

Introduction to GBIF and the Integrated Publishing Toolkit

18 March 2025



What is GBIF?

The Global Biodiversity Information Facility is an international network and data infrastructure funded by the world's governments and aimed at providing anyone, anywhere, open access to data about all types of life on Earth.



GBIF



[Was embedded video. Can be found at <https://vimeo.com/661945151>, GBIF.]





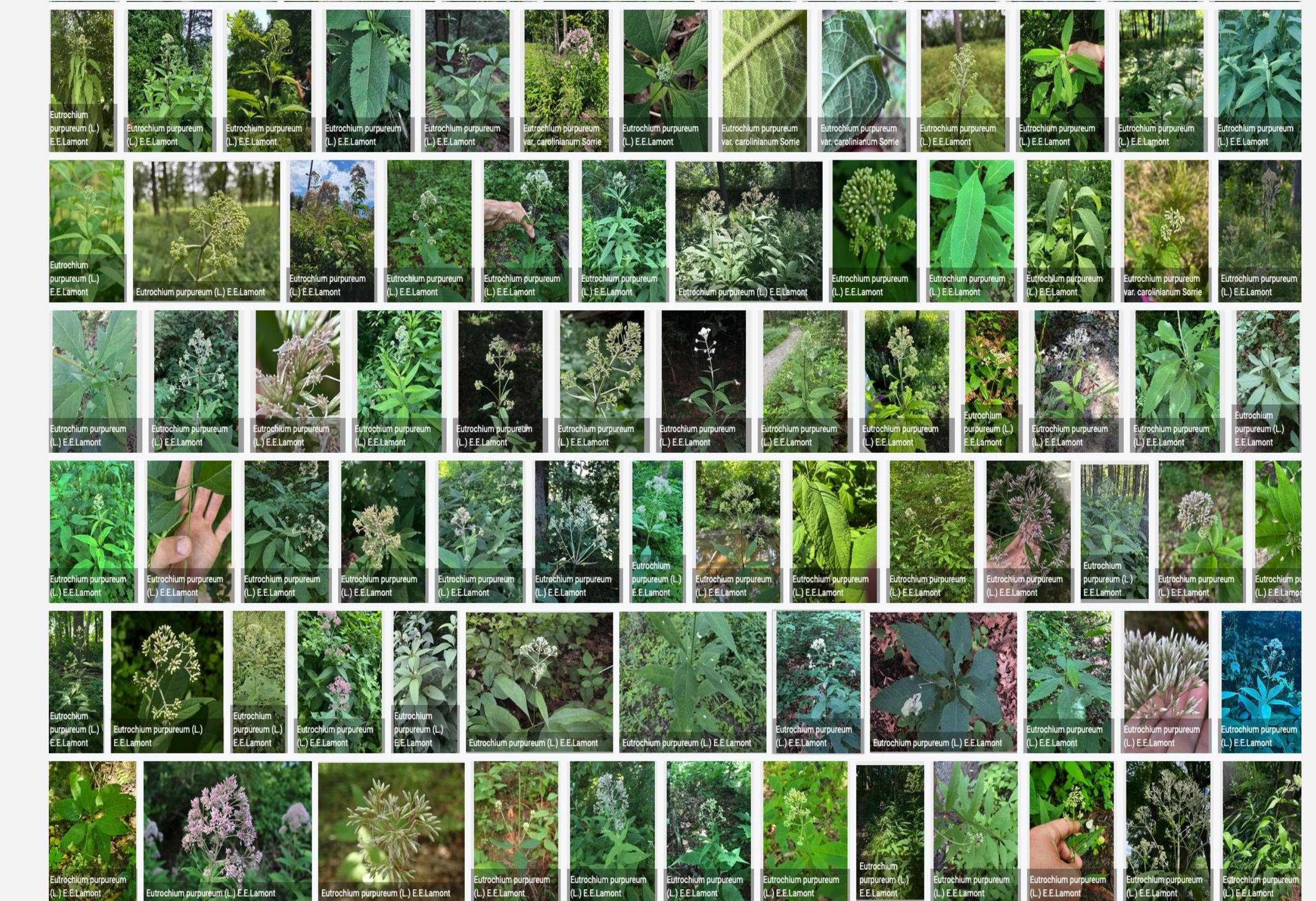
Species occurrence records with multimedia evidence

213.5 million records with
taxonomically identified images

- 139.4 million human observations
- 64.4 million specimens
- 7.1 million material samples
- 1.4 million fossil specimens

