GBIF Global Biodiversity Information Facility

Activity report

generated January 2024

Sweden

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 Sweden. 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

Sweden

contributed to

47

peer-reviewed articles citing GBIF use during 2023 and a total of

261

articles since 2008

▸ Data availability in Sweden

Animalia
98,990,702
occurrences

Plantae
22,065,815
occurrences

Fungi
5,000,072
occurrences

Unknown
174,605
occurrences

Protozoa
72,899
occurrences

Bacteria
600,224
occurrences

Virus
9,244
occurrences

Chromista
710,968
occurrences

Archaea
6,484
occurrences

▸ Data mobilization

Institutions from

Sweden

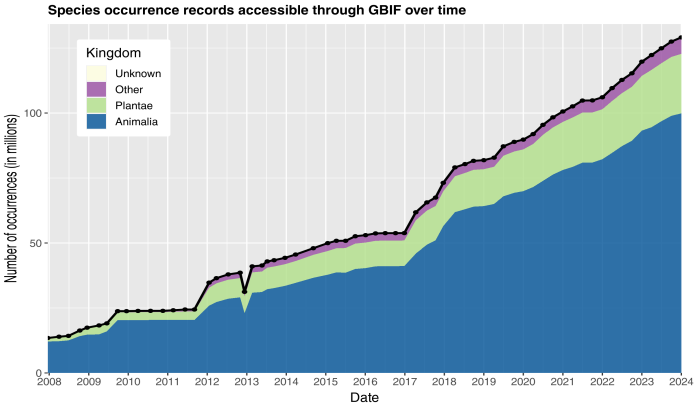
published

9,339,841

new occurrence records during 2023 out of a total of

355,993,458

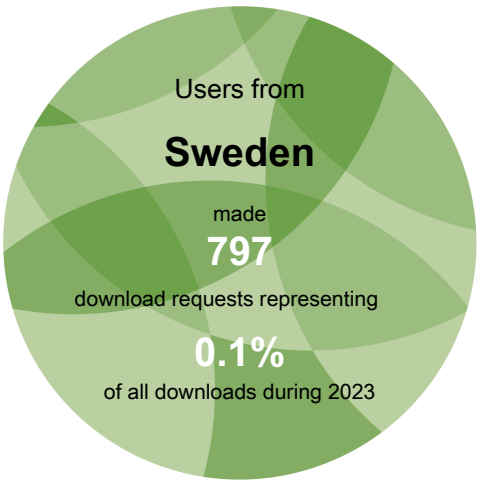
occurrence records added globally to GBIF.org

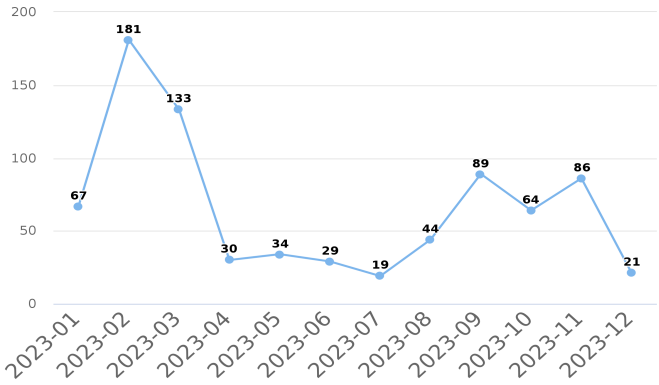


Number of records published by institutions in Sweden, categorized by kingdom

Access and usage

Data downloads on GBIF.org from users in Sweden





Monthly downloads requested by users in Sweden

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

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 Sweden.

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

Betzholtz, Forsman, Franzén. (2023) Increased Abundance Coincides with Range Expansions and Phenology Shifts: A Long-Term Case Study of Two Noctuid Moths in Sweden. *Diversity.* https://doi.org/10.3390/d15121177

Hostens, Van Meerbeek, Wiegmans *et al.* (2023) The drivers of dark diversity in the Scandinavian mountains are metric-dependent. *Journal of Vegetation Science.* https://doi.org/10.1111/jvs.13212

Meheretu, Mikula, Frynta *et al.* (2023) Phylogeny, biogeography, and integrative taxonomic revision of the Afro-Arabian rodent genus Ochromyscus (Muridae: Murinae: Praomyini). *Zoological Journal of the Linnean Society.* https://doi.org/10.1093/zoolinnean/zlad158

