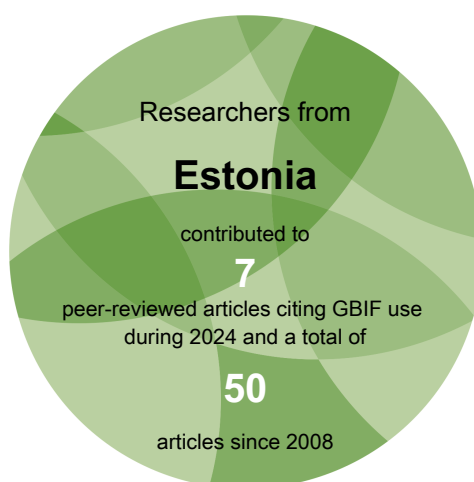


generated January 2025

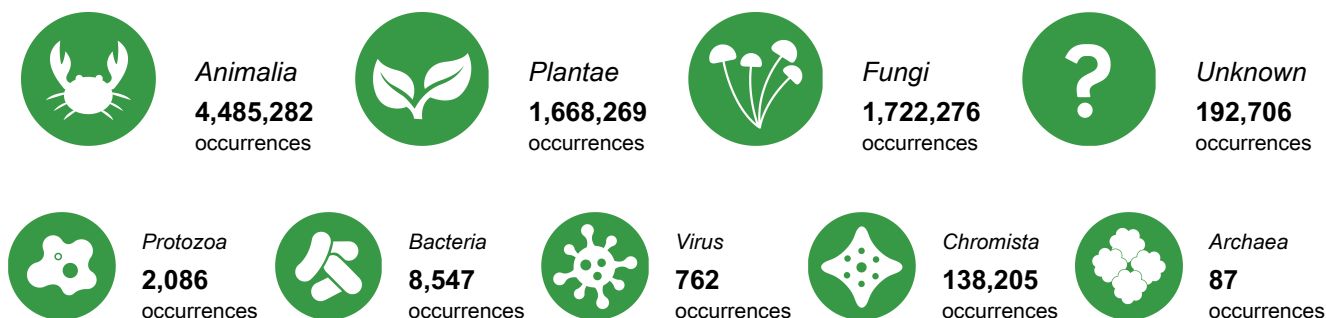
Estonia

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 Estonia. 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.

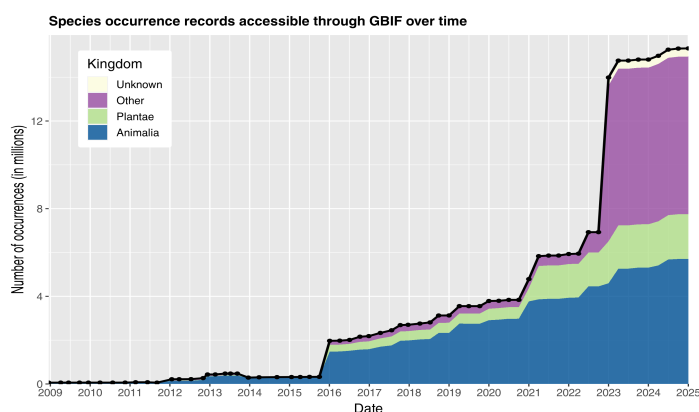
► Access and usage



► Data availability in Estonia



► Data mobilization

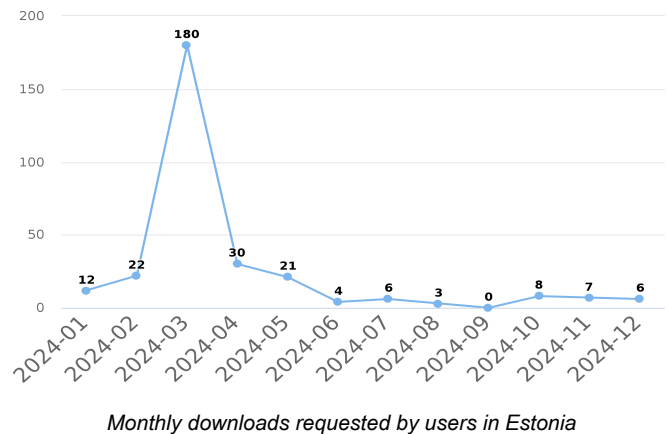
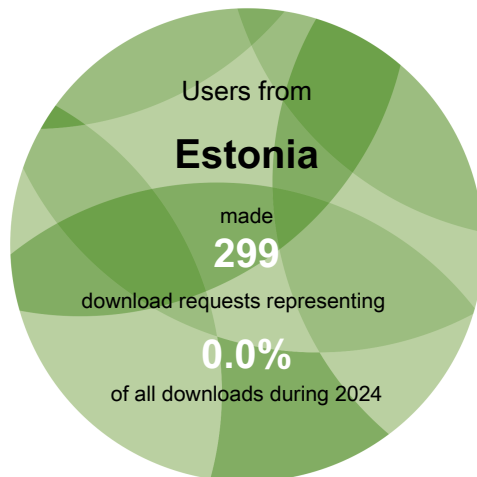


Number of records published by institutions in Estonia,
categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in Estonia



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

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 Estonia.

