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

Researchers from Czechia contributed to 54 peer-reviewed articles citing GBIF use during 2023 and a total of 205 articles since 2008.

▶ Data availability in Czechia

<table>
<thead>
<tr>
<th>Kingdom</th>
<th>Occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animalia</td>
<td>2,320,513</td>
</tr>
<tr>
<td>Plantae</td>
<td>805,131</td>
</tr>
<tr>
<td>Fungi</td>
<td>278,578</td>
</tr>
<tr>
<td>Unknown</td>
<td>10,837</td>
</tr>
<tr>
<td>Protozoa</td>
<td>805</td>
</tr>
<tr>
<td>Bacteria</td>
<td>7,418</td>
</tr>
<tr>
<td>Virus</td>
<td>1,866</td>
</tr>
<tr>
<td>Chromista</td>
<td>22,726</td>
</tr>
<tr>
<td>Archaea</td>
<td>72</td>
</tr>
</tbody>
</table>

▶ Data mobilization

Institutions from Czechia published 770,231 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 Czechia

Users from Czechia made 750 download requests representing 0.1% of all downloads during 2023.

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.

https://doi.org/10.1371/journal.pntd.0010855

https://doi.org/10.1111/tpj.16559

https://doi.org/10.1079/9781800622197.0009

https://doi.org/10.1093/zoolinnean/zlad158

Dong, Yang, Kinlock et al. (2023) Naturalization of introduced plants is driven by life-form-dependent cultivation biases. *Diversity and Distributions.*
https://doi.org/10.1111/ddi.13788

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**: 6,676 occurrences
- **Birds**: 2,071,256 occurrences
- **Bony fish**: 3,124 occurrences
- **Amphibians**: 3,757 occurrences
- **Insects**: 152,289 occurrences
- **Reptiles**: 3,726 occurrences
- **Molluscs**: 30,140 occurrences
- **Arachnids**: 10,230 occurrences
- **Flowering plants**: 757,511 occurrences
- **Ferns**: 8,126 occurrences
- **Gymnosperms**: 7,188 occurrences
- **Mosses**: 19,484 occurrences
- **Sac fungi**: 115,764 occurrences
- **Basidiomycota**: 107,825 occurrences

Mammals = Class Mammalia
Birds = Class Aves
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

Mosses = Phylum Bryophyta
Sac fungi = Phylum Ascomycota
Basidiomycota = Phylum Basidiomycota

Change over time in records about biodiversity in Czechia

Species occurrence records accessible through GBIF over time

Number of species having occurrence records accessible through GBIF over time

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)

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

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

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

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

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

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country or area</th>
<th>No. of occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Czechia</td>
<td>2,138,312</td>
</tr>
<tr>
<td>2</td>
<td>France</td>
<td>406,833</td>
</tr>
<tr>
<td>3</td>
<td>United States of America</td>
<td>403,707</td>
</tr>
<tr>
<td>4</td>
<td>Estonia</td>
<td>269,884</td>
</tr>
<tr>
<td>5</td>
<td>Germany</td>
<td>44,593</td>
</tr>
<tr>
<td>6</td>
<td>Netherlands</td>
<td>43,067</td>
</tr>
<tr>
<td>7</td>
<td>Austria</td>
<td>27,761</td>
</tr>
<tr>
<td>8</td>
<td>United Kingdom</td>
<td>27,688</td>
</tr>
<tr>
<td>9</td>
<td>International organization or unknown country</td>
<td>16,045</td>
</tr>
<tr>
<td>10</td>
<td>Sweden</td>
<td>12,308</td>
</tr>
</tbody>
</table>

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

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

### Top datasets contributing data about Czechia

- **EOD – eBird Observation Dataset. 1,986,597 occurrences in Czechia.** (Last updated 20 Aug 2023)

- **Pl@ntNet automatically identified occurrences. 362,637 occurrences in Czechia.** (Last updated 8 Feb 2023)

- **iNaturalist Research-grade Observations. 322,355 occurrences in Czechia.** (Last updated 2 Jan 2024)

- **Global soil organisms. 260,204 occurrences in Czechia.** (Last updated 27 Feb 2023)

- **Masaryk University - Herbarium BRNU. 126,742 occurrences in Czechia.** (Last updated 4 Sep 2019)