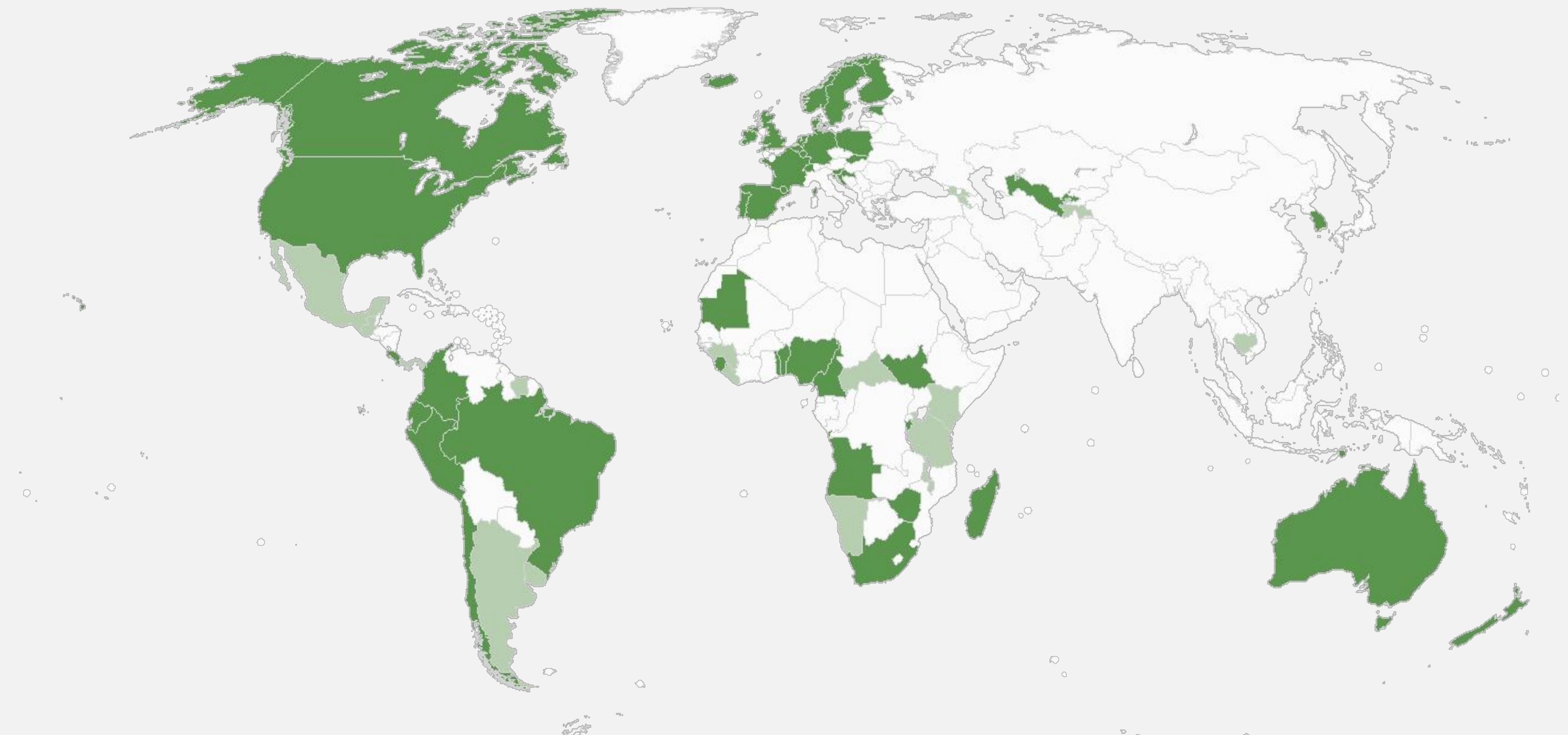
1,550,131 audio files

11,368 videos



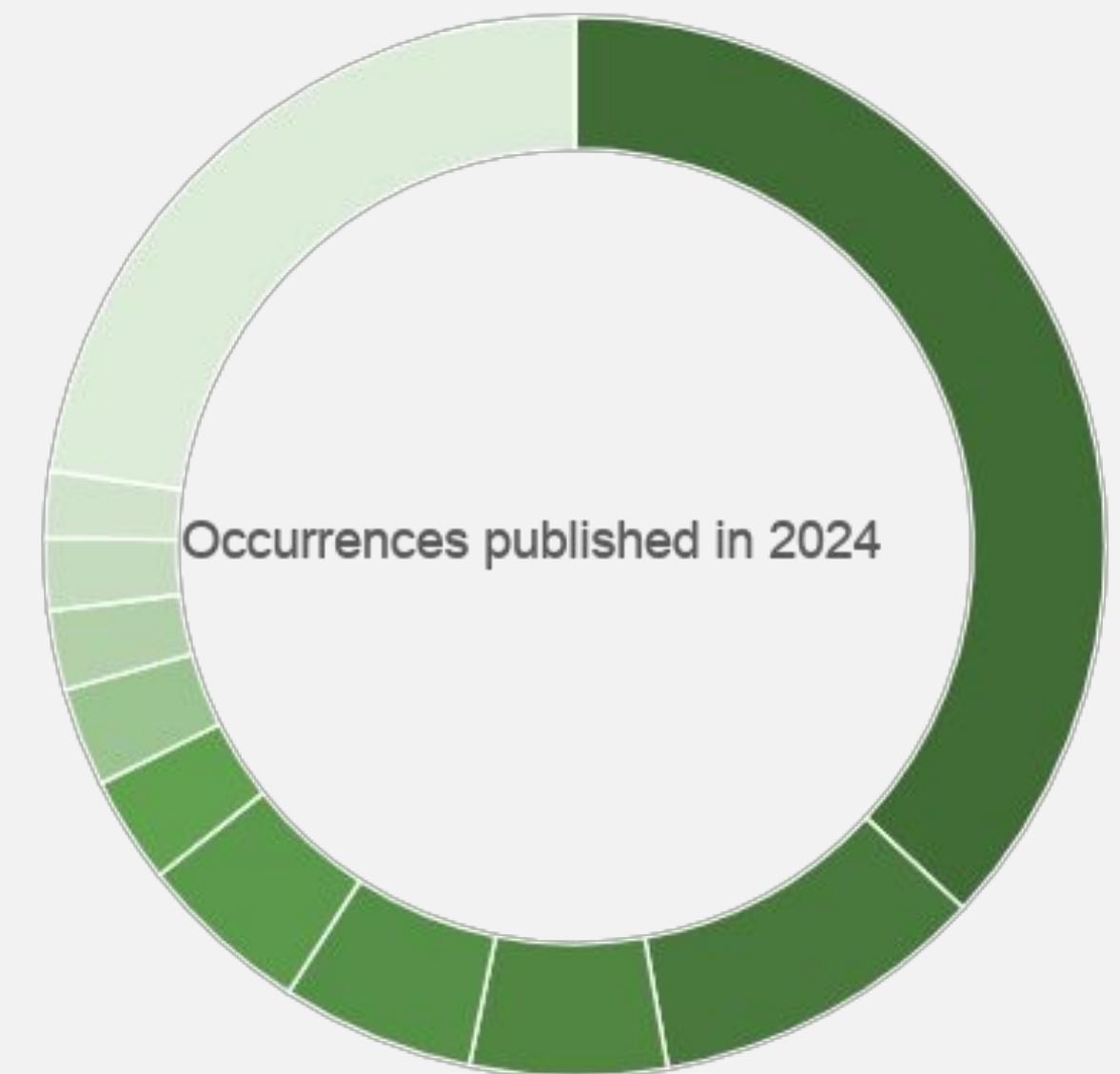
GBIF Participant countries and Nodes

- Voting Participants
- Associate Participants



Occurrences published by country: 2024

Rank	Country/Territory	2024	2023 total	2023 rank
1	United States	158,323,610	151,004,708	1
2	France	43,910,491	13,208,845	5
3	Sweden	25,696,307	9,339,841	7
4	Netherlands	25,251,786	14,293,849	4
5	Canada	22,530,128	22,744,659	3
6	Australia	14,003,238	12,714,959	6
7	United Kingdom	12,938,043	36,220,446	2
8	India	10,369,964	8,542,437	9
9	Spain	9,429,667	7,633,366	8
10	Poland	8,675,622	2,600,757	22
OTHER COUNTRIES + AREAS		97,322,395	81,266,325	
TOTAL		428,451,251	355,993,458	

