Global Biodiversity Information Facility (GBIF): open access to biodiversity data enables modelling research

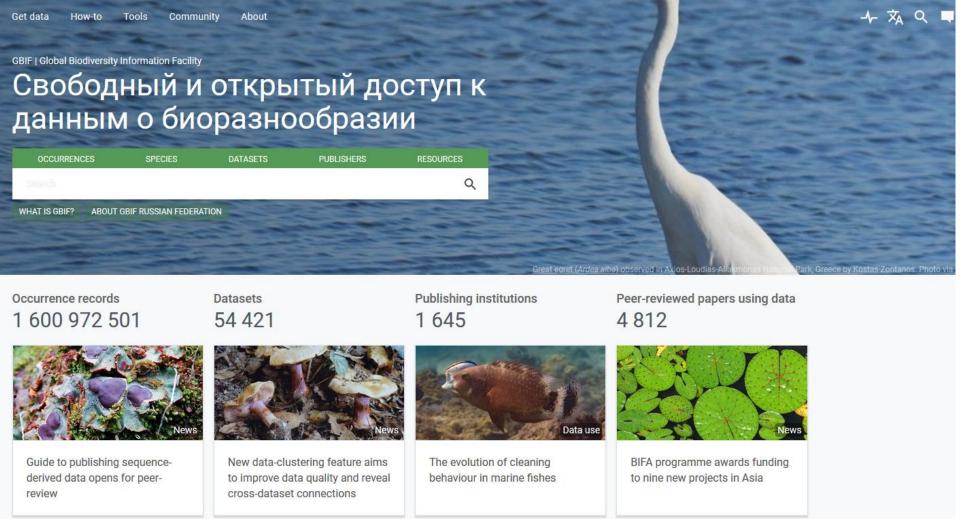
On suggestion of Dmitry Schigel, PhD
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GBIF—the Global Biodiversity Information Facility—is an international network and research infrastructure funded by the world's governments and aimed at providing anyone, anywhere, open access to data about all types of life on Earth.

Coordinated through its Secretariat in Copenhagen, the <u>GBIF network of</u> <u>participating countries and organizations</u>, working through participant nodes, provides data-holding institutions around the world with common standards and open-source tools that enable them to share information about where and when species have been recorded. This knowledge derives from many sources, including everything from museum specimens collected in the 18th and 19th century to geotagged smartphone photos shared by amateur naturalists in recent days and weeks.

The GBIF network draws all these sources together through the use of <u>data standards</u>, such as <u>Darwin Core</u>, which forms the basis for the bulk of GBIF.org's index of hundreds of millions of <u>species occurrence records</u>. Publishers provide open access to their datasets using machine-readable Creative Commons licence designations, allowing scientists, researchers and others to apply the data in hundreds of <u>peer-reviewed publications and policy papers</u> each year.

Terms of use

Agreements, policies and disclaimers relating to access and use of GBIF-mediated data

Data

GBIF does not guarantee the accuracy of the biodiversity data served through GBIF.org and web services. Use of data accessed through the portal and web services is at the user's own risk.

Users must observe the provisions of the <u>data user agreement</u>. Data publishers must observe the provisions of the <u>data publisher agreement</u>.

Data licensing

In 2014, following a community-wide consultation, the GBIF Governing Board established a general policy to "ensure that all species occurrence datasets within the network are associated with digital licenses equivalent to one of...three choices supplied by Creative Commons":

As of August 2016, all open-access species occurrence datasets on GBIF.org carry standardized, machine-readable licences. These changes improve transparency and reproducibility and support GBIF's mission to promot free and open access to biodiversity data.

GBIF provides its open-access infrastructure to support scientific understanding and improve biodiversity and conservation outcomes.

SEARCH DATASETS | 54,421 RESULTS

ALL OCCURRENCE CHECKLIST SAMPLING EVENT METADATA

EOD - eBird Observation Dataset

Occurrence dataset

eBird is a collective enterprise that takes a novel approach to citizen science by developing cooperative partnerships among experts in a wide range of fields: population ecologists, conservation biol...



Published by Cornell Lab of Ornithology

705 008 469 occurrences 153 citations

GBIF Backbone Taxonomy

Checklist dataset

The GBIF Backbone Taxonomy is a single, synthetic management classification with the goal of covering all names GBIF is dealing with. It's the taxonomic backbone that allows GBIF to integrate...

Published by GBIF Secretariat

6 386 369 records 71 citations

Catalogue of Life

Checklist dataset

This release of the Catalogue of Life contains contributions from 173 databases with information on 1,900,983 species, 161,499 infraspecific taxa and also includes 1,710,092 synonyms and 437,994 commo...

Published by The Catalogue of Life Partnership

3 972 706 records 7 citations

NCBI Taxonomy

Checklist dataset

The NCBI taxonomy database is not a primary source for taxonomic or phylogenetic information. Furthermore, the database does not follow a single taxonomic treatise but rather attempts to incorporate p...

Published by National Center for Biotechnology Information (NCBI)

3 009 417 records 1 citation

International Plant Names Index

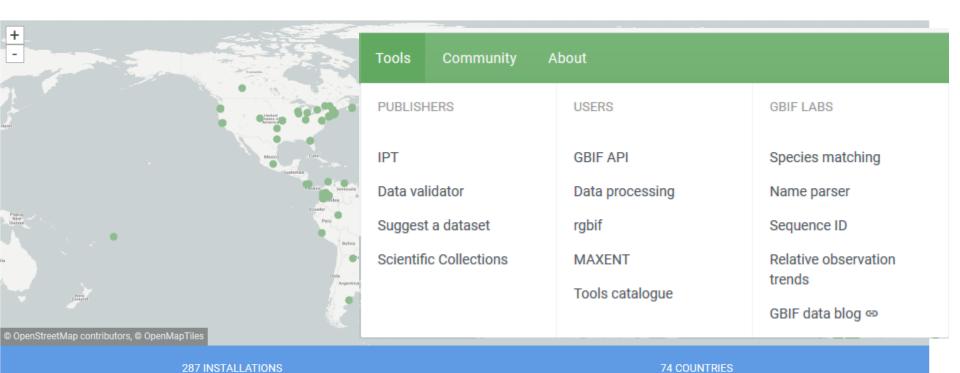
Checklist dataset

The International Plant Names Index (IPNI) is a database of the names and associated basic bibliographical details of seed plants, ferns and lycophytes. Its goal is to eliminate the need for repe...

Published by The International Plant Names Index Collaborators

IPT: The Integrated Publishing Toolkit

A free open source software tool used to publish and share biodiversity datasets through the GBIF network.



207 INSTALLATIONS 74 000N

Don't see your IPT? Send GBIF your coordinates.

About the IPT

The Integrated Publishing Toolkit (IPT) is a free open source software tool written in Java that is used to publish and share biodiversity datasets through the GBIF network. The IPT can also be configured with a DataCite account in order to assign DOIs to datasets transforming it into a data repository.

To understand how the IPT works, try watching this concise 25 minute live demo showing how a dataset gets properly published and registered through GBIF.org:

The resource should facilitate your work!