

generated January 2026

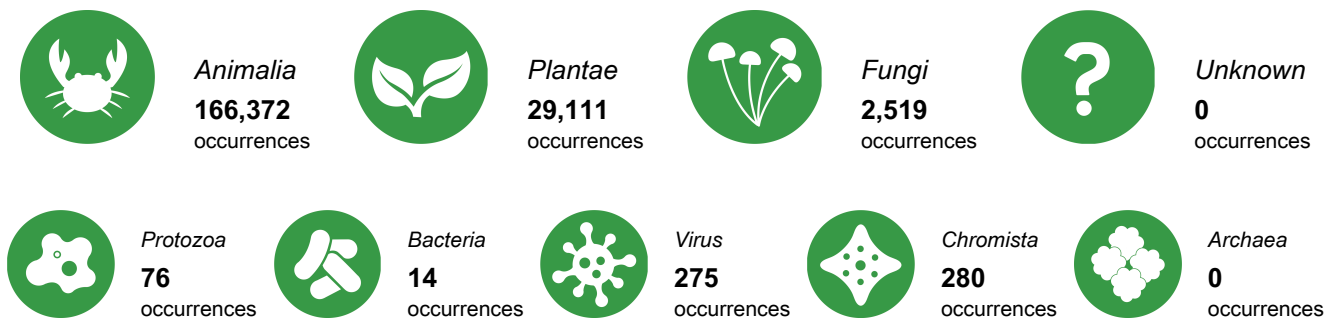
North Macedonia

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 North Macedonia. 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.

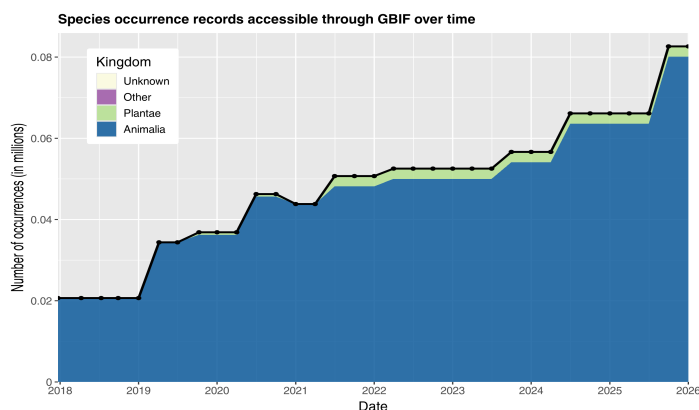
► Access and usage



► Data availability in North Macedonia



► Data mobilization

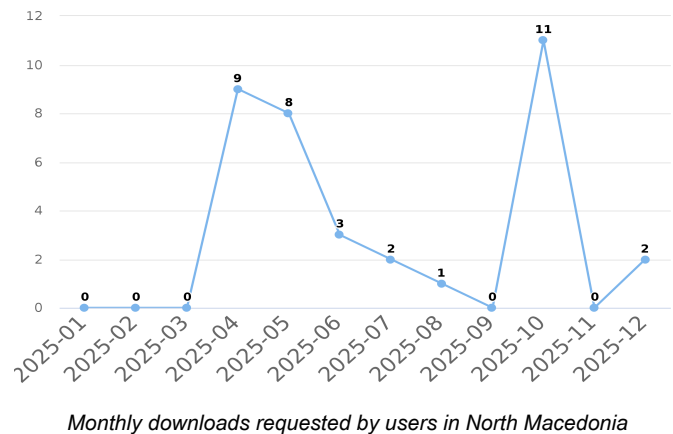
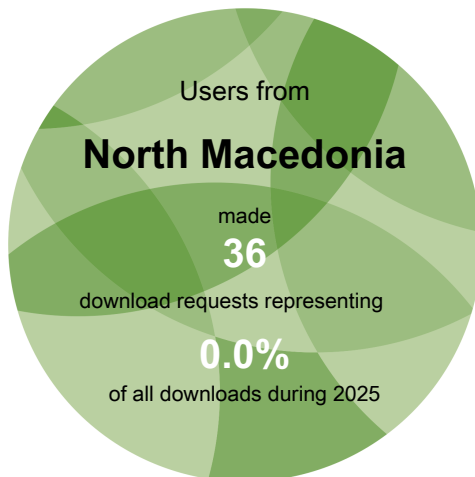


Number of records published by institutions in North Macedonia, categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in North Macedonia



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

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 North Macedonia.

