi.org/10.11646/zootaxa.5523.1.5>

Nečas, Mazuch, Czurda *et al.* (2024) Evolutionary relationships in the African frog family Ptychadenidae, including the first molecular analysis, range extension, and distribution modelling of the monotypic genus *Lanzarana*. *African Journal of Herpetology*.
<https://doi.org/10.1080/21564574.2024.2404860>

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



Data availability

Total data available for selected taxonomic groups in Czechia



Mammals
8,425
occurrences



Birds
2,892,537
occurrences



Bony fish
3,369
occurrences



Amphibians
5,784
occurrences



Insects
203,378
occurrences



Reptiles
5,358
occurrences



Molluscs
32,494
occurrences



Arachnids
12,885
occurrences



Flowering plants
852,391
occurrences



Ferns
10,663
occurrences



Gymnosperms
8,045
occurrences



Mosses
22,696
occurrences



Sac fungi
123,797
occurrences



Basidiomycota
118,717
occurrences

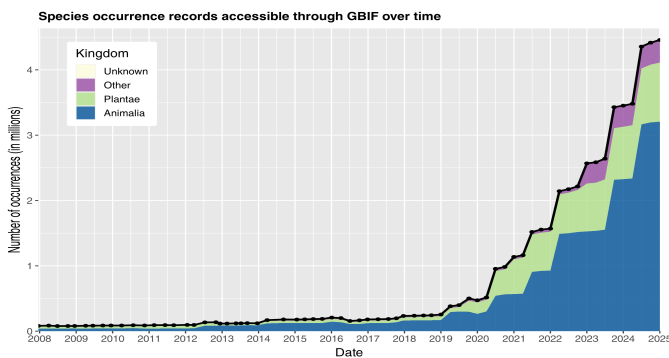
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

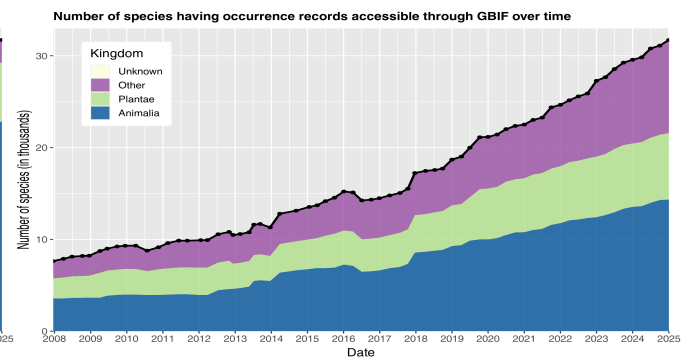
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in Czechia



Occurrence records available about species occurring in Czechia



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

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 Czechia

Arachnids of Giant Mountains National Park. *Published by Masaryk University, Department of Botany and Zoology*

<https://doi.org/10.15468/8r6dbk>

Global occurrence records of Robinia specialist insect herbivores. *Published by Czech University of Life Sciences Prague, Department of Forest Protection and Entomology*

<https://doi.org/10.15468/zt8g2r>

Charles University Prague - Herbarium PRC. *Published by Charles University - Herbarium collections & Department of Botany*

<https://doi.org/10.15468/8xrt7r>

Masaryk University - Herbarium BRNU. *Published by Masaryk University, Department of Botany and Zoology*

<https://doi.org/10.15468/soarvd>

Literary descriptions of Iranian lizards. *Published by National Museum in Prague*

<https://doi.org/10.15468/zxeyzt>

Botanical collection of the National Museum. *Published by National Museum in Prague*

<https://doi.org/10.15468/4xcs48>

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

Newest publishers from Czechia

Czech University of Life Sciences Prague, Department of Forest Protection and Entomology

