

generated January 2026

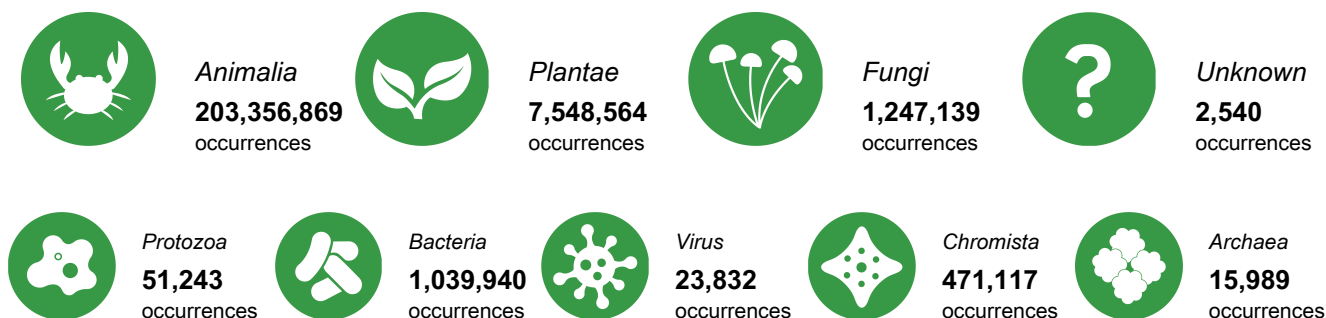
Canada

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 Canada. 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.

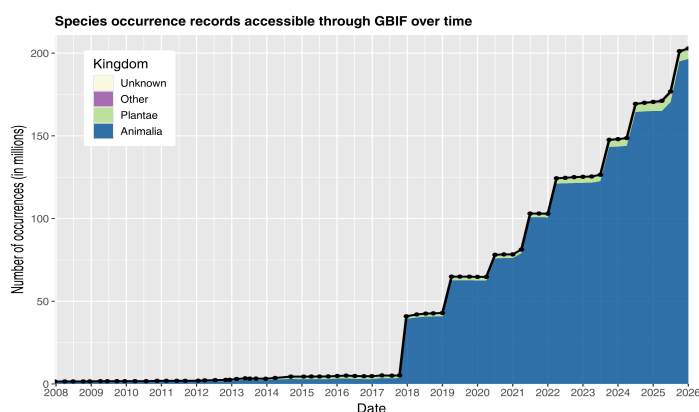
► Access and usage



► Data availability in Canada



► Data mobilization

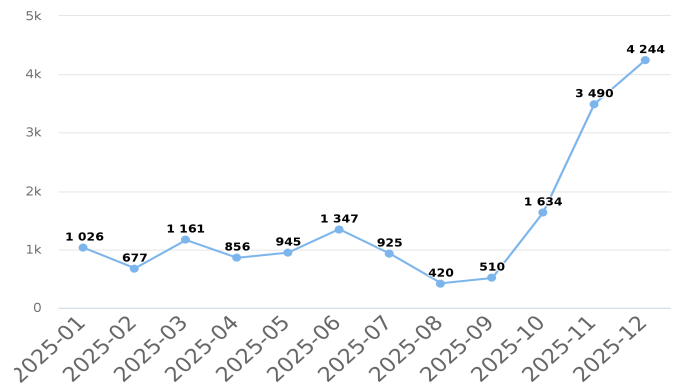
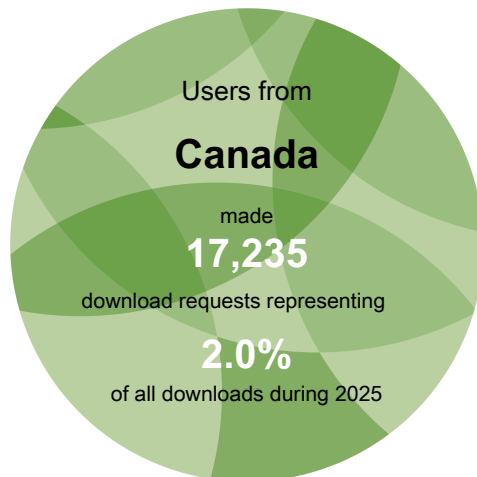


Number of records published by institutions in Canada,
categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in Canada



Monthly downloads requested by users in Canada

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

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 Canada.

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

Fuster-Calvo, Valentin, Tamayo *et al.* (2025) Evaluating the feasibility of automating dataset retrieval for biodiversity monitoring. *PeerJ*.

<https://doi.org/10.7717/peerj.18853>

Guo, Hu, Feng *et al.* (2025) Divergence, hybridization, and diversification in an eastern North American willow syngameon. *New Phytologist*.

<https://doi.org/10.1111/nph.70469>

Braun, Lortie. (2025) Projected Climate Change Scenarios Spatially Decouple Desert Extrafloral Nectary-Bearing Plant-Ant Interactions. *Journal of Biogeography*.