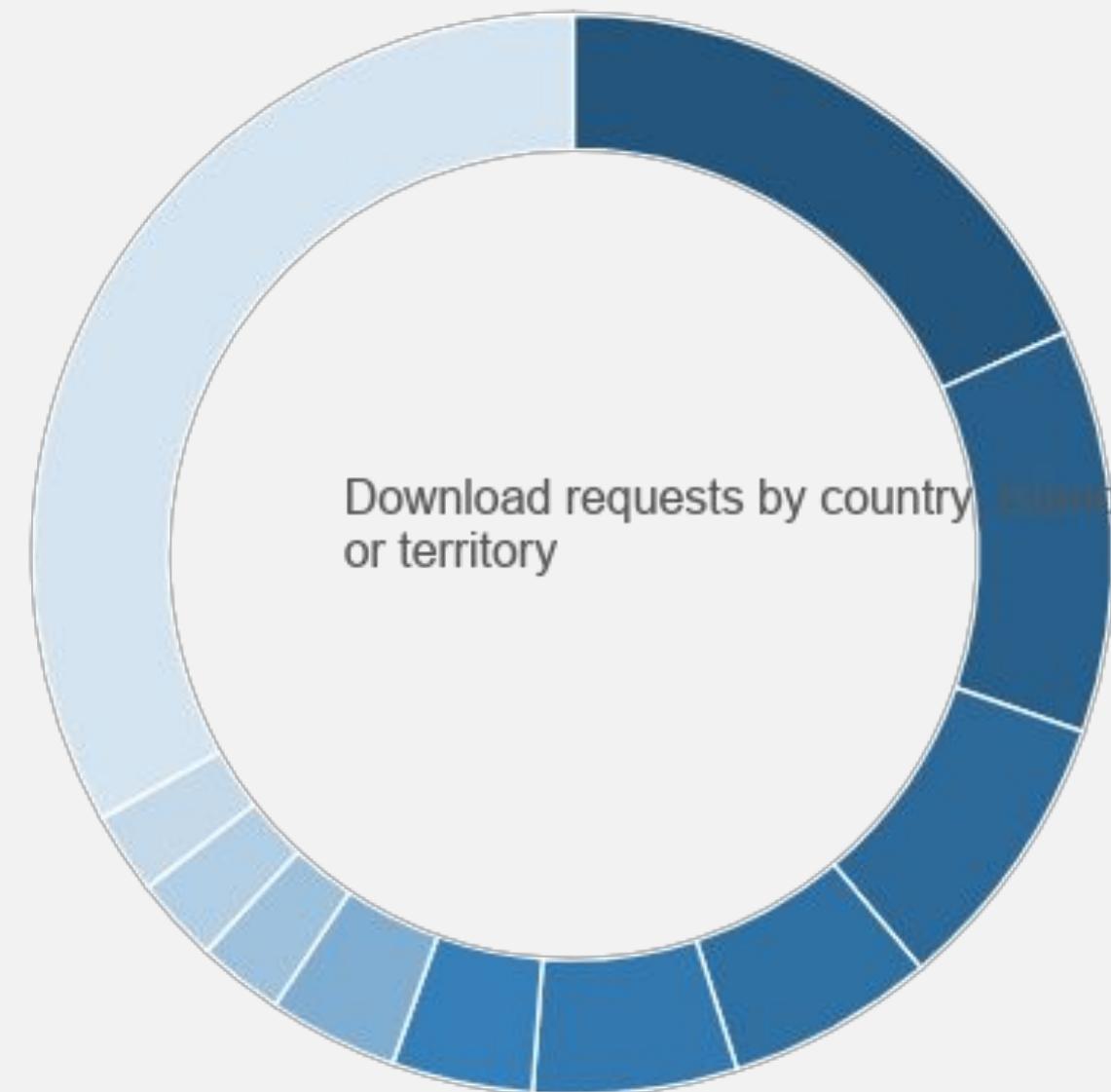


Data download requests by country: 2024

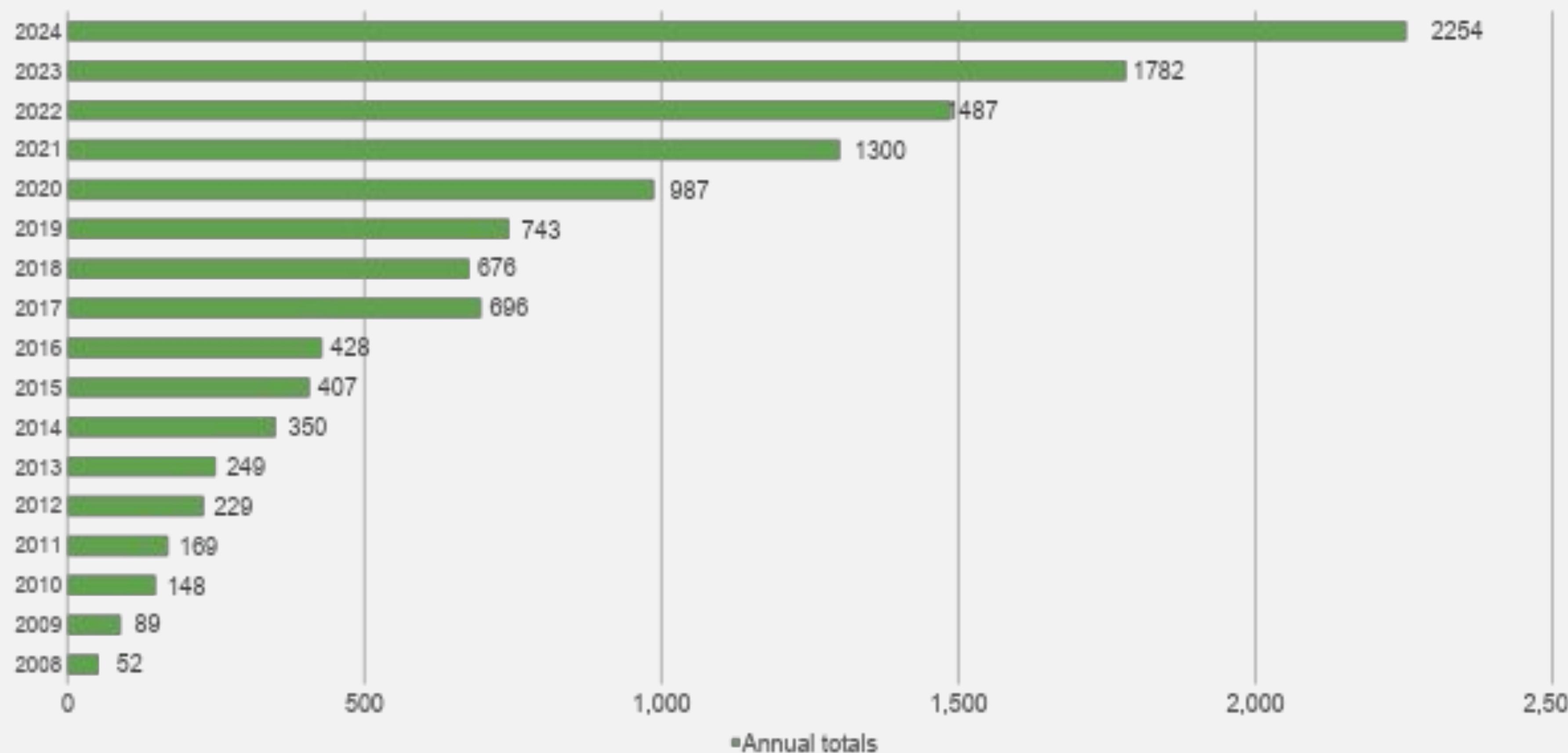
Rank	Country	2024	2023 total	2023 rank
1	China	63,485	39,253	1
2	United States	41,921	34,275	2
3	Mexico	29,712	26,051	3
4	Colombia	21,641	19,341	4
5	Brazil	21,274	18,370	5
6	Spain	14,704	13,492	6
7	United Kingdom	13,502	10,044	7
8	Canada	8,946	6,649	9
9	France	8,872	7,248	8
10	Germany	8,558	5,788	10
OTHER COUNTRIES + AREAS		115,002	87,262	
TOTAL		347,717	267,773	

