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Data citation and GBIF powered literature

Dmitry Schigel | Scientific officer



Biodiversity data in montane and arid Eurasia
Almaty, Kazakhstan

18-19 November 2024

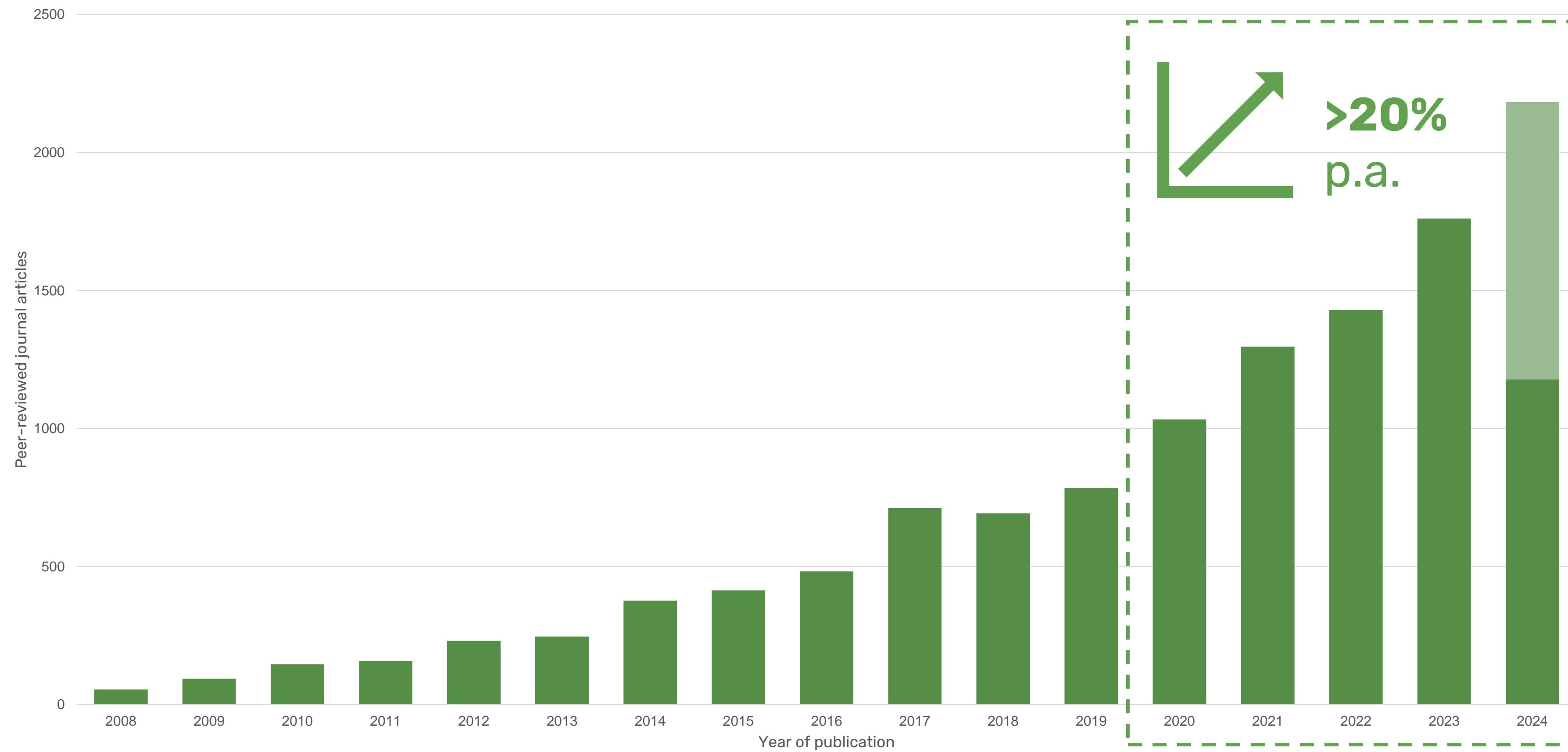


Why track citations?

- Knowledge of where, when, how and by whom data is used
- Evidence of the impact
- Credit to data publishers
- Started in 2010
- Optimized, streamlined and automated since 2017

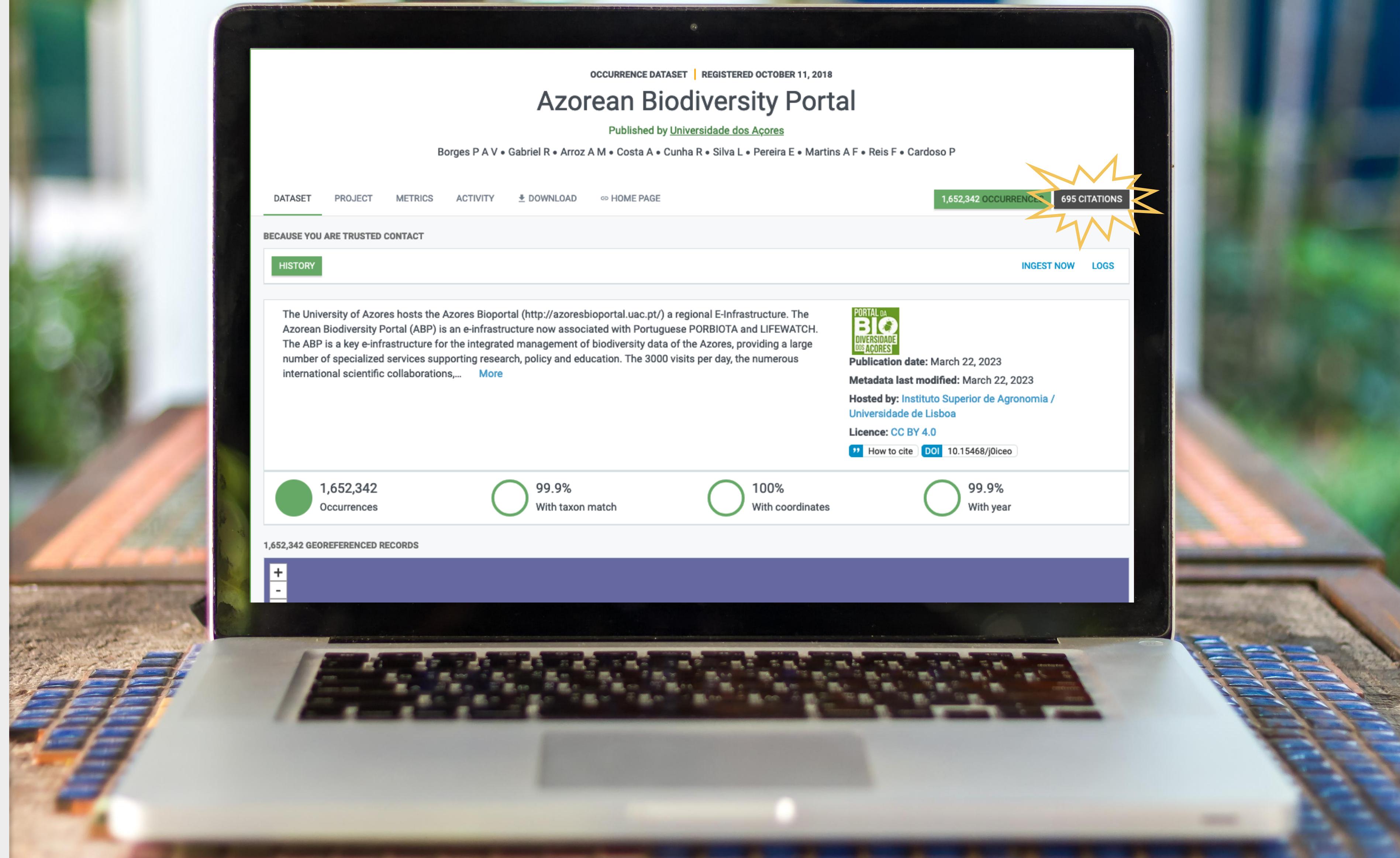


Use of GBIF-mediated data in research



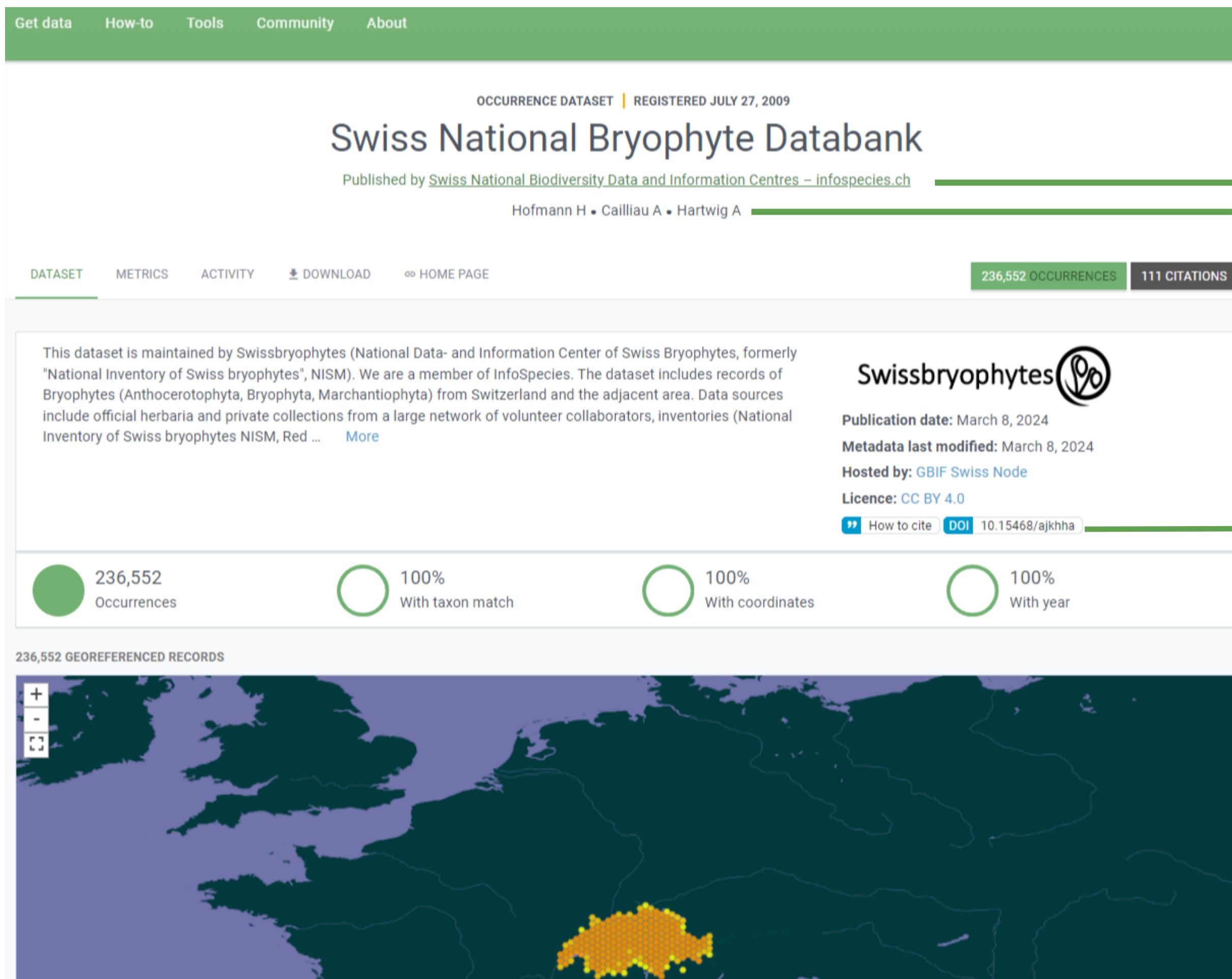
Data citations: All about the DOIs

- **DOIs** for datasets
- **DOIs** for downloads
- **DOIs** for derived datasets
- Paper → (download) → dataset(s)
- Dataset citations



Data in 108,709 datasets: attribution, credit and affiliation

Get data How-to Tools Community About



1

Affiliation

2

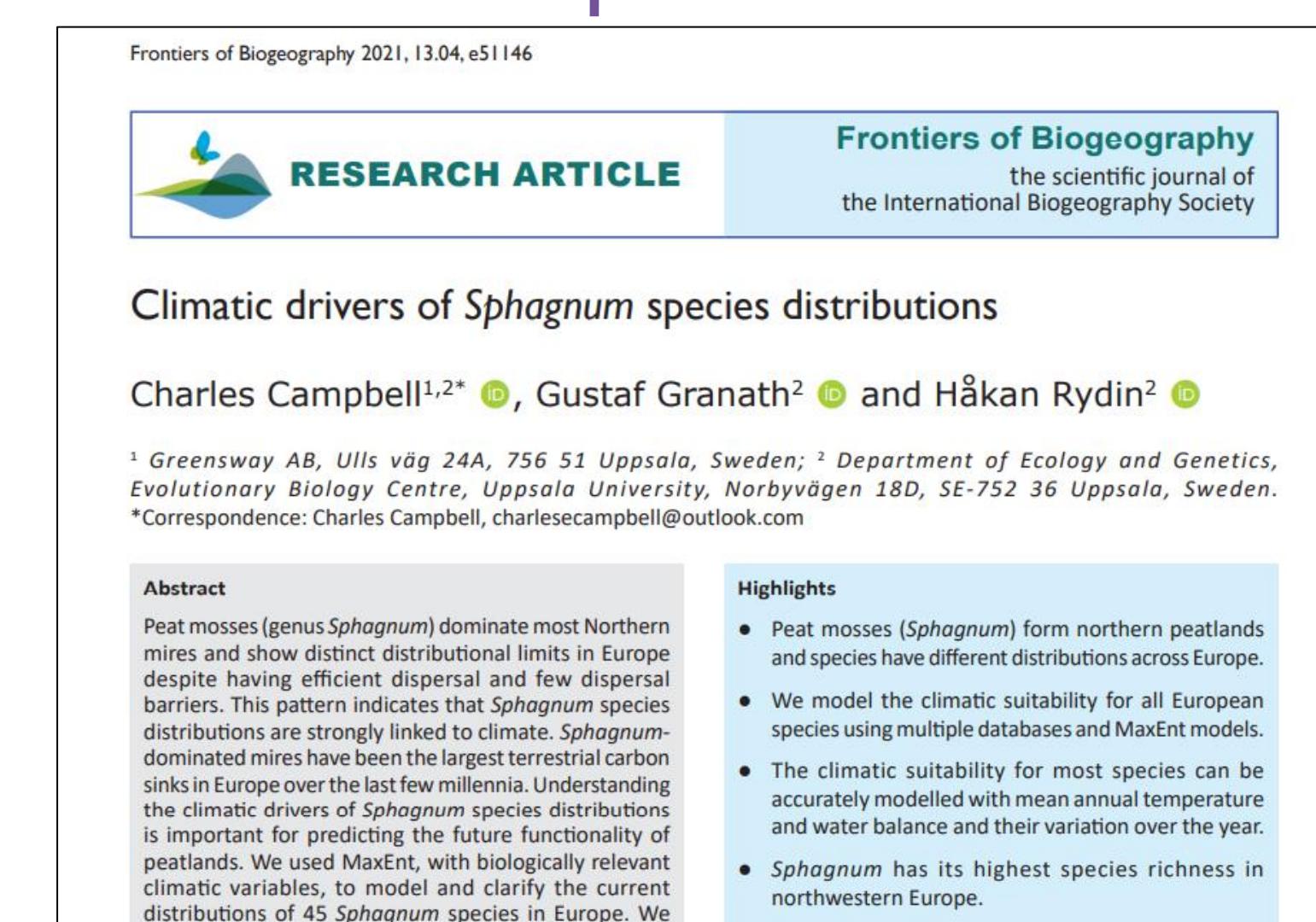
Authorship

3

Data citations

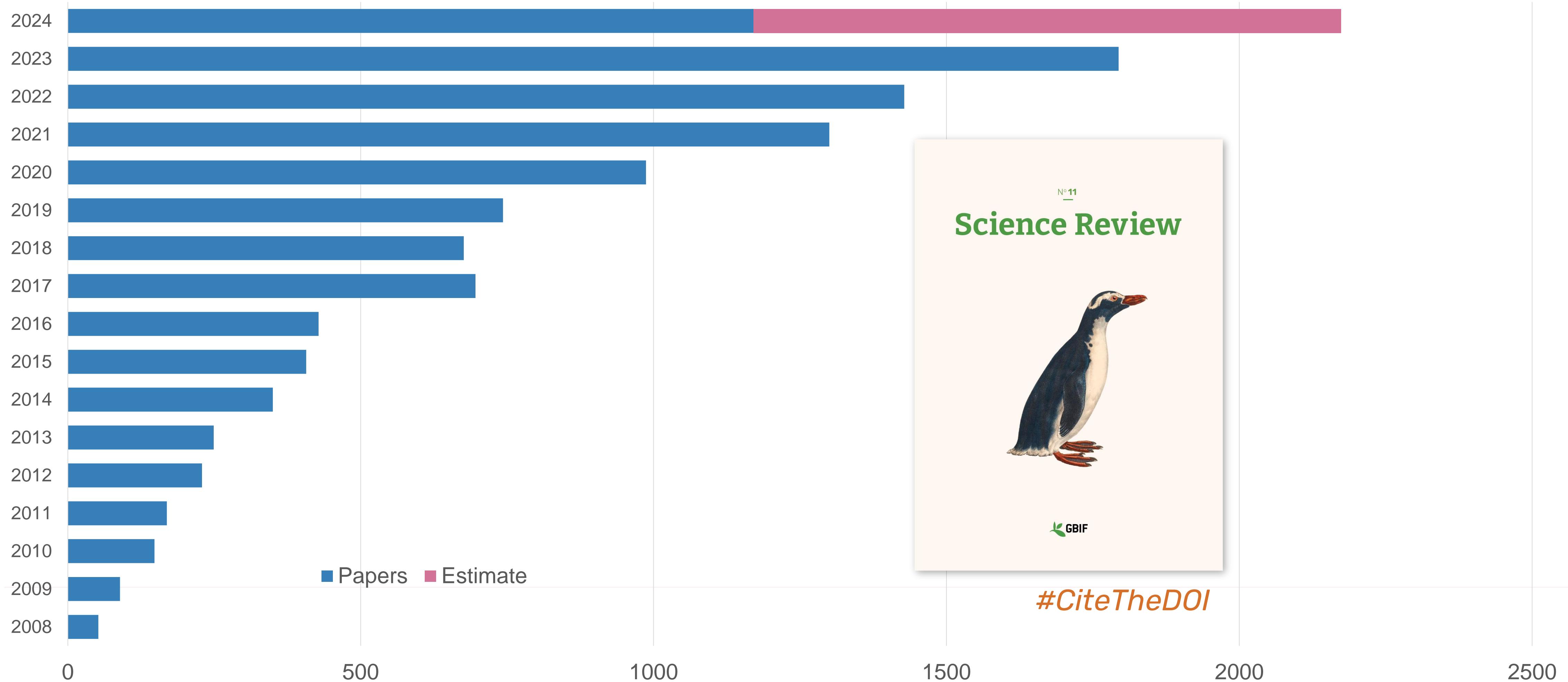
4

DOI



Hofmann H, Kiebacher T, Moser T, Meier M (2021). Swiss National Bryophyte Databank. Swiss National Biodiversity Data and Information Centres – infospecies.ch. Occurrence dataset <https://doi.org/10.15468/ajkhha> accessed via GBIF.org on 2022-04-28.

Peer-reviewed publications using GBIF-mediated data



Data citations

Ideal world

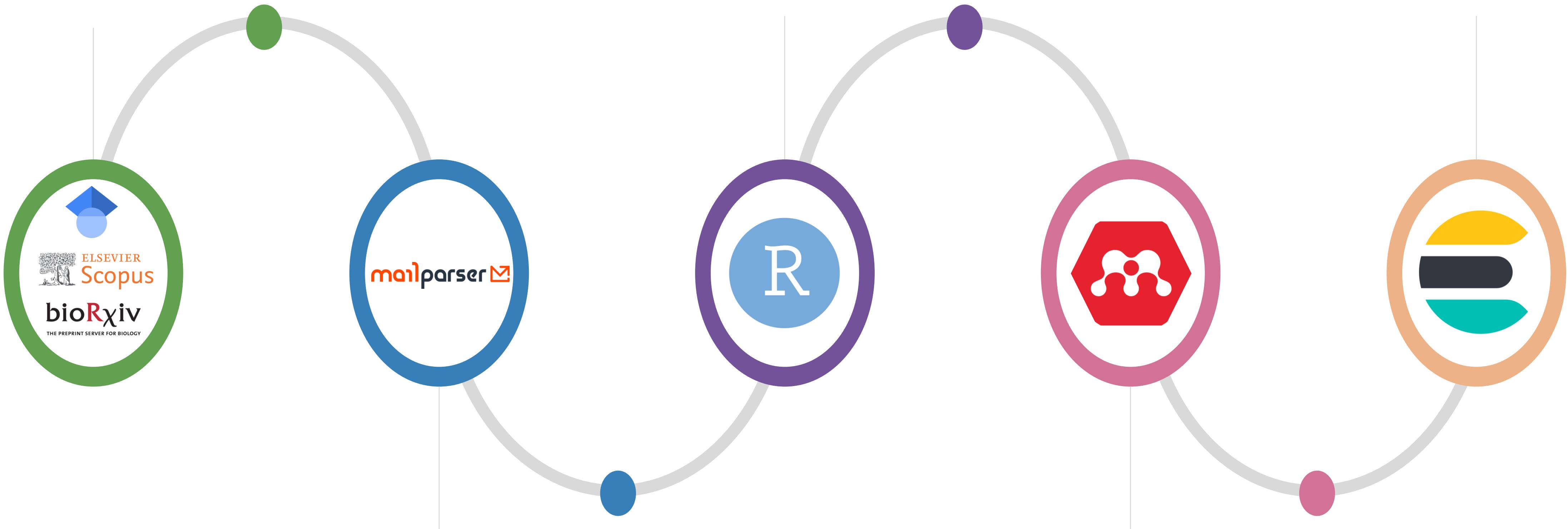
- All citations include a DOI, uniquely and specifically identifying the data used in a publication
- All data citations are included in the reference list of an article
- All data citations are machine-readable links between DOIs included in the DOI metadata, easily interpreted and used for quantifying citations
- 100% automatic 

Real world

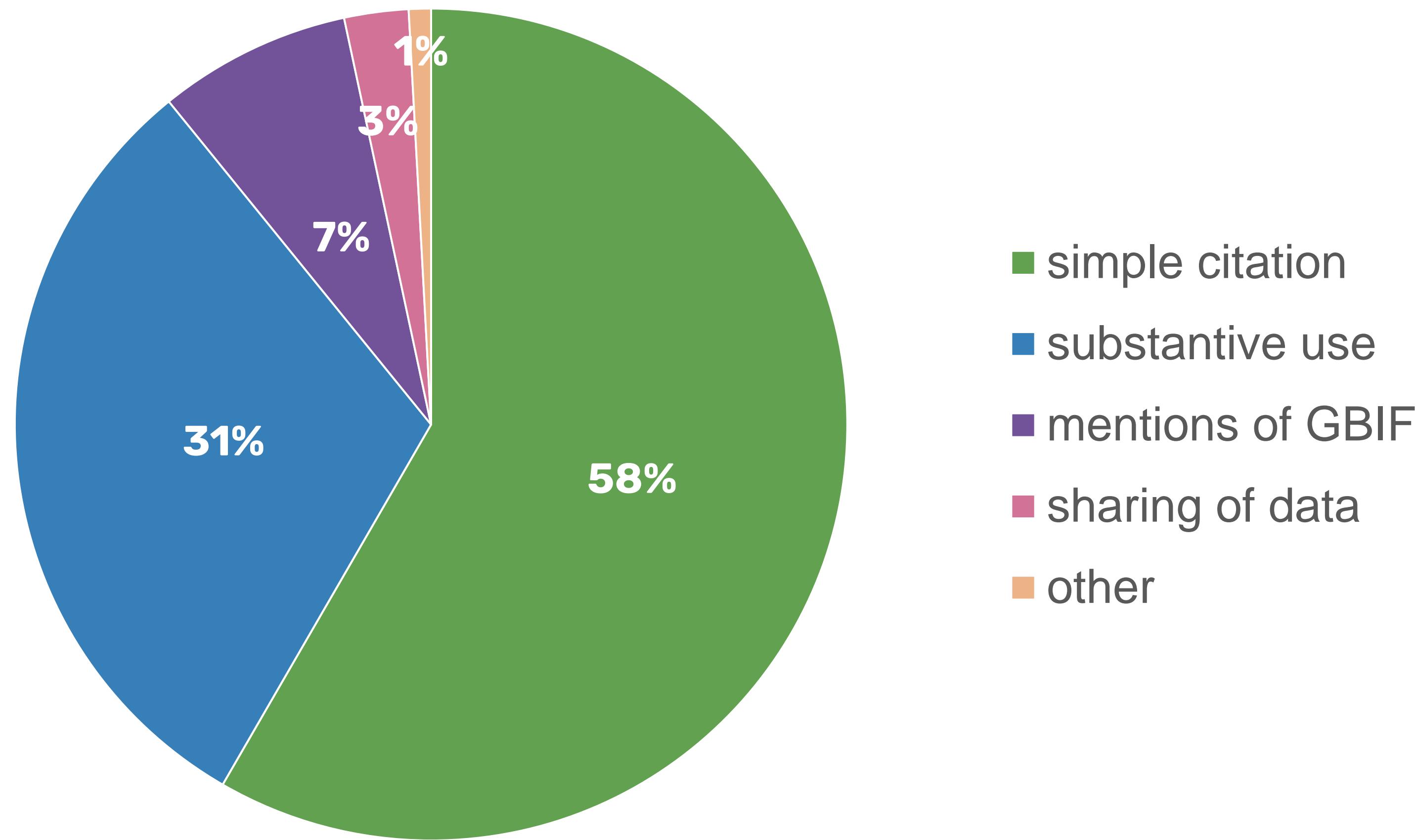
- Far from all citations include a DOI, and some tend to cite more data than is actually used
- Some citations are included in the body text of papers, some in data availability statements, and some are even hidden in supplements
- Even when done right, not all citations become available as machine-readable links between papers and dataset
- Automatic? 



