

generated January 2024

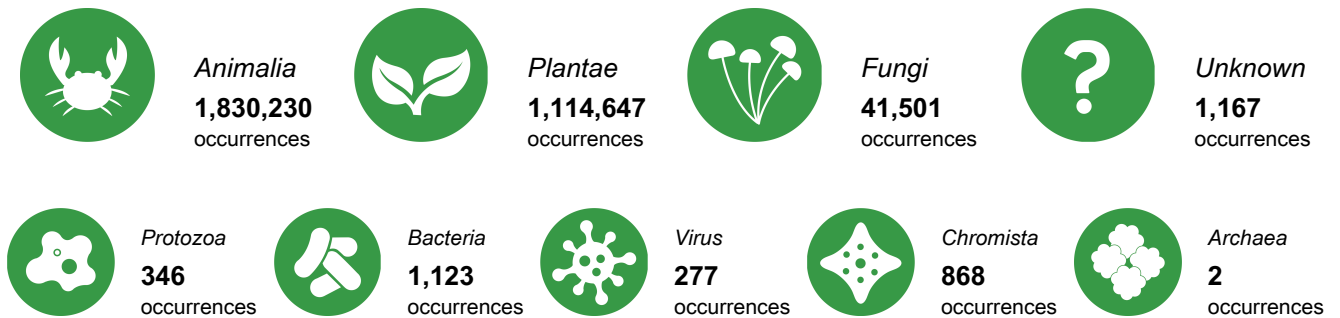
Luxembourg

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 Luxembourg. 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.

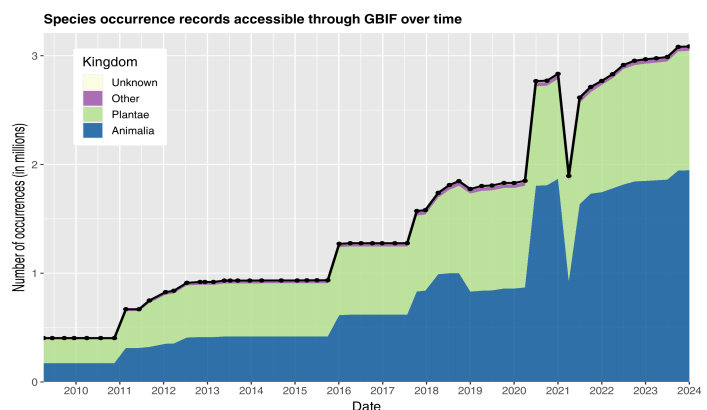
► Access and usage



► Data availability in Luxembourg



► Data mobilization

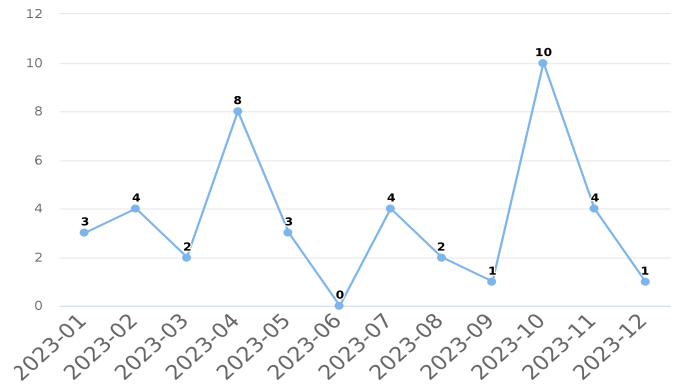
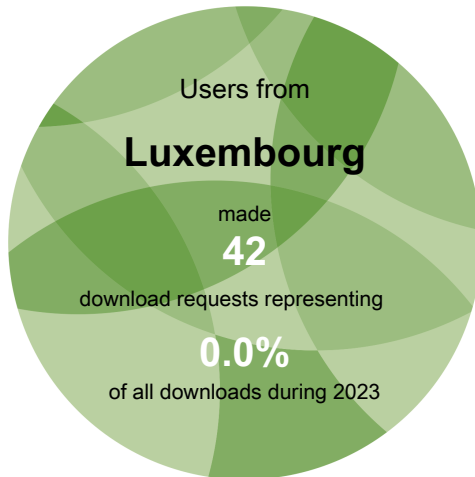


Number of records published by institutions in Luxembourg, categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in Luxembourg



Monthly downloads requested by users in Luxembourg

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

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 Luxembourg.

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

Thuy, Numberger-Thuy. (2023) The Northernmost Occurrence of the Tropical-Subtropical Brittle Star *Ophiocoma* (Echinodermata, Ophiuroidea) from a Late Cretaceous Rocky Shore in Southern Sweden. *Taxonomy*.