Abdelgadir, Alharbi, AlRashidi *et al.* (2023) Distribution of denitrifiers predicted by correlative niche modeling of changing environmental conditions and future climatic scenarios across the Baltic Sea. *Ecological Informatics.* https://doi.org/10.1016/j.ecoinf.2023.102346

Oyebanji, Onditi, Azevedo *et al.* (2023) Biogeographic patterns and environmental drivers of species richness in the globally distributed Millettioid/Phaseoloid clade (Fabaceae, subfamily Papilionoideae). *Frontiers in Ecology and Evolution.*

https://doi.org/10.3389/fevo.2023.1231553

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

Data availability

Total data available for selected taxonomic groups in Sweden

Mammals
478,290
occurrences

Birds
84,206,115
occurrences

Bony fish
3,812,452
occurrences

Amphibians
97,674
occurrences

Insects
8,737,083
occurrences

Reptiles
44,685
occurrences

Molluscs
462,294
occurrences

Arachnids
246,840
occurrences

Flowering plants
19,038,204
occurrences

Ferns
646,630
occurrences

Gymnosperms
333,823
occurrences

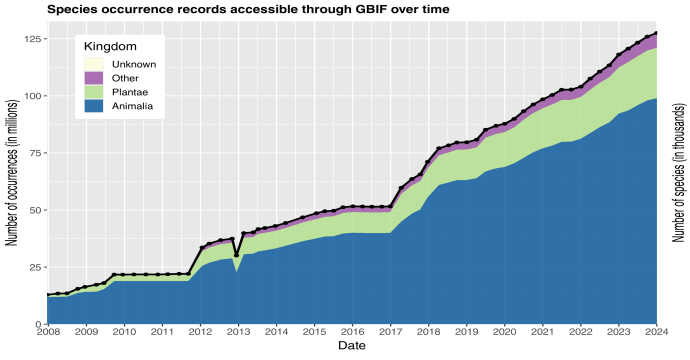
Mosses
1,201,665
occurrences

Sac fungi
2,035,972
occurrences

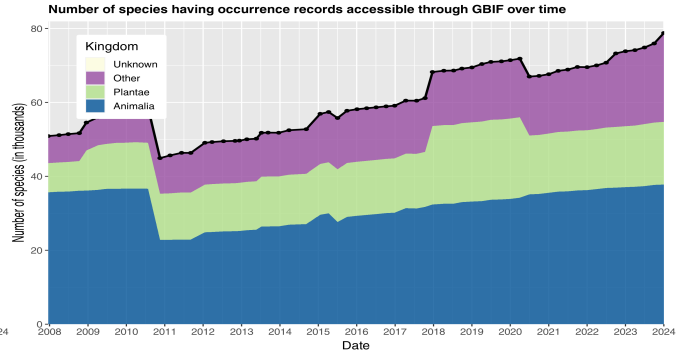
Basidiomycota
2,932,612
occurrences

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 Sweden



Occurrence records available about species occurring in Sweden



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

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 Sweden

18S: A comprehensive dataset on spatiotemporal variation of microbial plankton communities in the Baltic Sea. *Published by KTH Royal Institute of Technology*
https://doi.org/10.15468/cwjstg

16S: A comprehensive dataset on spatiotemporal variation of microbial plankton communities in the Baltic Sea. *Published by KTH Royal Institute of Technology*
https://doi.org/10.15468/vrxhxe

Soil fungal communities of ectomycorrhizal dominated woodlands across West Africa. *Published by Biology Section, Uppsala University*
https://doi.org/10.15468/vdavsc

COI Metabarcoding Genetic Observations of Marine Species in the Port of Wallhamn, Sweden (2022). *Published by University of Gothenburg*
https://doi.org/10.15468/cw5jrv

18S Metabarcoding Genetic Observations of Marine Species in the Port of Wallhamn, Sweden (2022). *Published by University of Gothenburg*
https://doi.org/10.15468/z8pm63

SHARK - Regional marine environmental monitoring and monitoring projects of Epibenthos in Sweden since 1994. *Published by The Swedish Meteorological and Hydrological Institute*
https://doi.org/10.15468/avttsr

