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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 downloads on GBIF.org from 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 GBIFmediated 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.

Jain, Cunha, Bunsen *et al.* (2024) Insect Identification in the Wild: The AMI Dataset. *Lecture Notes in Computer Science, Computer Vision – ECCV 2024.* https://doi.org/10.1007/978-3-031-72913-3_4

McCune, Baldwin, Bennett *et al.* (2024) The state of plant conservation in Canada: a survey of practitioners. *FACETS*. https://doi.org/10.1139/facets-2023-0216

Chowdhury, Cardillo, Chapman *et al.* (2024) Protected area coverage of the full annual cycle of migratory butterflies. *Conservation Biology.* https://doi.org/10.1111/cobi.14423

Echeverri, Batista, Wolny *et al.* (2024) Toward Sustainable Biocultural Ecotourism: An Integrated Spatial Analysis of Cultural and Biodiversity Richness in Colombia. *People and Nature.* https://doi.org/10.1002/pan3.10755

Pizante, Frost, Acorn. (2024) New records for hoverflies (Diptera: Syrphidae) in Alberta, Canada. *The Canadian Entomologist.* https://doi.org/10.4039/tce.2024.32

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

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Data availability

Total data available for selected taxonomic groups in Canada



Change over time in records about biodiversity in Canada



WHY MIGHT THE AMOUNT OF MOBILIZED DATA

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.

DECREASE?

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

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Most recent datasets from publishers in Canada

The first record of a gynandromorph Halictus scabiosae (Rossi, 1790) (Hymenoptera: Halictidae). *Published by Specimen Micropublications* https://doi.org/10.56222/28166531.2024.39

DFO Maritimes Biofouling Monitoring Program. *Published by Fisheries and Oceans Canada* https://doi.org/10.25607/gctbuf

A new variant of the rare Phrynocaria funebris (Crotch) (Coleoptera: Coccinellidae), with first illustrations of the female genitalia. *Published by Specimen Micropublications* https://doi.org/10.56222/28166531.2024.38

Beaty Biodiversity Museum Marine Invertebrate Collection. *Published by University of British Columbia* https://doi.org/10.15468/h3psqf

A new case of gynandromorphism in the Halictus simplex species group (Hymenoptera: Halictidae). *Published by Specimen Micropublications* https://doi.org/10.56222/28166531.2024.37

New country record and commentary for Aulacidea hei Wang et al. (Hymenoptera: Cynipidae: Aulacideini). *Published by Specimen Micropublications* https://doi.org/10.56222/28166531.2024.36

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

Newest publishers from Canada

Students on Ice Foundation

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

GBIF.org published by institutions in Canada



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



Data mobilization

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



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	167,659,335
2	United States of America	6,266,978
3	United Kingdom	2,871,949
4	International organization or unknown country	2,773,393
5	France	188,361
6	Sweden	140,898
7	Netherlands	63,686
8	Belgium	52,424
9	Estonia	51,016
10	Norway	46,349

Top datasets contributing data about Canada

EOD – eBird Observation Dataset. *146,121,176* occurrences in Canada. (Last updated 27 Sep 2024)

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iNaturalist Research-grade Observations. *8,436,231* occurrences in Canada. (Last updated 30 Dec 2024)

International Barcode of Life project (iBOL). 2,620,325 occurrences in Canada. (Last updated 7 Aug 2024)

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

Pacific Multispecies Small Mesh Bottom Trawl Survey. 1,946,835 occurrences in Canada. (Last updated 23 Mar 2022)

Table 1. Ranking of countries or areas contributing dataabout Canada

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/5PI7koI7h6UKuASqU6CeUo

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