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

Degtjarenko, Kaupuža, Motiejūnaitė *et al.* (2024) Toward the first Red List of Latvian lichens according to the IUCN criteria. *Plant Biosystems - An International Journal Dealing with all Aspects of Plant Biology*.

<https://doi.org/10.1080/11263504.2024.2399056>

Trasune, Väliiranta, Stivrins *et al.* (2024) A comparison of plant macrofossil-based quantitative climate reconstruction methods: A case study of the lateglacial Baltic States. *Quaternary Science Reviews*.

<https://doi.org/10.1016/j.quascirev.2024.108811>

Hordijk, Bialic-Murphy, Lauber *et al.* (2024) Dominance and rarity in tree communities across the globe: Patterns, predictors and threats. *Global Ecology and Biogeography*.

<https://doi.org/10.1111/geb.13889>

Ovaskainen, Abrego, Furneaux *et al.* (2024) Global Spore Sampling Project: A global, standardized dataset of airborne fungal DNA. *Scientific Data*.

<https://doi.org/10.1038/s41597-024-03410-0>

Toussaint, Pärtel, Carmona. (2024) Contrasting impacts of non-native and threatened species on morphological, life history, and phylogenetic diversity in bird assemblages. *Ecology Letters*.

<https://doi.org/10.1111/ele.14373>

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



Data availability

Total data available for selected taxonomic groups in Estonia



Mammals
126,821
occurrences



Birds
3,043,239
occurrences



Bony fish
3,601
occurrences



Amphibians
6,979
occurrences



Insects
960,838
occurrences



Reptiles
3,173
occurrences



Molluscs
84,895
occurrences



Arachnids
14,091
occurrences



Flowering plants
1,415,884
occurrences



Ferns
39,726
occurrences



Gymnosperms
17,113
occurrences



Mosses
114,124
occurrences



Sac fungi
590,771
occurrences



Basidiomycota
894,982
occurrences

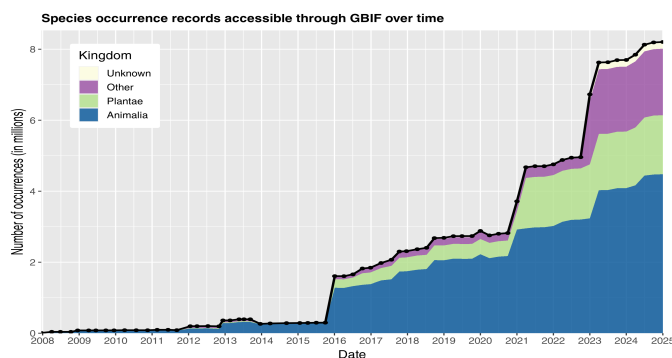
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

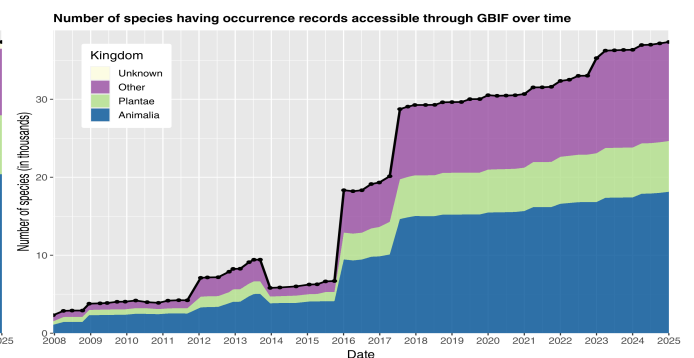
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in Estonia



Occurrence records available about species occurring in Estonia



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

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 Estonia

Data rescue from the article 'Environmental metagenetics unveil novel plant-pollinator interactions' by Wizenberg, SB et al., 2023. *Published by PlutoF*
<https://doi.org/10.15468/2gtz4g>

Data rescue from the article 'Community composition of arctic root-associated fungi mirrors host plant phylogeny' by Botnen, SS et al., 2020.. *Published by PlutoF*
<https://doi.org/10.15468/rx3vyw>

Global soil organisms. *Published by PlutoF*
<https://doi.org/10.15468/fdpeaw>

Corticoid fungi (Basidiomycota) in mixed broadleaf forests of Belarusian Moraine Ridge, Belarus. *Published by PlutoF*
<https://doi.org/10.15468/z9xsbb>

Horti sicci by Siiri Kõljalg. *Published by PlutoF*
<https://doi.org/10.15468/w273c7>

