

generated January 2026

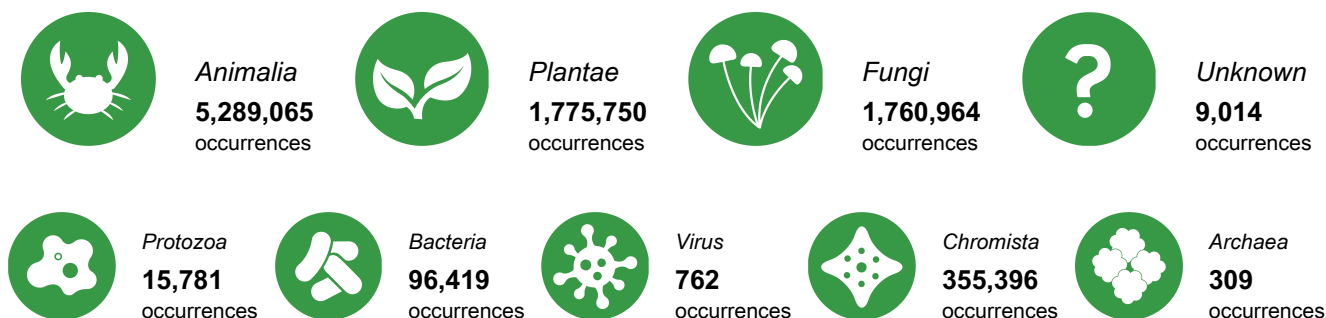
Estonia

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.

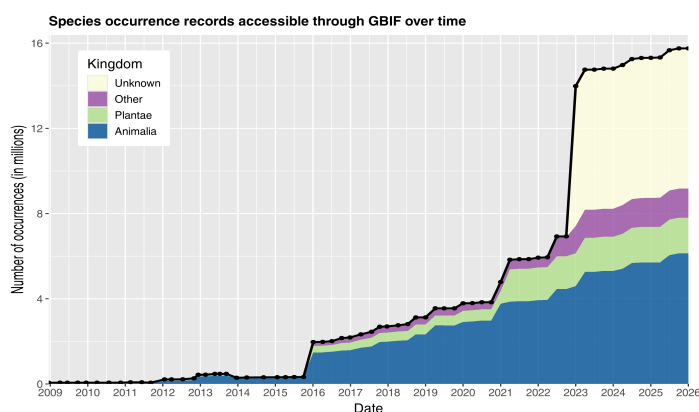
► Access and usage



► Data availability in Estonia



► Data mobilization

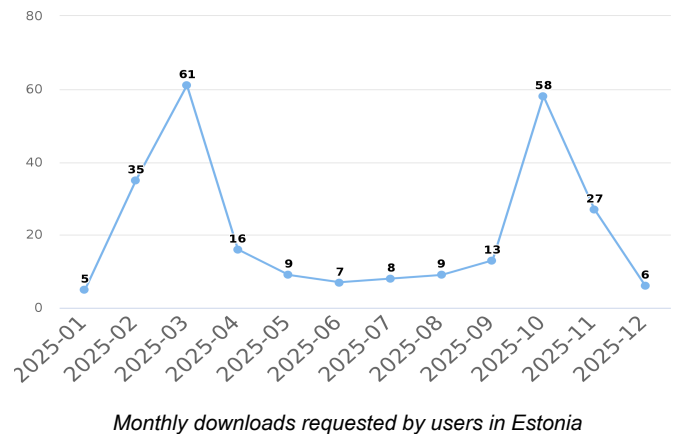
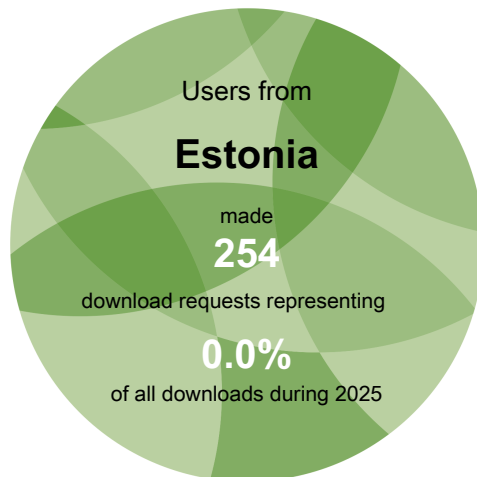


Number of records published by institutions in Estonia,
categorized by kingdom



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.

