Activity report

Croatia

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 Croatia. 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 Croatia contributed to 4 peer-reviewed articles citing GBIF use during 2023 and a total of 21 articles since 2008.

▶ Data availability in Croatia

- Animalia: 645,791 occurrences
- Plantae: 171,918 occurrences
- Fungi: 14,179 occurrences
- Unknown: 3,506 occurrences
- Protozoa: 990 occurrences
- Bacteria: 10,131 occurrences
- Virus: 1,164 occurrences
- Chromista: 8,946 occurrences
- Archaea: 72 occurrences

▶ Data mobilization

Institutions from Croatia published 90,308 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 Croatia

![Graph showing monthly downloads requested by users in Croatia]

Users from Croatia made 91 download requests representing 0.0% of all downloads during 2023.

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

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 Croatia.

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/10.1080/11263504.2023.2287549

Koller Šarić, Lauš, Burić et al. (2023) The current distribution and status of the Hermann’s tortoise, Testudo hermanni boettgeri (Reptilia, Testudines, Testudinidae) in Croatia. *Herpetozoa.*

https://doi.org/10.3897/herpetozoa.36.e103510

Sánchez-Campaña, Murría, Hermoso et al. (2023) Anticipating where are unknown aquatic insects in Europe to improve biodiversity conservation. *Diversity and Distributions.*

https://doi.org/10.1111/ddi.13714

Anđelić Dmitrović, Ivanković Tatalović, Kos et al. (2023) Mediterranean vineyards and olive groves in Croatia harbour some rare and endemic invertebrates. *Biodiversity Data Journal.*

https://doi.org/10.3897/bdj.11.e100963

Cavraro, Monti, Matić-Skoko et al. (2022) Vulnerability of the Small-Scale Fishery to Climate Changes in the Northern-Central Adriatic Sea (Mediterranean Sea). *Fishes.*

https://doi.org/10.3390/fishes8010009

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

Total data available for selected taxonomic groups in Croatia

<table>
<thead>
<tr>
<th>Taxonomic Group</th>
<th>Number of Occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mammals</td>
<td>8,509</td>
</tr>
<tr>
<td>Birds</td>
<td>435,175</td>
</tr>
<tr>
<td>Bony fish</td>
<td>38,324</td>
</tr>
<tr>
<td>Amphibians</td>
<td>2,968</td>
</tr>
<tr>
<td>Insects</td>
<td>83,272</td>
</tr>
<tr>
<td>Reptiles</td>
<td>11,416</td>
</tr>
<tr>
<td>Molluscs</td>
<td>30,419</td>
</tr>
<tr>
<td>Arachnids</td>
<td>6,946</td>
</tr>
<tr>
<td>Flowering plants</td>
<td>159,859</td>
</tr>
<tr>
<td>Ferns</td>
<td>2,779</td>
</tr>
<tr>
<td>Gymnosperms</td>
<td>2,449</td>
</tr>
<tr>
<td>Mosses</td>
<td>944</td>
</tr>
<tr>
<td>Sac fungi</td>
<td>7,721</td>
</tr>
<tr>
<td>Basidiomycota</td>
<td>5,979</td>
</tr>
</tbody>
</table>

Mammals = Class Mammalia  
Birds = Class Aves  
Amphibians = Class Amphibia

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

Arachnids = Class Arachnida  
Ferns = Phylum Pteridophyta  
Mosses = Phylum Bryophyta  
Sac fungi = Phylum Ascomycota  
Basidiomycota = Phylum Basidiomycota

Change over time in records about biodiversity in Croatia

Species occurrence records accessible through GBIF over time

Number of species having occurrence records accessible through GBIF over time

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 Croatia

Meditera3. Published by University of Zagreb Faculty of Science
https://doi.org/10.15468/5jkd4t

CIM Specimens. Published by Institut Ruđer Bošković, Center for Marine Research
https://doi.org/10.15468/o62a8e

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

Newest publishers from Croatia

University of Zagreb Faculty of Science
Institut Ruđer Bošković, Center for Marine Research

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

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

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

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

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

Top data contributors about biodiversity in Croatia

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country or area</th>
<th>No. of occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Croatia</td>
<td>307,756</td>
</tr>
<tr>
<td>2</td>
<td>Netherlands</td>
<td>153,638</td>
</tr>
<tr>
<td>3</td>
<td>United States of America</td>
<td>132,672</td>
</tr>
<tr>
<td>4</td>
<td>France</td>
<td>59,010</td>
</tr>
<tr>
<td>5</td>
<td>Belgium</td>
<td>42,200</td>
</tr>
<tr>
<td>6</td>
<td>Germany</td>
<td>37,501</td>
</tr>
<tr>
<td>7</td>
<td>United Kingdom</td>
<td>31,802</td>
</tr>
<tr>
<td>8</td>
<td>Austria</td>
<td>23,218</td>
</tr>
<tr>
<td>9</td>
<td>Estonia</td>
<td>20,044</td>
</tr>
<tr>
<td>10</td>
<td>International organization or unknown country</td>
<td>9,672</td>
</tr>
</tbody>
</table>

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

Top datasets contributing data about Croatia

- EOD – eBird Observation Dataset. 307,211 occurrences in Croatia. (Last updated 20 Aug 2023)
- iNaturalist Research-grade Observations. 117,433 occurrences in Croatia. (Last updated 2 Jan 2024)
- Observation.org, Nature data from around the World. 117,369 occurrences in Croatia. (Last updated 12 Dec 2023)
- PI@ntNet automatically identified occurrences. 51,225 occurrences in Croatia. (Last updated 8 Feb 2023)
- EBCC Atlas of European Breeding Birds. 18,029 occurrences in Croatia. (Last updated 8 Sep 2017)

See all contributing countries and areas or datasets: gbif.org/country/HR/about
Croatia participates in the following projects coordinated by GBIF

CroMent
_Capacity Enhancement Support Programme, 2023–2024_
[https://www.gbif.org/project/CESP2023-006](https://www.gbif.org/project/CESP2023-006)

See all GBIF projects
[gbif.org/resource/search?content_type=project](gbif.org/resource/search?content_type=project)