Global soil microbiomes: A new frontline of biome-ecology research. *Published by PlutoF*
<https://doi.org/10.1111/geb.13487>

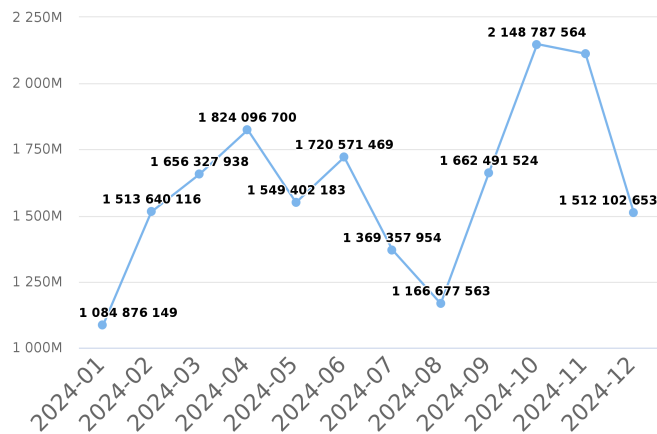
See all datasets from this country or area: gbif.org/dataset/search?publishing_country=EE

Newest publishers from Estonia

- Estonian University of Life Sciences
- University of Tartu, Natural History Museum and Botanical Garden
- Estonian Naturalists' Society
- Estonian Ornithological Society (BirdLife Estonia)
- Tallinn Botanic Garden

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

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

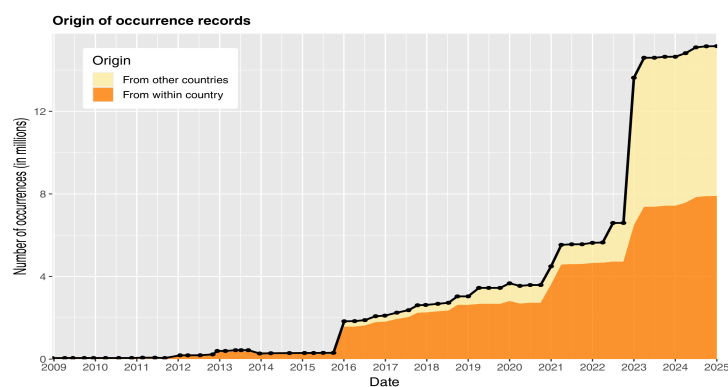


Number of occurrence records downloaded via GBIF.org published by institutions in Estonia

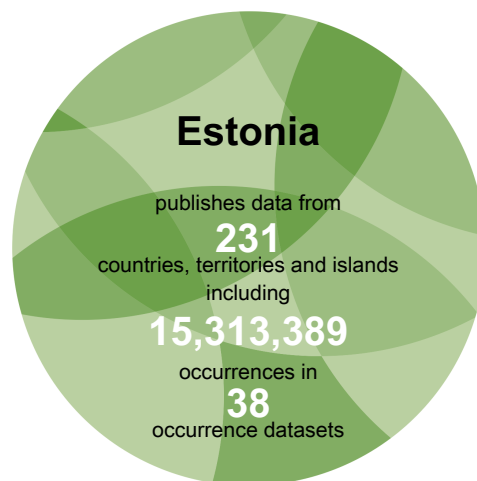


Data mobilization

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



Data sharing with country or area of origin



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

Top data contributors about biodiversity in Estonia

Rank	Country or area	No. of occurrences
1	Estonia	7,909,752
2	Finland	134,771
3	Netherlands	64,584
4	United States of America	41,801
5	United Kingdom	19,677
6	Germany	8,826
7	France	7,353
8	Sweden	7,253
9	Russian Federation	4,548
10	Norway	3,689

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

Top datasets contributing data about Estonia

- Estonian Ornithological Society (BirdLife Estonia). 2,464,499 occurrences in Estonia. (Last updated 28 Jul 2024)
- Global soil organisms. 1,767,159 occurrences in Estonia. (Last updated 27 Feb 2023)
- Estonian Naturalists' Society. 1,638,376 occurrences in Estonia. (Last updated 1 Sep 2024)
- Estonian Nature Observations Database. 326,086 occurrences in Estonia. (Last updated 31 Dec 2019)
- Estonian University of Life Sciences Institute of Agricultural and Environmental Sciences Entomological Collection. 251,775 occurrences in Estonia. (Last updated 12 Jul 2024)

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



Estonia participates in the following projects coordinated by GBIF

Capacity building through regional cooperation for data mobilization in Belarus, Latvia and Lithuania

Capacity Enhancement Support Programme, 2020–2022

By focusing on specimen collections and bibliography, this project aims to reach deep into regional biodiversity studies, including Polish and Russian legacy data

<https://www.gbif.org/project/9BKeb7ka92YPFUjhwv4UL>

See all GBIF projects

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