Charles University - Herbarium collections & Department of Botany

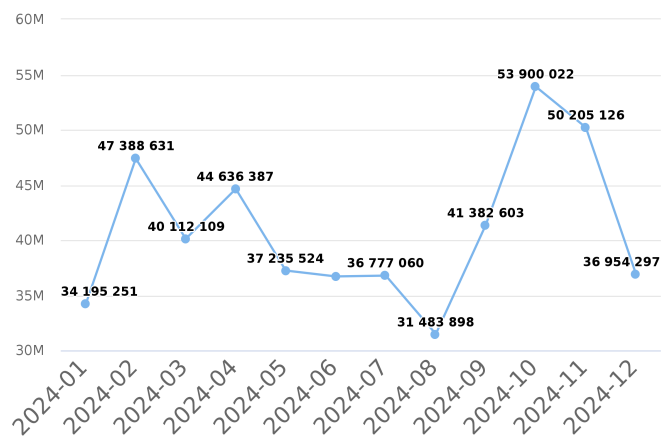
Masaryk University, Department of Botany and Zoology

National Museum in Prague

Crop Research Institute (CRI)

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

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

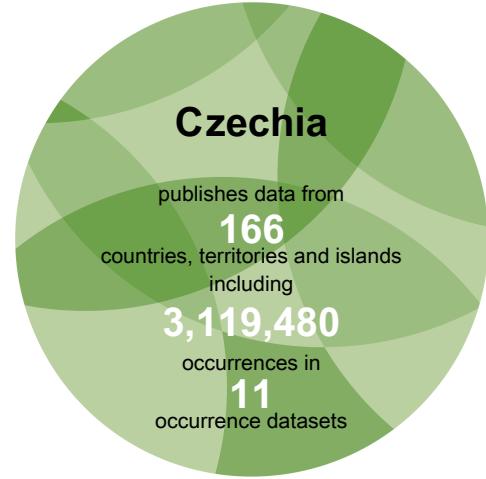
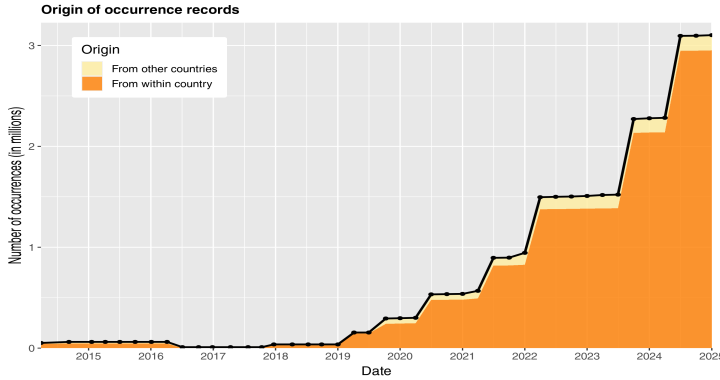


Number of occurrence records downloaded via GBIF.org published by institutions in Czechia



Data mobilization

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



Data sharing with country or area of origin

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

Top data contributors about biodiversity in Czechia

Rank	Country or area	No. of occurrences
1	Czechia	2,952,024
2	United States of America	551,958
3	France	406,912
4	Estonia	270,184
5	Netherlands	50,793
6	Germany	47,590
7	Austria	32,894
8	United Kingdom	32,738
9	Sweden	20,371
10	International organization or unknown country	17,615

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

Top datasets contributing data about Czechia

- EOD – eBird Observation Dataset. 2,792,375 occurrences in Czechia. (Last updated 27 Sep 2024)
- iNaturalist Research-grade Observations. 466,962 occurrences in Czechia. (Last updated 30 Dec 2024)
- PI@ntNet automatically identified occurrences. 362,637 occurrences in Czechia. (Last updated 8 Feb 2023)
- Global soil organisms. 260,204 occurrences in Czechia. (Last updated 27 Feb 2023)
- Masaryk University - Herbarium BRNU. 129,732 occurrences in Czechia. (Last updated 4 Sep 2019)

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