Switzerland

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 Switzerland. 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 Switzerland contributed to 50 peer-reviewed articles citing GBIF use during 2023 and a total of 361 articles since 2008.

▶ Data availability in Switzerland

- Animalia: 8,713,778 occurrences
- Plantae: 12,137,167 occurrences
- Fungi: 961,284 occurrences
- Unknown: 13,100 occurrences
- Protozoa: 7,805 occurrences
- Bacteria: 532,141 occurrences
- Virus: 7,695 occurrences
- Chromista: 5,208 occurrences
- Archaea: 4,270 occurrences

▶ Data mobilization

Institutions from Switzerland published 3,242,217 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 Switzerland

Users from Switzerland made 5,345 download requests representing 0.9% of all downloads during 2023.

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

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 Switzerland.

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


Rashid, Wessely, Moser et al. (2023) Threatened European butterflies concentrate in areas of strong climatic change and atmospheric deposition pressure. Biological Conservation. https://doi.org/10.1016/j.biocon.2023.110352


Qian, Kessler, Zhang et al. (2023) Angiosperm phylogenetic diversity is lower in Africa than South America. Science Advances. https://doi.org/10.1126/sciadv.adj1022

McClay, Bourchier, Landry et al. (2023) Citizen science reveals the establishment of Chamaesphacia empiformis (Esper) (Lepidoptera: Sesiiidae), a long-lost biological control agent for Euphorbia cyparissias (Euphorbiaceae), in Ontario, Canada. The Canadian Entomologist. https://doi.org/10.4039/tce.2023.17

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

Total data available for selected taxonomic groups in Switzerland

- **Mammals**: 713,413 occurrences
- **Birds**: 1,479,590 occurrences
- **Bony fish**: 63,437 occurrences
- **Amphibians**: 379,476 occurrences
- **Insects**: 5,466,015 occurrences
- **Reptiles**: 59,634 occurrences
- **Molluscs**: 262,013 occurrences
- **Arachnids**: 248,128 occurrences
- **Flowering plants**: 11,282,229 occurrences
- **Ferns**: 296,383 occurrences
- **Gymnosperms**: 174,085 occurrences
- **Mosses**: 282,793 occurrences
- **Sac fungi**: 251,551 occurrences
- **Basidiomycota**: 707,131 occurrences

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.

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.

Change over time in records about biodiversity in Switzerland

Occurrences records available about species occurring in Switzerland

Species for which at least one occurrence record is available in Switzerland
Most recent datasets from publishers in Switzerland

Another remarkable new species of Dictyanthus (Apocynaceae, Asclepiadoideae, Asclepiadeae, Gonolobinae) with a long stylar head from Mexico. Published by Plazi.org taxonomic treatments database
https://doi.org/10.15468/utegwk

Xenoacremonium palmarum sp. nov., a novel species associated with Phoenix dactylifera in Iran. Published by Plazi.org taxonomic treatments database
https://doi.org/10.15468/eg6nxz

Parasitoid wasps (Ichneumonoidea) collected from faba bean fields, Kharga Oasis, New Valley, Egypt, with new records and the description of a new species. Published by Plazi.org taxonomic treatments database
https://doi.org/10.15468/na3zp8

Molecular delimitation of the seasonal killifishes of the Hypsolebias antenori species group (Cyprinodontiformes, Rivulidae), with description of two new species from the Caatinga coastal basins, northeastern Brazil. Published by Plazi.org taxonomic treatments database
https://doi.org/10.15468/ymnae4

New species and records of Scaphidiinae (Coleoptera: Staphylinidae) from mainland China and Taiwan. Published by Plazi.org taxonomic treatments database
https://doi.org/10.15468/msfx9e

Newest publishers from Switzerland

Muséum d’histoire naturelle de Neuchâtel – MHNN
Bündner Naturmuseum, Chur - BNM
Swiss National Biodiversity Data and Information Centres – infospecies.ch
Naturhistorisches Museum Bern - NMBE
Naturhistorisches Museum Basel - NMB

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country or area</th>
<th>No. of occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Switzerland</td>
<td>20,209,542</td>
</tr>
<tr>
<td>2</td>
<td>France</td>
<td>587,918</td>
</tr>
<tr>
<td>3</td>
<td>United Kingdom</td>
<td>578,488</td>
</tr>
<tr>
<td>4</td>
<td>United States of America</td>
<td>357,641</td>
</tr>
<tr>
<td>5</td>
<td>Netherlands</td>
<td>335,112</td>
</tr>
<tr>
<td>6</td>
<td>Germany</td>
<td>90,938</td>
</tr>
<tr>
<td>7</td>
<td>Belgium</td>
<td>45,823</td>
</tr>
<tr>
<td>8</td>
<td>International organization or unknown country</td>
<td>28,484</td>
</tr>
<tr>
<td>9</td>
<td>Sweden</td>
<td>27,410</td>
</tr>
<tr>
<td>10</td>
<td>Colombia</td>
<td>20,199</td>
</tr>
</tbody>
</table>

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

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