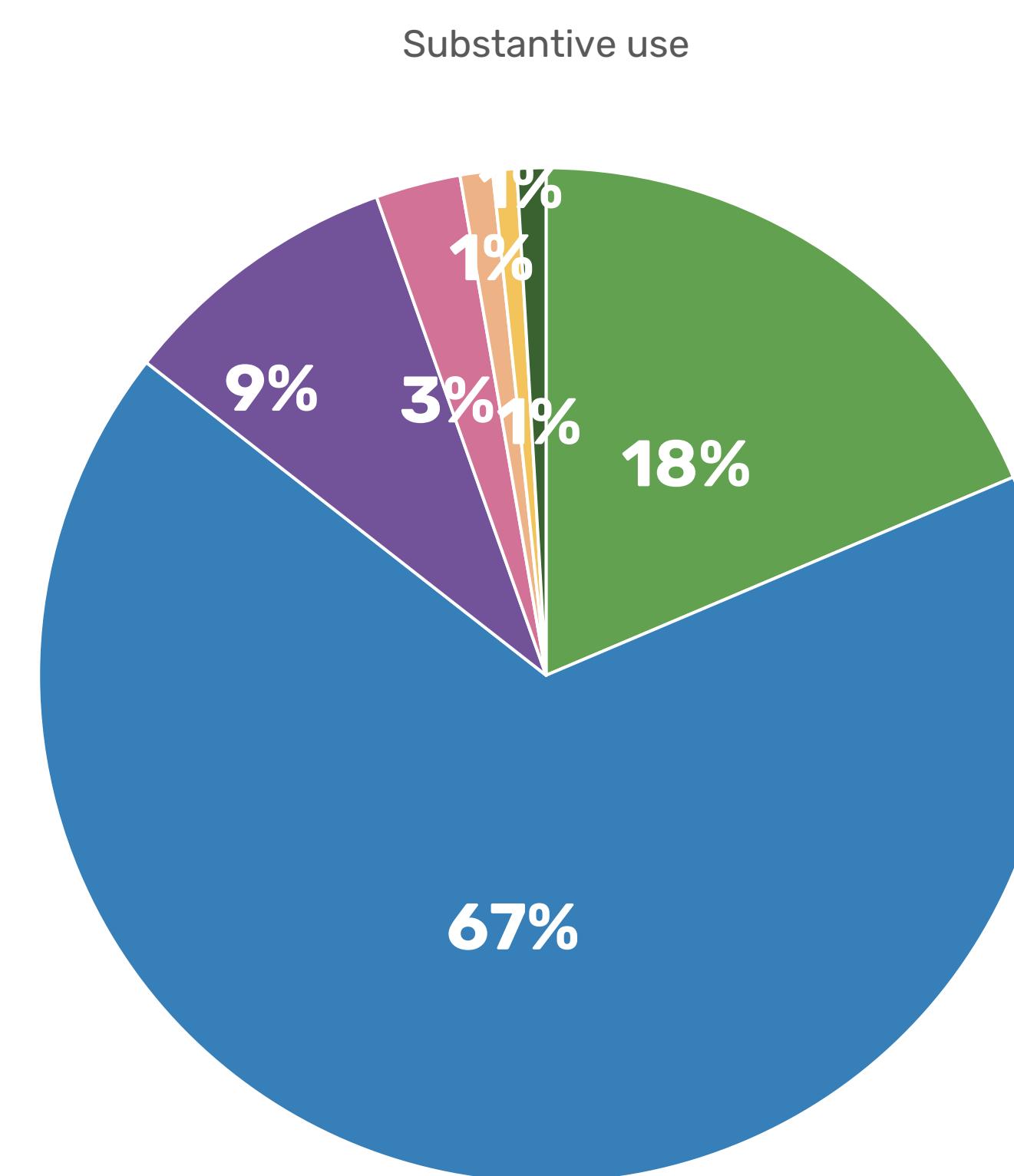
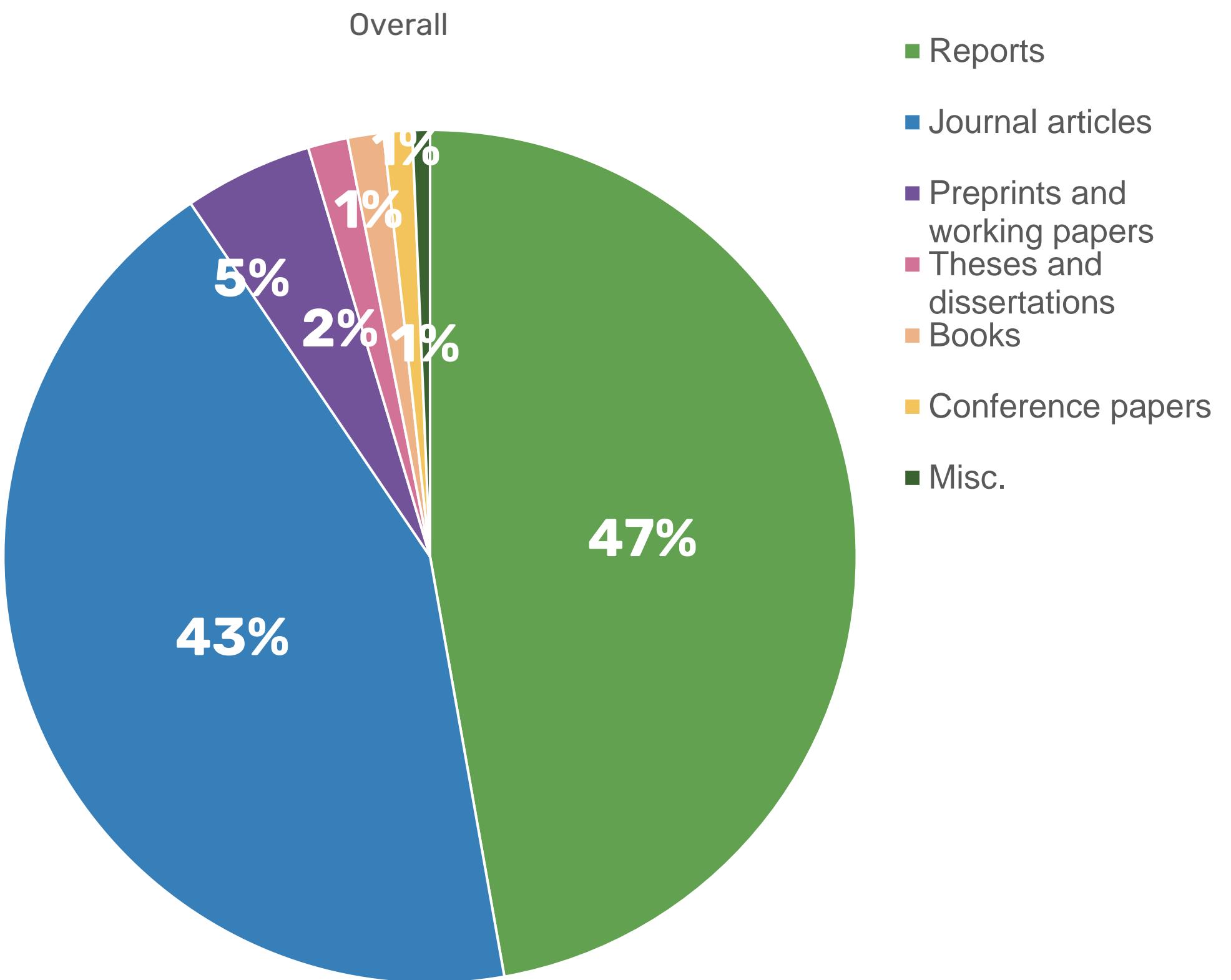
Literature tracking in GBIF



Why are papers mentioning GBIF?



Types of literature tracked





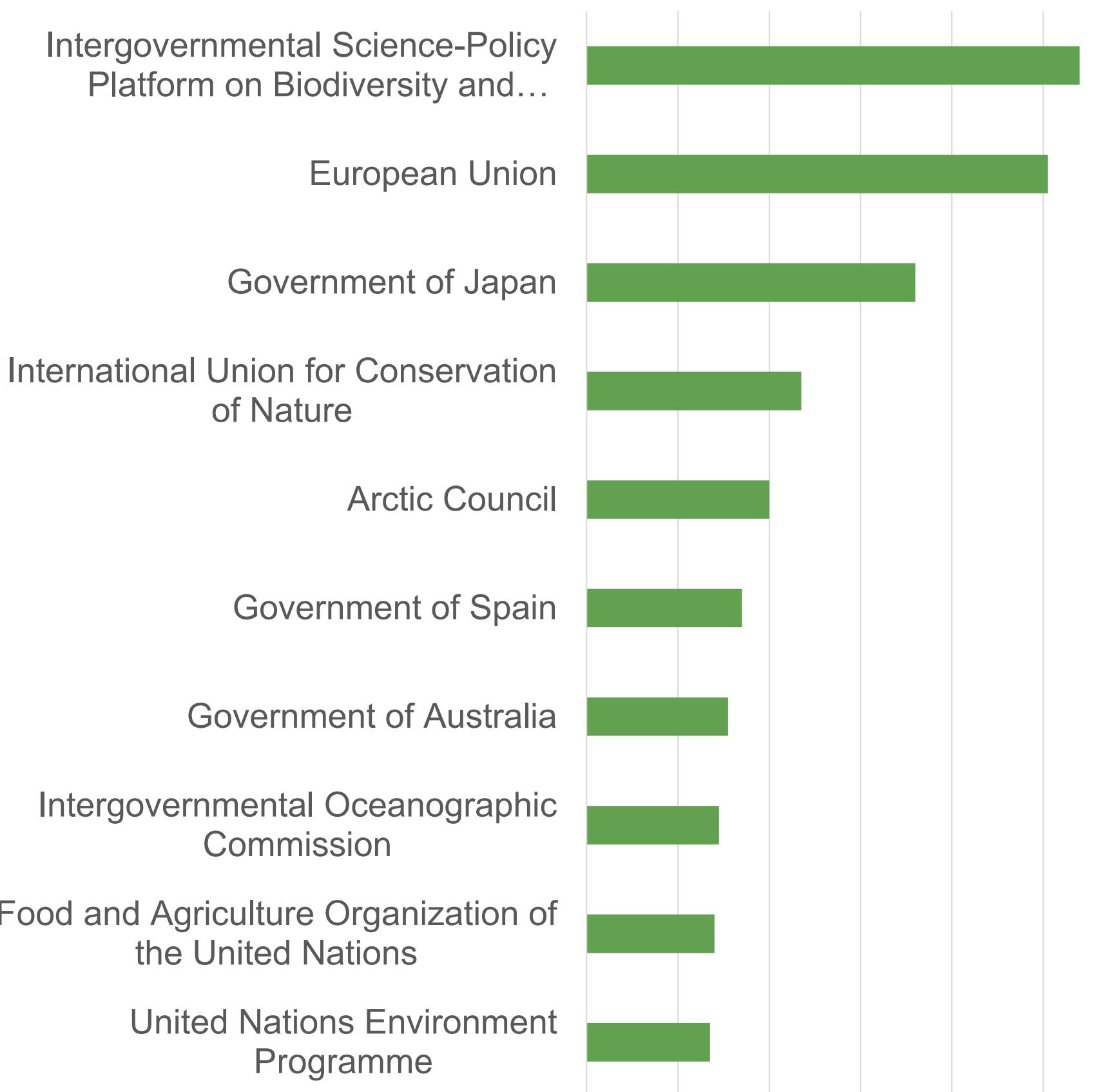
GBIF and policy

More than just research articles

Overton

The world's largest searchable index of policy documents, guidelines, think tank publications and working papers

- ~1,400 GBIF-relevant documents identified, published by 350 bodies including more than 100 national, regional and municipal governments
- Other top contributors include IPBES, IUCN, Arctic Council, IOC-UNESCO and FAO



~10 years of tracking data use and citations



- Manuscript in progress
- Process of tracking literature
- Compiling all the findings from the programme including new deep dives into download and citation practices, taxonomic and geographic focus and more
- Stay tuned!



Dmitry Schigel
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@dschigel





Tajikistan National Report

Samariddin Barotov- Node manager for GBIF in
Tajikistan

Almaty 2024

Illustration: GBIF data portal



Tajikistan – Country Profile

- **Location** - The Republic of Tajikistan is an inland country located in the south-eastern part of Central Asia.
- **Population** - The population of Tajikistan as of January 1, 2023 is 10 million people.
- **Capital**: Dushanbe
- **Area**: 142,600 sq km
- **Languages**: Tajik, Russian, Uzbek, English and others

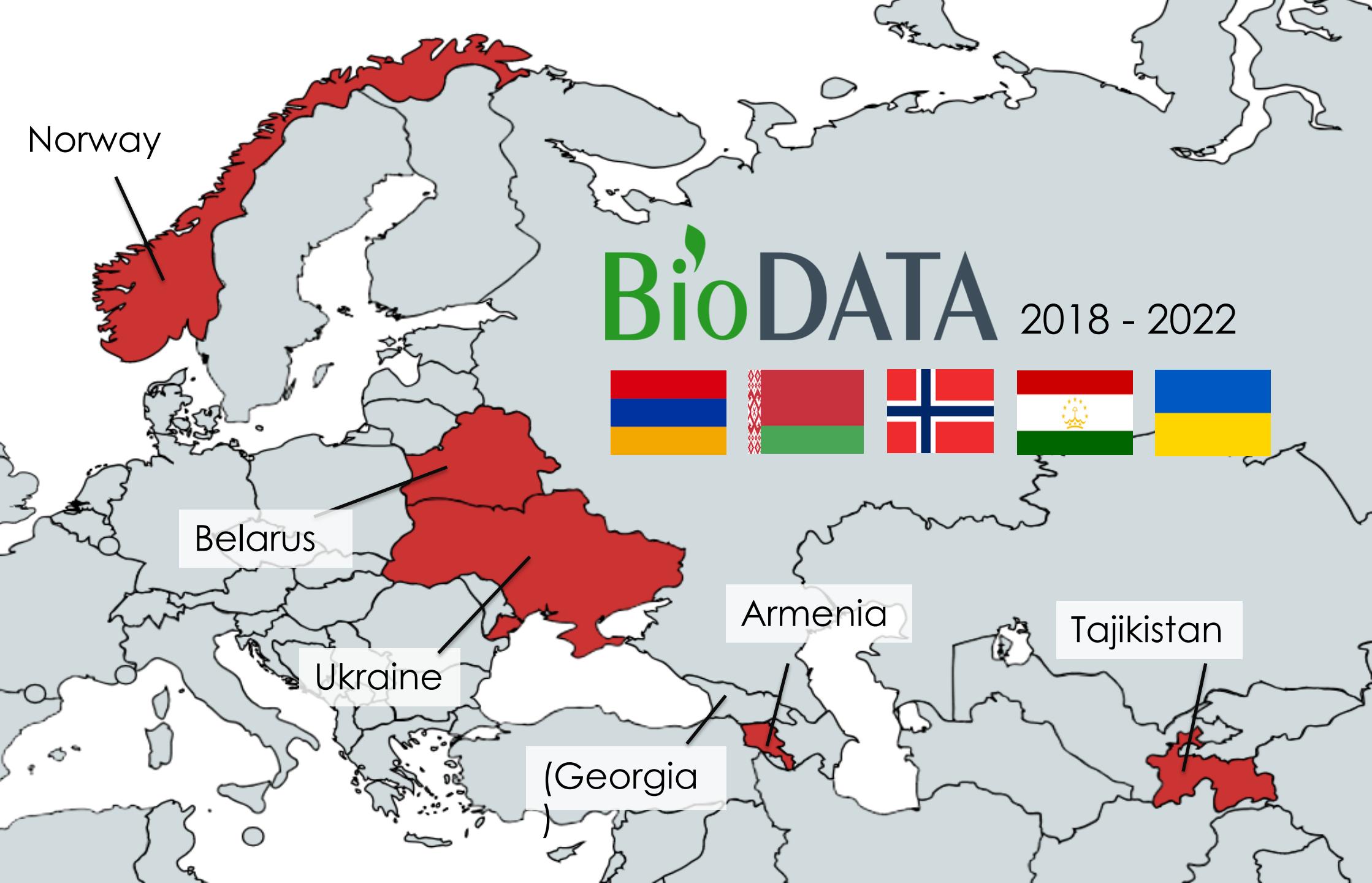


The biological diversity of Tajikistan today has more than 23,300 species of flora and fauna, and on average there are more than 164 species per thousand square kilometers of territory, which is ten times more than the world indicator.

Due to anthropogenic and other types of impact on nature, 226 plant species and 162 animal species are included in the Red Data Book of Tajikistan, which have become rare and are under threat of extinction.

The loss of agrobiodiversity in Tajikistan is especially negatively affected by the process of global climate change. Therefore, it is now necessary to take measures to preserve local biodiversity and increase the adaptive capacity of communities to climate change.





Norway

BioDATA

2018 - 2022



Belarus

Ukraine

Armenia

Tajikistan

(Georgia)



*Including additional students
from Uzbekistan and Kyrgyzstan*



Regional training | June 2019 | Shambari, Tajikistan



GBIF Tajikistan

Kick-starting the biodiversity data publication process for Tajikistan ID:CESP2022-001

GBIF
Norway
main
Partner

IBPPG
TNAS

Khatlon
SC
TNAS

TPU

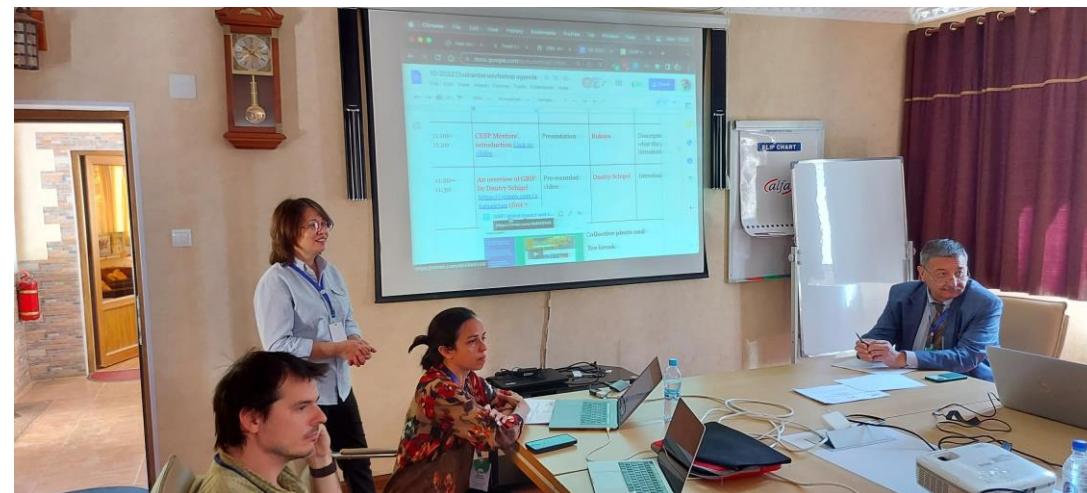
TNU

Activity Detail Summary

Activity	Description	Start Date	End Date	Deliverable or Impact
Identifying and inventorying the organizations in Tajikistan that hold specimen collections	A list of potential data publication partners and contact details. All these institutions will be registered into GRSciColl and Wikidata.	1/9/2022	26/9/2022	Impact: This will build communication and support capacity within the Tajikistan GBIF node.
Engaging key regional organizations	COVID -19 restrictions permitting, we plan 1 physical workshop/conference, with optional digital participation	27/9/2022	29/9/2022	Increased awareness of the data publication process in Tajikistan, and data publication support capacity at the Tajik GBIF Node. We can follow that up with an offer of one-on-one digital assistance from GBIF Norway in conjunction with the data publisher and GBIF Tajikistan

Digitization of legacy biodiversity datasets in Tajikistan	A digitisation workflow. This will include the setup for technical equipment and specimen imaging	3/10/2022	30/12/2022	Impact: Greater capacity for specimen digitisation at the Herbarium, and more importantly greater knowledge + capacity at the Tajik node for collection digitisation and data publication”
GBIF data publication	Deliverable: Data publication of approximately 645 records of which some recordings are in a BRAHMS database. Data will be visible on gbif.org and on https://tajik.ipt.gbif.no	3/1/2023	30/6/2023	Impact: Increased coverage of important biodiversity information for a region with limited published data

Training workshop in Tajikistan



PUBLISH FIRST

A novel, rapid digitisation/publishing workflow for herbaria low on staff time and technical resources

26 - 28 SEPT 2022: GBIF  CESP WORKSHOP





Tajikistan



An associate participant from Europe and Central Asia
Names of countries and areas are based on the ISO 3166-1 standard

[SUMMARY](#) [DATA ABOUT](#) [DATA PUBLISHING](#) [PARTICIPATION](#) [ALIEN SPECIES](#) [MORE...](#)[ACTIVITY REPORT](#)

DATA FROM TAJIKISTAN

53,160
Published occurrences

4
[Published datasets](#)

26
Countries and areas covered by
data from Tajikistan

5
Publishers from Tajikistan



Tajikistan



An associate participant from Europe and Central Asia
Names of countries and areas are based on the ISO 3166-1 standard

[SUMMARY](#) [DATA ABOUT](#) [DATA PUBLISHING](#) [PARTICIPATION](#) [ALIEN SPECIES](#) [MORE...](#)[ACTIVITY REPORT](#)

DATA ABOUT TAJIKISTAN

126,438
Occurrences

454
Datasets

35
Countries and areas contribute
data

211
Publishers



Achievements GBIF Tajikistan

Get data How-to Tools Community About

OCCURRENCE DATASET | REGISTERED OCTOBER 14, 2022

The Herbarium Fund of the Institute of Botany, Plant Physiology and Genetics at the Tajikistan National Academy of Sciences - BRAHMS records

Published by [Institute of Botany, Plant Physiology and Genetics, National Academy of Sciences of Tajikistan](#)

Barotov S

DATASET PROJECT METRICS ACTIVITY DOWNLOAD 11,100 OCCURRENCES 2 CITATIONS

BECAUSE YOU ARE TRUSTED CONTACT

HISTORY INGEST NOW LOGS

Specimens from the Herbarium Fund of the Institute of Botany, Plant Physiology and Genetics at the Tajikistan National Academy of Sciences.

Project ID: CESP2022-001

Get data How-to Tools Community About

OCCURRENCE DATASET | REGISTERED OCTOBER 14, 2022

The Herbarium Fund of the Institute of Botany, Plant Physiology and Genetics at the Tajikistan National Academy of Sciences - BRAHMS records

Published by [Institute of Botany, Plant Physiology and Genetics, National Academy of Sciences of Tajikistan](#)

Barotov S

DATASET METRICS ACTIVITY DOWNLOAD 11,100 OCCURRENCES 25 CITATIONS

BECAUSE YOU ARE TRUSTED CONTACT

HISTORY INGEST NOW LOGS

Achievements GBIF Tajikistan

During the implementation project, we organized several virtual meetings about the evaluation and monitoring of the project with our main partners GBIF team Norway. About evaluation and monitoring local organization I personally visited to the Universities. During my 3h lecture, I explained for teachers and student's biological faculty about data publication in the GBIF one more again. From students and teachers were most interest about our project it talks about outputs and deliverables and capacity building young generations. Implementation project is going well efficiency that we connected 4 local organizations. The strength side that in our workshop participated around 27 young specialist from different of regions of Tajikistan.



Achievements GBIF Tajikistan



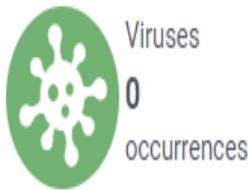
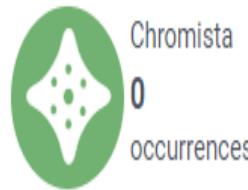
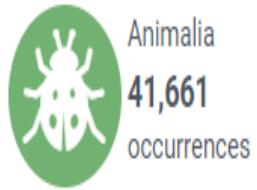
TNU



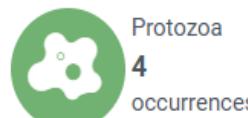
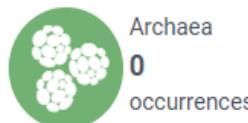
TPU

OCCURRENCES PER KINGDOM

BEFORE



NOW



The Herbarium Fund of the Institute of Botany, Plant Physiology and Genetics at the [Occurrence dataset](#) Tajikistan National Academy of Sciences - BRAHMS records

Specimens from the Herbarium Fund of the Institute of Botany, Plant Physiology and Genetics at the Tajikistan National Academy of Sciences.

Published by Institute of Botany, Plant Physiology and Genetics, National Academy of Sciences of Tajikistan

11 100 occurrences | 12 citations

The Herbarium of Tajik National University

[Occurrence dataset](#)

This dataset contains specimens from the herbarium at Tajik National University. Tajik National University was established by the Resolution of the Soviet of Ministries of the USSR 21st of March 1947,...



Published by Tajik National University

259 occurrences | 3 citations

Khatlon Scientific Center

[Occurrence dataset](#)

This dataset contains specimens from the herbarium at Khatlon Scientific Center. The specimens were imaged by herbarium staff, and published via an automatic process: 1) OCR text was gathered from th...



Published by Khatlon Scientific Center of the National Academy of Sciences of Tajikistan

140 occurrences | 1 citation

The Herbarium Fund of the Institute of Botany, Plant Physiology and Genetics at the [Occurrence dataset](#) Tajikistan National Academy of Sciences - BRAHMS records

Specimens from the Herbarium Fund of the Institute of Botany, Plant Physiology and Genetics at the Tajikistan National Academy of Sciences.

Published by Institute of Botany, Plant Physiology and Genetics, National Academy of Sciences of Tajikistan

11 100 occurrences | 25 citations

The Herbarium of Tajik National University

[Occurrence dataset](#)

This dataset contains specimens from the herbarium at Tajik National University. Tajik National University was established by the Resolution of the Soviet of Ministries of the USSR 21st of March 1947,...



Published by Tajik National University

259 occurrences | 7 citations

Khatlon Scientific Center

[Occurrence dataset](#)

This dataset contains specimens from the herbarium at Khatlon Scientific Center. The specimens were imaged by herbarium staff, and published via an automatic process: 1) OCR text was gathered from th...



Published by Khatlon Scientific Center of the National Academy of Sciences of Tajikistan

140 occurrences | 6 citations

Thank you!!
Questions?