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

Newest publishers from Sweden

Museum of Evolution, Uppsala University

Skogs- och samemuseet i Lycksele AB

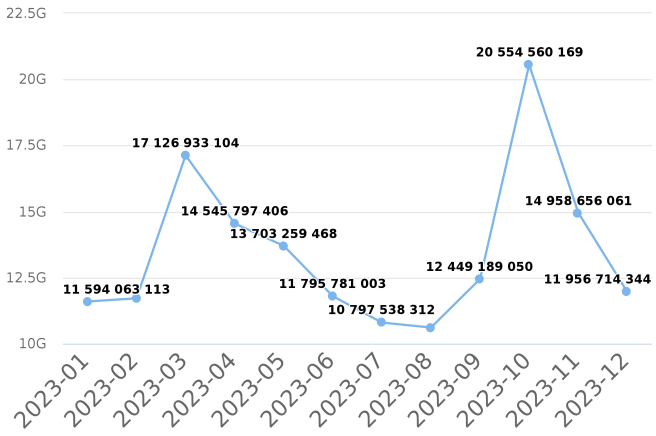
Göteborgs Botaniska Trädgård

Department of Aquatic resources, SLU

Vänersborgs Museum

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

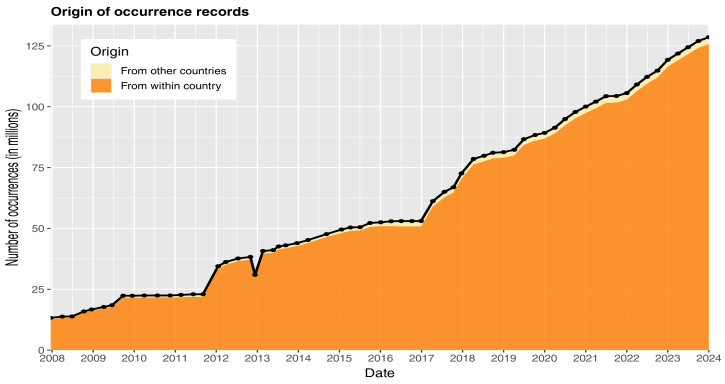
Occurrence records downloaded from GBIF.org, published by institutions in Sweden

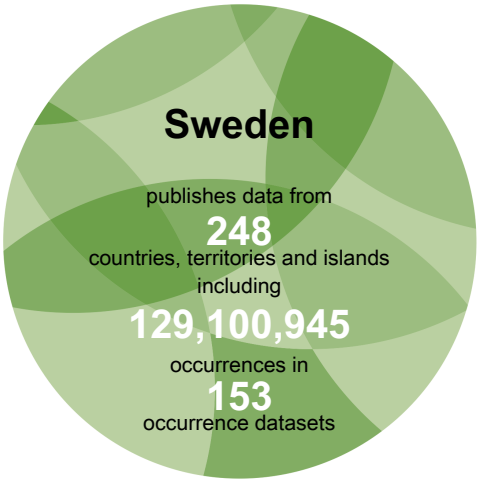


Number of occurrence records downloaded via GBIF.org published by institutions in Sweden

Data mobilization

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





Data sharing with country or area of origin

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

Top data contributors about biodiversity in Sweden

Rank	Country or area	No. of occurrences
1	Sweden	125,799,954
2	United Kingdom	411,794
3	Netherlands	274,815
4	United States of America	267,212
5	Estonia	191,482
6	Finland	172,196
7	Norway	143,183
8	France	86,816
9	Germany	79,678
10	International organization or unknown country	50,561

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

Top datasets contributing data about Sweden

Artportalen (Swedish Species Observation System). *102,049,659 occurrences in Sweden.* (Last updated 30 Dec 2023)

Bird Ringing Centre in Sweden (NRM). *8,595,476 occurrences in Sweden.* (Last updated 17 Mar 2023)

SLU Aqua Institute of Freshwater Research National register of survey test-fishing - NORS. *2,851,240 occurrences in Sweden.* (Last updated 28 Dec 2023)

EOD – eBird Observation Dataset. *2,375,666 occurrences in Sweden.* (Last updated 20 Aug 2023)

Swedish Bird Survey: Winter point count routes (Vinterpunktrutterna). *875,410 occurrences in Sweden.* (Last updated 20 Sep 2023)

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

Sweden 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

European training hackathon on species checklists using GBIF data

Capacity Enhancement Support Programme, 2014–2015

This regional collaboration supports a hackathon for European nodes, aiming to enhance their capacity to produce national checklists.

https://www.gbif.org/project/82221

See all GBIF projects
gbif.org/resource/search?contentType=project