



Agriculture and  
Agri-Food Canada

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Agroalimentaire Canada



# Canadian Biodiversity Information Facility (CBIF)

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Canada



## That was then: CBIF

- First country-specific portal developed after the creation of GBIF, circa 2001;
- Access to specimen and observation data; taxonomic information; e-resources;
- Oversight through an interdepartmental group: Federal Biodiversity Information Partnership (FBIP).
- Stopped paying GBIF membership in 2012!

# Canadian Biodiversity Information Facility

Canada

 Search[Integrated Taxonomic Information System \(ITIS\)](#)[Species Access Network](#)[Species Bank](#)[Help](#)[Home](#)

## Canadian Biodiversity Information Facility (CBIF)

In support of the [Global Biodiversity Information Facility \(GBIF\)](#), Canada is exploring new ways to improve the organization, exchange, correlation, and availability of primary data on biological species of interest to Canadians. By enhancing access to these data, [CBIF](#) provides a valuable resource that supports a wide range of social and economic decisions including efforts to conserve our biodiversity in healthy ecosystems, use our biological resources in sustainable ways, and monitor and control pests and diseases.

[CBIF](#) provides the following tools to help users find the information they need.

### Integrated Taxonomic Information System (ITIS)

[Integrated Taxonomic Information System \(ITIS\)](#) is a catalogue of common and scientific names and their synonyms that will eventually include all species found in Canada, the United States and Mexico.

Search result pages for individual species include the species nomenclature, synonyms, common names and the taxonomic hierarchy (genus, order, family, etc.). In addition, links to resources automatically search on the pertinent terms for the species you select.

### Species Access Network

[Species Access Network](#) is the Canadian component of a global project to provide Internet access to information associated with the billions of specimens housed in the world's natural history collections. The Canadian network currently incorporates collection records from several repositories; many more will be added over the next few years.

Users can search these collections by species name, source collection, collector, or location.

If you have a specimen database you would like added to Species Access Network, please contact [✉ cbif-scib@agr.gc.ca](mailto:cbif-scib@agr.gc.ca)

### Species Bank

[Species Bank](#) includes a collection of electronic resources that provide detailed information to support the identification of Canadian species including descriptive information, photographs, distribution maps, and more.

#### Priorities



Date modified: 2015-03-27



# CBIF: IPT and Canadensys

Government of Canada / Gouvernement du Canada

Canada.ca | Services | Departments | Français

## Canadian Biodiversity Information Facility (CBIF)

Integrated Taxonomic Information System (ITIS) | Species Access Network | Species Bank | Help

Home > Species Access > Browse Records

### Browse Records

**All 281,250 records**  
(showing only georeferenced records: 280,554)

Map view | Table view | Stats view

Search | Download | Display

**Create a new filter**

Scientific name

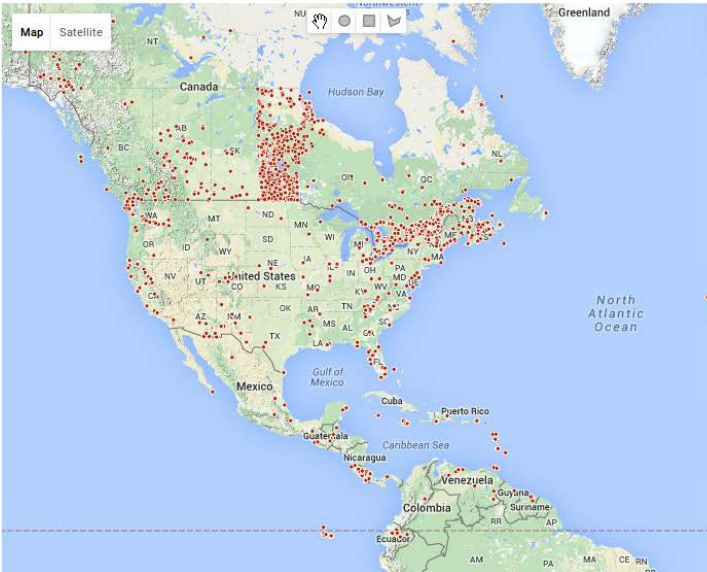
Filter starts with: Add filter

Anthomyiidae	7192
Apallates	7076
Incertella	5553
Chrysotus	5072
Conioscinella	4902
Sphaeroceridae	4702
Paramyia nitens	4212
Olcella	4193
Scatella stagnalis	3962
Rhopalopterum	3799

**Current filters**

No filters selected.