Samariddin Barotov GBIF Node Manager for Tajikistan
barotov.ikai@mail.ru
www.gbif.org

Data publishing with GBIF: concepts and tools

Laura Anne Russell | Training Officer

Presented and adapted by: Salza Palpurina| ECA
support team



[Xanthoria calcicola](#) Oxner observed in Belgium by Frederik V. Holsbeeck (licensed under CC BY-NC)

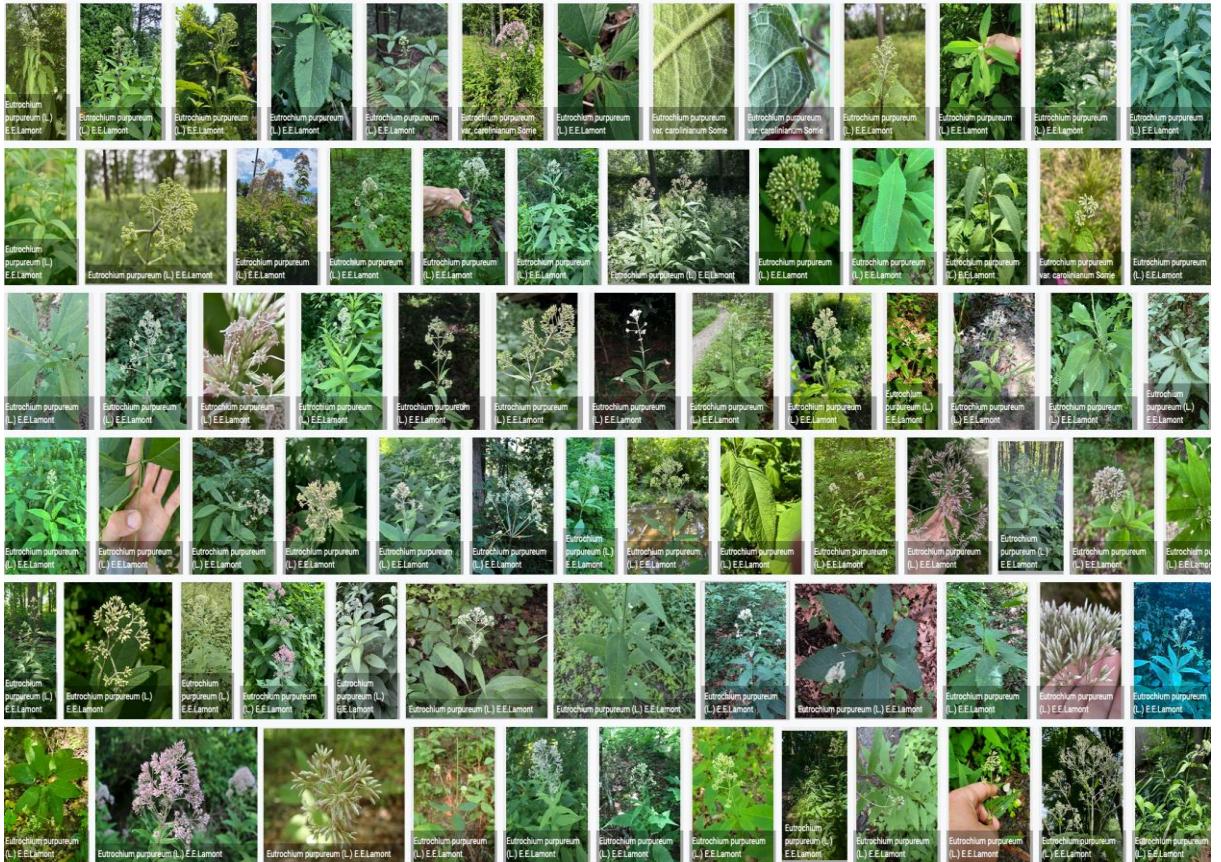
Species occurrence records

3,024,404,259

Multimedia evidence

210.7 million records with taxonomically identified images

- 137.4 million human observations
- 63.8 million specimens
- 7.3 million material samples
- 1.4 million fossil specimens



<https://www.gbif.org/occurrence/gallery>

Incentives for publishing open-access biodiversity data

- contributes to global knowledge about biodiversity
- reveals new opportunities for collaboration
- gives visibility to publishing institutions
- reveals usage and citations of digitized data
- fulfills requirements to make data freely accessible



BECOME A PUBLISHER

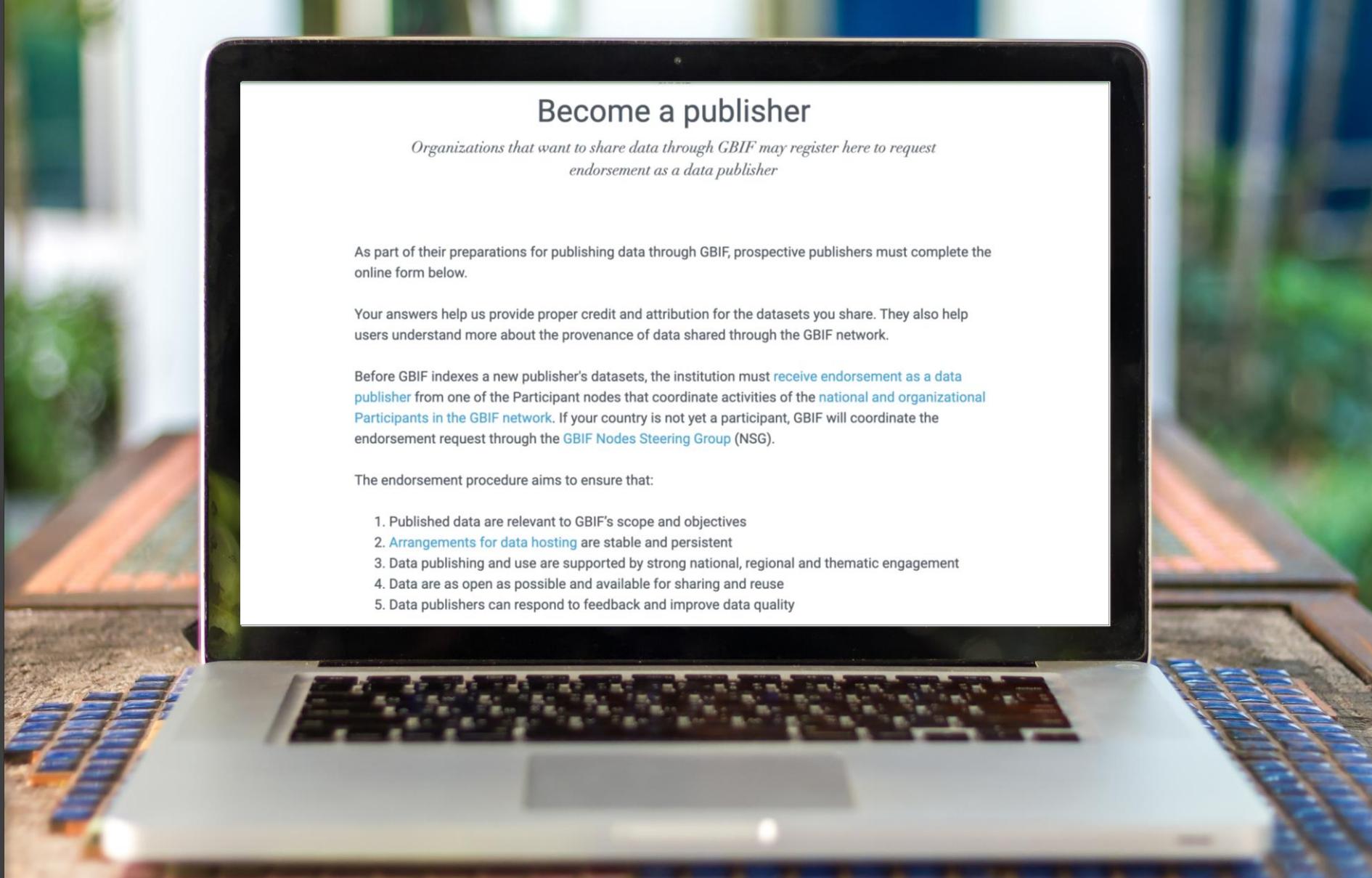
Agree to the terms

Complete the form

Wait for endorsement

Prepare data

Publish / register data with GBIF



Publisher page

Get data How-to Tools Community About

PUBLISHER | SINCE AUGUST 8, 2022

Institute of Zoology of the Republic of Kazakhstan

838 OCCURRENCES 1 DATASET 11 CITATIONS

ABOUT METRICS ⌂ HOME PAGE

Description: Mission: To develop Kazakhstan zoology science from animal world investigations - from Republic of Kazakhstan to around of the globe. Vision: Institute of Zoology RK - leading world class science organization of fundamental and practical zoology. Institute of Zoology RK main directions: Kazakhstan wildlife investigation; animal population dynamics changes from environmental impact studying; studying of evolution, phylogeny, taxonomy diversity of present and past wildlife; ecologically valuable zoology problem solving.

Endorsed by: Participant Node Managers Committee

Administrative contact: Roman Jashenko

Country or area: Kazakhstan

[Download activity report](#)



<https://www.gbif.org/publisher/0255f116-fd08-4b15-9eb3-2b4e2062a323>

SHARING YOUR DATA WITH GBIF.ORG

Get data Share Tools Inside GBIF

OCCURRENCE DATASET | REGISTERED 4 MAY 2018

Belgian IFBL Flora Checklists (1939-1971)

Published by Botanic Garden Meise
Wouter Van Landuyt • Nicolas Noe

1 045 806 OCCURRENCES | 9 CITATIONS

Cat. Numb.

A	B	C
1	Cat. Numb.	University
		Collector
2	UWP:100217	University of Guatemala
3	UWP:100218	University of Guatemala
4	UWP:101378	University of Guatemala
5	UWP:101717	University of Guatemala
6	UWP:101737	University of Guatemala
7	UWP:102143	University of Guatemala
8	UWP:102144	University of Guatemala
9	UWP:102233	University of Guatemala
10	UWP:103108	University of Guatemala
11	UWP:104139	University of Guatemala
12	UWP:104512	University of Guatemala
13	UWP:105292	University of Guatemala
14	UWP:106768	University of Guatemala

1 045 806 GEOREFERENCED RECORDS

Generated 14 hours ago © OpenStreetMap, GBIF

Any year 1919 - 1990 EXPLORE AREA

Description Temporal Geographic

Description

The data in IFBL 1, 2 & 3 covers all of the IFBL 1 km² flora checklists sampled between 1939 and 1971. About 10000 original lists corresponding with some 1 200 000 data representative of the former distribution of vascular plant species in Belgium, were digitised. The IFBL data is integrated in existing national and regional flora databases and will contribute to the realisation of regional Flora Atlases. The analysis of the digitised data will improve the possibilities to compare floral data over time.

FULL TITLE

BOS Arthropod Collection of University of Oviedo (S
events subset)

Dataset description, taxonomic/geographic/temporal scope, methodology

01

Dataset metadata



List based on geography, taxonomy, theme (e.g. invasive, medicinal)

02

Species checklists



Occurrences associated with survey/sample, protocol, effort, abundance

04

Sampling-event data

DARWIN CORE

"List of fields and their definitions, as they relate to biodiversity data."

The image shows a laptop screen with the Darwin Core Occurrence page open. The page has a header with a navigation menu and a sidebar titled "On this page" listing various Darwin Core terms. The main content area shows the "Occurrence" class definition, including its identifier (<http://rs.tdwg.org/dwc/terms/Occurrence>), definition ("An existence of a dwc:Organism at a particular place at a particular time."), comments, examples (such as "a wolf pack on the shore of Kluane Lake in 1988"), and a detailed view of the "occurrenceID" field.

On this page

- Record-level
- Occurrence
- Organism
- MaterialEntity
- MaterialSample
- Event
- Location
- GeologicalContext
- Identification
- Taxon
- MeasurementOrFact
- ResourceRelationship
- UseWithIRI
- LivingSpecimen
- PreservedSpecimen
- FossilSpecimen
- MaterialCitation
- HumanObservation
- MachineObservation
- Cite Darwin Core

Occurrence Class

Identifier <http://rs.tdwg.org/dwc/terms/Occurrence>

Definition An existence of a dwc:Organism at a particular place at a particular time.

Comments

Examples

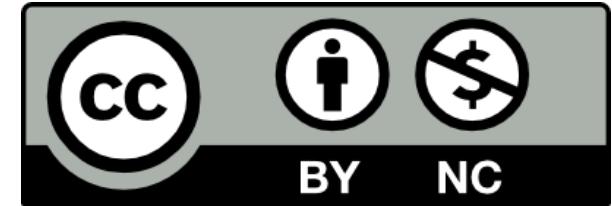
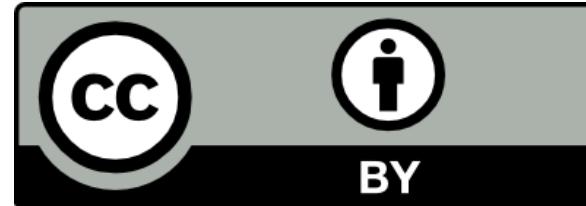
- a wolf pack on the shore of Kluane Lake in 1988
- a virus in a plant leaf in the New York Botanical Garden at 15:29 on 2014-10-23
- a fungus in Central Park in the summer of 1929

occurrenceID

Identifier <http://rs.tdwg.org/dwc/terms/occurrenceID>

Definition An identifier for the dwc:Occurrence (as opposed to a particular digital record of the dwc:Occurrence). In the absence of a persistent global unique identifier, construct one from a combination of identifiers

CREATIVE COMMONS WAIVER AND LICENSES



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CC0

For data made available for any use without any restrictions



CC BY

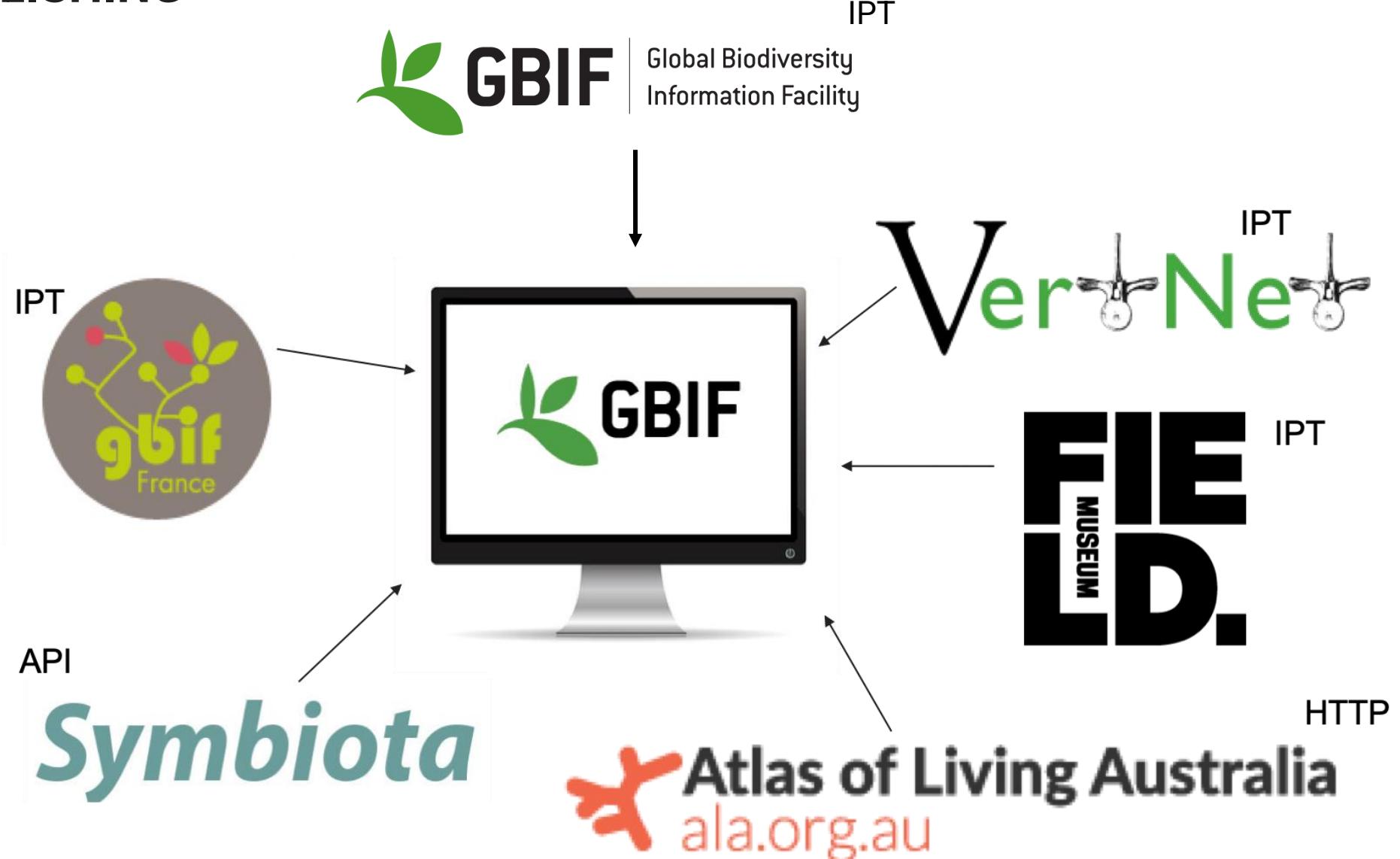
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For data made available for any non-commercial use with appropriate attribution

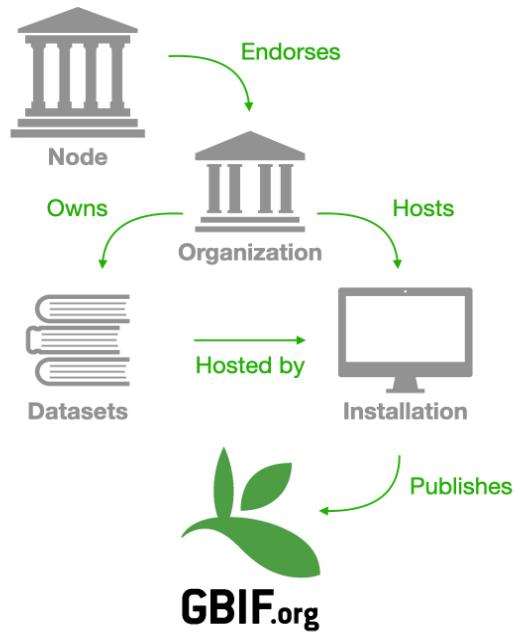
DATA PUBLISHING



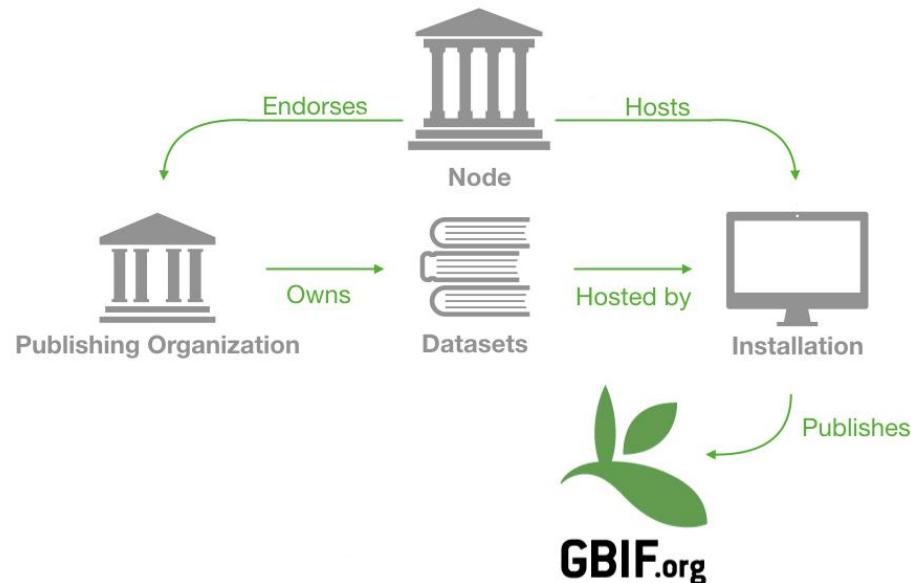
<https://www.gbif.org/data-hosting>

<https://data-blog.gbif.org/post/installations-and-hosting-solutions-explained/>

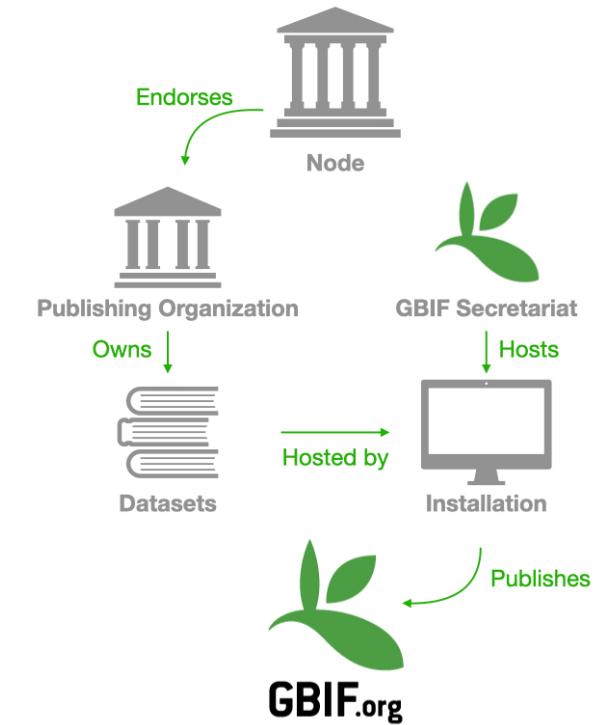
Hosting models



Organization-hosted installation



Node-hosted installation



GBIF-hosted installation

Publishing organization ≠ Hosting installation

A dataset published by Institute of Zoology of the Republic Kazakhstan but hosted by GBIF Secretariat

Get data How-to Tools Community About

OCCURRENCE DATASET | REGISTERED OCTOBER 13, 2022

Distribution of marsh frogs (*Pelophylax ridibundus* complex) in Kazakhstan

Published by [Institute of Zoology of the Republic of Kazakhstan](#)

Dujsebayeva T • Kaptyonkina A • Arifulova I • Ualiyeva D • Akhmedenov K • Ivanov A • Khromov V • Krainyuk V • Sarzhanov F • Tarasovskaya N • Titov S • Timoshenko A • Ermakov O • Malakhov D • Starikov S

838 OCCURRENCES | 11 CITATIONS

DATASET PROJECT METRICS ACTIVITY DOWNLOAD HOME PAGE

The presented data are the result of generalization and reconciliation of literary, museum and archival information on the distribution of lake frogs of the *P. ridibundus* complex in Kazakhstan, and new data were obtained during field work in 2021-2022. Based on the collected material, a database has been compiled for all the frog finds known today for the period from the end of the XX century to the present.

Publication date: April 9, 2023
Metadata last modified: April 9, 2023
Hosted by: GBIF Secretariat
Licence: CC BY 4.0

How to cite DOI 10.15468/et4dus

838 Occurrences 100% With taxon match 99.6% With coordinates 94% With year

835 GEOREFERENCED RECORDS

Node or Regional support

The screenshot shows a green header bar with a logo, search, and navigation icons. Below it is a navigation menu with links for CONTACT US, DIRECTORY, and other sections. The main content area has a search bar and several tabs: ALL, VOTING PARTICIPANTS, ASSOCIATE COUNTRY PARTICIPANTS, OTHER ASSOCIATE PARTICIPANTS, EXECUTIVE COMMITTEE, SCIENCE COMMITTEE, BUDGET COMMITTEE, NODES STEERING GROUP, NODE MANAGERS COMMITTEE (which is highlighted in green), and GBIF SECRETARIAT. A section titled "Node Managers Committee" contains a brief description of the committee's role and terms of reference, followed by a table listing its members:

Name	Role	Participant	Participant status
Anne-Sophie Archambeau	Node manager Nodes committee chair	France	Voting
David Jennings	Nodes committee 1 st vice chair Node manager	iDigBio	Associate
Anabela Plos	Node manager Nodes committee 2 nd vice chair	Argentina	Associate
José Clavijo Albertos	Node manager	Andean Network of BioNET-INTERNATIONAL	Associate

<https://www.gbif.org/contact-us/directory?group=nodesCommittee>

The screenshot shows a green header bar with a logo, search, and navigation icons. The main content area is titled "Contacting GBIF" and has a section for "Email". It lists various contact categories with their corresponding points of contact:

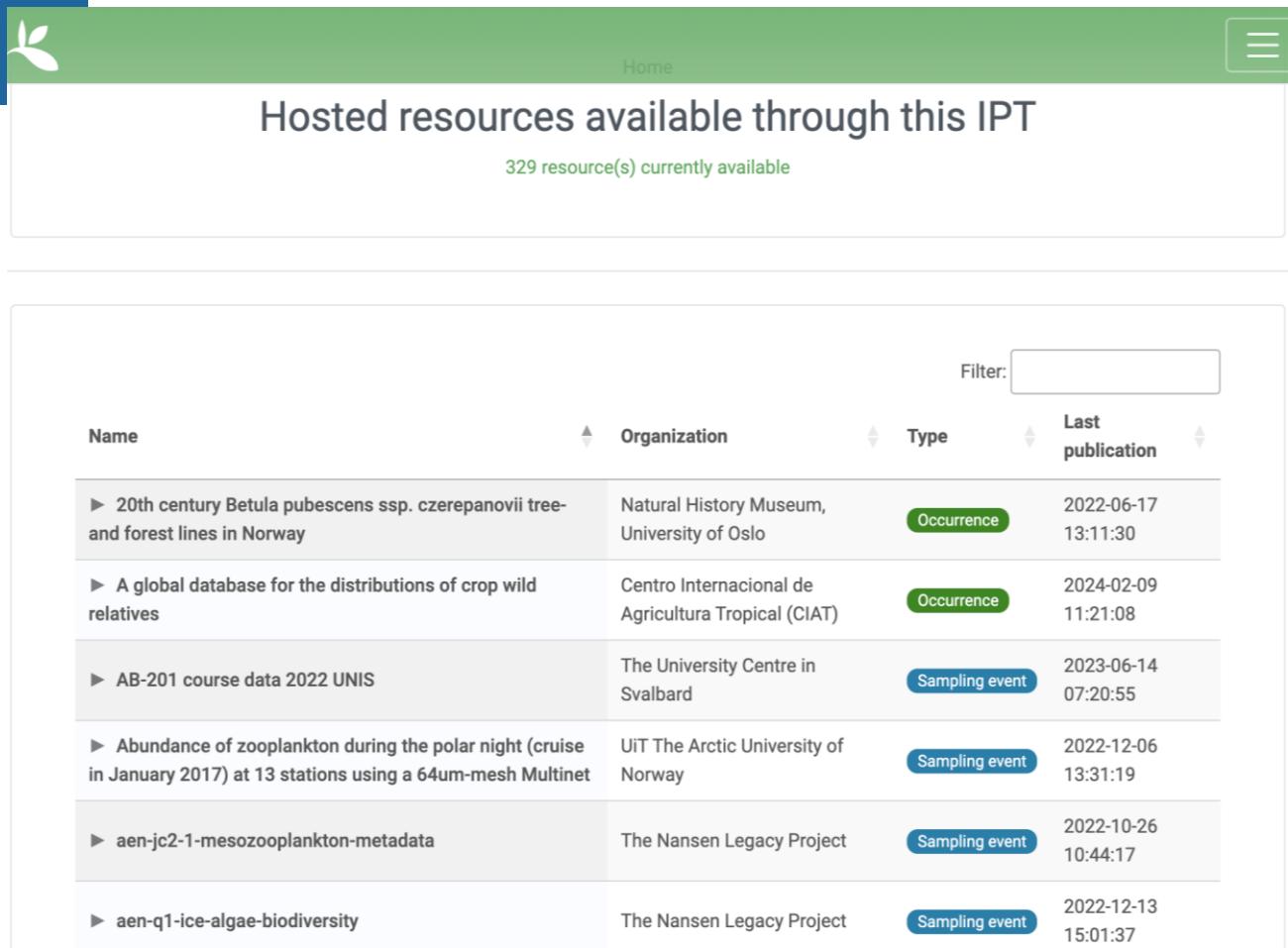
Purpose	Contact
General enquiries	GBIF Administration
Press and media enquiries	GBIF Communications
Technical issues related to sharing or using data	GBIF Help Desk
Secretariat contacts	via GBIF Directory
Regional support	Africa Asia Europe & Central Asia Latin America & the Caribbean
Thematic community support	Health DNA
GBIF Participant staff in individual countries	via GBIF Network

Below this is a "Telephone" section with the number +45 35 32 14 70.