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>

Lončarević, Liu, Stefanaki *et al.* (2024) Database of European vascular plants red lists as a contribution to more coherent plant conservation. *Scientific Data*.
<https://doi.org/10.1038/s41597-024-03963-0>

Soto, Courtois, Pili *et al.* (2025) Using species ranges and macroeconomic data to fill the gap in costs of biological invasions. *Nature Ecology & Evolution*.
<https://doi.org/10.1038/s41559-025-02697-5>

Klisz, Puchalka, Gławenda *et al.* (2025) Temperature-driven shifts in spatiotemporal stability of climate-growth responses of Douglas-fir (*Pseudotsuga menziesii*) from the southern Baltic Sea region. *Agricultural and Forest Meteorology*.
<https://doi.org/10.1016/j.agrformet.2025.110628>

Pavanetto, Niinemets, Rueda *et al.* (2024) Macroecology of Abiotic Stress Tolerance in Woody Plants of the Northern Hemisphere: Tolerance Biomes and Polytolerance Hotspots. *Ecology Letters*.
<https://doi.org/10.1111/ele.70016>

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
128,130
occurrences



Birds
3,225,004
occurrences



Bony fish
351,100
occurrences



Amphibians
7,139
occurrences



Insects
982,538
occurrences



Reptiles
3,300
occurrences



Molluscs
133,020
occurrences



Arachnids
15,012
occurrences



Flowering plants
1,433,674
occurrences



Ferns
39,922
occurrences



Gymnosperms
17,093
occurrences



Mosses
114,407
occurrences



Sac fungi
609,432
occurrences



Basidiomycota
910,843
occurrences

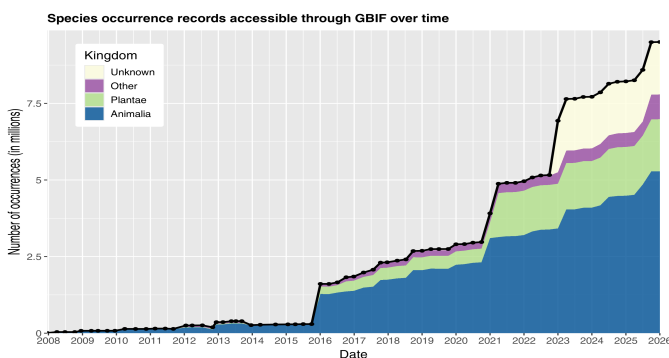
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

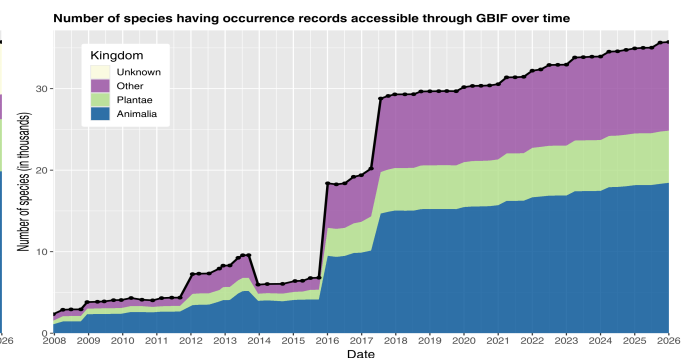
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Estonian Marine Institute European sprat (*Sprattus sprattus* L.) otolith collection. *Published by PlutoF*