<https://doi.org/10.3390/taxonomy3030020>

Caruso, Carneiro, Dathe *et al.* (2023) European bee diversity: Taxonomic and phylogenetic patterns. *Journal of Biogeography*.

<https://doi.org/10.1111/jbi.14614>

Cantú-Salazar, Vray, Jakubzik *et al.* (2021) An addition to the list of wild bee fauna of Luxembourg: *Nomada kohli* Schmiedeknecht, 1882 (Hymenoptera, Apidae), with a list of the species of the genus *Nomada* *Bulletin de la Société des naturalistes luxembourgeois*.

Marshall, Beckers, Vray *et al.* (2020) High thematic resolution land use change models refine biodiversity scenarios: A case study with Belgian bumblebees. *Journal of Biogeography*.

<https://doi.org/10.1111/jbi.14000>

Vilaça, Biosa, Zachos *et al.* (2014) Mitochondrial phylogeography of the European wild boar: the effect of climate on genetic diversity and spatial lineage sorting across Europe. *Journal of Biogeography*.

<https://doi.org/10.1111/jbi.12268>

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



Data availability

Total data available for selected taxonomic groups in Luxembourg



Mammals
40,481
occurrences



Birds
1,145,358
occurrences



Bony fish
6,176
occurrences



Amphibians
16,508
occurrences



Insects
563,341
occurrences



Reptiles
8,037
occurrences



Molluscs
15,910
occurrences



Arachnids
20,172
occurrences



Flowering plants
1,052,248
occurrences



Ferns
27,373
occurrences



Gymnosperms
5,867
occurrences



Mosses
23,129
occurrences



Sac fungi
19,512
occurrences



Basidiomycota
21,100
occurrences

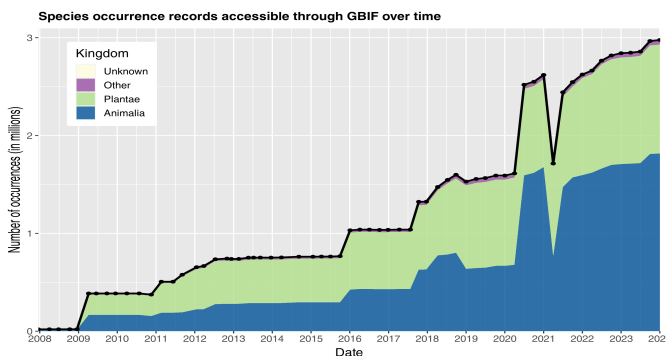
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

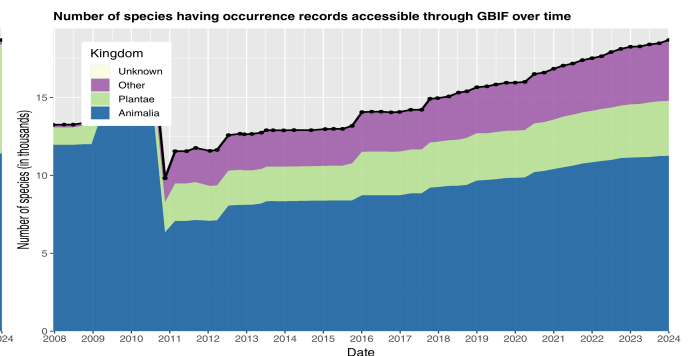
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in Luxembourg



Occurrence records available about species occurring in Luxembourg



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

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 Luxembourg

Equisetaceae flora of Luxembourg. *Published by National Museum of Natural History, Luxembourg*
<https://doi.org/10.15468/j93sn7>

Checklist of hard ticks in Luxembourg (Parasitiformes, Ixodida, Ixodidae). *Published by National Museum of Natural History, Luxembourg*
<https://doi.org/10.15468/wwzej8>

Checklist: Atlas and catalogue of the mosquitoes (Diptera, Culicidae) of Luxembourg - 2023. *Published by National Museum of Natural History, Luxembourg*
<https://doi.org/10.15468/89zzzh>

Atlas of Formicidae of Luxembourg 2021. *Published by National Museum of Natural History, Luxembourg*
<https://doi.org/10.15468/wa97dv>

Atlas of the Auchenorrhyncha fauna of Luxembourg. *Published by National Museum of Natural History, Luxembourg*
<https://doi.org/10.15468/m3nkyc>

Checklist of Protura species of Luxembourg 2003. *Published by National Museum of Natural History, Luxembourg*
<https://doi.org/10.15468/zsrhxx>