<https://www.gbif.org/contact-us>

INTEGRATED PUBLISHING TOOLKIT

- Main (*but not only*) publishing tool for GBIF
- One IPT can host many datasets, on behalf of several institutions, while giving proper credit
- Test mode and production mode
- Multilingual – 7 languages
- Server-side software, needs a stable connection



The screenshot shows the GBIF IPT interface. At the top, there's a green header bar with the GBIF logo on the left, a "Home" link in the center, and a menu icon on the right. Below the header, the main content area has a light gray background. The title "Hosted resources available through this IPT" is centered at the top of the content area. Below the title, it says "329 resource(s) currently available". A search bar labeled "Filter:" is located above a table. The table has columns for "Name", "Organization", "Type", and "Last publication". There are six rows of data in the table, each representing a dataset:

Name	Organization	Type	Last publication
▶ 20th century Betula pubescens ssp. czerepanovii tree-and forest lines in Norway	Natural History Museum, University of Oslo	Occurrence	2022-06-17 13:11:30
▶ A global database for the distributions of crop wild relatives	Centro Internacional de Agricultura Tropical (CIAT)	Occurrence	2024-02-09 11:21:08
▶ AB-201 course data 2022 UNIS	The University Centre in Svalbard	Sampling event	2023-06-14 07:20:55
▶ Abundance of zooplankton during the polar night (cruise in January 2017) at 13 stations using a 64um-mesh Multinet	UiT The Arctic University of Norway	Sampling event	2022-12-06 13:31:19
▶ aen-jc2-1-mesozooplankton-metadata	The Nansen Legacy Project	Sampling event	2022-10-26 10:44:17
▶ aen-q1-ice-algae-biodiversity	The Nansen Legacy Project	Sampling event	2022-12-13 15:01:37

IPT ADMINISTRATION

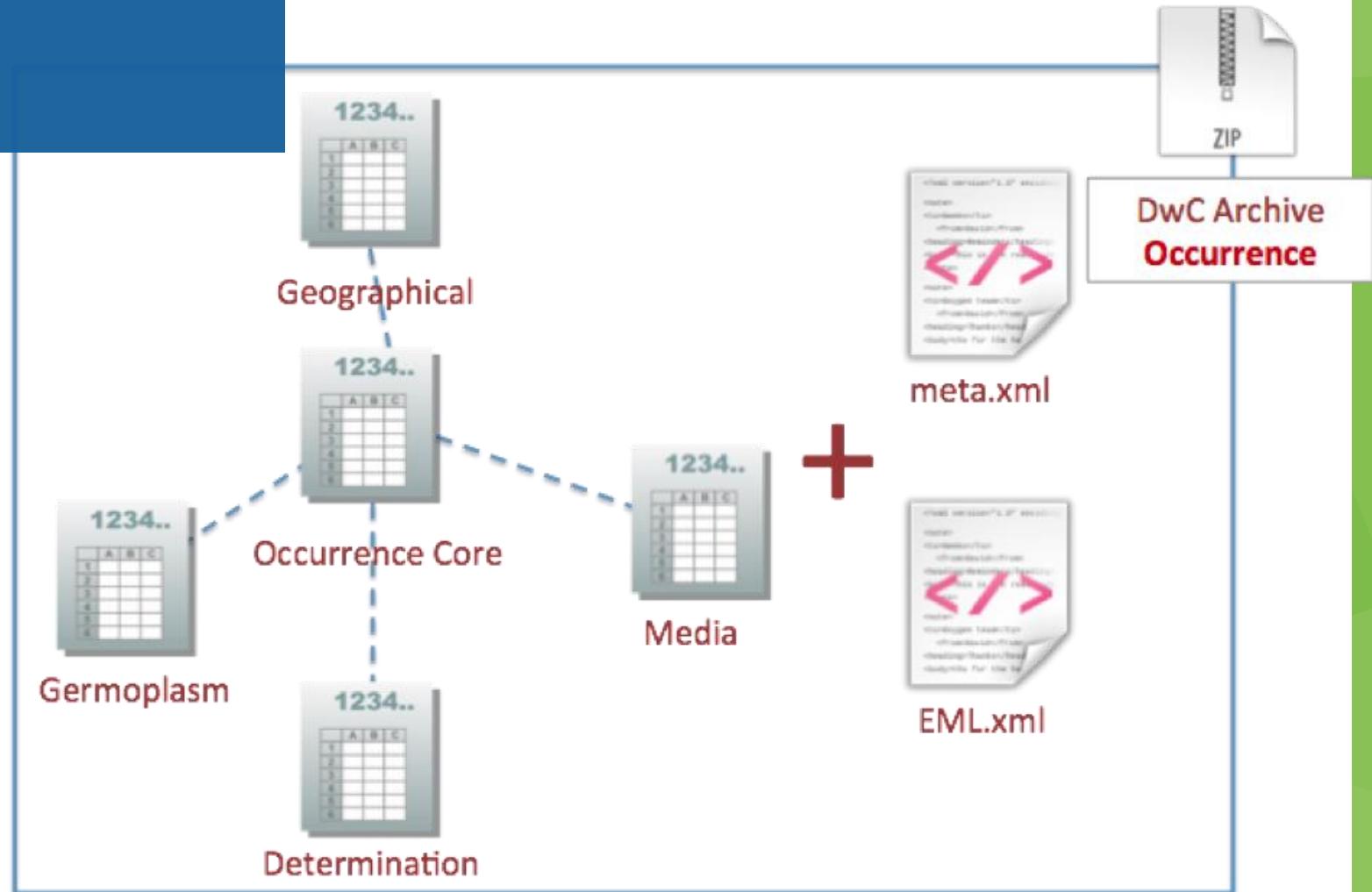
- An IPT requires an administrator to:
- Manage user accounts
- Manage publishing organizations
- Manage extensions

The screenshot shows the 'Administration' section of the GBIF IPT interface. At the top, there's a navigation bar with links for Home, Manage Resources, Administration (which is underlined), and About. A 'TEST MODE' indicator is visible in the top-left corner. The main content area is titled 'Administration' and 'Administration Dashboard'. Below this, there are several cards representing different administrative functions:

- IPT settings**: Change settings for the characteristics of this IPT instance. [View](#)
- Bulk publication**: This option is an administrative action to publish all resources. [View](#)
- User accounts**: This page allows to create, modify, and delete user accounts. [View](#)
- GBIF registration options**: This page allows to register the IPT instance in the GBIF Registry or edit existing registration data. [View](#)
- Associated organizations**: This page shows a list of organizations that can be associated with resources in this IPT instance. [View](#)
- Darwin Core Types and Extensions**: This page allows to enable the IPT to import and share various pre-defined types of data from the GBIF Registry. [View](#)
- Data packages New**: This page allows to manage various pre-defined data packages from the GBIF Registry. [View](#)
- UI Management**: This page allows to customize the IPT color scheme and logo. [View](#)
- Logs**: This page allows you to view IPT logs. [View](#)

DARWIN CORE ARCHIVE WITH EXTENSIONS

- Occurrence Core
 - Media extension
 - Determination extension
 - Germoplasm extension
- Meta file
- EML file



EXTENSIONS IN THE IPT

Extensions can be added to a production or test IPT by an administrator.

Reach out to the TDWG and Darwin community members if you are having trouble finding an extension that suits your needs.

Home

Manage Resources

Administration

Ab



IPT settings i Publish all resources



Users accounts



GBIF registration options



Organisations



Core Types and Extensions



Logs

DATA QUALITY REQUIREMENTS

Each core has a set of required and strongly recommended fields.

If the required information is not included, the dataset will not be indexed by GBIF.

Darwin Core records

Term	Status
occurrenceID	Required
basisOfRecord	Required
scientificName	Required
eventDate	Required
countryCode	Strongly recommended
taxonRank	Strongly recommended
kingdom	Strongly recommended
decimalLatitude & decimalLongitude	Strongly recommended
geodeticDatum	Strongly recommended
coordinateUncertaintyInMeters	Strongly recommended
individualCount, organismQuantity & organismQuantityType	Strongly recommended
informationWithheld	Share if available
dataGeneralizations	Share if available
eventTime	Share if available
country	Share if available

Registered dataset Digital Object Identifier (doi)

Get data How-to Tools Community About

OCCURRENCE DATASET | REGISTERED OCTOBER 13, 2022

Distribution of marsh frogs (*Pelophylax ridibundus* complex) in Kazakhstan

Published by [Institute of Zoology of the Republic of Kazakhstan](#)

Dujsebayeva T • Kaptyonkina A • Arifulova I • Ualiyeva D • Akhmedenov K • Ivanov A • Khromov V • Krainyuk V • Sarzhanov F • Tarasovskaya N • Titov S • Timoshenko A • Ermakov O • Malakhov D • Starikov S

838 OCCURRENCES | 11 CITATIONS

DATASET PROJECT METRICS ACTIVITY DOWNLOAD HOME PAGE

The presented data are the result of generalization and reconciliation of literary, museum and archival information on the distribution of lake frogs of the *P. ridibundus* complex in Kazakhstan, and new data were obtained during field work in 2021-2022. Based on the collected material, a database has been compiled for all the frog finds known today for the period from the end of the XX century to the present.

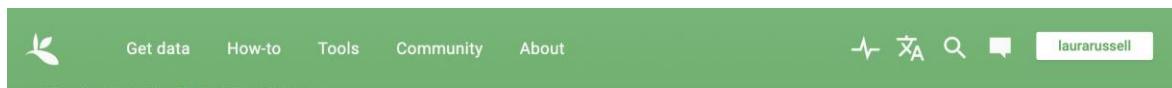
Publication date: April 9, 2023
Metadata last modified: April 9, 2023
Hosted by: GBIF Secretariat
Licence: CC BY 4.0

How to cite DOI 10.15468/et4dus

838 Occurrences 100% With taxon match 99.6% With coordinates 94% With year

835 GEOREFERENCED RECORDS

IPT references



The screenshot shows the top navigation bar of the IPT website. It includes a logo of two overlapping green leaves, links for "Get data", "How-to", "Tools", "Community", and "About", and icons for a heart rate monitor, a magnifying glass, a search icon, and a user profile labeled "laurarussell".

About the IPT

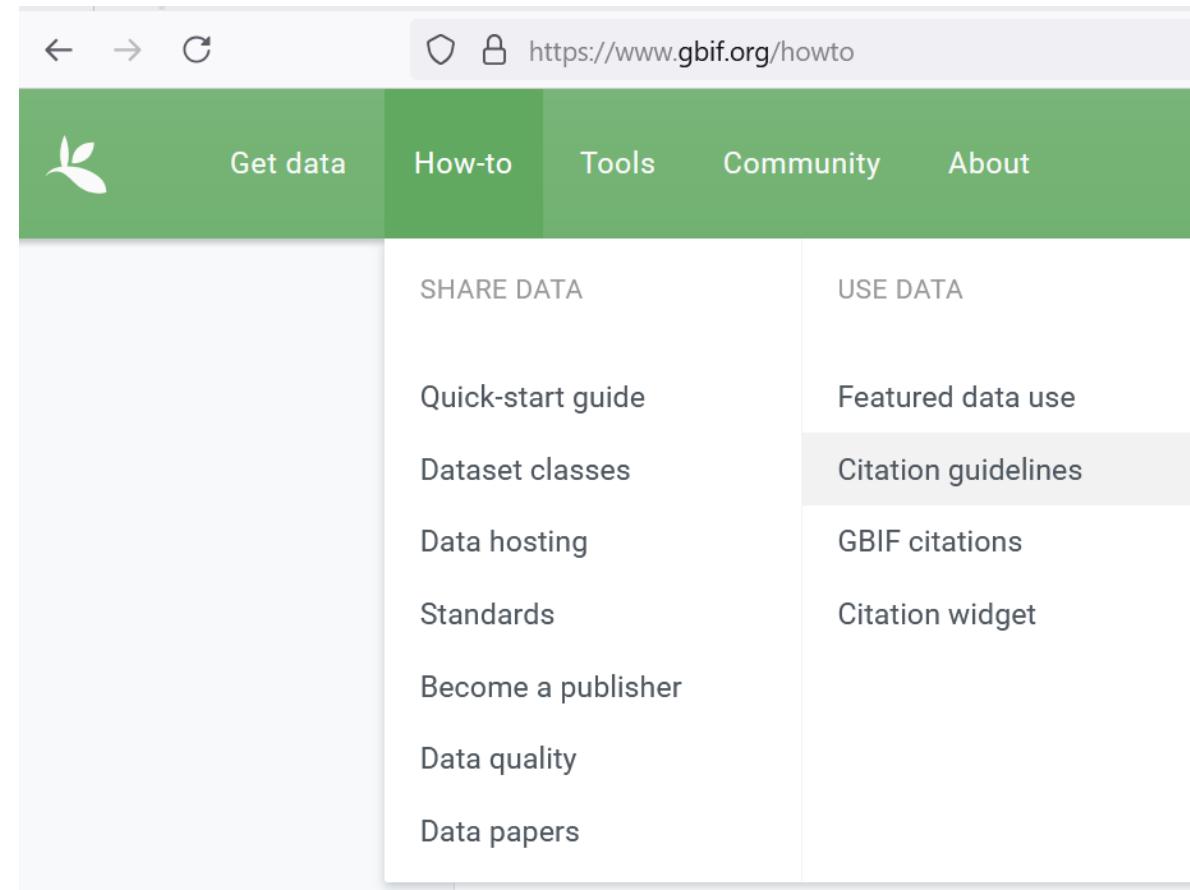
The Integrated Publishing Toolkit—commonly referred to as the IPT—is free open-source software developed by GBIF and used by organizations around the world to create and manage repositories for sharing biodiversity datasets.

GBIF currently supports three modes of use for the IPT.

- **Self-hosted**
Dozens of organizations choose to [install](#) and [run](#) their own individual instances of the software.
[Get started](#) if this "IPT classic" approach is what you came expecting.
- [National/thematic node installations](#)
- [Regional cloud-hosted installations](#)

More information

- [Latest releases](#)
- [Installation methods](#)
- [Usage](#)
- [Data-hosting centres](#)
- [Development](#)
- [Translation](#)
- [IPT User Manual](#)



The screenshot shows the "How-to" section of the GBIF website. The URL in the address bar is <https://www.gbif.org/howto>. The page features a navigation bar with links for "Get data", "How-to" (which is active), "Tools", "Community", and "About". The main content area is divided into two columns: "SHARE DATA" and "USE DATA". Under "SHARE DATA", there are links to "Quick-start guide", "Dataset classes", "Data hosting", "Standards", "Become a publisher", "Data quality", and "Data papers". Under "USE DATA", there are links to "Featured data use", "Citation guidelines", "GBIF citations", and "Citation widget".

Incentives for publishing open-access biodiversity data

- Standard formats → Integrated datasets → Improved research
- Supports different types of data
- **Different data sources:** monitoring, collections, eDNA, sensors
- **Free use of infrastructure**
- Effective citation tracking
- Properly credited for your work



Incentives for publishing open-access biodiversity data

- Easier publishing of data papers
- Well established community of practice
 - Online training courses, manuals and guidelines
 - Community Forum
 - Technical support – by email and virtual calls
 - Data Use club

Community	About		
NETWORK	VOLUNTEERS	ACTIVITIES	
Participant network	Mentors	Capacity enhancement	
Nodes	Ambassadors	Programmes & projects	
Publishers	Translators	Training and learning resources	
Network contacts	Citizen scientists	Data Use Club	
Community forum ↗		Living Atlases ↗	
alliance for biodiversity knowledge ↗			



Thank you!

ECA regional support team | eca_support@gbif.org

Oleg Borodin | oborodin@gbif.org

Salza Palpurina | spalpurina@gbif.org





pensoft.net

Biodiversity data papers

Lyubomir Penev
CEO & Founder, Pensoft
Publishers
l.penev@pensoft.net



PENSOFT: Science Publisher & Technology Provider



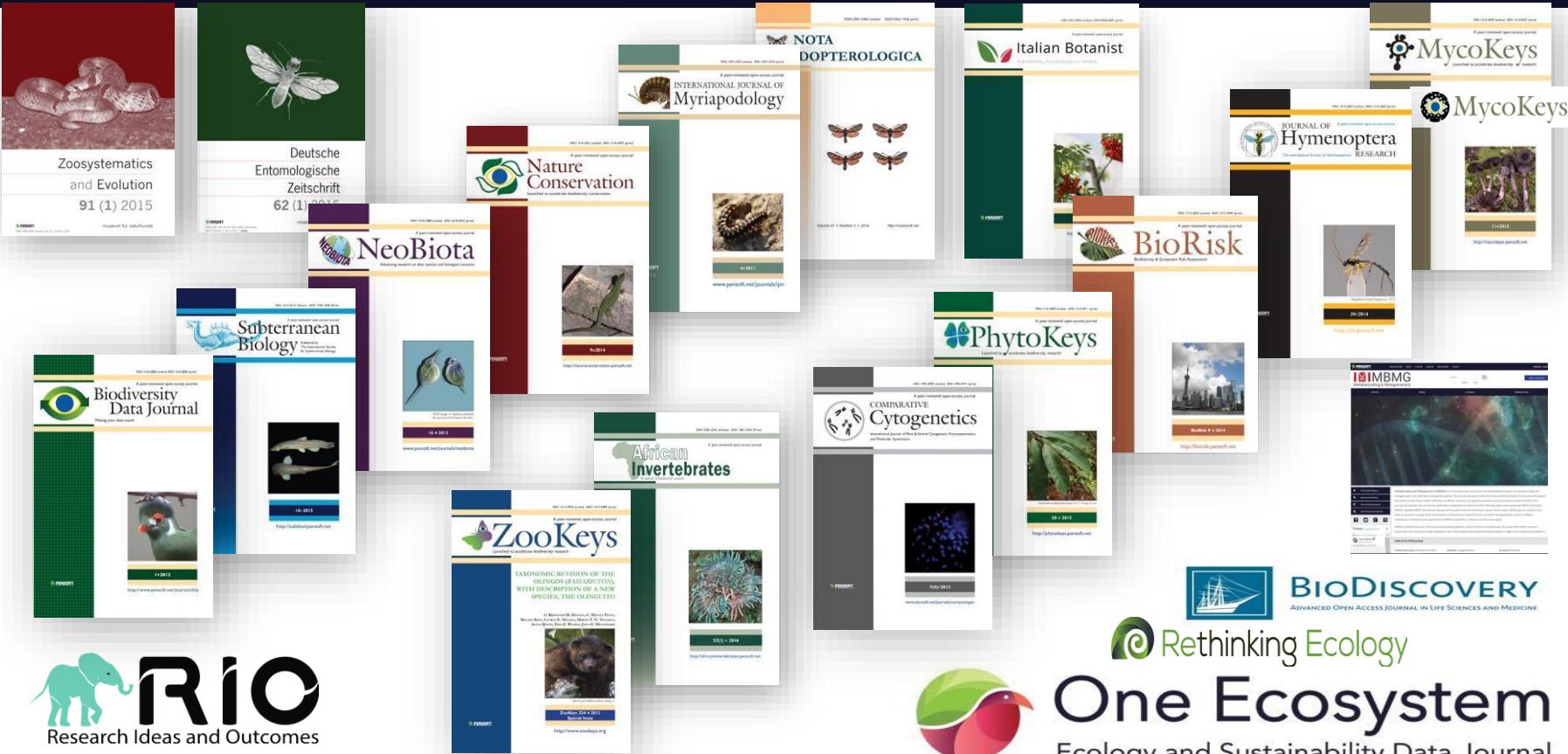
Founded in 1992, based in Sofia, ca.
60 permanent staff

Publisher of 70 academic journals,
books & conference materials

Pioneer in semantic publishing in
biodiversity & ecology

Coordinator of the EU-funded
project BiCIKL: Biodiversity
Community Integrated Knowledge
Library

Open Access Journals in Biodiversity



Why publish data?

- **Data authors, data managers and their institutions:** credit, citations, registration of priority and “data ownership”
- **Science managers:** measure impact of published data via citation metrics; proves the Open Science agenda
- **Publishers:** drive visits and citations of data to their journals
- **Data users:** facilitate data discovery, use and re-use
- **Data aggregators:** publication improves data quality!
- **Society in general:** multiplies the public investments in data collecting and maintenance

Data publishing benefits also AI

To understand the complexity of past, recent and future changes in biodiversity and natural environments

the training and use of AI tools

should be based on

adequately curated, semantically structured and interlinked biodiversity data

Means of data publishing

- Standalone data publishing (GBIF, GenBank, etc.)
- Data published together with a research article
 - within the article narrative (specimen records, tables)
 - supplementary file(s)
 - deposited in a repository and linked in the article
- Data published as **data papers**

Advanced Open Data Publishing

DATA

- publishing
- audit & peer review
- deposition
- reuse
- mobilization



How to publish biodiversity data?



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About Pensoft

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Lyubomir Penev



Guidelines

Research Ideas and Outcomes 3: e12431
<https://doi.org/10.3897/rio.3.e12431> (28 Feb 2017)

Reviewed

v1



XML

PDF



0



Strategies and guidelines for scholarly publishing of biodiversity data

▼ Lyubomir Penev, Daniel Mietchen, Vishwas Shravan Chavan, Gregor Hagedorn, Vincent Stuart Smith, David Shotton, Éamonn Ó Tuama, Viktor Senderov, Teodor Georgiev, Pavel Stoev, Quentin John Groom, David Remsen, Scott C. Edmunds

Abstract ▲

The present paper describes policies and guidelines for scholarly publishing of biodiversity and biodiversity-related data, elaborated and updated during the Framework Program 7 EU BON project, on the basis of an earlier version published on Pensoft's website in 2011. The document discusses some general concepts, including a definition of datasets, incentives to publish data and licenses for data publishing. Further, it defines and compares several routes for data publishing, namely as (1) supplementary files to research articles, which may be made available directly by the publisher, or (2) published in a specialized open data repository with a link to it from the research article, or (3) as a data paper, i.e., a specific, stand-alone publication describing a particular dataset or a collection of datasets, or (4) integrated narrative and data publishing through online import/download of data into/from manuscripts, as provided by the Biodiversity Data Journal.

Contents

Article info

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Data Publishing in a Nutshell

- Introduction
- What Is a Dataset
- Why Publish Data
- How to Publish Data
- How to Cite Data

Data Publishing Policies

- General Policies for Biodiversity data
- Data Publishing Licenses

Data Deposition in Open Repositories

- General Information
- Taxonomy
- Species-by-Occurrence and Sample-Based data

The background of the slide features a deep space theme with a dark blue and purple nebula. The nebula has wispy, glowing clouds of gas and dust, with brighter starlight visible against the dark background. Numerous small, white stars of varying sizes are scattered across the entire background.

What is a “Data paper”?

The Data paper is:

- A standard, already widely accepted type of scholarly article
- It does not analyse data, it describes data
- Extended “metadata description” of the data
- A key element of Open Science

Data Paper concept for biodiversity (2011)



BMC Bioinformatics

Home About Articles Submission Guidelines

Abstract
Background
The data paper
Discussion
Conclusions
Declarations
References

Volume 12 Supplement 15

Data publishing framework for primary biodiversity data

Download PDF

Export citations ▾

Research | Open Access

The data paper: a mechanism to incentivize data publishing in biodiversity science

Metrics

Article accesses: 16537

Citations: 67 [more information](#)

Altmetric Attention Score: 76



Vishwas Chavan [†]✉ and Lyubomir Penev [†]

[†]Contributed equally

BMC Bioinformatics 2011 12 (Suppl 15) :S2

<https://doi.org/10.1186/1471-2105-12-S15-S2> | © Chavan and Penev; licensee BioMed Central Ltd. 2011

Published: 15 December 2011

Share This Article

Examples of data papers

Data Paper

Biodiversity Data Journal 12: e135019
<https://doi.org/10.3897/BDJ.12.e135019> (18 Oct 2024)

Occurrences of Neuroptera and Raphidioptera in some regions in European Russia

Alexander Ruchin, Vladimir Makarkin, Mikhail Esin, Leonid Egorov, Oleg Artaev, Evgeniy Lobachev, Sergey Lukyanov, Vasili Anikin, Anatoliy Khapugin, Gennadiy Semishin

Abstract ▲

Background

The document presents an extensive set of data on the occurrence of **Neuroptera** and **Raphidioptera** in some regions of European Russia. The results of our own research, as well as scientific collections, have been processed. The data were collected in 17 regions. In our own research, we used different ways to obtain information, which allowed us to collect extensive material for the dataset. This dataset provides valuable information about the biodiversity of **Neuroptera** and **Raphidioptera**, the abundance of each taxon collected and the time of taxon collections.

New information

Our dataset contains up-to-date information on the occurrence of **Neuroptera** and **Raphidioptera** in

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Article metadata

Introduction

General description

Sampling methods

Geographic coverage

Taxonomic coverage

Temporal coverage

Usage licence

Data resources

Additional information

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Data Paper

Biodiversity Data Journal 12: e117169
<https://doi.org/10.3897/BDJ.12.e117169> (16 May 2024)

XML PDF 



The InBIO Barcoding Initiative Database: DNA barcodes of Portuguese moths

▼ Sónia Ferreira, Martin F. V. Corley, João Nunes, Jorge Rosete, Sasha Vasconcelos, Vanessa A. Mata, Joana Veríssimo, Teresa L Silva, Pedro Sousa, Rui Andrade, José Manuel Grosso-Silva, Catarina J. Pinho, Cátia Chaves, Filipa MS Martins, Joana Pinto, Pamela Puppo, Antonio Muñoz-Mérida, John Archer, Joana Pauperio, Pedro Beja

Abstract ▲

Background

The InBIO Barcoding Initiative (IBI) Dataset - DS-IBILP08 contains records of 2350 specimens of moths (*Lepidoptera* species that do not belong to the superfamily *Papilioidea*). All specimens have been morphologically identified to species or subspecies level and represent 1158 species in total. The species of this dataset correspond to about 42% of mainland Portuguese *Lepidoptera* species. All specimens were collected in mainland Portugal between 2001 and 2022. All DNA extracts and over 96% of the specimens are deposited in the IBI collection at CIBIO, Research Center in Biodiversity and Genetic Resources.

New information

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Article metadata

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Project description

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Data Paper

Biodiversity Data Journal 5: e11764
<https://doi.org/10.3897/BDJ.5.e11764> (21 Mar 2017)

XML PDF



A global map of saltmarshes

Chris J Mcowen, Lauren V Weatherdon, Jan-Willem Van Bochove, Emma Sullivan, Simon Blyth, Christoph Zockler, Damon Stanwell-Smith, Naomi Kingston, Corinne S Martin, Mark Spalding, Steven Fletcher

Abstract ▾

Background

Saltmarshes are extremely valuable but often overlooked ecosystems, contributing to livelihoods locally and globally through the associated ecosystem services they provide, including fish production, carbon storage and coastal protection. Despite their importance, knowledge of the current spatial distribution (occurrence and extent) of saltmarshes is incomplete. In light of increasing anthropogenic and environmental pressures on coastal ecosystems, global data on the occurrence and extent of saltmarshes are needed to draw attention to these critical ecosystems and to the benefits they generate for people. Such data can support resource management, strengthen decision-making and facilitate tracking of progress towards global conservation targets set by multilateral environmental agreements, such as the Aichi Biodiversity Targets of the United Nations' (UN's) Strategic Plan for Biodiversity 2011-2020, the Sustainable Development Goals of the UN's 2030 Agenda for Sustainable Development and the Ramsar Convention.

New information

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Nanopubs



Crossref (296)
Cited-by Linking

Scopus (317)



Europe PM

M. Aranda, G. Peralta, J. Montes, F.J. Gracia, G.S. Flavash, T.J. Bouma, D. van der Wal (2022)

Salt marsh fragmentation in a mesotidal estuary: Implications for medium to long-term management. Science of The Total Environment 846: 157410.



DOI: [10.1016/j.scitotenv.2022.157410](https://doi.org/10.1016/j.scitotenv.2022.157410)

Daniel M. Alongi (2020)

Carbon Balance in Salt Marsh and Mangrove Ecosystems: A Global Synthesis. Journal of Marine Science and Engineering 8: 767.



DOI: [10.3390/jmse8100767](https://doi.org/10.3390/jmse8100767)

Ralph J. M. Temmink, Leon P. M. Lamers, Christine Angelini, Tjeerd J. Bouma, Christian Fritz, Johan van de Koppel, Robin Lexmond, Max Rietkerk, Brian R. Silliman, Hans Joosten, Tjisse van der Heide (2022) **Recovering wetland biogeomorphic feedbacks to restore the world's biotic carbon hotspots.** Science 376: .