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

Lucas, Thuiller, Talluto *et al.* (2025) Trophic Interactions Are Key to Understanding the Effects of Global Change on the Distribution and Functional Role of the Brown Bear. *Global Change Biology*.
<https://doi.org/10.1111/gcb.70252>

Sumbh, Hellegers, Barbarossa *et al.* (2025) Developing and Validating Species Distribution Models for Wetland Plants Across Europe. *Ecology and Evolution*.
<https://doi.org/10.1002/ece3.71157>

Ciceu, Bălăcenoiu, de Groot *et al.* (2024) The ongoing range expansion of the invasive oak lace bug across Europe: current occurrence and potential distribution under climate change. *Science of The Total Environment*.
<https://doi.org/10.1016/j.scitotenv.2024.174950>

VALLADOLID, KARAOUZAS, IBRAHIMI *et al.* (2022) The Rhyacophila fasciata Group in Europe: Rhyacophila macedonica Karaouzas, Valladolid & Ibrahimi (n. sp.) from Greece, Kosovo, Republic of North Macedonia and Serbia (Trichoptera: Rhyacophilidae). *Zootaxa*.
<https://doi.org/10.11646/zootaxa.5125.2.1>

Soultan, Pavón-Jordán, Bradter *et al.* (2022) The future distribution of wetland birds breeding in Europe validated against observed changes in distribution. *Environmental Research Letters*.
<https://doi.org/10.1088/1748-9326/ac4ebe>

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



Data availability

Total data available for selected taxonomic groups in North Macedonia



Mammals
1,521
occurrences



Birds
121,569
occurrences



Bony fish
1,251
occurrences



Amphibians
538
occurrences



Insects
33,837
occurrences



Reptiles
1,425
occurrences



Molluscs
2,630
occurrences



Arachnids
958
occurrences



Flowering plants
28,072
occurrences



Ferns
308
occurrences



Gymnosperms
298
occurrences



Mosses
330
occurrences



Sac fungi
1,803
occurrences



Basidiomycota
710
occurrences

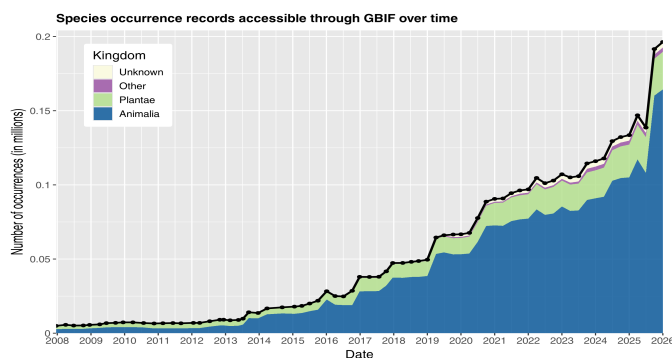
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

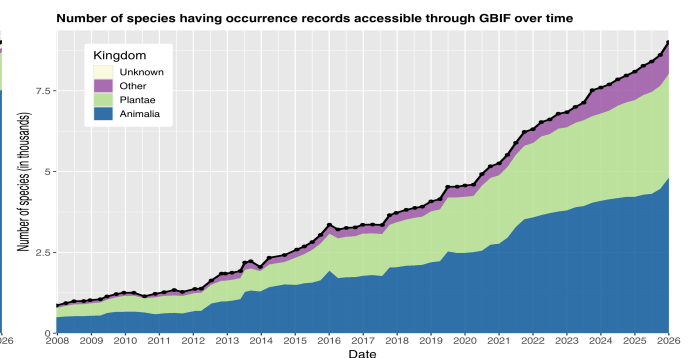
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in North Macedonia



Occurrence records available about species occurring in North Macedonia



Species for which at least one occurrence record is available in North Macedonia

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 North Macedonia

Classic localities of endemic vascular plants from the Western Balkans. *Published by Macedonian Ecological Society*
<https://doi.org/10.15468/hf2e8b>

Classic localities of cave dwelling Arthropoda (excl. Coleoptera) from the Western Balkans. *Published by Macedonian Ecological Society*
<https://doi.org/10.15468/qhezg8>

Classic localities of terrestrial Mollusca from the Western Balkans. *Published by Macedonian Ecological Society*
<https://doi.org/10.15468/8gf8cu>

Distributional data on high altitude endemic taxa of vascular plants from western Balkans. *Published by Macedonian Ecological Society*
<https://doi.org/10.15468/4cfhz6>