157

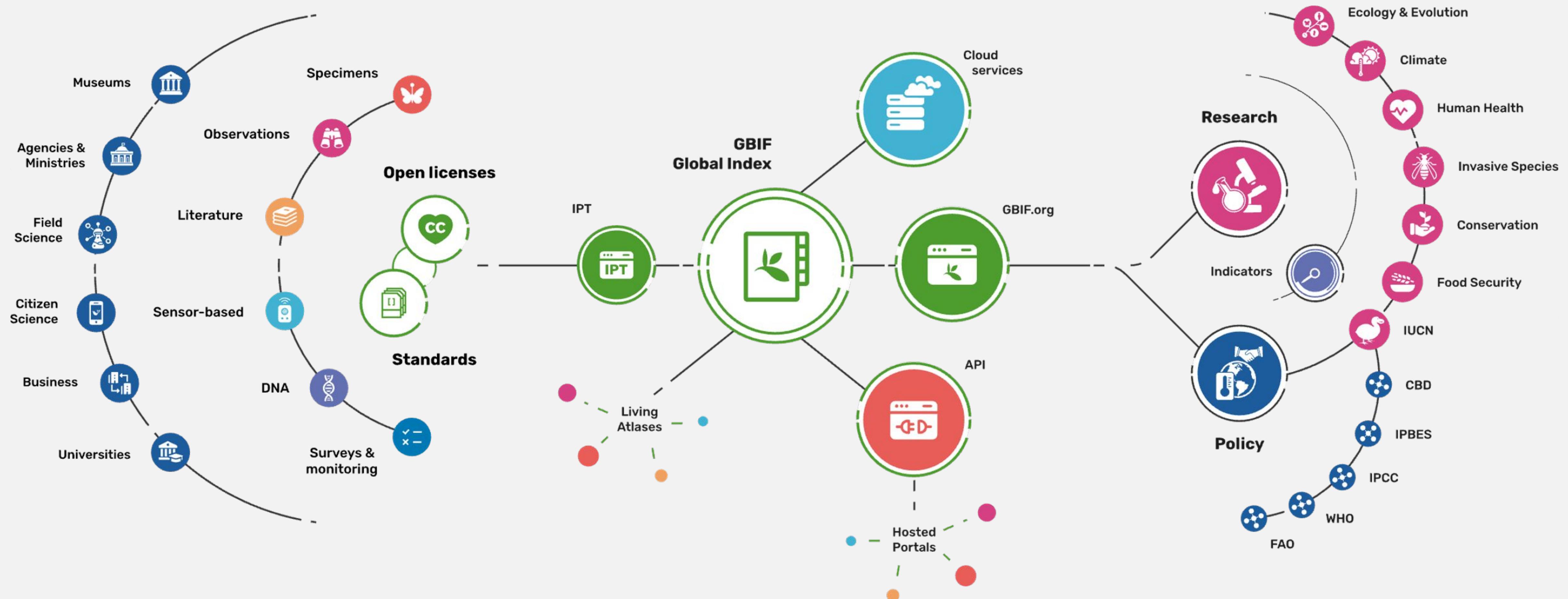
countries, islands & territories where users have ≥ 10 requested downloads



Peer-reviewed publications using GBIF-mediated data



Providing biodiversity evidence for research and policy



What is the IPT?

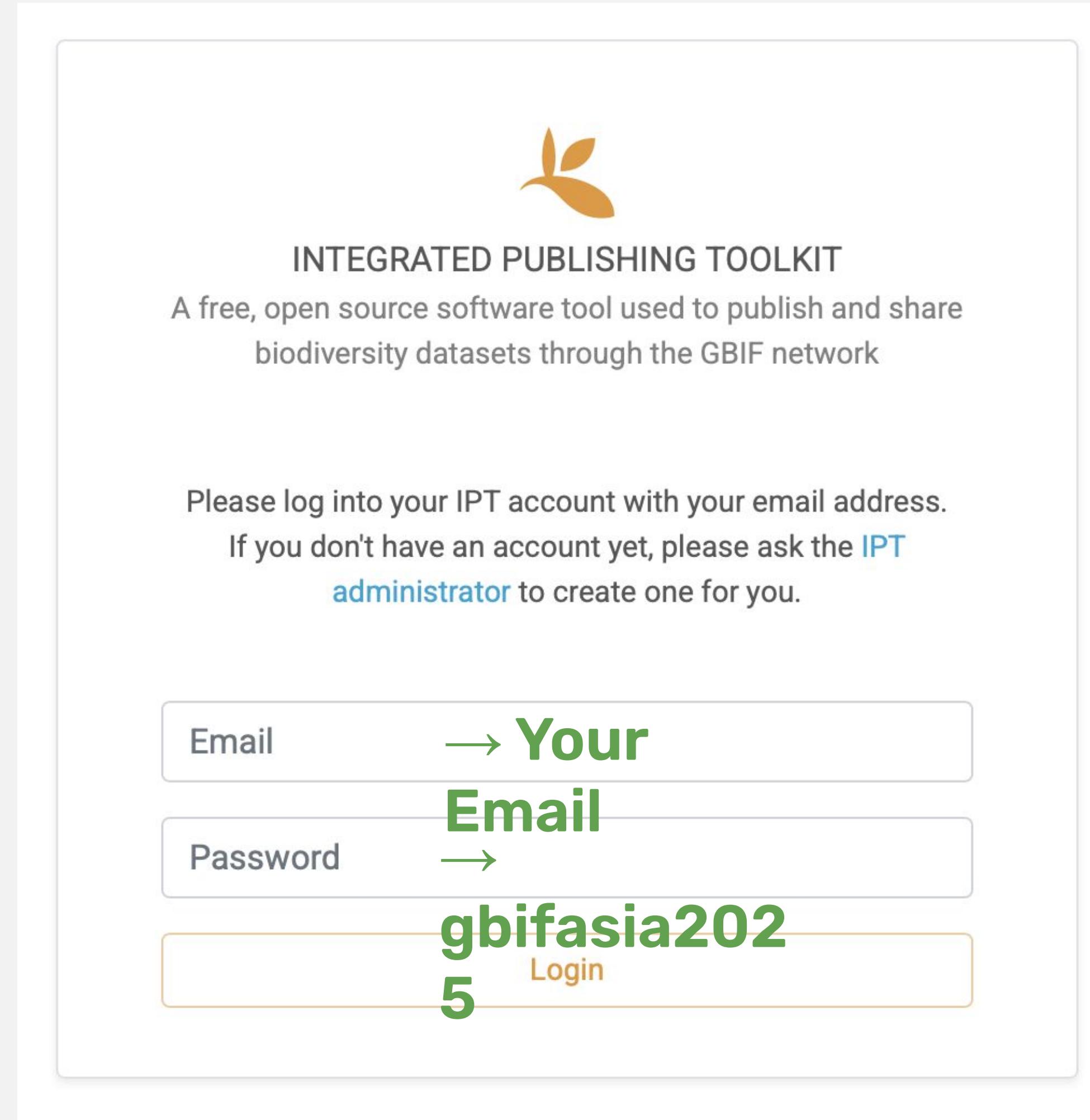
The Integrated Publishing Toolkit is free open-source software developed by GBIF and used by organizations around the world to create and manage repositories for sharing biodiversity datasets.