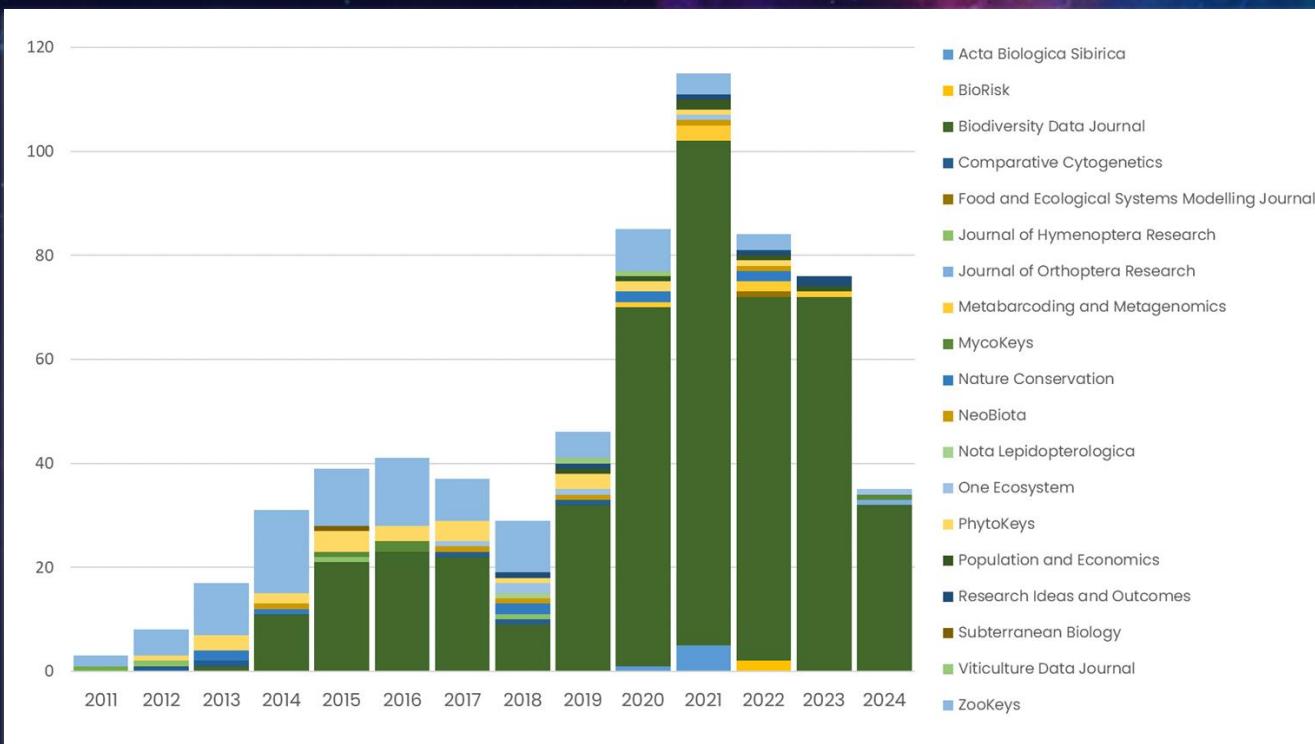


DOI: [10.1126/science.abn1479](https://doi.org/10.1126/science.abn1479)

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Data papers in Pensoft's journals

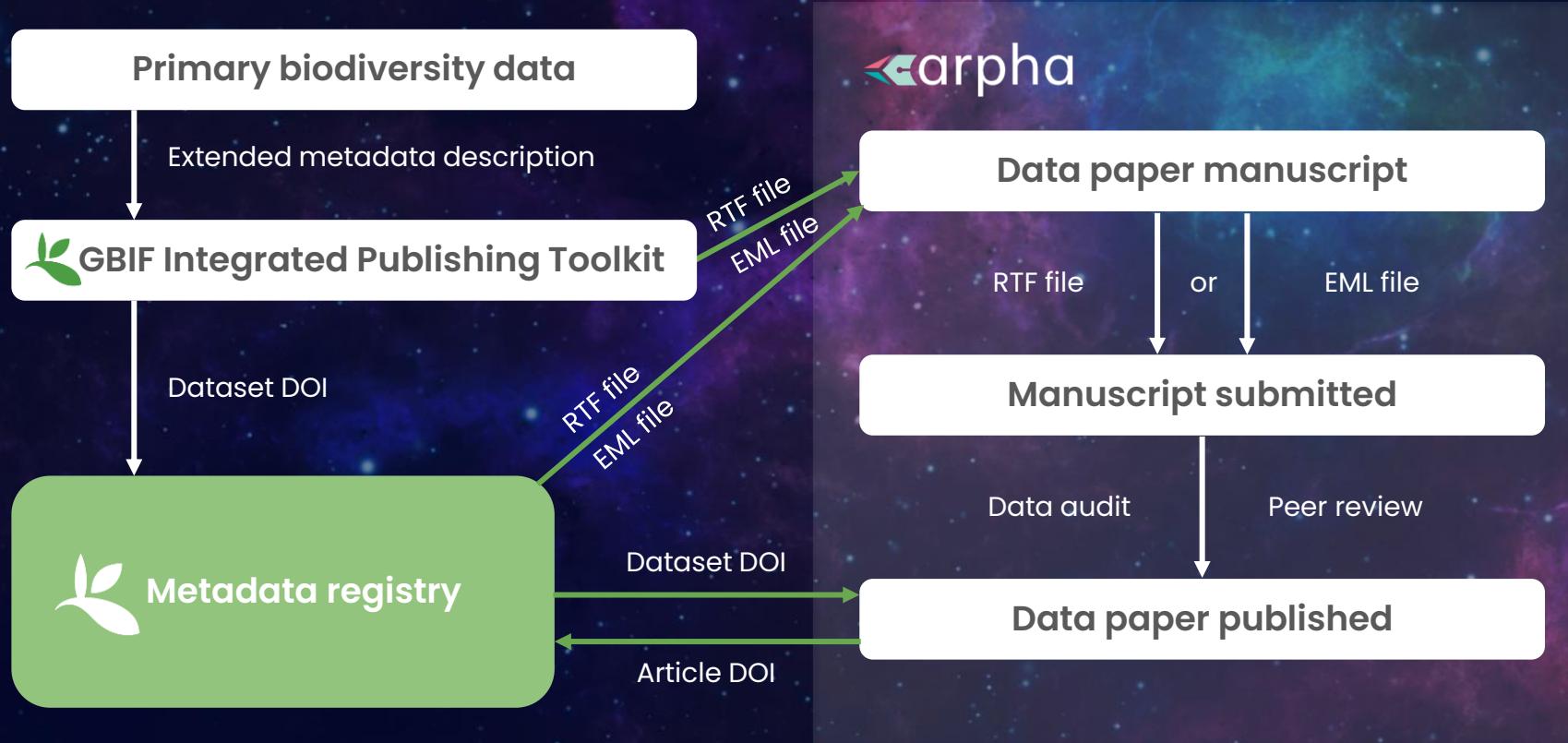


More than
700
Data papers
published
in Pensoft's
journals

Publishing GBIF data papers with Pensoft

Improving data quality

Data Paper workflows



Download EML or RTF metadata file

The screenshot shows two separate dataset pages from the IPT website.

Left Dataset: A checklist to the wasps of Peru (Hymenoptera, Aculeata).
Published by ZooKeys on 17 February 2011.
The first checklist to the 225 genera and 1169 reported species of Peruvian entomological collections and include locality information provided when available. The occurrence data are published in 10.3897/zookeys.15.196.app.3.ds, and 10.3897/zookeys.15.196.app.4.ds. Following new combinations are proposed: Ancistrocerus (1912).

Download links: GBIF, DWC-A, **EML**, **RTF**, Versions, etc.

Right Dataset: A dataset of bird inventory records at Cloudbridge Nature Reserve, Talamanca Mountains, Costa Rica, between March 2016 and May 2020.
Published by Check List
Powell J
OCCURRENCE DATASET | REGISTERED JANUARY 27, 2022

Download links: DATASET, PROJECT, METRICS, ACTIVITY, DOWNLOAD, GBIF annotated archive (Recommended), Source archive Darwin Core Archive, **GBIF annotated metadata EML**.

Metrics:
40,263 OCCURRENCES | 32 CITATIONS
40,263 GEOREFERENCED RECORDS
40,263 OCCURRENCES | 100% With taxon match | 100% With coordinates | 100% With year

Upload the GBIF EML file and create a data paper manuscript

The screenshot shows the carphadatapaper writing tool interface. At the top, there's a navigation bar with links for View dashboard, Messages, Collections, Reviewers, Email contributors, Helpdesk, Tips and tricks, Tutorial, and Revision history. On the right, there's a user profile for Mr Teodor Georgiev.

The main content area is titled "Data Paper (Biosciences)". It features a toolbar with various icons for document editing. Below the toolbar, the title of the manuscript is displayed: "A checklist to the wasps of Peru (Hymenoptera, Aculeata)".

The manuscript content includes:

- Authors:** Teodor Georgiev
- Corresponding author:** Teodor Georgiev (preprint@pensoft.net)
- Open Access:** OPEN ACCESS
- Abstract:** A detailed description of the checklist, mentioning 225 genera and 1169 reported species-group taxa of aculeate wasps from Peru, based on literature surveys and examination of Peruvian entomological collections.
- Background:** A brief overview of the study area and methodology.
- Keywords:** Aculeata, Biodiversity, Gazetteer, Hymenoptera, Sampling coverage, Peru
- Introduction:** A section describing the purpose and scope of the checklist.

The left sidebar contains a navigation menu with sections like Authors, Contributors, Article metadata (Title, Abstract & Keywords, Classifications, Funder, Nanopublications), Introduction, General description, Project description, Sampling methods, Geographic coverage, Taxonomic coverage, Traits coverage (Data coverage of traits), Temporal coverage, Collection data, Usage licence, Data resources, Additional information, Acknowledgements, and Author contributions.

Data audit & peer review

Improving data quality

Author-performed data check

A peer-reviewed open-access journal

Biodiversity Data Journal
Making your data count! ISSN 1314-2828 (online)

Search this journal... 

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About Articles Topical collections Nanopublications Author Guidelines Editorial Team Contacts

About

Author Guidelines

Data Publishing Guidelines

Data Quality Checklist and Recommendations

FAIR Data Checklist

Linked Data Table for Primary Biodiversity Data

Data Review Guidelines

Omics Data Papers

What is "omics" data?

Where do I deposit my omics data and metadata?

CHECKLIST

Characters

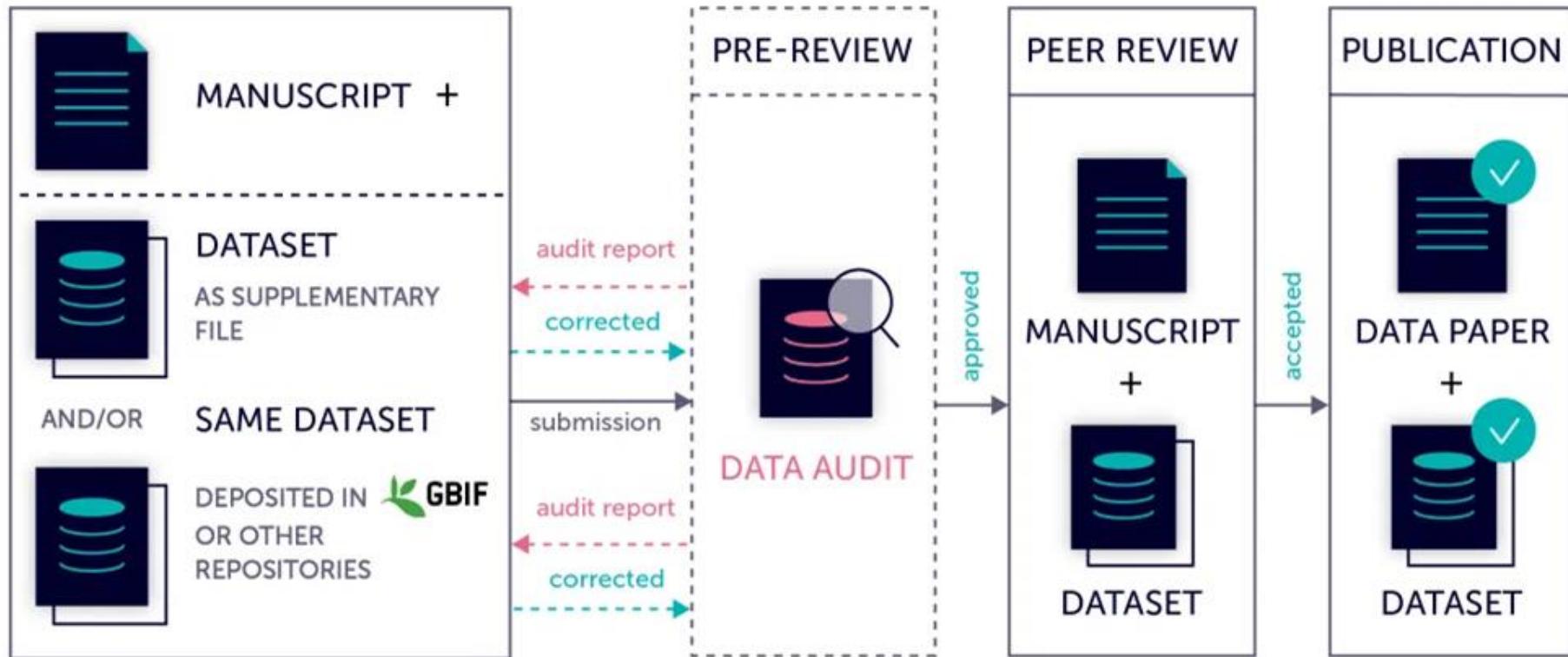
- The dataset is UTF-8 encoded
- The only characters used that are not numbers, letters or standard punctuation, are tabs and whitespaces
- Each character has only one encoding in the dataset
- No line breaks within data items
- No field-separating character within data items (tab-separated data preferred)
- No "?" or replacement characters in place of valid characters
- No Windows carriage returns
- No leading, trailing, duplicated or unnecessary whitespaces in individual data items

Records

- No broken records, i.e. records with too few or too many fields
- No blank records



Editor-performed data check



Data audit report: list of errors



- inappropriately used fields
- non-compliance with the Darwin Core recommendations
- pseudo-duplicates
- data inconsistency

(7) *municipality* has "_" for EC42F49A-68D5-4504-8F9E-0010859712A1.

(8) *locality* needs cleaning for the many pseudo-duplicates, e.g.

2 casco urbano, avda. del Brillante, nº 187, carril de la Huerta de los Arcos
7 casco urbano, avda. del Brillante, nº 187, carril Huerta de los Arcos
7 casco urbano, avda. del Brillante, nº 187, Carril Huerta los Arcos

and the many unnecessarily quoted entries, e.g.

"casa ""Rompealbardas"""
""Villa Carmen"", ""El Calvario""

Also, *locality* is "_" for CC465E40-9868-4B01-8D2B-5CB9AC747674 and 8547AA0D-682B-4848-B31F-0399427D51FA

(9) *decimalLatitude* errors:

1 30S266977.44
1 37,91560°
1 40.9449°
1 41.9425N

Also, several entries have too many significant figures and should be rounded off, e.g. "37.0233172796695"

Data audit report: recommendations



Data audit for technical evaluation of

Vascular plants dataset of the COFC herbarium (University of Cordoba, Spain) (associated GBIF dataset)

Downloaded on 2019-06-19 from <https://www.gbif.org/dataset/837c0162-f762-11e1-a439-00145eb45e9a>

Dr Robert Mesibov (robert.mesibov@gmail.com; <https://www.datafix.com.au>)
2019-06-20 Rec

About this evaluation

Pensoft does a technical evaluation of the dataset (or datasets) referred to in the data paper. If there are problems, the data paper manuscript is referred to reviewers. If the dataset has major problems, the dataset has been corrected.

To see what features of a dataset are checked in a technical evaluation, please go to [the technical evaluation page](#).

<https://zoolegs.pensoft.net/about#DataQualityChecklistandRecommendations>

Please note that Pensoft does not check the details of the *content* of a dataset, for example scientific name, or whether the correct latitude/longitude is given for a locality.

Recommendation. The dataset associated with the manuscript has been processed on to review. However, there are many data problems in the GBIF upload, and problems be fixed and the data re-uploaded to GBIF for processing. The problem field in the field order in the dataset.

Many of the problems are not trivial and are causing data loss. For example, the 4360-86C7-5C9D483D6DAE is "30S266977.44". GBIF has rejected the location (<https://www.gbif.org/occurrence/2235670578>).

Recommendation. The dataset associated with the manuscript has been processed by GBIF and the data paper could go on to review. However, there are many data problems in the GBIF upload, and I recommend to the authors that these problems be fixed and the data re-uploaded to GBIF for processing. The problems are detailed below by Darwin Core field in the field order in the dataset.

[†] Many of the problems are not trivial and are causing data loss. For example, the decimalLatitude in FF92A873-601C-4360-86C7-5C9D483D6DAE is "30S266977.44". GBIF has rejected the location as "Coordinate invalid" (<https://www.gbif.org/occurrence/2235670578>).

In addition, the number of records in the dataset uploaded to GBIF (**verbatim.txt** in the user download) does not always agree with the number of records given in the data paper:

Family	Data paper	verbatim.txt
Asteraceae	8625	8625
Fabaceae	7929	7929
Poaceae	6324	5513 (as stated in paper, without 811 <i>Festuca</i> records)
Lamiaceae	3105	3087
Caryophyllaceae	2156	2156
Plantaginaceae	2023	750
Brassicaceae	1851	1852
Apiaceae	1707	1707
Ranunculaceae	1319	1318
Boraginaceae	1111	1289

Genus	Data paper	verbatim.tx
Centaurea	1538	1537
Trifolium	1406	1406
Euphorbia	768	756

Data published in GBIF by the journal



Biodiversity
Data Journal

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Teodor Georgiev



Taxonomy & Inventories

Biodiversity Data Journal 12: e124006
<https://doi.org/10.3897/BDJ.12.e124006> (25 Apr 2024)

XML

PDF



A new species of *Otacilia* Thorell, 1897 (Araneae, Phrurolithidae) from Yintiaoling National Nature Reserve, Chongqing, China

▼ Changbin Zheng, Yannan Mu

Abstract ▲

Background

Phrurolithidae is a family of spiders with 395 species belonging to 26 genera distributed worldwide, of which 205 species belong to 17 genera was recorded in China.

New information

Contents Article Info Cite Metrics Comment Related

Figs Map Taxa Data Refs Cited Nanopubs

💡 Tables and Figures, if present, can be downloaded from the article.

Explore this dataset on GBIF

Download all occurrences as Darwin Core Archive

Download all treatments as Darwin Core Archive



Data visualised on GBIF

Get data How-to Tools Community About

TREATMENT ARTICLE | REGISTERED MAY 3, 2024

A new species of *Otacilia* Thorell, 1897 (Araneae, Phrurolithidae) from Yintiaoling National Nature Reserve, Chongqing, China

Mediated by [Biodiversity Data Journal](#)

Mu Y

DATASET TAXONOMY METRICS ACTIVITY DOWNLOAD

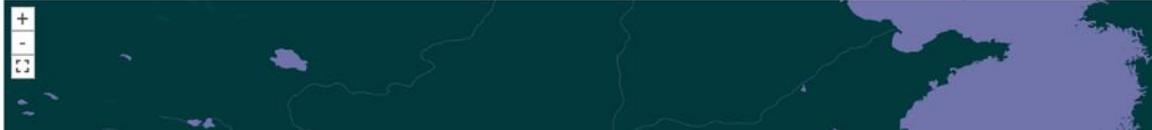
1 MATERIAL EXAMINED 1 RECORD

Phrurolithidae is a family of spiders with 395 species belonging to 26 genera distributed worldwide, of which 205 species belong to 17 genera recorded in China. A new species of the genus *Otacilia* Thorell, 1897 is described from Yintiaoling National Nature Reserve, Chongqing, China. Diagnosis, morphological description, photos of the habitus and genitalia of the new species are provided.

Publication date: April 24, 2024
Metadata last modified: May 3, 2024
Hosted by: Biodiversity Data Journal
Licence: CC BY 4.0
[How to cite DOI 10.3897/bdj.12.e124006](#)

1 Occurrences	100% With taxon match	100% With coordinates	100% With year
1 Accepted names	0 Synonyms	85% Overlap with GBIF Backbone	71% Overlap with Catalogue of Life

1 GEOFERENCED RECORD



Taxon descriptions and specimen records on GBIF



Get data How-to Tools Community About

Search Login

Classification

Select a species

You are browsing: A new species of *Otacilia* Thorell, 1897 (Araneae, Phrurolithidae) from Yintiaoling National Nature Reserve, Chongqing, China

Kingdom Animalia

Phylum Arthropoda

Class Arachnida

Order Araneae

Family Phrurolithidae

Genus *Otacilia*

Species *Otacilia wuxi* Zheng & Mu

No children

SPECIES | ACCEPTED

Otacilia wuxi Zheng & Mu

In: Zheng C, Mu Y (2024) A new species of *Otacilia* Thorell, 1897 (Araneae, Phrurolithidae) from Yintiaoling National Nature Reserve, Chongqing, China. Biodiversity Data Journal 12: e124006. <https://doi.org/10.3897/BDJ.12.e124006>

Mediated through: Biodiversity Data Journal

TREATMENT VERBATIM

SOURCE

Male: total length 5.01, carapace 2.19 long, 1.91 wide; abdomen 2.59 long, 1.67 wide. Eye sizes and interdistances: AME 0.14, ALE 0.15, PME 0.11, PLE 0.13, AME–AME 0.04, AME–ALE 0.02, PME–PME 0.16, PME–PLE 0.09, ALE–PLE 0.15. MOA 0.37 long, anterior width 0.30, posterior width 0.42. Clypeal height 0.19. Chelicerae with three promarginal and eight retromarginal teeth. Measurements of legs: I 8.86 (2.34+3.44+2.00+1.08), II 7.05 (1.87 +2.59+1.55+1.04), III 6.18 (1.70+1.93+1.58+0.97), IV 9.46 (2.52+2.95+2.62+1.37). Spination: tibia I pv 8 rv 8, tibia II pv 7 rv 7, metatarsus I pv 4 rv 4, metatarsus II pv 3 rv 3. Legs yellow. Carapace yellow, with several indistinct shapes resembling flowing water droplets beside fovea. Abdomen yellow, with a small, thin dorsal scutum and irregular black pattern anterior and four black chevron stripes posterior (Fig. 1A).

Palp. Femoral apophysis high, located at middle part of femur, well-developed (Fig. 1C and D). Dorsal tibial apophysis long and large, strongly curved as semi-elliptic, base wide, tapering from middle to tip (Fig. 1C and D); prolateral tibial apophysis distinct (Fig. 1B). Tegulum bean-shaped, wider than cymbium; tegular apophysis semicircular. Conductor membranous (Fig. 1B). Sperm duct obvious, tapering from retrolateral of tegulum to embolus. Embolus long, needle-like, strongly curved retrolaterally from basal part (Fig. 1B).

Female: unknown.

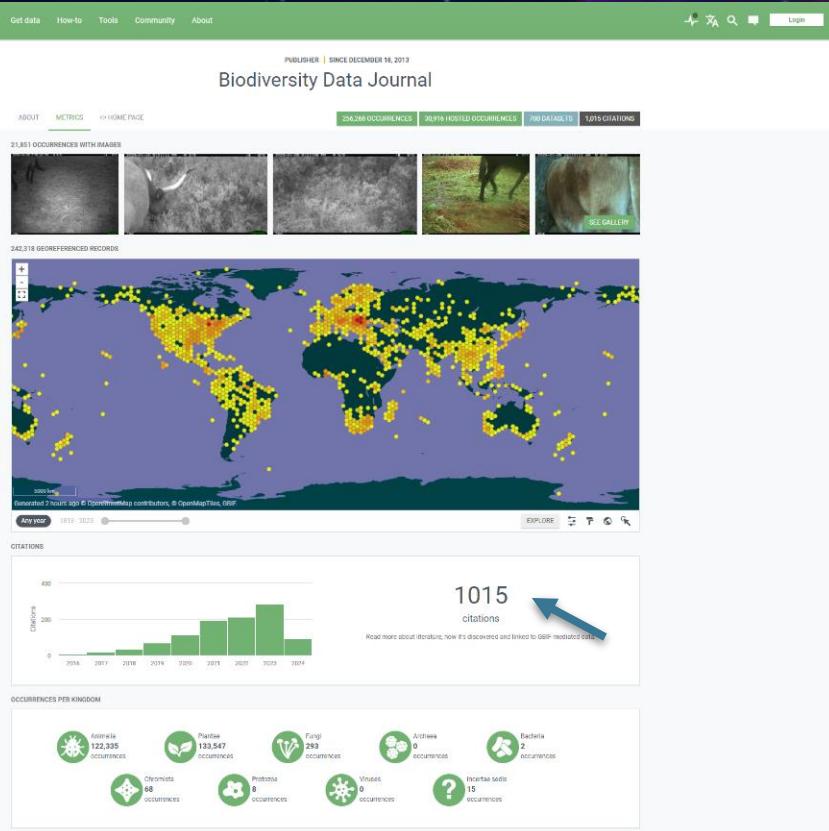
FIGURES



Figure 1

Otacilia wuxi sp. nov., male, holotype. A habitus; B left palp, ventral view; C same, prolateral view; D same, retrolateral view. Abbreviations: C—conductor; DTA—dorsal tibial apophysis; E—embolus; FA—femoral

Datasets from the Biodiversity Data Journal



Import of occurrence records from GBIF into manuscripts

The screenshot shows the carpha writing tool interface. The top navigation bar includes links for View dashboard, Messages, Collections, Reviewers, Email contributors, Helpdesk, Tips and tricks, Tutorial, and Revision history. The left sidebar has sections for Taxonomy & Inventories, Article metadata, Introduction, Materials and methods, Data resources, Taxon treatments, Checklists, Identification keys, and Analysis. The main content area displays a manuscript entry for *Cyclamen hederifolium* Aiton. It shows the corresponding author as Teodor Georgiev (preprint@penssoft.net), a copyright notice, and an open access icon. Below this is a section titled "Taxon treatment" with the taxon name *Cyclamen hederifolium* Aiton. A "Material" link is followed by a "Download as CSV" button. A detailed JSON-like string provides specific occurrence details:

```
a. scientificName: Cyclamen hederifolium Aiton; taxonConceptID: NBNSYS0000003933; taxonomicStatus: ACCEPTED; taxonID: NBNSYS0000003933; kingdom: Plantae; phylum: Tracheophyta; class: Magnoliopsida; order: Ericales; family: Primulaceae; taxonRank: SPECIES; vernacularName: Sowbread; genus: Cyclamen; specificEpithet: hederifolium; continent: EUROPE; country: United Kingdom of Great Britain and Northern Ireland; countryCode: GB; stateProvince: England; locality: Copse Hill, Brighton and Hove, Brighton BN1 5EG, UK; decimalLatitude: 50.858986; decimalLongitude: -0.155622; geodeticDatum: WGS84; coordinateUncertaintyInMeters: 50; eventID: 24740609; eventDate: 2024-01-13; startDayOfYear: 13; endDayOfYear: 13; year: 2024; month: 1; day: 13; individualCount: 1; occurrenceDetails: http://api.gbif.org/v1/occurrence/4594204304; recordedBy: Rudling, M. Milly; occurrenceStatus: PRESENT; collectionCode: iNaturalist | UK and IOM data; basisOfRecord: HUMAN_OBSERVATION; occurrenceID: D4572408-6EA4-5F3B-9801-947D19864F23
```

Parsing occurrence records using AI

 Search sections...

Abstract

Abstract

Keywords

> Introduction

Materials and methods

✓ Data resources

L Taxom

External Links

Nomenclature

► > Materials

Data resources

Enter section content

Taxon treatments

Materials [Download as CSV](#) or [XLSX](#)

Holotype

a. catalogNumber: HBUMM08381-spec. 1; recordedByID: Chen, Tian; locationID: Zhangjiadi, Yunhe County, Lishui, Zhejiang Province; locality: around oaks in remote forest; verbatimElevation: c. 820 m a.s.l.; decimalLatitude: 27.974; decimalLongitude: 119.379; eventDate: 2019-08; basisOfRecord: PreservedSpecimen;

Paratype.

a. catalogNumber: HBUMM08381-spec. 2; recordedByID: Chen, Tian; locationID: Zhangjiadi, Yunhe County, Lishui, Zhejiang Province; locality: around oaks in remote forest; verbatimElevation: c. 820 m a.s.l.; decimalLatitude: 27.974; decimalLongitude: 119.379; eventDate: 2019-08; basisOfRecord: PreservedSpecimen;

b. catalogNumber: HBUMMO8370-spec_1; recordedBy: Ye, Shi-Han; locationID: Mihougu, Fengyangshan, Longquan County, Lishui, Zhejiang Province; locality: Mihougu; verbatimElevation: 1100 m a.s.l.; decimalLatitude: 7.897; decimalLongitude: 119.159; eventDate: 2019-08-26; basisOfRecord: PreservedSpecimen;

Data mobilization

Filling the gaps

Special GBIF Data papers collections in BDJ



Biota of Russia (2020-2021)

Papers published: **59**
Total pages: **1204**
Unique views: **130627**
Total views: **202481**



Biota of Northern Eurasia (2022-2023)

Papers published: **11**
Total pages: **202**
Unique views: **16991**
Total views: **25287**



Soil biodiversity (2023-2024)

Papers published: **3**
Total pages: **86**
Unique views: **4009**
Total views: **5644**



Collection of data papers
on the biota of
Central Asia?

More than a decade together GBIF & Pensoft

Incentivizing data publishing

Improving data quality

Gathering more data

Saving time, minimizing errors

Filling the gaps

Share your data through GBIF!

Publish its metadata as data papers!