<https://doi.org/10.15468/f26tn4>

Vector collection_OH surveillance project Estonia. *Published by Republic of Estonia Health Board*

<https://doi.org/10.15468/h28ubm>

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>

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

Newest publishers from Estonia

Republic of Estonia Health Board

Estonian University of Life Sciences

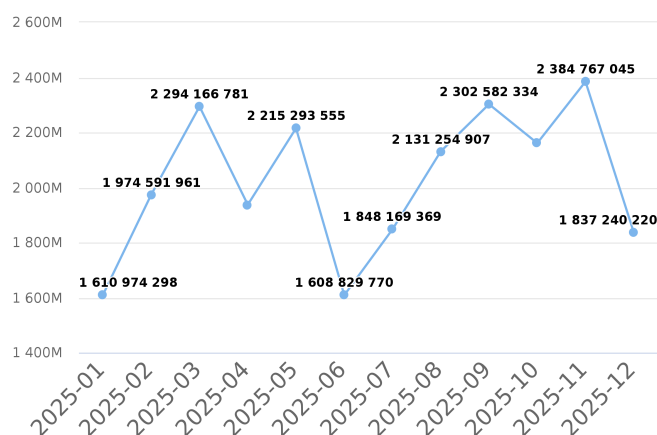
University of Tartu, Natural History Museum and Botanical Garden

Estonian Naturalists' Society

Estonian Ornithological Society (BirdLife Estonia)

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

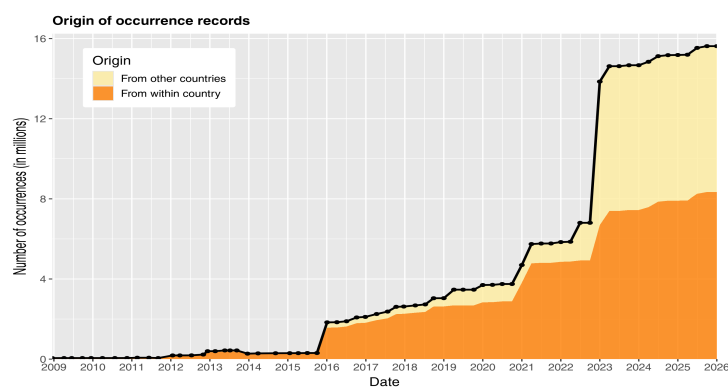


Number of occurrence records downloaded via
GBIF.org published by institutions in Estonia

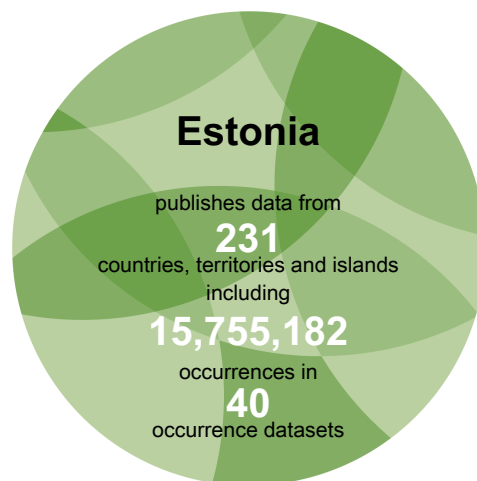


Data mobilization

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	8,340,750
2	Belgium	724,611
3	Finland	170,209
4	United Kingdom	83,215
5	Netherlands	75,336
6	United States of America	51,097
7	Sweden	9,958
8	Germany	9,704
9	Denmark	9,335
10	France	8,507

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 30 Oct 2025)

Estonian Marine Institute European sprat (*Sprattus sprattus* L.) otolith collection. 337,077 occurrences in Estonia. (Last updated 18 Jun 2025)

Estonian Nature Observations Database. 326,086 occurrences in Estonia. (Last updated 19 Nov 2025)

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)