GBIF

Used by GBIF, OBIS, VertNet, iDigBio, and many other data aggregators.





training-ipt-b.gbif.org/login.do

TEST MODE

Home About

Login

INTEGRATED PUBLISHING TOOLKIT

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

Please log into your IPT account with your email address.
If you don't have an account yet, please ask the IPT administrator to create one for you.

Email

Password

Login

GBIF Integrated Publishing Toolkit (IPT) Version 3.1.4

About the IPT | User manual | Report a bug | Request new feature

GBIF logo

The screenshot shows the actual IPT login page. It includes the 'TEST MODE' header, navigation links for 'Home' and 'About', and a 'Login' button. The main content area contains the same descriptive text and instructions as the graphic. It also features three input fields: 'Email', 'Password', and 'Login'. The 'Email' field is highlighted with a green border, matching the graphic's design. The overall layout is clean and professional, typical of a web-based application.



training-ipt-b.gbif.org/training-ipt-b/

TEST MODE

Home Manage Resources Administration About

Hosted resources available through this IPT

172 resource(s) currently available

Filter:

Logo	Name	Organization	Type	Subtype	Records	Last modified	Last publication	Next publication
-	03 Kumiko Totsu	Training Organization	Occurrence	Specimen	760	2023-08-11 04:45:16	2023-08-11 04:44:13	-
-	03_Min-Hsuan Ni_UC1 Herbarium practice	Training Organization	Occurrence	Specimen	760	2023-09-02 04:17:34	2023-08-22 07:28:37	-
-	03_Min-Hsuan Ni_UC2 Invasive species practice	Training Organization	Checklist	-	21	2023-08-31 09:04:50	2023-08-31 09:04:15	-
-	03_Min-Hsuan Ni_UC3 Data Mobilization Project from Literature_practice	Training Organization	Occurrence	Observation	1,212	2023-09-03 02:46:23	2023-09-02 15:46:05	-
-	04_Denish_Kubavat_Invasive species practice	Training Organization	Checklist	Observation	21	2024-07-27 17:30:32	2024-07-26 20:46:07	-
-	04_Denish_Lepidoptera sampling across countries	Training Organization	Sampling event	-	197	2024-07-27 19:20:19	2024-07-27 19:20:21	-
-	2023-AMV-shiva	Training Organization	Sampling event	-	3	2023-11-25 07:57:04	2023-11-25 07:57:09	-
-	2024 TaiBIF workshop demo	Training Organization	Occurrence	-	760	2024-07-05 04:28:41	2024-07-05 04:27:44	-
-	21 Invasive species of Big island, Hawaii	Training Organization	Occurrence	-	872	2021-12-14 05:57:01	2021-12-14 05:57:10	-
-	A Data Mobilization Project in a Regional Herbarium	Training Organization	Occurrence	Specimen	760	2024-07-05 04:57:41	2024-07-05 04:57:45	-

Showing 1 to 10 of 172

previous [1](#) [2](#) [3](#) [4](#) [5](#) ... [18](#) next

The most recently updated resources are also available as an [RSS feed](#).

i Source Data

Your source data files and SQL sources for generating a Darwin Core Archive.

i Visibility

This resource is private to managers. To make this resource available to everyone, please make it public.

i Darwin Core Mappings

Your mapping between the source data and Darwin Core terms.

i Publication

Publishing Organization:

A preview of your pending published version compared with the current version if existing.

i Version 1.0
Next publication date not set
PENDING No license set

i Metadata

Incomplete Your resource metadata.

i Registration

TEST MODE

Home Manage Resources Administration About

Manage / Overview

training_intro

Occurrence Private created by Chihjen Ko on Feb 13, 2025

Delete Cancel

Resource overview. Upload or connect to source data, map data to Darwin Core, complete metadata, publish the resource and register it with the GBIF network.

Source Data **i** Source Data Your source data files and SQL sources for generating a Darwin Core Archive. + Add

Darwin Core Mappings **i** Darwin Core Mappings Your mapping between the source data and Darwin Core terms. + Add

Metadata **i** Metadata Incomplete Your resource metadata. Download Upload Edit

Visibility **i** Visibility This resource is private to managers. To make this resource available to everyone, please make it public. Change

Publication **i** Publication Publishing Organization: Publish

A preview of your pending published version compared with the current version if existing.