Lyubomir Penev,
l.penev@pensoft.net
Pensoft Publishers
pensoft.net

Гражданская наука, сохранение биоразнообразия и глобальные данные: объединение усилий



Александр Дубынин
Институт ботаники и фитоинтродукции

МЕЖДУНАРОДНЫЙ СИМПОЗИУМ
«ДАННЫЕ О БИОРАЗНООБРАЗИИ ГОР И ПУСТЫНЬ
ЕВРАЗИИ», 18–19 НОЯБРЯ 2024 г., АЛМАТЫ, КАЗАХСТАН

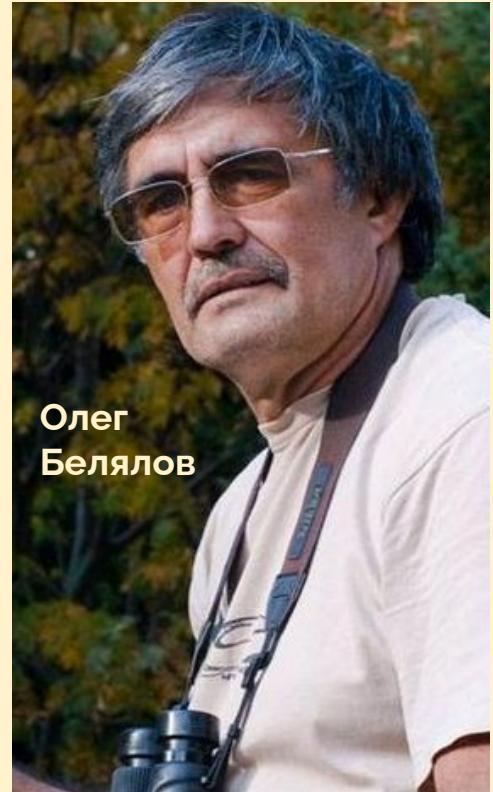


Необходимые пояснения

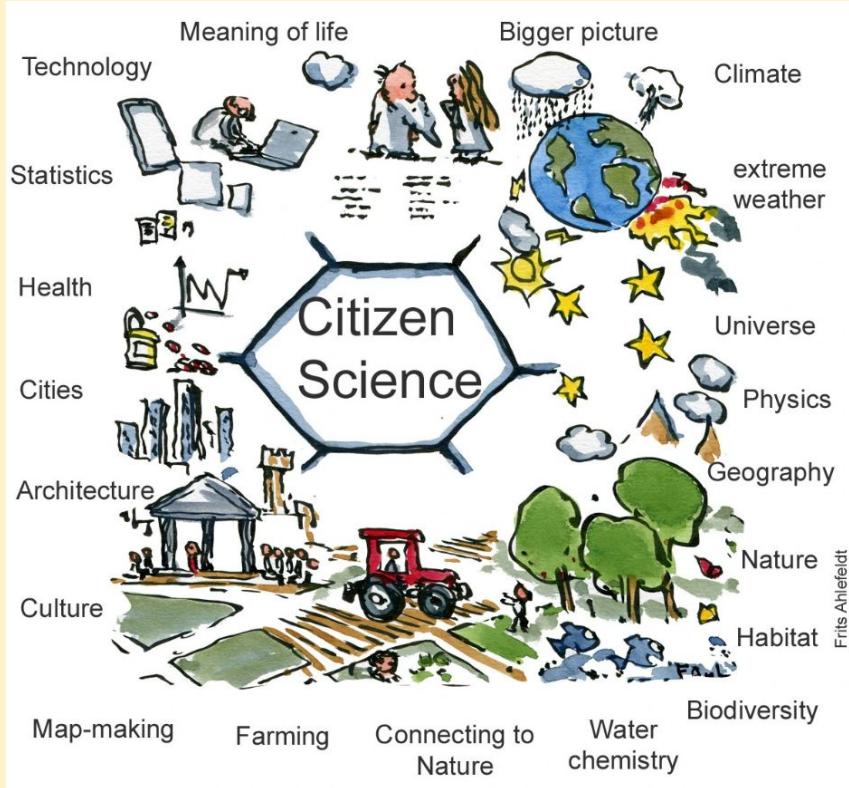
Гражданская наука (citizen science, community science), или научное волонтерство — концепция проведения научных исследований с привлечением широкого круга научных волонтеров.

"Citizen scientist" — это исследователь-любитель, человек, который вносит вклад в научные исследования на добровольной основе.

Биоразнообразие — разнообразие жизни во всех её проявлениях, а также показатель сложности биологической системы, разнокачественности её компонентов. Выделяют генетическое разнообразие (разнообразие генов и их вариантов — аллелей), видовое разнообразие (разнообразие видов в экосистемах) и экосистемное разнообразие (разнообразие самих экосистем).



Разнообразие гражданской науки



астрономия

технологии

статистика

города

архитектура

культура

карты

фермерство

связь с природой

химия воды

биоразнообразие

жилище

география

физика

Вселенная

климат

экстремальная

погода



• Zooniverse

- **Более 100 активных проектов** в областях астрономии, экологии, гуманитарных наук и др.
- **Сообщество:** свыше **2 миллионов** зарегистрированных пользователей по всему миру.

• SciStarter

- **Более 3 тысяч проектов** гражданской науки, доступных по всему миру.
- **Особенности:** поиск проектов по теме, местоположению, навыкам и времени участия.

• eBird

- **Свыше 1 миллиарда** записей наблюдений птиц.
- **Участники:** сотни тысяч орнитологов-любителей и профессионалов.

• Foldit

- **Тысячи пользователей** помогают решать задачи по сворачиванию белков через онлайн-игру.
- **Научные достижения:** вклад в открытие новых белковых структур, важных для медицины.

• Globe at Night

- **Более 200 тысяч наблюдений** уровня светового загрязнения со всего мира.
- **Цель:** понимание и снижение воздействия светового загрязнения на ночное небо и экосистемы.





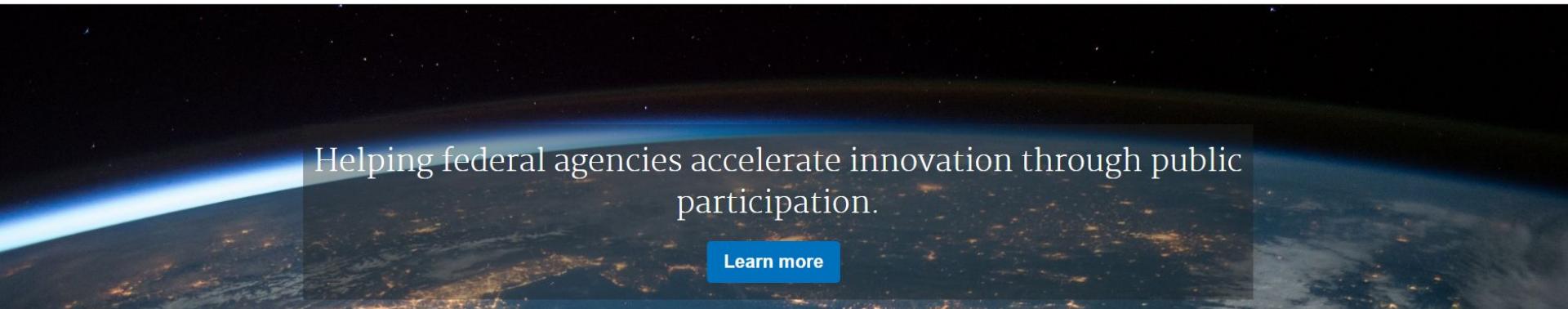
citizenscience.gov

About ▾ Catalog ▾ Toolkit ▾

США: 502 проекта

Blog

Search



Helping federal agencies accelerate innovation through public participation.

[Learn more](#)



[Explore Projects](#)

This searchable database provides a government-wide listing of citizen science and crowdsourcing projects



[Join Us](#)

There are two primary groups within the federal government working collaboratively to advance the use of

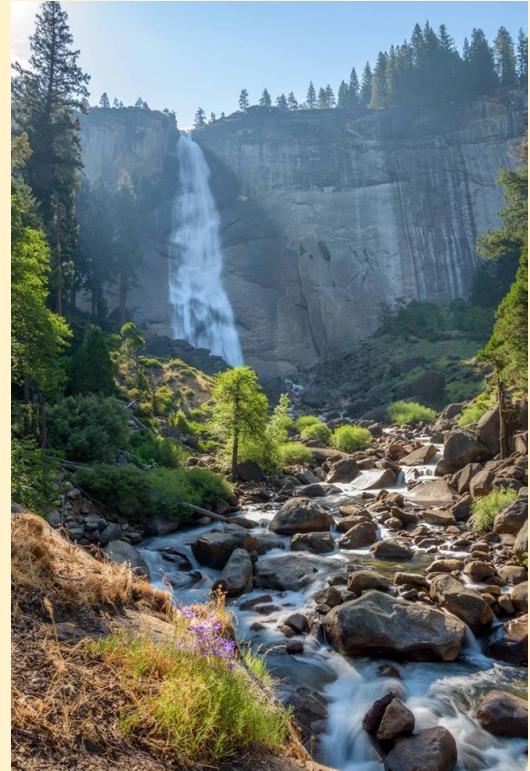


[Plan Your Projects](#)

The Toolkit provides five basic process steps for planning, designing and carrying out a crowdsourcing or

Факт 1. Вклад научных волонтеров в США сопоставим с госфинансированием науки

- ★ Элинор Дженкинс Теобальд и ее коллеги провели количественный обзор гражданской науки, связанной с биоразнообразием, чтобы определить, могут ли данные, собранные в рамках этих проектов, эффективно использоваться, и как они в настоящее время используются в исследованиях биоразнообразия.
- ★ 388 проектов, в основном реализуемых в США, 1,3 миллиона добровольцев, их вклад 2,5 миллиардов долларов в натуральной форме ежегодно.
- ★ Вывод: укрепление связей между профессиональными и непрофессиональными участниками научного процесса позволит лучше использовать этот большой ресурс данных для понимания и устранения последствий глобальных изменений для биоразнообразия.



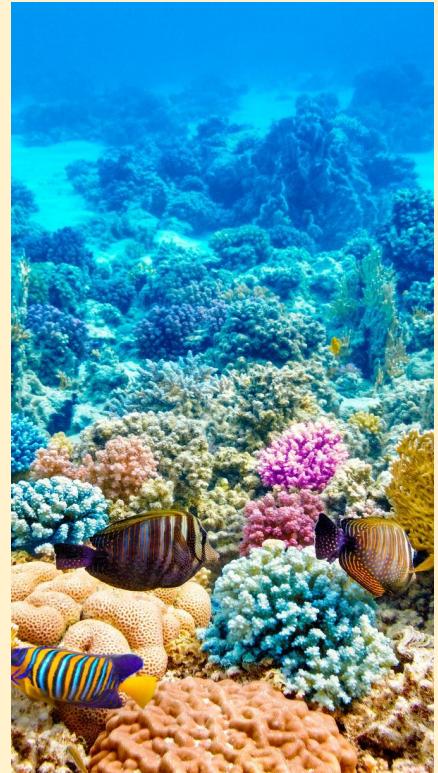
Факт 2. Проекты гражданской науки вносят большой вклад в образование

- ★ **Мария Питер и ее коллеги** исследовали роль проектов CS как формата образования в области окружающей среды и устойчивого развития, а также в естественнонаучном образовании.
- ★ Онлайн-опрос **1160 добровольцев**, участников CS в **63 проектах BDCS** в Европе, Австралии и Новой Зеландии.
- ★ **Эффект участия:** высокий потенциал! (1) **увеличение знаний, самоэффективности, интереса и мотивации** оказалось более выраженным в отношении окружающей среды, а не науки, (2) высокий **прирост навыков сбора данных**, (3) здоровье и благополучие, удовольствие, чувство удовлетворения, усиление связи с людьми и природой, а также **более пессимистичный взгляд на будущее окружающей среды** (пессимист — это хорошо информированный оптимист!).



Факт 3. Приоритет в сборе данных: распределение видов и оценка численности

- ★ **Марк Чандлер и его коллеги** оценили проекты CS на предмет их вклада в основные переменные биоразнообразия (**Essential Biodiversity Variables/EBV**).
- ★ **Вывод:** существующие проекты CS предоставляют значительные по охвату данные о распределении видов и численности популяций, фенологии, первичной и вторичной продуктивности экосистем.
- ★ **Мониторинг птиц, чешуекрылых и растений проводится повсеместно**, в то время как другие таксоны вызывают большой интерес только в отдельных регионах (грибы, амфибии, рептилии и таксоны коралловых рифов). Большинство проектов CS находятся в Европе, Северной Америке, Южной Африке, Индии и Австралии (Северная и Центральная Азия, Южная Америка отстают).



Global Biodiversity Information Facility (GBIF)

- ★ Крупнейший агрегатор данных о биоразнообразии планеты
- ★ Это международная сеть и инфраструктура данных, финансируемая правительствами стран мира и направленная на предоставление любому человеку в любом месте открытого доступа к данным обо всех видах жизни на Земле.
- ★ GBIF объединяет разнообразные источники данных с помощью стандартов данных, включая Darwin Core.
- ★ В настоящий момент более 2000 организаций опубликовали на сайте GBIF информацию о более чем 3,01 миллиардов записей
- ★ Сайт GBIF <http://gbif.org>



TOP10 поставщиков сведений в GBIF

- ★ Cornell Lab of Ornithology (eBird) 1 512 428 698**
- ★ UMS PatriNat (OFB-CNRS-MNHN), Paris 169 819 392**
- ★ SLU Artdatabanken, Sweden 108 088 266**
- ★ iNaturalist.org 101 233 851**
- ★ Observation.org 101 144 945**
- ★ Finnish Biodiversity Information Facility 46 348 955**
- ★ The Norwegian Biodiversity Information Centre (NBIC) 35 137 107**
- ★ Danish Ornithological Society 34 077 388**
- ★ Butterfly Conservation 31 255 557**
- ★ United States Geological Survey 30 994 402**



RG 136 657 864

GBIF и iNaturalist

- ★ В GBIF попадают не все записи из iNaturalist, а только имеющие «исследовательский уровень» и один из трех типов открытых лицензий (**CCo, CC BY, CC BY-NC**).
- ★ В январе 2023 года платформа **iNaturalist стала крупнейшим поставщиком данных по сосудистым растениям мира в GBIF**.
- ★ Тройка лидеров поставщиков GBIF-данных по сосудистым растениям из iNaturalist на 8 января 2023 г.: США (9 993 265 наблюдений), **Россия (1 959 783)** и Канада (1 821 636).





История iNaturalist: Беркли у истоков

- ★ 2008 iNaturalist.org — диплом студентов **Беркли Нейта Эгрина, Джессики Клайн и Кен-ичи Уеда**. Позднее к ним присоединился веб-разработчик **Син Макгрегор**
- ★ 2011 **Кен-ichi Уеда** начал сотрудничество со **Скотом Лоури**, из Стэнфорда, своим преподавателем в Беркли. Сейчас они на равных директора iNaturalist
- ★ 24.04.2014 iNaturalist вошел в состав **Калифорнийской Академии наук**
- ★ 2014 на iNaturalist **1 000 000** наблюдений
- ★ 2017 iNaturalist получил статус «совместной инициативы» Калифорнийской Академии наук и National Geographic (США)
- ★ 2023 iNaturalist стал **НКО** со статусом 501 с(3)
- ★ Сентябрь 2024 29th Heinz Awards вручена Скоту Лоури и Кен-ичи Уеда
- ★ 14.11.2024 на iNaturalist **218 623 832** наблюдений



«Самое красивое место
в Интернете»
The New York Times

Автор находки

Вы добавляете находки из своего аккаунта, пожалуйста загружайте только свои фотографии.



Предмет наблюдения

Определение организма до группы или более точно до вида. С фотографией можно совсем не заполнять это поле и дождаться помощи сообщества.

Место наблюдения

Найденная находка должна иметь координату и оценку ее точности. Координату можно скрыть, если необходимо.



Дата наблюдения

Записывайте дату находки, а не дату ее загрузки в ЯНатуралист.

Доказательство наблюдения

Добавляя фотографию или запись звука к наблюдению, вы даете возможность сообществу с ее помощью помочь или улучшить определение организма. Фотографии лучшего качества и с разных ракурсов помогут сделать это более качественно.



iNaturalist как технологический лидер: нейронная сеть для определения вида



V.2.17

Добавить Удалить Объединить Задвоить Выбрать все

Редактировать 1 наблюдение:

Подробности

Название вида

Дата

Местоположение

Примечания

Местоположение является о

В неболе / Культивируемое

Теги

Проекты

Поля

Время смещения



Название вида

Мы почти уверены, что это род:

 **Morus**
Род Шелковицы

Просмотреть

Вот наши лучшие предложения:

 **Morus microphylla**
Morus microphylla визуально похоже

Просмотреть

 **Morus alba**
Morus alba визуально похоже

Просмотреть

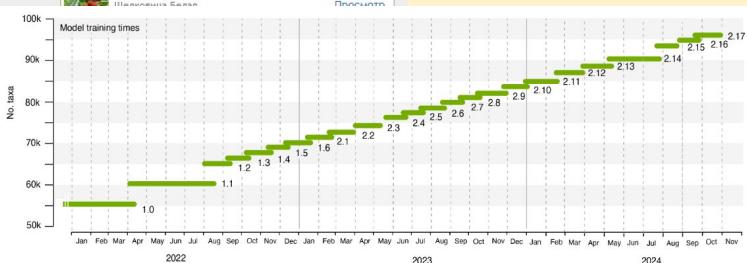
Model training times

No. taxa

Month	No. taxa
Jan	1.0
Feb	1.1
Mar	1.2
Apr	1.3
May	1.4
Jun	1.5
Jul	1.6
Aug	1.7
Sep	1.8
Oct	1.9
Nov	2.0
Dec	2.1
Jan	2.2
Feb	2.3
Mar	2.4
Apr	2.5

- ★ ИИ определяет 95 903 таксонов
 - ★ ИИ натренирован на >27 млн фото
 - ★ Надо загрузить 100 фото вида для ИИ

1145 таксонов
добавлено
9.11.2024



Sawfinger Scorpion (*Senoculus geritschi*)

Native to United States (Source: [U.S. Fish & Wildlife Service Check List](#))



The database **natrurama**  LAST OBSERVATION July 04, 2021 

Sensitivity  History Life Stages

Source: Wikipedia 

Senoculus geritschi is a species of scorpion in the family Vieiridae.^{[1][2]}

Subspecies

These two subspecies belong to the species *Senoculus geritschi*:

- *Senoculus geritschi geritschi*
- *Senoculus geritschi senilis*

References

1. "Senoculus geritschi". U.S. Fish & Wildlife Service. 2020-04-02.

2. "Senoculus geritschi". Wikipedia. 2020-07-01. Available at: [https://en.wikipedia.org/w/index.php?title=Senoculus_geritschi&oldid=92884949](#). Accessed 2020-07-01.

Team identifiers

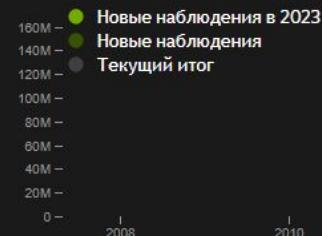
Computer Vision Model



The current Computer Vision Model knows about this taxon, so it might be included in automated suggestions with the "Visually Similar" label.

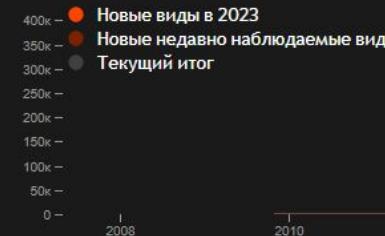


Рост



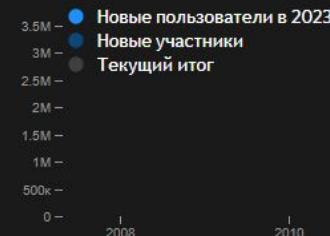
наблюдения

2018 2020 2022 2024



вида

2023

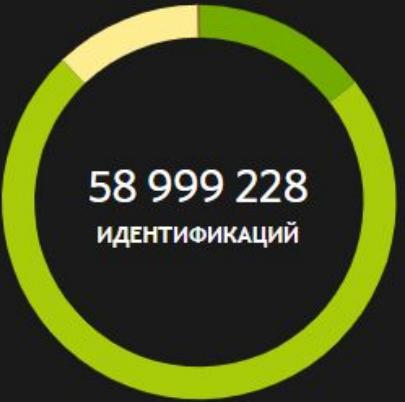
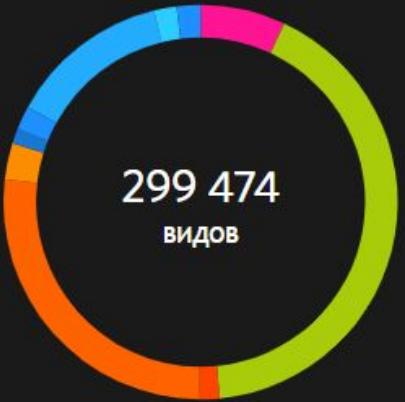
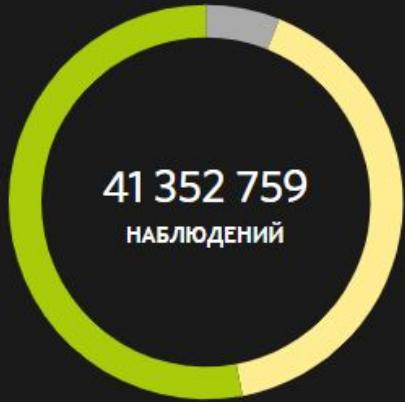


участники

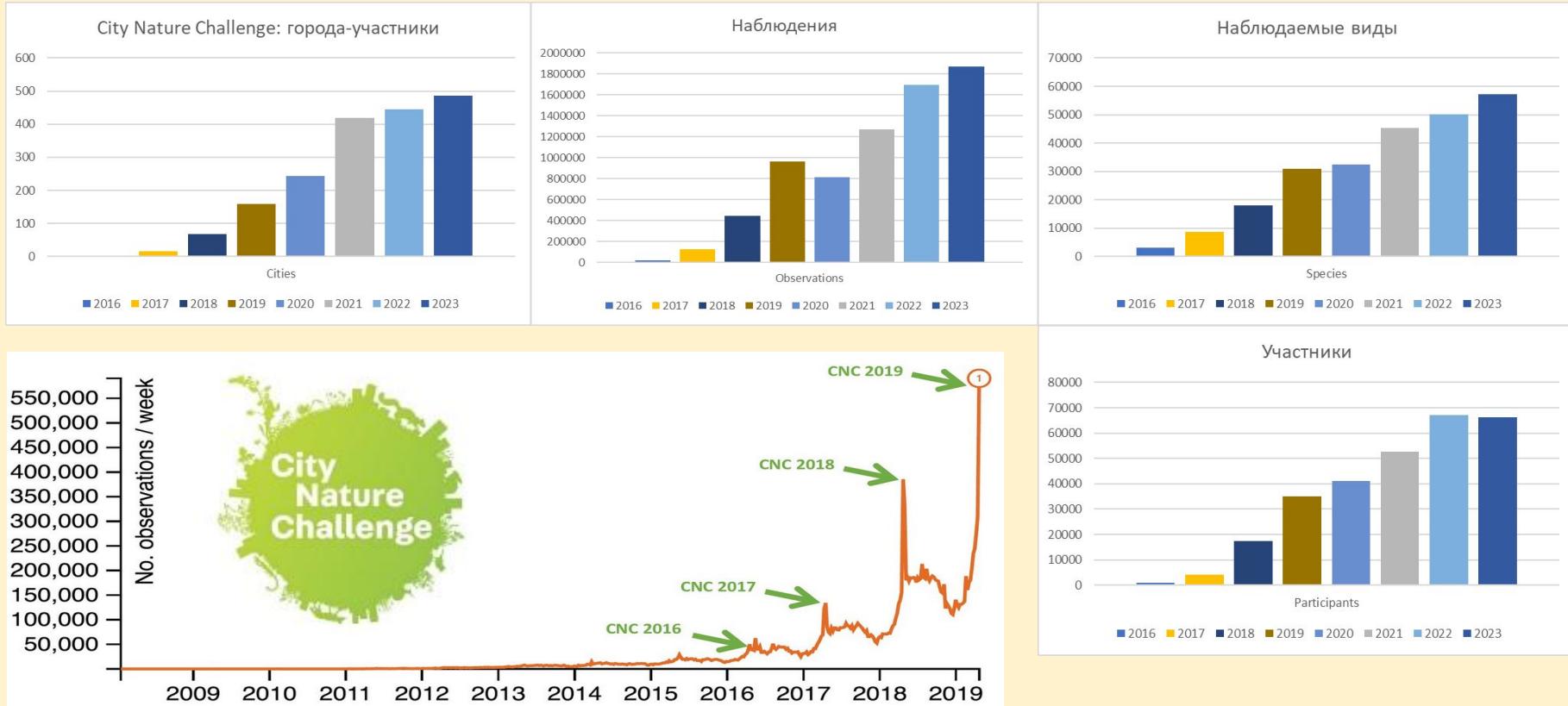


INATURALIST

2023



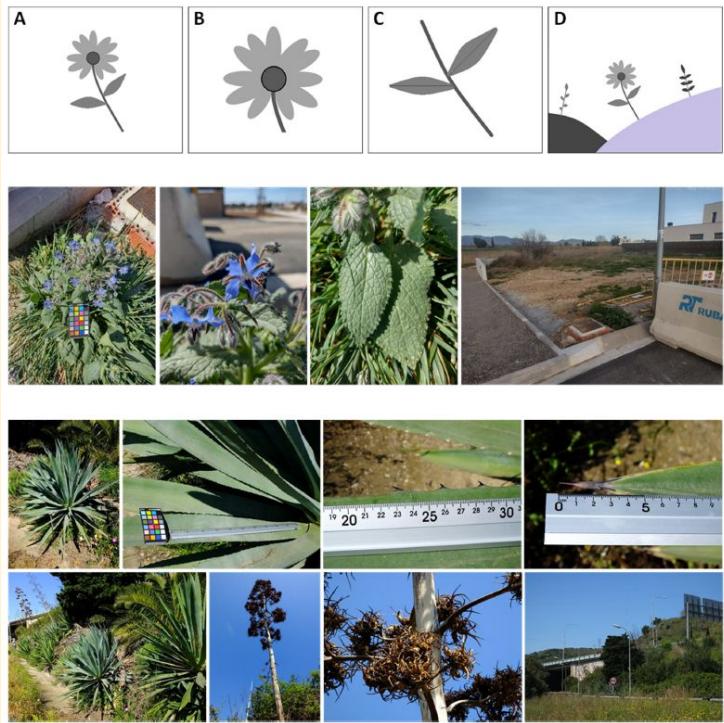
City Nature Challenge и другие библиотеки



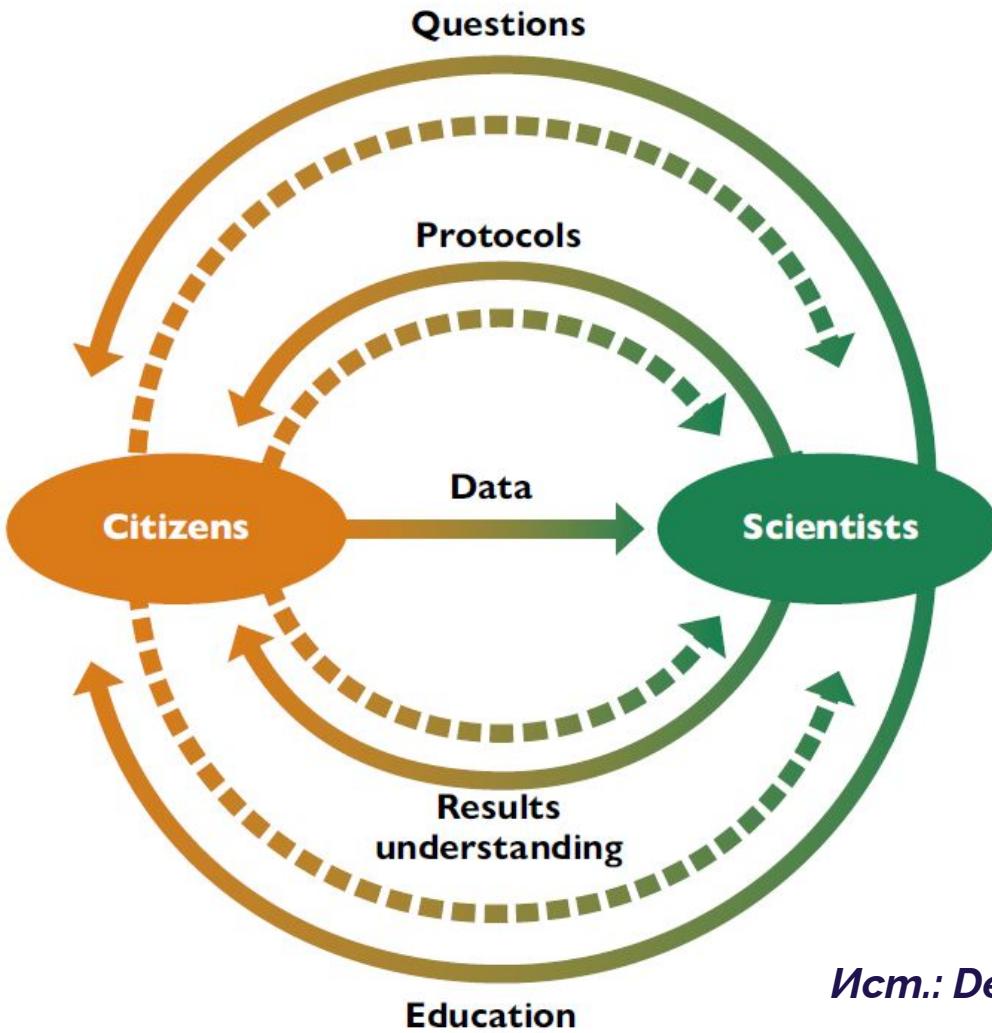


Трудности использования данных iNaturalist

- ★ Фотографии низкого качества, связанные с наблюдениями
- ★ Ошибки таксономической идентификации
- ★ Отсутствие различий между наблюдениями за видами в неволе и в дикой природе
- ★ Отсутствие точности в географических координатах
- ★ Дублированные записи
- ★ Таксоны, которые не могут быть включены в таксономический справочник растений iNaturalist