<https://doi.org/10.1111/jbi.70039>

Seebens, Meyerson, Richardson *et al.* (2025) Biological invasions: a global assessment of geographic distributions, long-term trends, and data gaps. *Biological Reviews*.

<https://doi.org/10.1111/brv.70058>

Tomlinson, Yu, Wang *et al.* (2025) The macroecology of spines on woody plants. *Biological Reviews*.

<https://doi.org/10.1111/brv.70051>

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



Data availability

Total data available for selected taxonomic groups in Canada



Mammals
869,632
occurrences



Birds
173,329,696
occurrences



Bony fish
12,725,513
occurrences



Amphibians
298,349
occurrences



Insects
9,675,518
occurrences



Reptiles
194,670
occurrences



Molluscs
641,194
occurrences



Arachnids
599,554
occurrences



Flowering plants
6,050,452
occurrences



Ferns
344,097
occurrences



Gymnosperms
238,651
occurrences



Mosses
568,120
occurrences



Sac fungi
658,177
occurrences



Basidiomycota
541,470
occurrences

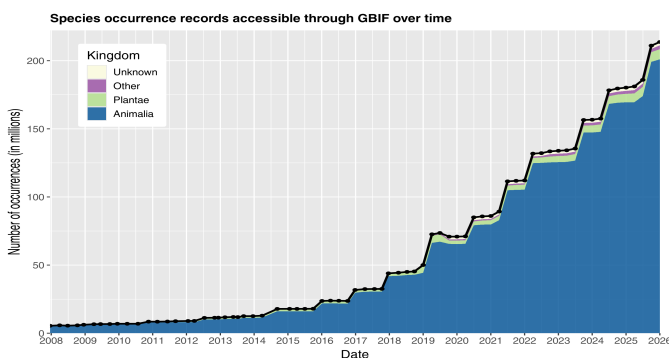
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

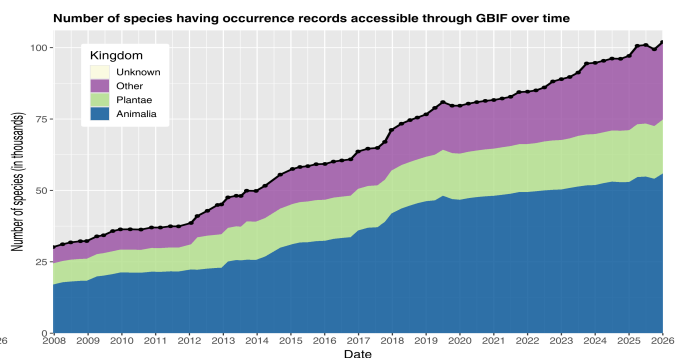
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in Canada



Occurrence records available about species occurring in Canada



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

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 Canada

The Baie Cachée Salt Marsh (Port-Cartier) - Characterization of Important Coastal Habitats on the North Shore of the Gulf of St. Lawrence | Le marais salé de la Baie Cachée (Port-Cartier) - Caractérisation des habitats littoraux d'importance de la Côte-Nord du golfe du Saint-Laurent. *Published by Observatoire Global du Saint-Laurent*
<https://doi.org/10.26071/e699c0a1-ee1d-4343>

The Ti-Basse Salt Marsh (Port-Cartier) - Characterization of Important Coastal Habitats on the North Shore of the Gulf of St. Lawrence | Le marais salé de Ti-Basse (Port-Cartier) - Caractérisation des habitats littoraux d'importance de la Côte-Nord du golfe du Saint-Laurent. *Published by Observatoire Global du Saint-Laurent*
<https://doi.org/10.26071/20449802-8533-4c94>

First record of the genus Xestophanes Förster, 1869 (Hymenoptera: Cynipidae) in northern Africa. *Published by Specimen Micropublications*
<https://doi.org/10.5886/8rkwzs>

From Corsica to Sardinia: distributional range extension of the recently described Hoplitis agnielae Le Divelec, 2024 (Hymenoptera: Anthophila: Megachilidae). *Published by Specimen Micropublications*
<https://doi.org/10.5886/cxm3mj>

Notes on the male genitalia of Heterocnephys lymphatalis (Swinhoe, 1889) (Lepidoptera: Crambidae). *Published by Specimen Micropublications*
<https://doi.org/10.5886/kspbj2>