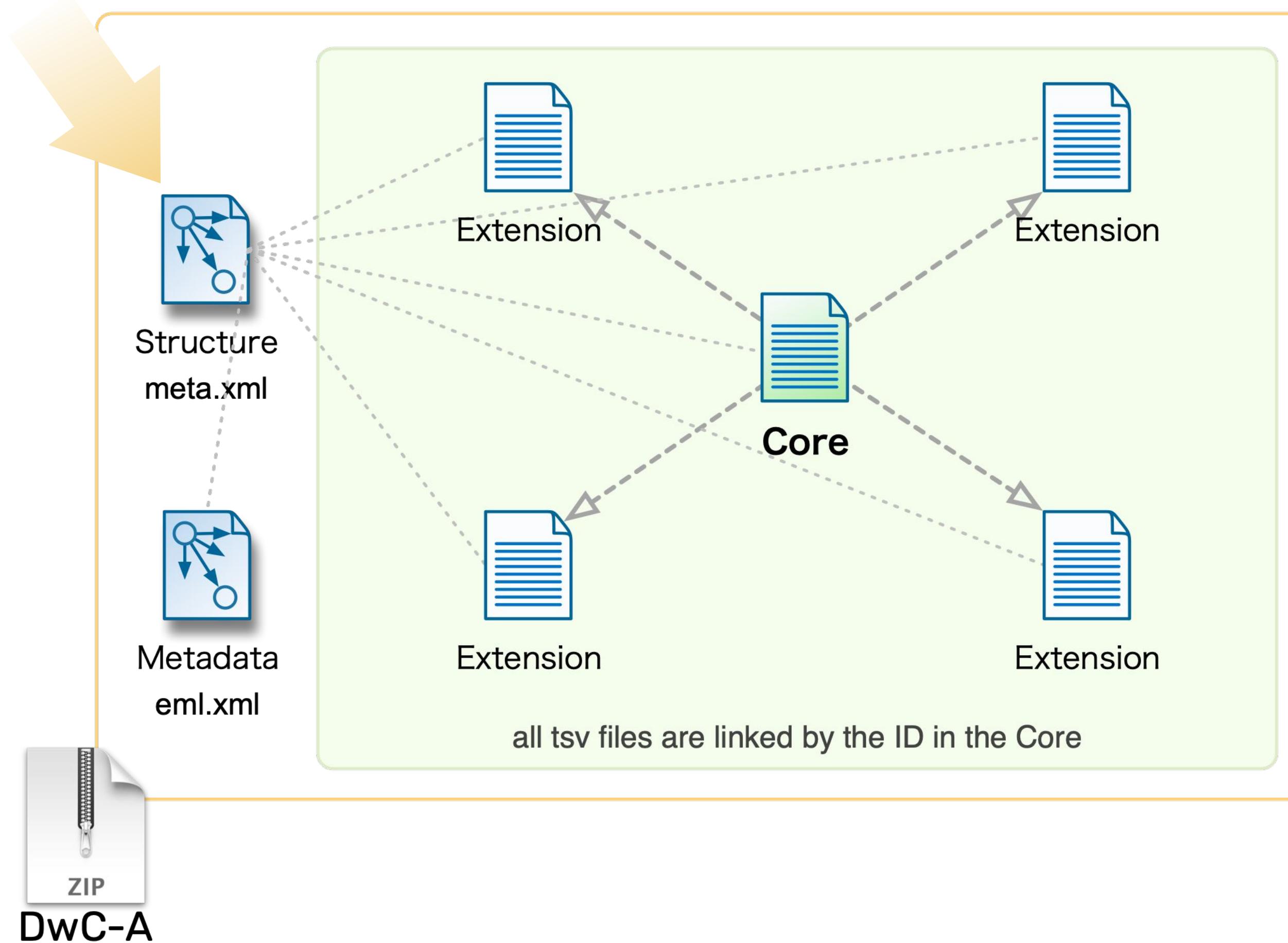
i Version 1.0
Next publication date not set
PENDING No license set

Registration **i** Registration Register

Resource is not registered and thus not globally discoverable through the GBIF website.

Auto-publishing

IPT Helps Construct **Darwin Core Archive, a dataset**



- *Darwin Core Mappings* in IPT is the user interface for creating the structure file (`meta.xml`).
- The structure file specifies what concepts (fields) are provided from which data file in the archive.



① Publication → producing DwC-A

Publishing Organization: *Training Organization* [Change](#)

A preview of your pending published version compared with the current version if existing.

Version 1.0
Published on 25 Jul 2024, 15:18:01

CURRENT CC-BY 4.0

Version 1.1
Published on 28 Jul 2024, 1

PENDING CC-BY 4.0

TaiBIF 臺灣生物多樣性資訊機構
Taiwan Biodiversity Information Facility

Home About

問題回報 申請帳號 Login

Home / Resource

Dataset of long-term bird monitoring in Qigu wetlands, Taiwan

Sampling event

Latest version published by Taiwan Biodiversity Research Institute on Nov 9, 2023

Download the latest version of this resource data as a Darwin Core Archive (DwC-A) or the resource metadata as EML or RTF:

GBIF UUID: 346c95be-c7b3-41dc-99c9-e88a18d8884a

Data as a DwC-A file
Metadata as an EML file
Metadata as an RTF file

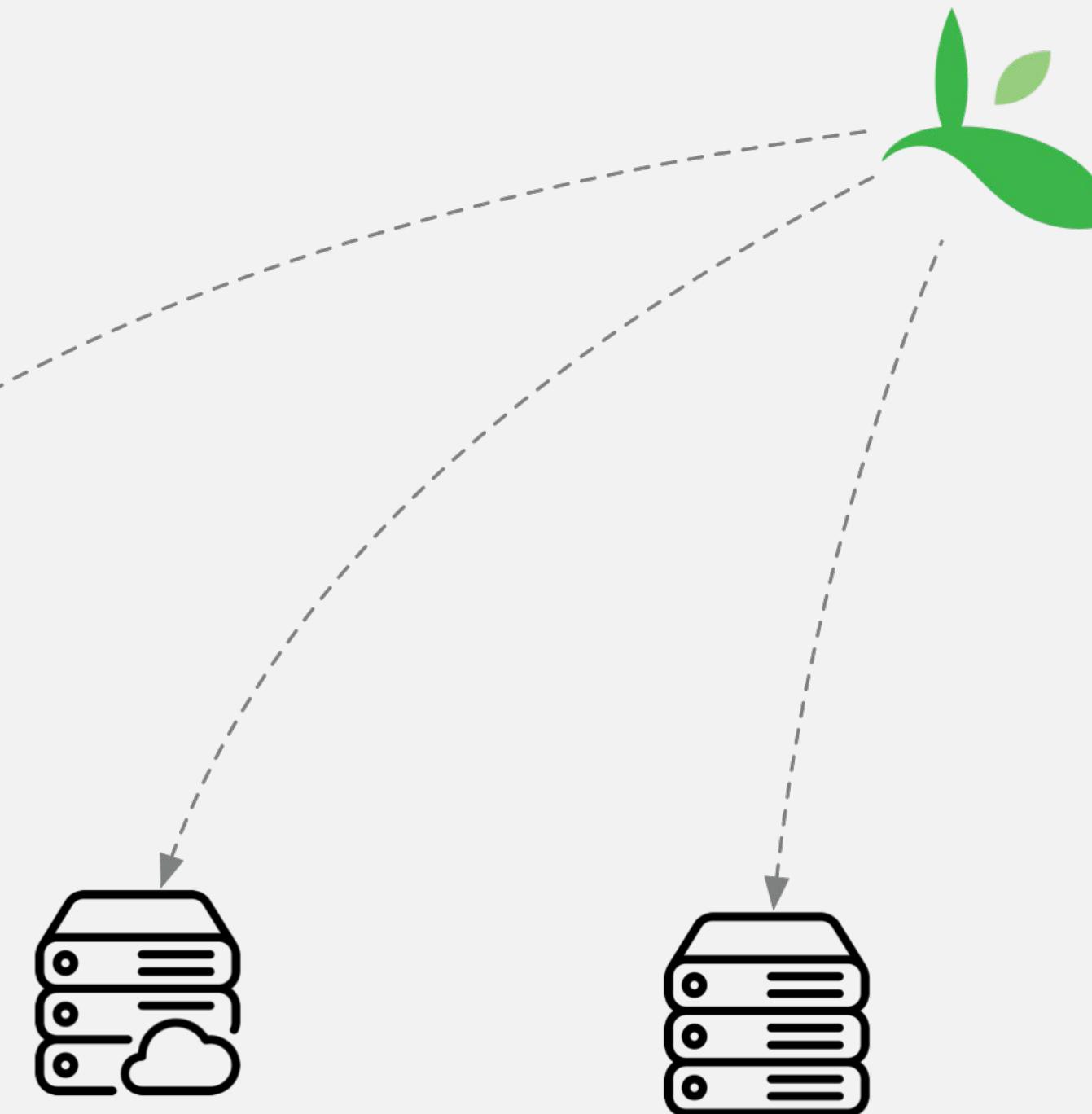
Download the latest version of this resource data as a Darwin Core Archive (DwC-A) or the resource metadata as EML or RTF:

Data as a DwC-A file
Metadata as an EML file
Metadata as an RTF file

[Download 432 records in English \(193 KB\)](#) - Update frequency: unknown
[Download in English \(18 KB\)](#)
[Download in English \(15 KB\)](#)



Description
Data Records
Versions
Rights
GBIF Registration
Keywords
Contacts
Geographic Coverage
Taxonomic Coverage
Data Download



www.gbif.org



ⓘ Registration

→ for GBIF to include in **the global index**



www.gbif.org

The screenshot shows the TaiBIF IPT (Darwin Core Archive) page for a dataset of long-term bird monitoring in Qigu wetlands, Taiwan. The top navigation bar includes links for Home, About, Login, and language selection (Traditional Chinese). The main content area displays the dataset title, sampling event information, and download links for Darwin Core Archive (DwC-A), EML, and RTF files. A large yellow arrow points from the dataset page towards the right side of the slide.



TaiBIF IPT
<https://ipt.taibif.tw/>



GBIF Cloud IPT Asia
<https://cloud.gbif.org/asia>

GBIF UUID: [346c95be-c7b3-41dc-99c9-e88a18d8884a](#)
Publication date: 9 November 2023
Published by: [Taiwan Biodiversity Research Institute](#)
License: [CC-BY 4.0](#)

Description
Data Records
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Rights
GBIF Registration
Keywords
Contacts
Geographic Coverage
Taxonomic Coverage
Data Records

Description

Qigu District, located on the southwest coast of Taiwan, is full of natural and artificial wetlands and therefore one of the important along the East Asian–Australasian Flyway (EAAF). For conservation and academic purposes, Taiwan Endemic Species Research Institute (TESRI) (currently known as Taiwan Biodiversity Research Institute, TBRI) initiated a long-term bird monitoring project in wetlands southwestern Qigu in 2015. In the period of April 2015 to March 2021, bird censuses were conducted once a month at 6 sampling resulting in 432 sampling events and 11,533 occurrence records. A total of 100,601 individual counts, grouped into 120 species or families, were recorded. The most dominant family is Ardeidae, followed by Scopacidae, Anatidae, Recurvirostridae and Charadr project is still in progress and the dataset may be updated irregularly in the future.

Global IPT Installations



366 INSTALLATIONS

83 COUNTRIES



Thank you

Contact me with questions or for support.

David Bloom | dbloom@vertnet.org