[Дополнительные материалы \(видео\)](#)



Десять принципов гражданской науки

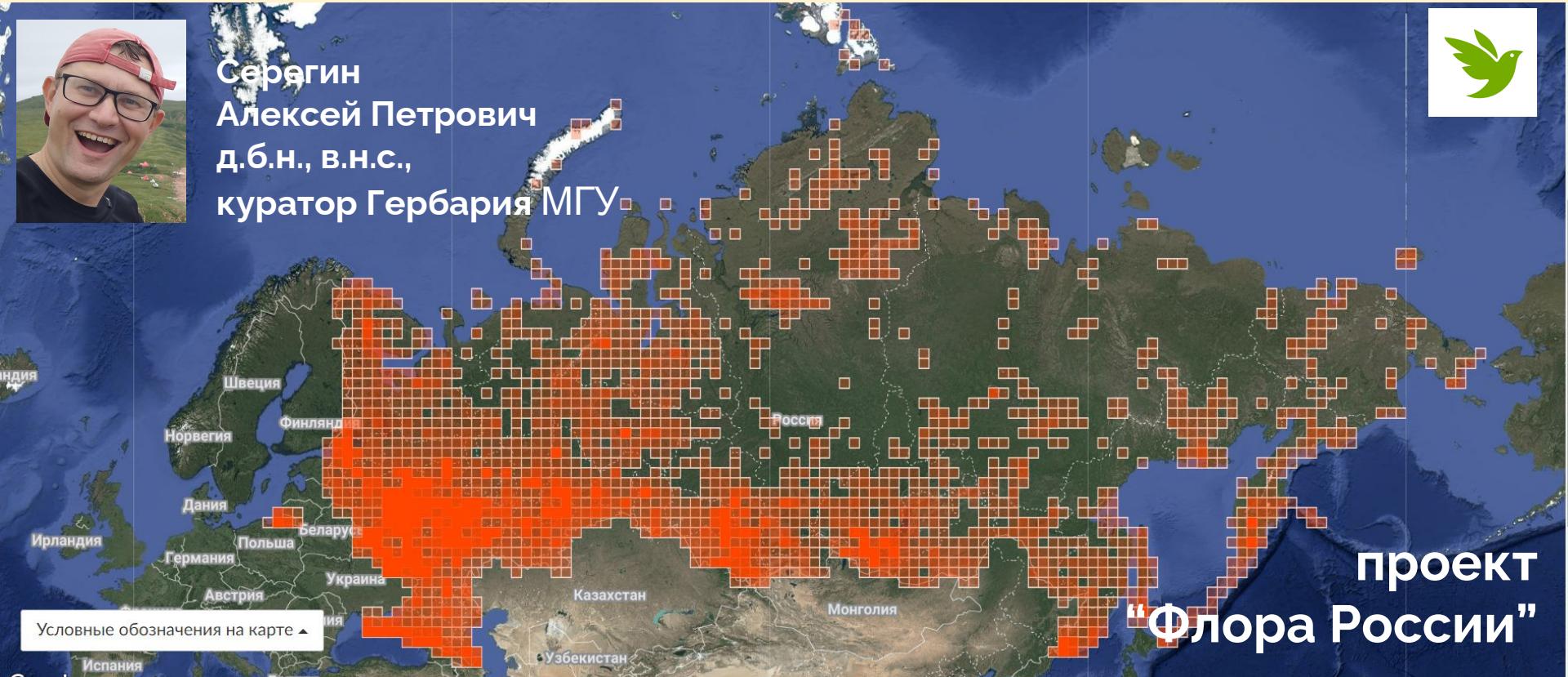
1. Гражданская наука активно привлекает людей к участию в научных исследованиях, в которых они играют значимую роль.
2. Проекты гражданской науки нацелены на получение настоящих научных результатов.
3. Участие в гражданской науке приносит пользу как профессиональным, так и гражданским ученым.
4. Гражданские исследователи могут участвовать на всех этапах научного процесса, если они этого хотят.
5. Проекты гражданской науки предоставляют участникам обратную связь о том, как используются их данные.
6. Гражданская наука имеет более широкие возможности для вовлечения общества.
7. Данные проектов гражданской науки становятся доступными общественности, а результаты публикуются в открытом доступе, если это возможно.
8. Вклад гражданских исследователей (научных волонтеров) признается в результатах и публикациях проектов.
9. Программы гражданской науки оцениваются по их научным достижениям, качеству данных и влиянию на общество.
10. Руководители проектов учитывают правовые и этические аспекты, включая вопросы авторства, конфиденциальности и охраны окружающей среды.



Источник



Серегин
Алексей Петрович
д.б.н., в.н.с.,
куратор Гербария МГУ



Весь мир

RG

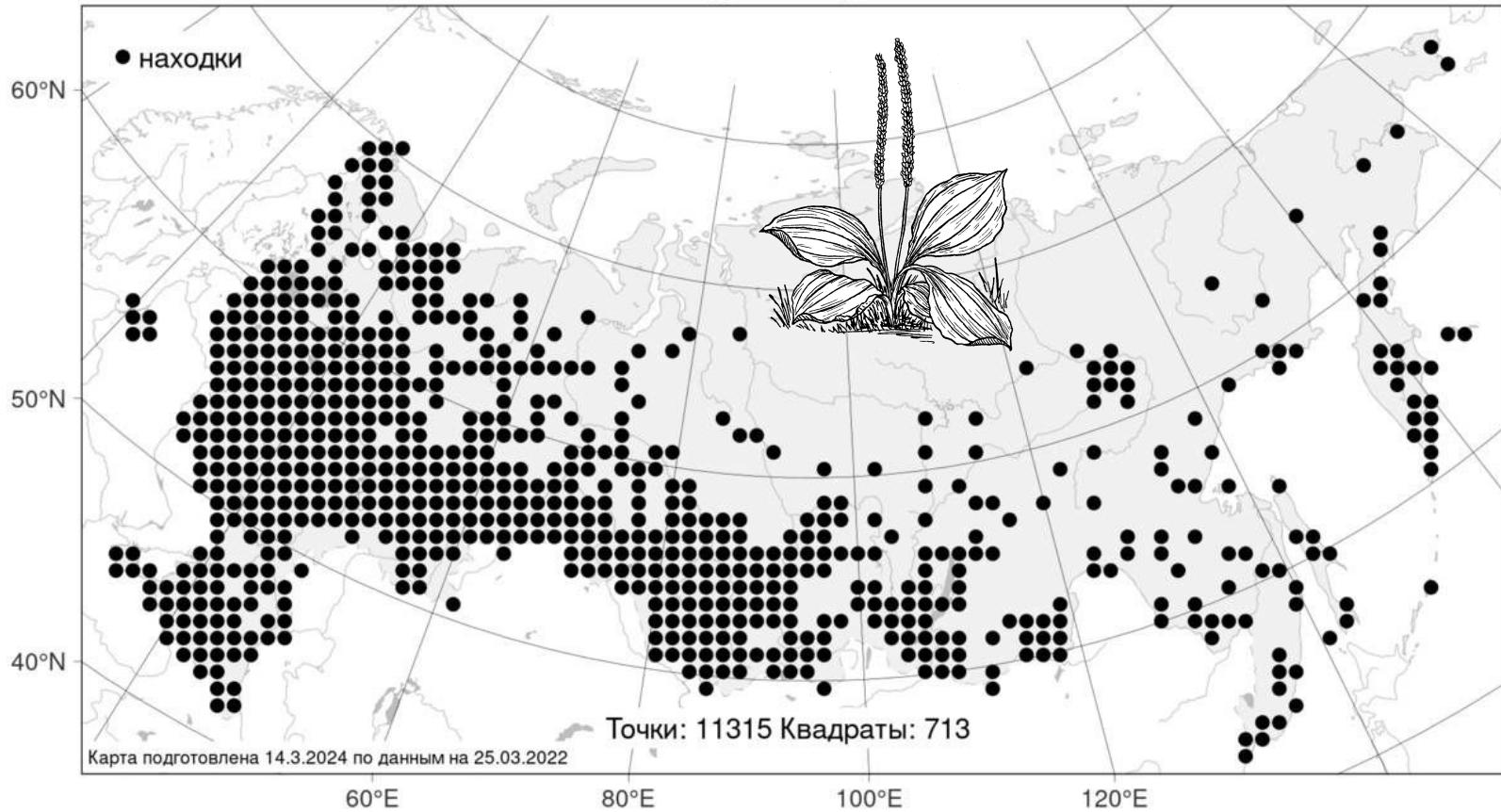
4 049 436
НАБЛЮДЕНИЙ

8 431
вид

11 429
ЭКСПЕРТОВ

28 740
НАБЛЮДАТЕЛЕЙ

Plantago major



Помогатель Цифрового гербария МГУ

Dorycnium intermedium - Пятилистник средний [MW0615094]
[Пройти обучение повторно](#) [Открытая версия](#) [Полная карточка](#) [Сообщить об ошибке](#)

[Полное изображение](#)

Масштаб лупы

3X

[◀ Вернуться к предыдущему](#)

Назаровский номер

Неочевидно

Пропустить

Ещё до войны наш куратор Михаил Иванович Назаров конторским нумератором проштамповывал свыше 263 тыс. образцов, которые находились в тот момент в фондах Гербария МГУ. Особенно важно было подвести итоги бурного роста гербария в 1930-е гг. По итогам этой работы мы впервые точно узнали, сколько образцов находится в коллекции: по-видимому, образец MW0585730 из Южной Африки стал последним, на котором Назаров поставил номер (263306). Это произошло, вероятно, в конце 1940 г. или в самом начале 1941 г.

С тех пор коллекция Гербария МГУ выросла вчетверо. В этой миссии мы проверяем все образцы, собранные до 1940 г. включительно, в поисках «назаровских номеров» – аккуратных чёрных оттисков в правом верхнем углу каждого гербарного листа. В этой миссии три варианта ответа: окошко для ввода номера, «Неочевидно» и «Пропустить».

Сложности связаны с тем, что после переезда Гербария МГУ в 1953 г. в новое здание на Ленинских горах некоторые образцы не помещались по ширине в новые шкафы. Некоторые листы с краев были подрезаны, в том числе затронув последние цифры «назаровских номеров». Кроме того, часть номеров может быть случайно закрыта растениями, этикетками, а иногда и штириходами.

Формат ввода (с заглавным латинским «Х» вместо закрытых / обрезанных цифр):

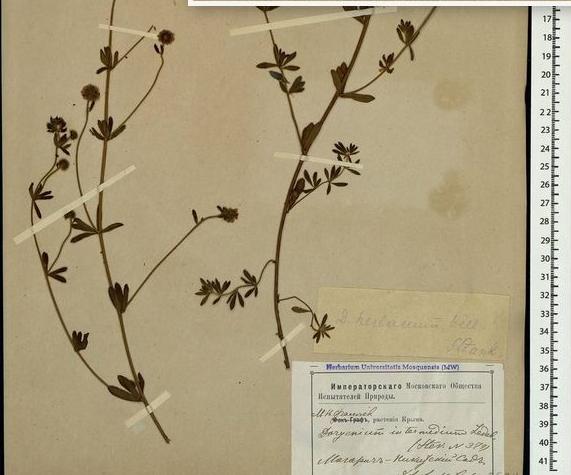
89098 (целый номер или потеря цифры неочевидна);

X78906 (первая цифра закрыта);

17890X (последняя цифра на краю листа обрезана).

Как установить, что какие-то цифры обрезаны? Образцы, которые попадают в миссию, идут по порядку родов системы Энглера и алфавиту видов. Этот порядок использовался в коллекции и при Назарове, что помогает восстанавливать частично утраченные номера. Так, если у вас идут образцы с оттисками «22340», «22338», «22346», то номер на краю листа «2234», скорее всего, просто обрезан и его нужно вводить как «2234Х».

Если номер отсутствует, то в этом случае в окошке ставится прочерк (-).



Рейтинги

Помогатель

Ответов: 51190

Правильно: 28986

Не подтверждено: 21124

Неверно: 678

Пропущено: 406

Назаровский номер

Всего образцов: 1307

Доступно: 663

Ответов: 3043

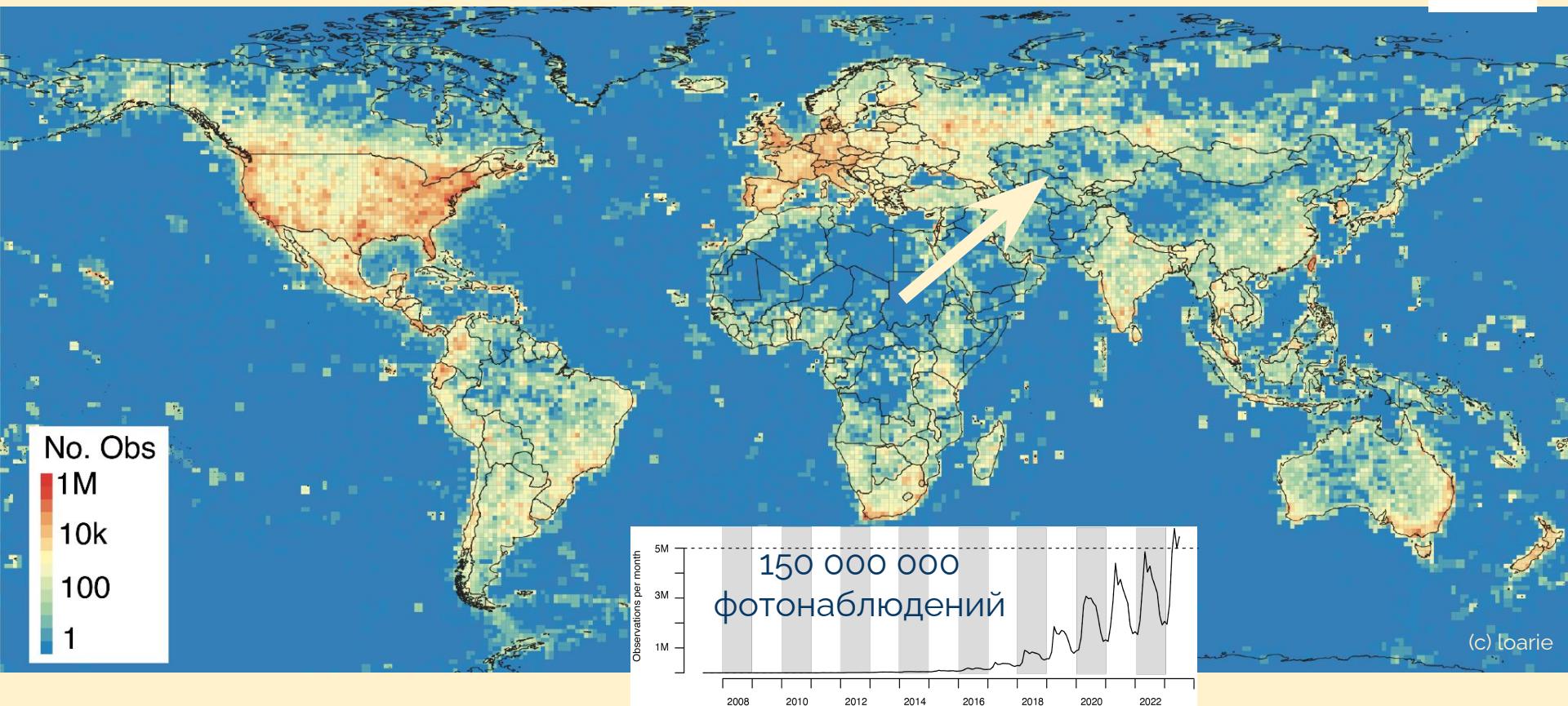
Правильно: 2562

Не подтверждено: 420

Неверно: 60

Пропущено: 1

Глобальная статистика iNaturalist: точки



* по состоянию на 29.06.2023



Семинар о возможностях iNaturalist
в декабре 2022 года



ПОЛОЖЕНИЕ

регионального исследовательского конкурса «Биоразнообразие Семиречья: уязвимые виды, белые пятна»

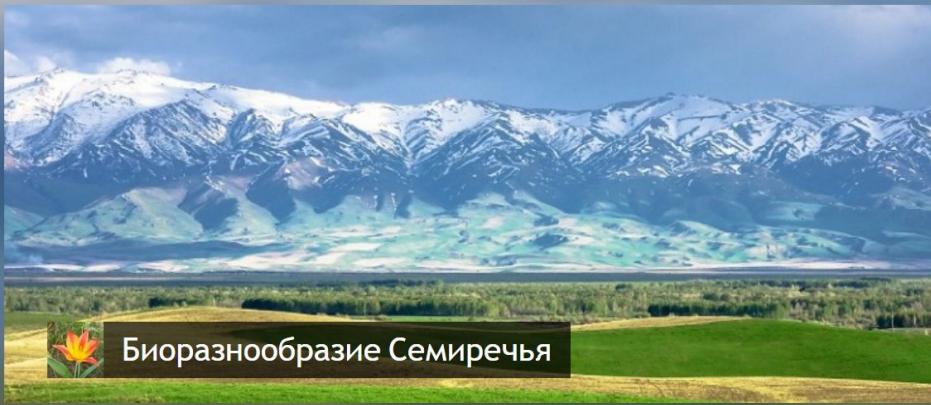
Участникам конкурса предлагается найти и сфотографировать как можно большее количество растений, животных и грибов, особое внимание обратив на редкие и находящиеся под угрозой исчезновения виды, занесенные в Красную книгу Республики Казахстан, принять участие в инвентаризации флоры и фауны особо охраняемых природных территорий Семиречья (в границах Алматинской и Жетысуских областей) и малонарушенных природных территорий Семиречья, входящих в состав "горячей точки" биоразнообразия "Горы Центральной Азии", в том числе в "белых пятнах" — местах, которые мало посещаются научными работниками и натуралистами.

Информация, собранная участниками конкурса, размещается на платформе [iNaturalist.org](https://www.inaturalist.org). После определения видового названия и получения исследовательского статуса (верификации) фотонаблюдения автоматически передаются в мировой агрегатор данных о биоразнообразии — GRIE (Global

Четыре приоритета 2023 года

- виды, занесенные в Красную книгу Республики Казахстан и как угрожаемые в различной степени в Красный список МСОП
- малоисследованные районы Семиречья ("белые пятна")
- биологическое разнообразие ООПТ Алматинской и Жетысуской областей,
- биологическое разнообразие малонарушенных природных территорий "горячей точки" биоразнообразия "Горы Центральной Азии"





Подробнее

Участники 47

В рамках проекта аккумулируются
фотонаблюдения растений, животных и
грибов Семиречья (в границах Алматинской
и Жетысуской областей Республики
Казахстан).

[Читать далее >](#)

Ваше членство

Редактировать

Журнал проекта

Обзор

40 757
наблюдений3 951
вид2 136
экспертов693
наблюдателей

Статистика

Research grade. 2023

- 10 388** наблюдений
- 1 684** видов
- 778** экспертов
- 226** наблюдателей



- Исследовательский уровень
- Требуется идентификация
- Обыкновенное

66,58%
RG



- Неизвестно
- Простейшие
- Грибы
- Растения
- Хромистые
- Моллюски
- Насекомые
- Паукообразные
- Лучепёрые Рыбы
- Земноводные
- Пресмыкающиеся
- Птицы
- Млекопитающие
- Другие Животные

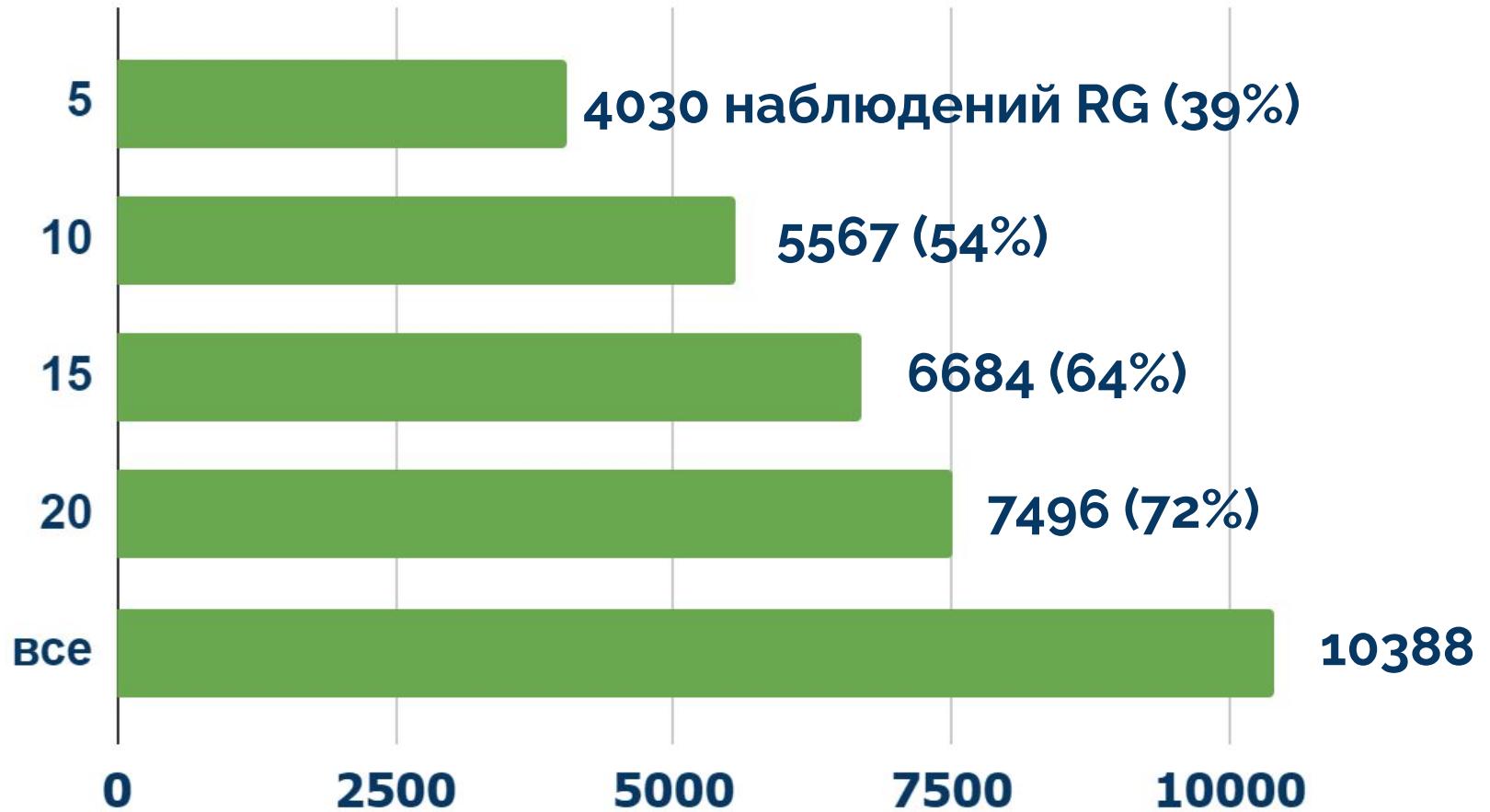
47
участников
конкурса



- Улучшение
- Поддерживающее мнение
- Ведущий
- Независимое мнение



Биоразнообразие Семиречья: вклад наблюдателей



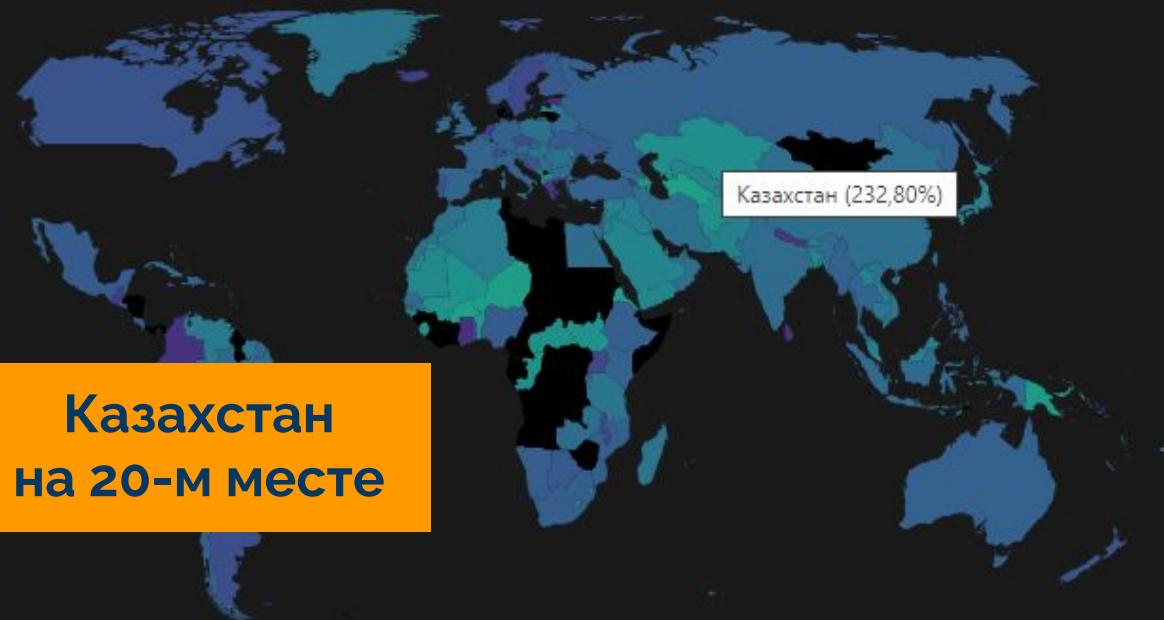
% роста в 2023



■ Включая США

Шкала: ● Линейная

○ Логарифмическая



2023: рост по странам (% к 2022)



The 2024 CNC takes place in 2 parts

1

**April 26 – April
29, 2024**

Taking pictures of wild plants
and animals.

2

**April 30 – May 5,
2024**

Identifying what was found.





Знакомство с iNaturalist

- ✓ Советы новичкам
- ✓ City Nature Challenge 2024
- ✓ Включайся!

Алматы, 2024



← Публикации



shura.dubynin
Алматы

⋮

Как снимать растения
для определения
5 советов

Александр Дубынин
Тимофей Банников
Big Almaty Project Team



26-29 апреля 2024



•••••



Нравится signichs и ещё 42

shura.dubynin Небольшой гид по правильной
съемке растений)... ещё

green.salvation 🌱🌱🌱

17 апреля



shura.dubynin
Главный Ботанический Сад - г. Алматы

⋮



|||

□

<

1 Снять растение целиком



Ракурс:
сбоку,
а не сверху



Свет:
тень, а не
яркое солнце



Фон:
однотонный,
без деталей,
можно черный
крафт



[ГЛАВНАЯ](#)[JUST WOW](#)[SCI&ART](#)[ЗАДАЧКИ](#)[КНИГИ](#)[НАУЧНОЕ КАФЕ](#)[ОПЫТЫ](#)[СООБЩЕСТВО](#)[ЦИТАТА](#)

City Nature Challenge и iNaturalist: самое важное

10 Апрель, 19, 2024 Dubynin

В связи с грядущей всемирной акцией City Nature Challenge мы решили, что стоит ответить на наиболее волнующие вопросы ее потенциальных участников.