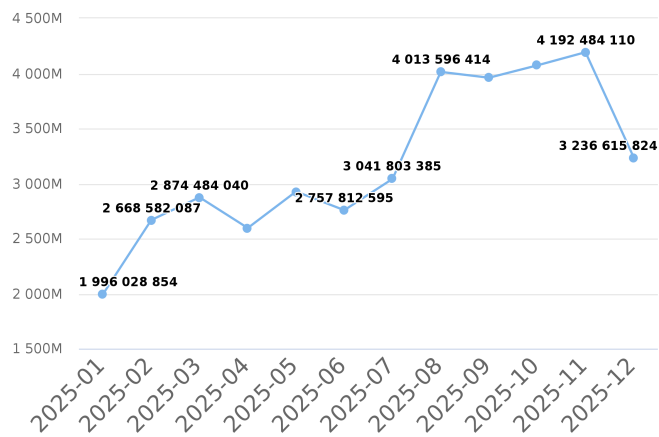
See all datasets from this country or area: gbif.org/dataset/search?publishing_country=CA

Newest publishers from Canada

- Native Bee Society of BC
- Students on Ice Foundation
- Pacific Salmon Foundation
- Ocean Networks Canada Society
- Natural History Collection, Department of Biology, University of Saskatchewan

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

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

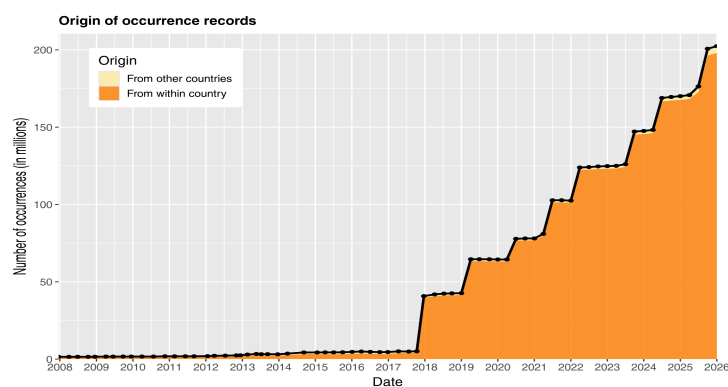


Number of occurrence records downloaded via GBIF.org published by institutions in Canada

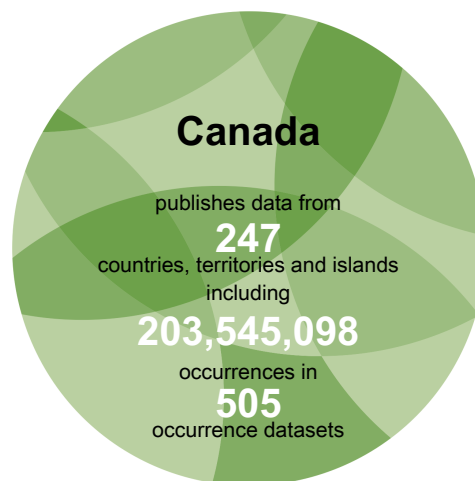


Data mobilization

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



Data sharing with country or area of origin



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

Top data contributors about biodiversity in Canada

Rank	Country or area	No. of occurrences
1	Canada	198,040,444
2	United States of America	7,751,809
3	United Kingdom	2,961,336
4	International organization or unknown country	2,880,190
5	Denmark	1,033,835
6	Germany	423,858
7	France	197,454
8	Sweden	160,289
9	Belgium	81,127
10	Netherlands	66,373

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

Top datasets contributing data about Canada

EOD – eBird Observation Dataset. 169,224,884 occurrences in Canada. (Last updated 29 Oct 2025)

iNaturalist Research-grade Observations. 10,970,132 occurrences in Canada. (Last updated 31 Dec 2025)

International Barcode of Life project (iBOL). 2,724,104 occurrences in Canada. (Last updated 28 Nov 2025)

DFO Pacific: Herring Biosample Database. 1,961,557 occurrences in Canada. (Last updated 23 Mar 2022)

Pacific Multispecies Small Mesh Bottom Trawl Survey. 1,672,179 occurrences in Canada. (Last updated 11 Jul 2025)

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



Canada participates in the following projects coordinated by GBIF

Workshops on usage of the Atlas of Living Australia (ALA) and GBIF.org data portals

Capacity Enhancement Support Programme, 2018–2019

The current project will include two main activities comprising of a series of workshops in Canada and the development of multilingual documentation to help users of the ALA framework and GBIF portal to efficiently use the platforms and tools available, and to understand how to use the published data.

<https://www.gbif.org/project/5PI7kol7h6UKuASqU6CeUo>

Canadensys

, 2016–2016

<https://www.gbif.org/project/82984>

Regional capacity enhancement by setting up Uruguay's data portal

Capacity Enhancement Support Programme, 2015–2016

Project to provide mentorship to Uruguay in establishing a national biodiversity website and data-portal, as well as an efficient data publication workflow.

<https://www.gbif.org/project/82209>

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>

Francophone mentoring and translation of the open-source ALA platform

Capacity Enhancement Support Programme, 2017–2018

Working with GBIF France as a technical mentor, Canadensys will deploy a new instance of the ALA platform while liberally adding French translations to help make this common infrastructure more accessible and visible to GBIF's Francophone nodes.

<https://www.gbif.org/project/83349>

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