Distributional data on high altitude endemic taxa of beetles (Coleoptera) from neighbouring border areas of western Balkans. *Published by Macedonian Ecological Society*
<https://doi.org/10.15468/mrj6pv>

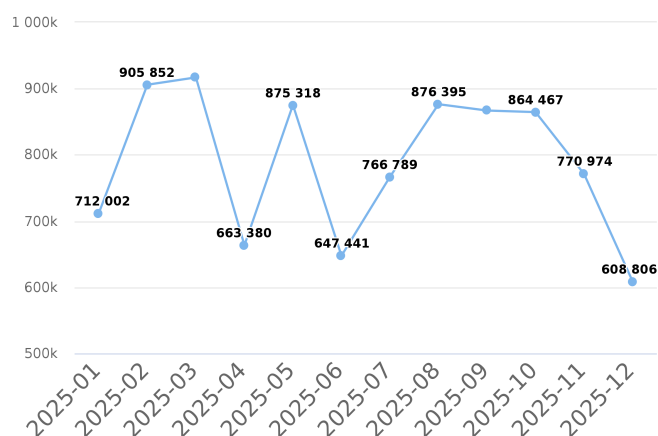
Classic localities of fishes from the Western Balkans. *Published by Macedonian Ecological Society*
<https://doi.org/10.15468/m9na8d>

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

Newest publishers from North Macedonia

Macedonian Ecological Society

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



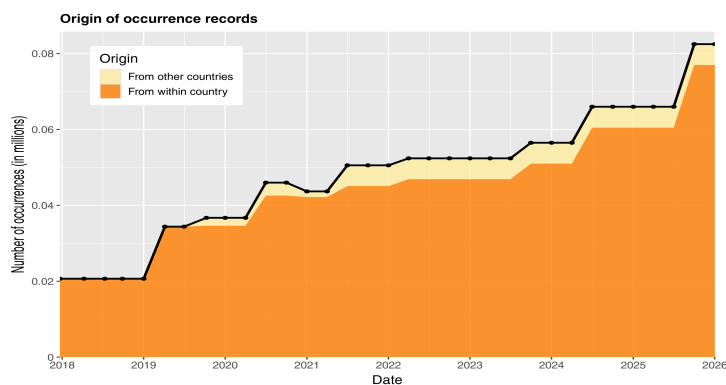
See all publishers from this country or area
gbif.org/publisher/search?country=MK

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

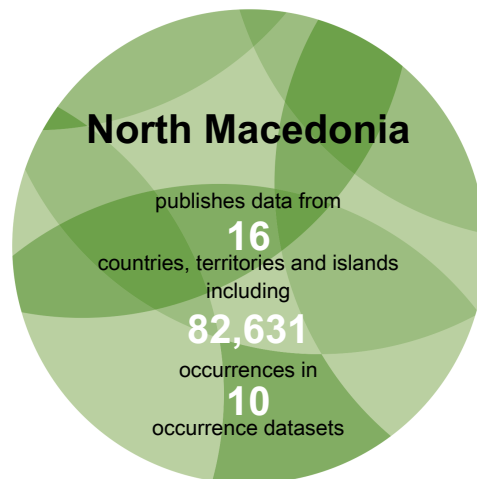


Data mobilization

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



Data sharing with country or area of origin



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

Top data contributors about biodiversity in North Macedonia

Rank	Country or area	No. of occurrences
1	North Macedonia	77,148
2	Bulgaria	33,251
3	Netherlands	28,855
4	United States of America	15,558
5	United Kingdom	6,985
6	Germany	6,061
7	Sweden	5,245
8	International organization or unknown country	4,647
9	Spain	3,852
10	Colombia	3,836

Table 1. Ranking of countries or areas contributing data about North Macedonia

Top datasets contributing data about North Macedonia

EOD – eBird Observation Dataset. 75,363 occurrences in North Macedonia. (Last updated 29 Oct 2025)

Griffon Vulture movement on the Balkans. 32,100 occurrences in North Macedonia. (Last updated 17 Dec 2025)

Observation.org, Nature data from around the World. 20,094 occurrences in North Macedonia. (Last updated 16 Dec 2025)

iNaturalist Research-grade Observations. 12,839 occurrences in North Macedonia. (Last updated 31 Dec 2025)

EBCC Atlas of European Breeding Birds. 4,552 occurrences in North Macedonia. (Last updated 19 Nov 2025)

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