search current filters



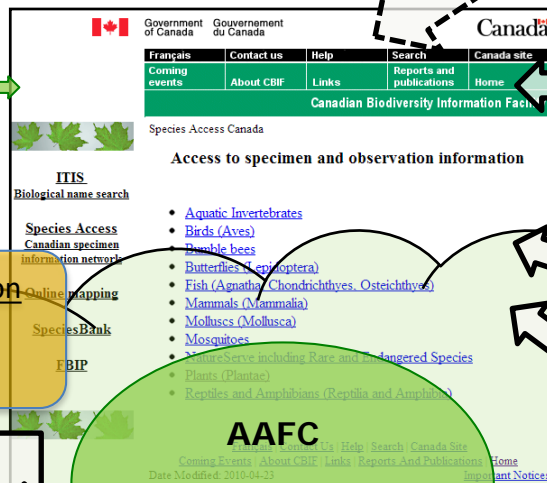
The map displays the distribution of species records across North America, including Canada, the United States, Mexico, and parts of Central America and the Caribbean. Red dots represent individual georeferenced records. The map includes labels for various countries and regions, as well as major bodies of water like Hudson Bay, the Gulf of Mexico, and the North Atlantic Ocean. A legend in the top left corner allows switching between 'Map' and 'Satellite' views.

Global nodes

GBIF

GLOBAL  
BIODIVERSITY  
INFORMATION  
FACILITY

CBIF



Integrated Taxonomic Information  
System (ITIS)  
-US & CDN collaboration

THE FEDERAL GEOSPATIAL PLATFORM  
The Government of Canada's source for geospatial data

Academic Biodiversity Portal

Canadensys

Group-specific  
Aggregators:

MaNIS, OrNIS, FishNet,  
HerpNet, OBIS

Genetic/Genomic  
Aggregators:

GenBank, BOLD,

Federal Biodiversity  
Information Partnership

DFO

CMN

PHAC

EC

CFIA

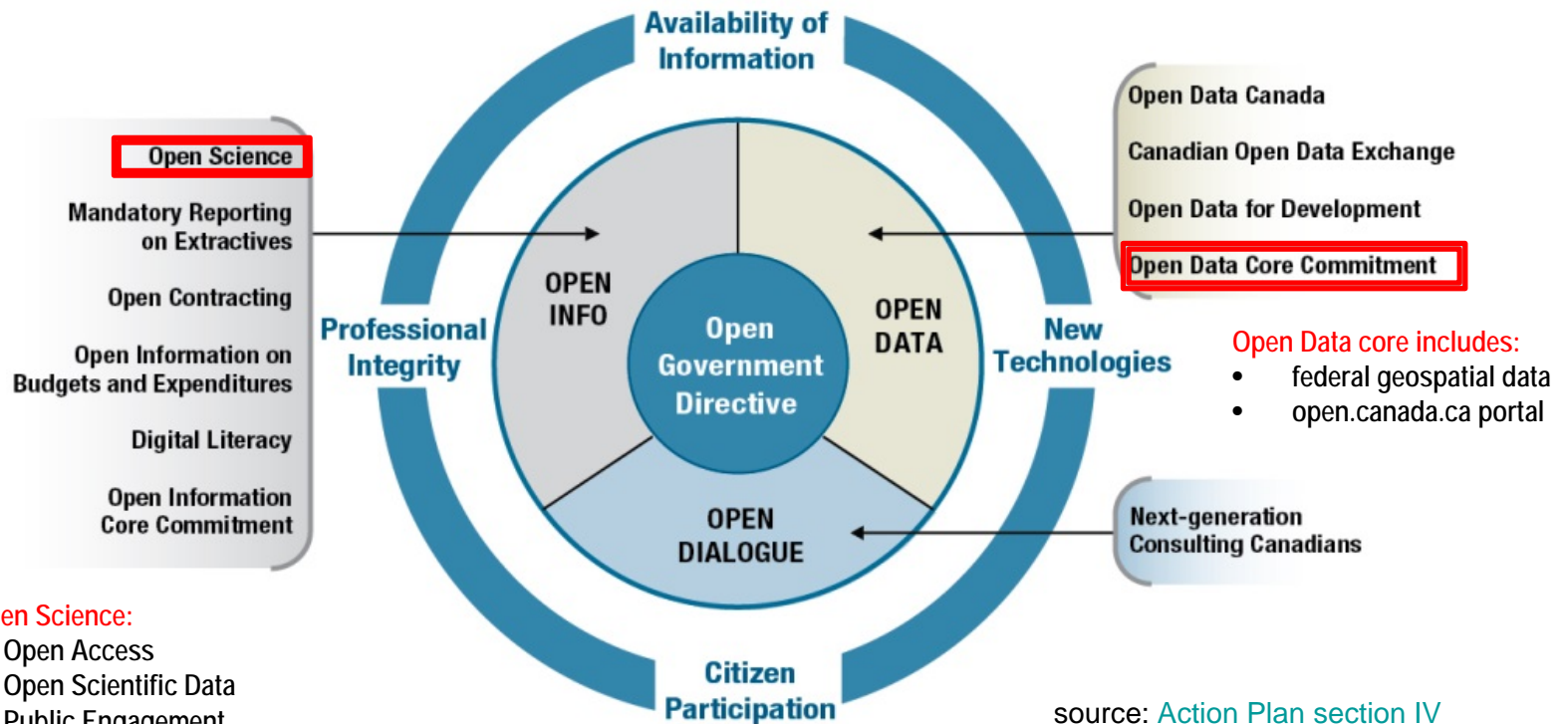
NRCan



# Open Government Action Plan 2

Launched in November 2014, and consists of 12 commitments including **Open Science**:

**“The Government of Canada will maximize access to federally-funded scientific research to encourage greater collaboration and engagement with the scientific community, the private sector, and the public.”**



## ...And this is now: CBIF

- A full member of GBIF again after a 5 year hiatus!
- Change in oversight to the Integration Board via a Committee on Biodiversity and Collections (2015- ).
- 30 million dollars to mobilize AAFC collection data over 6 years...
  - Includes a new portal for dissemination with resources to develop and support it!

# BioMob: Mobilizing Biodiversity Data

Agriculture and Agri-Food Canada (AAFC) is investing \$30 million in Agricultural Science over six years to accelerate the DNA analysis, data capture and imaging of specimens from its collections of over 19 million specimens of insects, plants, fungi, bacteria and nematodes related to these collections. This data will be integrated to improve public accessibility to AAFC's collections. By 2022, label data capture of six collections will be 100% completed as well as 25% of the Canadian National Collection of Insects, Arachnids and Nematodes. Specimen imaging and DNA sequencing will also be significantly increased. This work supports research in climate change, and rapid identification and prevention of threats to agriculture.



# Three Work Packages

## WP1 - Data Capture and Imaging

- Virtual collections;
- Complete digital inventories for every collection;
- Enhanced digital information.

## WP2 - Molecular Characterisation

- Barcodes, partial and complete genome sequences where appropriate;
- Protocols for high throughput sequencing and target enrichment;
- High throughput computer pipelines to process data.

## WP3 - Data Integration and Sharing

- A centralized Collection Management System;
- Knowledge products;
- A new AAFC Biodiversity Portal.



Welcome to the Federal Geospatial Platform (FGP), one-stop access to the Government of Canada's geospatial information. This is the place where you can combine, visualize and analyze geospatial data to support your priorities, and collaborate with your colleagues.

The FGP will continue to evolve as more features and datasets are added by our partners. Come back often to explore and see what's new!

## Getting started

Learn how to use this site to search, download and view geospatial information. Watch videos, follow a tutorial or attend training.

## Access geospatial data

Search the data catalogue to discover and download data.

Search

## Add your data to the catalogue

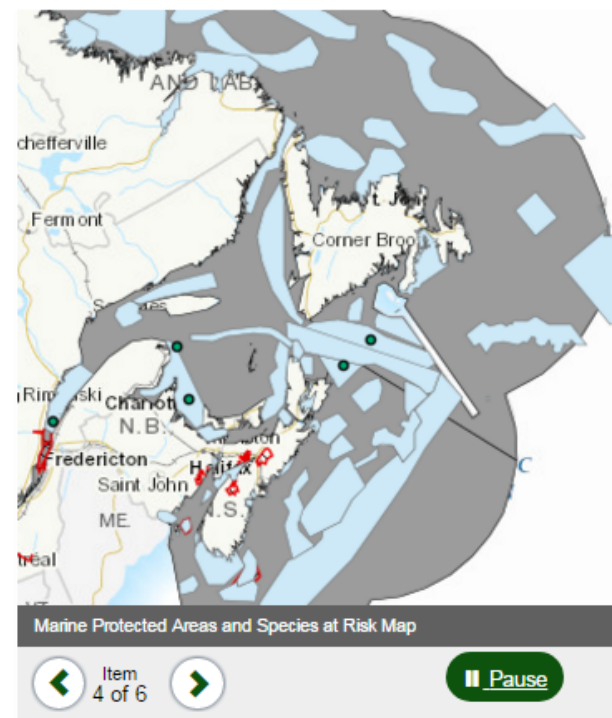
Help others find and use your data. Get an account or sign in to contribute your data.

## Explore our map gallery

Use our gallery of maps to start creating your own maps to meet your needs and then share them with your colleagues.

## Collaborate with your colleagues

Select your data and produce maps jointly in an online environment. [Send us an email](#) if you are interested.





## Future?: CBIF

- Engage all Canadian biodiversity stakeholders
  - Government, Agencies, Academia, Museums, Not-for-Profits, Industry, etc.
- Gather and review the use cases of this diverse set of stakeholders and insure we are providing data/information that is relevant
  - research, education, regulatory, enforcement, policy, legal, industrial/commercial, general public...
- Seek commitment to a national portal that all can contribute to and most importantly, help sustain!