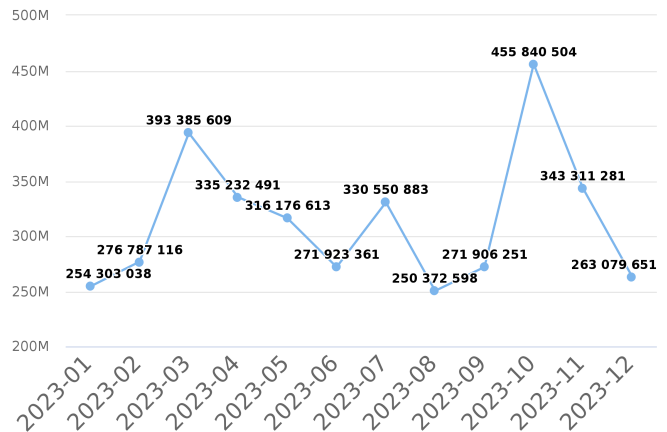
See all datasets from this country or area: gbif.org/dataset/search?publishing_country=LU

Newest publishers from Luxembourg

National Museum of Natural History, Luxembourg

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

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

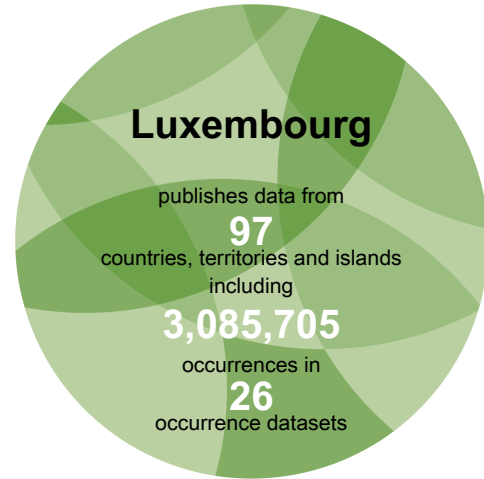
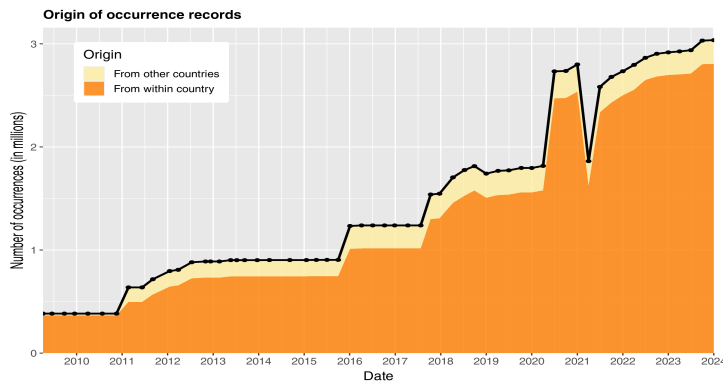


Number of occurrence records downloaded via GBIF.org published by institutions in Luxembourg



Data mobilization

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



Data sharing with country or area of origin

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

Top data contributors about biodiversity in Luxembourg

Rank	Country or area	No. of occurrences
1	Luxembourg	2,819,676
2	Netherlands	69,265
3	United States of America	52,943
4	France	16,207
5	Belgium	12,884
6	Germany	7,158
7	Estonia	4,325
8	United Kingdom	2,607
9	Austria	2,380
10	International organization or unknown country	833

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

Top datasets contributing data about Luxembourg

Collections and observation data National Museum of Natural History Luxembourg. *1,432,184 occurrences in Luxembourg.* (Last updated 3 Jul 2023)

MnhnL various project records, Recorder-Lux database. *270,250 occurrences in Luxembourg.* (Last updated 6 Jul 2022)

Biotope cadastre of the open landscapes, Recorder-Lux database. *229,355 occurrences in Luxembourg.* (Last updated 9 Mar 2022)

Forest vegetation surveys ANF, Recorder-Lux database. *185,132 occurrences in Luxembourg.* (Last updated 21 Jun 2022)

Common Bird Monitoring MECDD, Recorder-Lux database. *149,303 occurrences in Luxembourg.* (Last updated 21 Jun 2022)

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



Luxembourg participates in the following projects coordinated by GBIF

International Living Atlases workshop

Capacity Enhancement Support Programme, 2017–2018

This project will support and strengthen the growing international community of practice around open-source software developed by the Atlas of Living Australia.

<https://www.gbif.org/project/83337>

See all GBIF projects
[gbif.org/resource/search?contentType=project](https://www.gbif.org/resource/search?contentType=project)