Итак, поехали.

Что такое iNaturalist?

iNaturalist — современная интернет-платформа для сбора и организации наблюдений дикой природы, которая объединяет энтузиастов её изучения.

Привлекая любителей природы разного профиля, от туристов до экологов, сайт способствует расширению знаний о местном биоразнообразии и стимулирует дальнейшее исследование



Поиск



НЕДАВНИЕ ЗАПИСИ

[Мысли в День Земли](#)

[City Nature Challenge и iNaturalist: самое важное](#)

[Человек планеты Николай Полунин](#)

[Караканские тайнобрачники Николая Лашинского](#)

[Зеленый кот, история НГУ и бореализм: о чём будут говорить на Ночи научных историй в Академгородке](#)

АРХИВЫ



2,436,844 Observations



65,682+ Species

Including 3,940+ rare/endangered/threatened species



83,528 Participants



Global Results Through the Years									
	2016	2017	2018	2019	2020	2021	2022	2023	2024
Cities	2	16	68	159	244	419	445	482	690
Countries	1	1	17	28	40	44	47	46	51
Observations	19.8K	125K	441K	963K	815K	1.27M	1.7M	1.9M	2.4M
Species	2.5K	8.6K	18K	31K	32.6K	45.3K	50.1K	57.2K	65.7K
Observers	1K	4K	17K	32K	41K	52K	67.2K	66.4K	83.5K

K = thousand. M = million

Congratulations to these Cities!

La Paz, Bolivia – 165,839

Most observations: Monterrey, México – 81,727

San Antonio, TX, USA – 64,728

La Paz, Bolivia – 5,352

Most species: Hong Kong, China – 4,775

Graz, Austria – 4,448

La Paz, Bolivia – 3,593

Most participants: Monterrey, México – 2,576

San Francisco, CA, USA – 2,552

Naked Sea Butterfly

(*Clypeomitra limacina*)

Greater Victoria, BC, Canada
found by Steph Brulot-Sawchyn
Not often observed on
iNaturalist, sea butterflies
are free-swimming pelagic
sea snails!



Dingy Purplewing

(*Eunica monima*)
South Florida, USA
found by Liz T (@lt422)

A rare butterfly for Florida,
& the only observation of
this species for this year's
CNC.



Tibicina sp. Cicada

Pamplona / Iruña, Spain
found by Txalen
Galina-Gaiton

Likely emerged from a
nearby hole.



Smooth Snake

(*Coronella austriaca*)
Graz, Austria
found by @die_falleniden
Affected by habitat
degradation &
destruction.



Malus sieversii

Almaty, Kazakhstan
found by Ксения T.
Wild apple species native to
Kazakhstan, in decline due to
habitat loss.



Lizard Goby

(*Rhinogobius flumineus*)
Tokyo, Japan
found by @daichi2023
Endemic to Japan, found in
fast-flowing mountain
streams and small rivers.



Corallorrhiza macrantha

México City, México
found by Anayeli Guzmán

Coralroot orchid species found only in Mexico;
it is parasitic and does not photosynthesize!

Baird's Tapir

(*Tapirus bairdii*)
Petén, Guatemala
found by @josebarrientos

Captured on a camera trap for CNC, this
species is endangered due to loss of habitat.

Blue Sea Star

(*Phataria unifasciata*)
Galápagos, Ecuador
found by Billy Bensted-Smith

The color blue is rare in nature,
and this echinoderm adds to the
biodiversity of reefs they inhabit.

Dynastes neptunus ssp. neptunus

Cali, Colombia, found by Humberto Calero Mejía

This male beetle with striking ornaments is
considered a vulnerable species and is rarely
observed in the area.



Interesting Finds from Around the World

For more information, visit:
www.citynaturechallenge.org



@ksu57



CNC 2024: Big Almaty

АПР. 26, 2024 - АПР. 29, 2024

BIG ALMATY



Обзор

4 869
НАБЛЮДЕНИЙ

791
ВИД

158
ЭКСПЕРТОВ

57
НАБЛЮДАТЕЛЕЙ

Весь мир

RG

2 918
НАБЛЮДЕНИЙ

477
ВИДОВ

135
ЭКСПЕРТОВ

44
НАБЛЮДАТЕЛЕЙ

59, 6% RG

Подробнее

Участники 41

Присоединяйтесь к участию в уникальной всемирной акции City Nature Challenge! Это наш шанс погрузиться в изучение удивительного мира растений и животных нашего города, сделать важный вклад в науку и помочь в сохранении биоразнообразия.

[Читать далее >](#)

Ваше членство

Редактировать

Журнал проекта

Статистика

Красная книга: наблюдения CNC 2024

Almaty Agglomeration

286
НАБЛЮДЕНИЙ

23
ВИДОВ

17
ЭКСПЕРТОВ

21
НАБЛЮДАТЕЛЬ



110 наблюдений



105 наблюдений



16 наблюдений



11 наблюдений



10 наблюдений

Iris albertii
(Ирис Альберта)

Tulipa ostrowskiana
(Тюльпан Островского)

Malus sieversii
(Яблоня Сиверса)

Prunus armeniaca
(Абрикос Обыкновенный)

Gymnospermium altaicum
(Голосемянник Алтайский)



Красная книга Казахстана

Подробнее

Участники 28

Здесь накапливаются сведения о видах растений, животных, грибов и лишайников, занесенных в Красную книгу Республики Казахстан (список 2006 года).

Читать далее

Ваше членство

Редактировать

Журнал проекта

Весь мир

5 733
НАБЛЮДЕНИЯ

221
вид

681
ЭКСПЕРТ

482
НАБЛЮДАТЕЛЯ



278 наблюдений

Aquila nipalensis
Степной Орёл



260 наблюдений

Tulipa patens
Тюльпан Поникающий



240 наблюдений

Iris alberti
Ирис Альберта



229 наблюдений

Tulipa regelii
Тюльпан Регеля



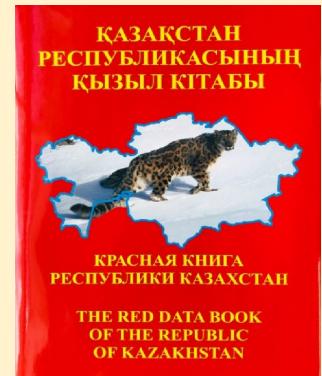
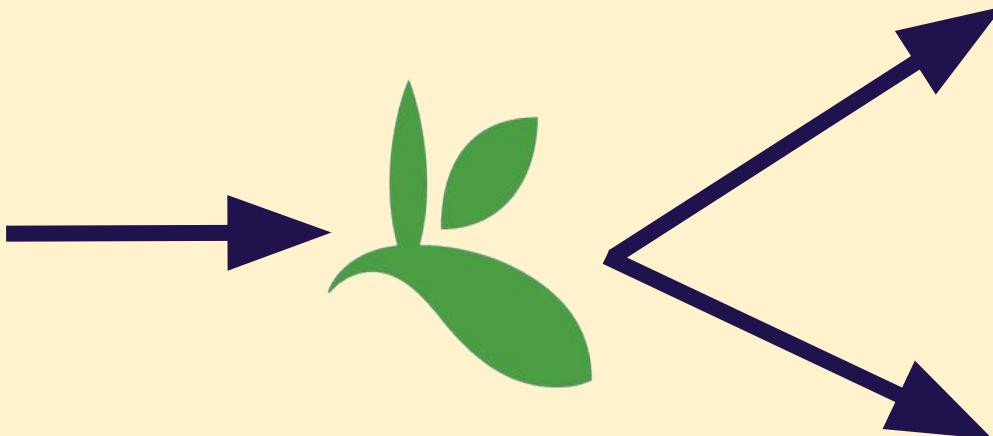
218 наблюдений

Tulipa biflora
Тюльпан Двуколковый

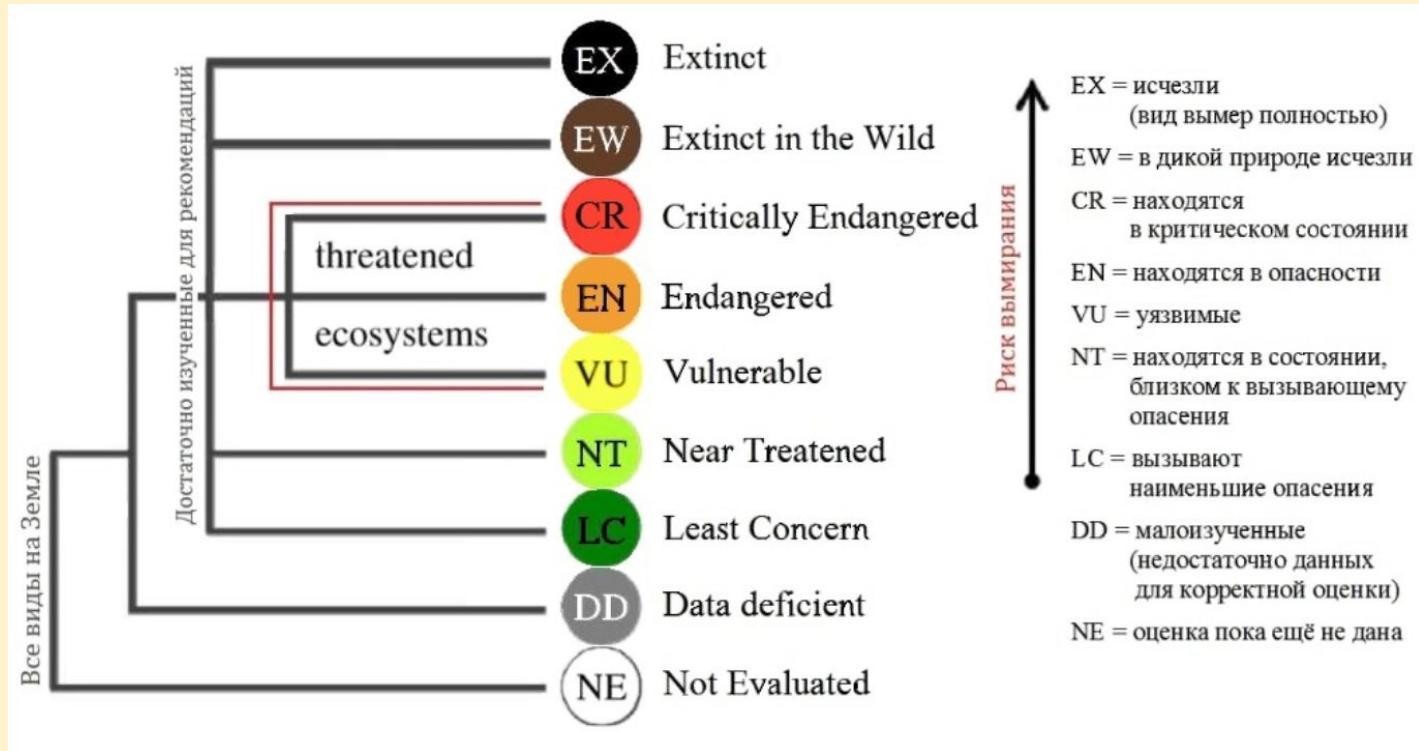
Global Biodiversity Framework 2023-2030 (2050)

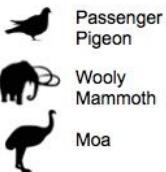
- ★ Декабрь 2022 года — **Куньмин-Монреальская глобальная рамочная программа по биоразнообразию** (Global Biodiversity Framework/GBF) Конвенции о биологическом разнообразии.
- ★ GBF содержит **четыре глобальные цели и 23 задачи**, в том числе **увеличение площади охраняемых природных территорий до 30% к 2030 году (задача «30 на 30»)**. Эти задачи невозможно решить без изменения отношения к проблеме утраты биоразнообразия и поведения и без деятельного участия значительного (гораздо большего, чем сейчас) числа жителей планеты.
- ★ **Проекты гражданской науки (citizen science/CS)** предоставляют для этого уникальные возможности для сбора новых сведений о видах и параметрах экосистем, мониторинга биоразнообразия, экологического образования и природоохранного просвещения.



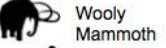


Красный список МСОП (IUCN Red List)





Passenger
Pigeon



Wooly
Mammoth

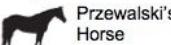


Moa

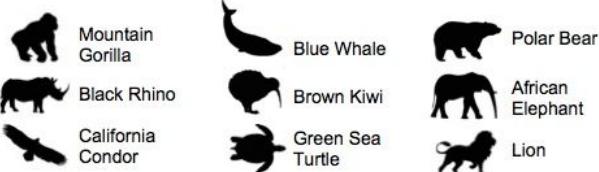


Panamanian
Golden Frog

Guam Rail



Threatened (encompasses CR, EN, and VU)



Mountain
Gorilla

Black Rhino

California
Condor



Blue Whale

Brown Kiwi

Green Sea
Turtle

Polar Bear

African
Elephant

Lion



Extinct



**Extinct in
the Wild**

Out of all species that have ever lived, 99.9% of them are now extinct. The IUCN has documented 830 species known to have gone extinct since 500 AD.

Currently the IUCN has 69 species listed as extinct in the wild. These species have been extirpated from their natural range and now exist only in captivity.



**Critically
Endangered**



Endangered



Vulnerable

To be listed as threatened, a species must fit one of the following qualifications

A projected population decline of greater than ___ over the next 10 years or three generations

80%

50%

30%

A global range of less than ___ km²

100

5,000

20,000

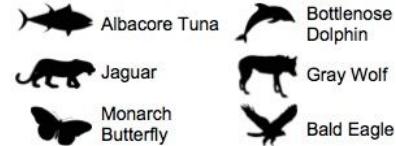
A stable global population size of less than ___ individuals

50

250

1000

*Two other categories exist, although they have more complicated thresholds: small population size AND decreasing population, or quantitative scientific analysis that shows a high likelihood of extinction.



Albacore Tuna

Jaguar

Monarch
Butterfly

Bottlenose
Dolphin

Gray Wolf

Bald Eagle



**Near
Threatened**



**Least
Concern**

Near threatened species are in danger of becoming threatened. Species with least concern listings may still have declining populations or face threats, but not to the level required for a threatened listing.

Out of the RedList's 77,000 listed species, 35,000 are listed as least concern and 5,000 are listed as near threatened.



For species that have yet to be sufficiently evaluated, two additional classifications exist: data deficient (DD) and not evaluated (NE).



Оценка угрозы исчезновения вида по критериям МСОП





CERTIFICATE

OF COMPLETION OF TRAINING
On the completion of the training course on the assessment of the risk of extinction of species of nature and the protection of species of nature and their habitats
in the framework of the RED LIST project
is issued to
Irina Yuryevna Selyutina
from the
Geological Institute of the Russian Academy of Sciences

CERTIFICATE

OF COMPLETION OF TRAINING
On the completion of the training course on the assessment of the risk of extinction of species of nature and the protection of species of nature and their habitats
in the framework of the RED LIST project
is issued to
Svetlana Igorevna Gerasimova
from the
Geological Institute of the Russian Academy of Sciences

CERTIFICATE

OF COMPLETION OF TRAINING
On the completion of the training course on the assessment of the risk of extinction of species of nature and the protection of species of nature and their habitats
in the framework of the RED LIST project
is issued to
Irina Grigoriyevna Ovsyannikova
from the
Geological Institute of the Russian Academy of Sciences

CERTIFICATE

OF COMPLETION OF TRAINING
On the completion of the training course on the assessment of the risk of extinction of species of nature and the protection of species of nature and their habitats
in the framework of the RED LIST project
is issued to
Irina Anatolyevna Sirdina
from the
Geological Institute of the Russian Academy of Sciences

Расширенный образец / Extended Specimen

- **Физический образец.** Сам объект, собранный в природе и хранящийся в коллекции.
- **Морфологические данные.** Подробные описания внешнего вида, структуры и измерений.
- **Генетические данные.** ДНК-сиквенсы, геномы, метагеномные данные.
- **Экологические данные.** Информация о месте и условиях сбора, включая географические координаты, тип экосистемы, климатические условия и сопутствующие виды.
- **Изображения и мультимедийные материалы.** Фотографии высокого разрешения, видео- и аудиозаписи, микроскопические изображения.
- **Метаданные о сборе.** Дата и время сбора, имя коллектора, используемые методы сбора и обработки.
- **Связанные публикации и данные.** Научные статьи, отчеты, связанные исследования и дополнительные данные, полученные из образца.
- **Информация о хранении и доступе.** Условия хранения образца, его местонахождение в коллекции, доступность для дальнейших исследований.

В качестве заключения

Глобальные данные являются неотъемлемой частью усилий по сохранению биоразнообразия. Они обеспечивают:

- **Информированное принятие решений.** Позволяют законодателям, сотрудникам министерств, научным работникам и специалистам по охране природы основывать свои действия на актуальной и точной информации.
- **Эффективное распределение ресурсов.** Помогают направлять ограниченные ресурсы туда, где они наиболее необходимы.
- **Сотрудничество.** Способствуют обмену знаниями и совместным действиям между странами и организациями, профессиональными исследователями и неправительственным сектором.

Роль проектов гражданской науки в области биоразнообразия в этих процессах продолжит расти.

СПАСИБО ЗА ВНИМАНИЕ!



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“Открытая
лаборатория
природоохранной
биологии”

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+7 747 821 53 16



Accessing and using GBIF- the essentials

Slides by: Chihjen Ko | Asia Regional Support Team
Oleg Borodin | ECA Regional Support Team

Presented by: Oleg Borodin | ECA Regional Support Team



GBIF

Global Biodiversity
Information Facility



Primary biodiversity data

GBIF dataset classes

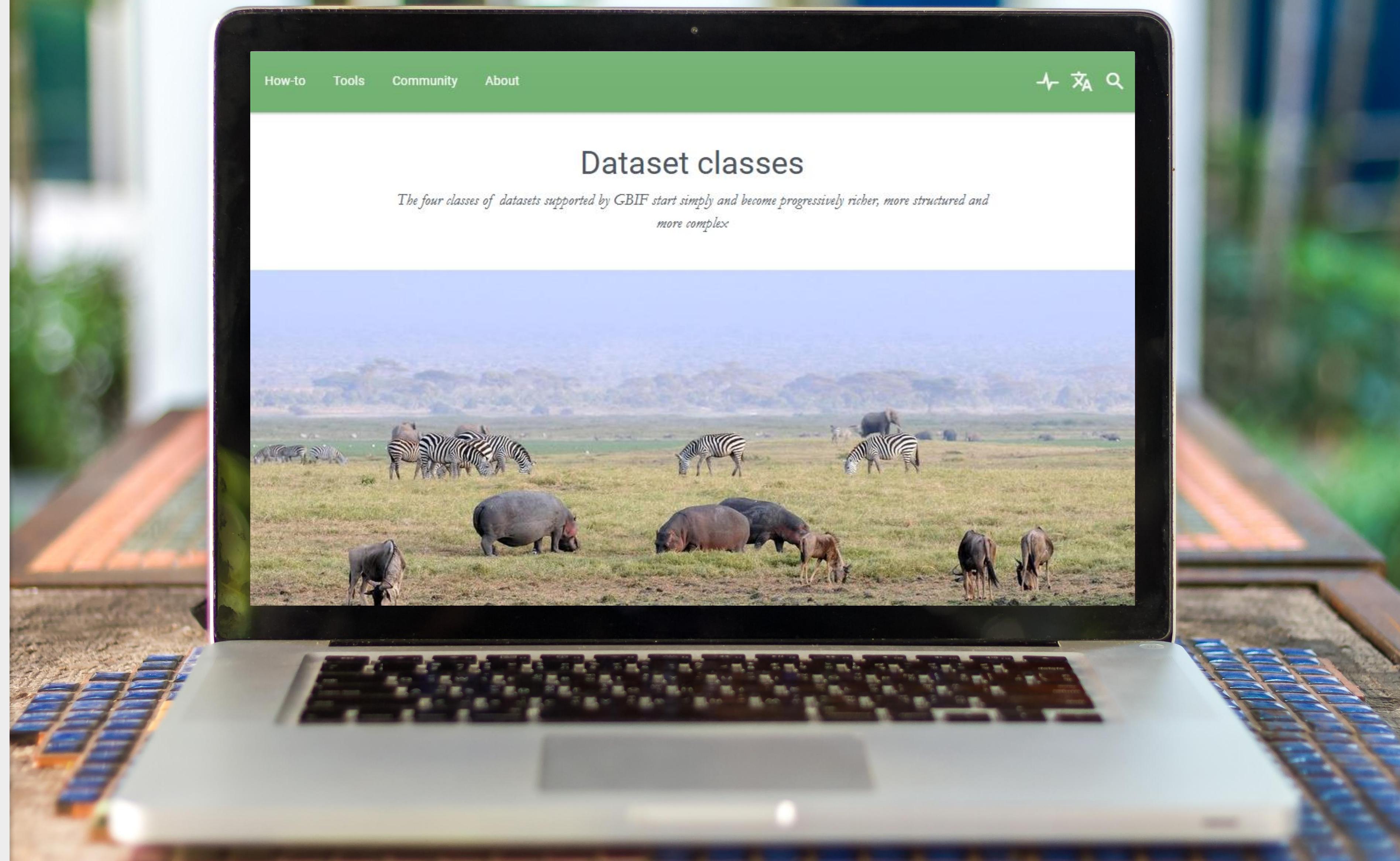
<https://www.gbif.org/dataset-classes>

Meta data only

Checklist

Occurrence

Sampling-event





posts community-forum gbif.org about

How to choose a dataset class on GBIF?

Marie Grosjean

2019-12-04 · GBIF · Publishing

If you are a (first time) publisher on GBIF and you are trying to decide which type of dataset would best fit your data, this blogpost is for you.

All the records shared on GBIF are organized into datasets. Each dataset is associated with some metadata describing its content (the classic “what, where, when, why, how”). The dataset’s content

<https://data-blog.gbif.org/post/choose-dataset-type/>



Primary biodiversity data

GBIF taxonomic backbone

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 name based information from different resources, no matter if these are occurrence datasets, species pages, names from nomenclators or external sources like EOL, Genbank or IUCN.

The image shows a laptop screen with the GBIF Backbone Taxonomy dataset page open. The page has a green header with 'Tools', 'Community', and 'About' tabs. Below the header, it says 'CHECKLIST DATASET | REGISTERED MARCH 2, 2011'. The main title is 'GBIF Backbone Taxonomy', published by 'GBIF Secretariat'. Below the title are links for 'CONSTITUENTS', 'METRICS', 'DOWNLOAD', and 'HOME PAGE'. A blue button on the right says '7,574,19'. The main content area contains a paragraph about the taxonomy being a single, synthetic management classification. On the right side, there is a 'GBIF' logo with a green leaf icon, and details about the publication date (August 28, 2022), metadata last modified (November 2022), hosted by (GBIF Secretariat), and a CC BY 4.0 license. There is also a 'How to cite' link and a DOI (10.15468/39).





Description

Data description

GBIF registration

Citation

The following 105 sources have been used to assemble the GBIF backbone with number of names given in brackets:

- Catalogue of Life Checklist - 4766428 names
- International Barcode of Life project (iBOL) Barcode Index Numbers (BINs) - 635951 names
- UNITE - Unified system for the DNA based fungal species linked to the classification - 611208 names
- The Paleobiology Database - 212054 names
- World Register of Marine Species - 188857 names
- The Interim Register of Marine and Nonmarine Genera - 183894 names
- The World Checklist of Vascular Plants (WCVP) - 131891 names
- GBIF Backbone Taxonomy - 114350 names
- TAXREF - 109374 names
- The Leipzig catalogue of vascular plants - 75380 names
- ZooBank - 73549 names
- Integrated Taxonomic Information System (ITIS) - 68377 names
- Plazi.org taxonomic treatments database - 61346 names
- Genome Taxonomy Database r207 - 60545 names
- International Plant Names Index - 52329 names
- Fauna Europaea - 45077 names





4,114,717
Accepted names

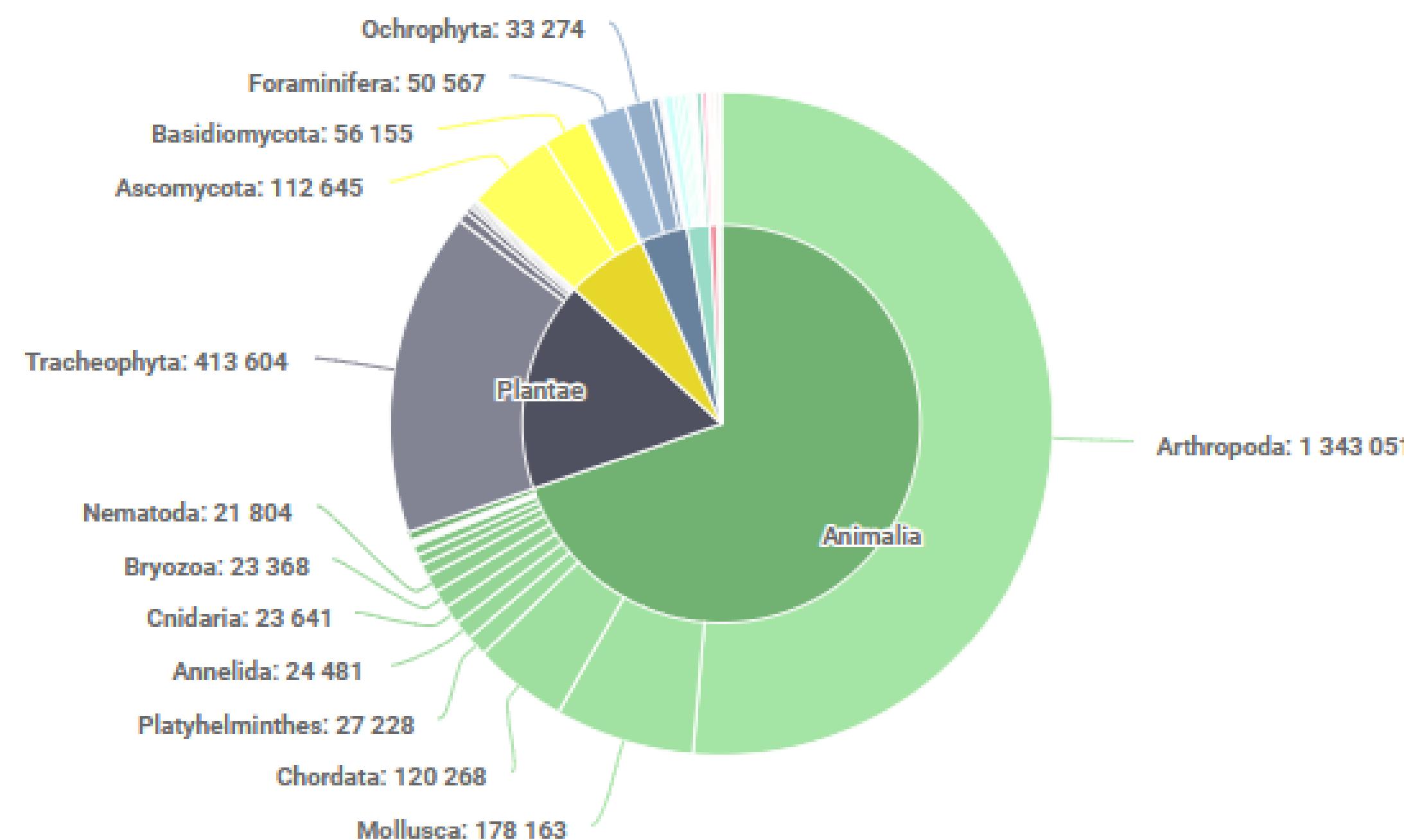


3,197,213
Synonyms



59%
Overlap with Catalogue of Life

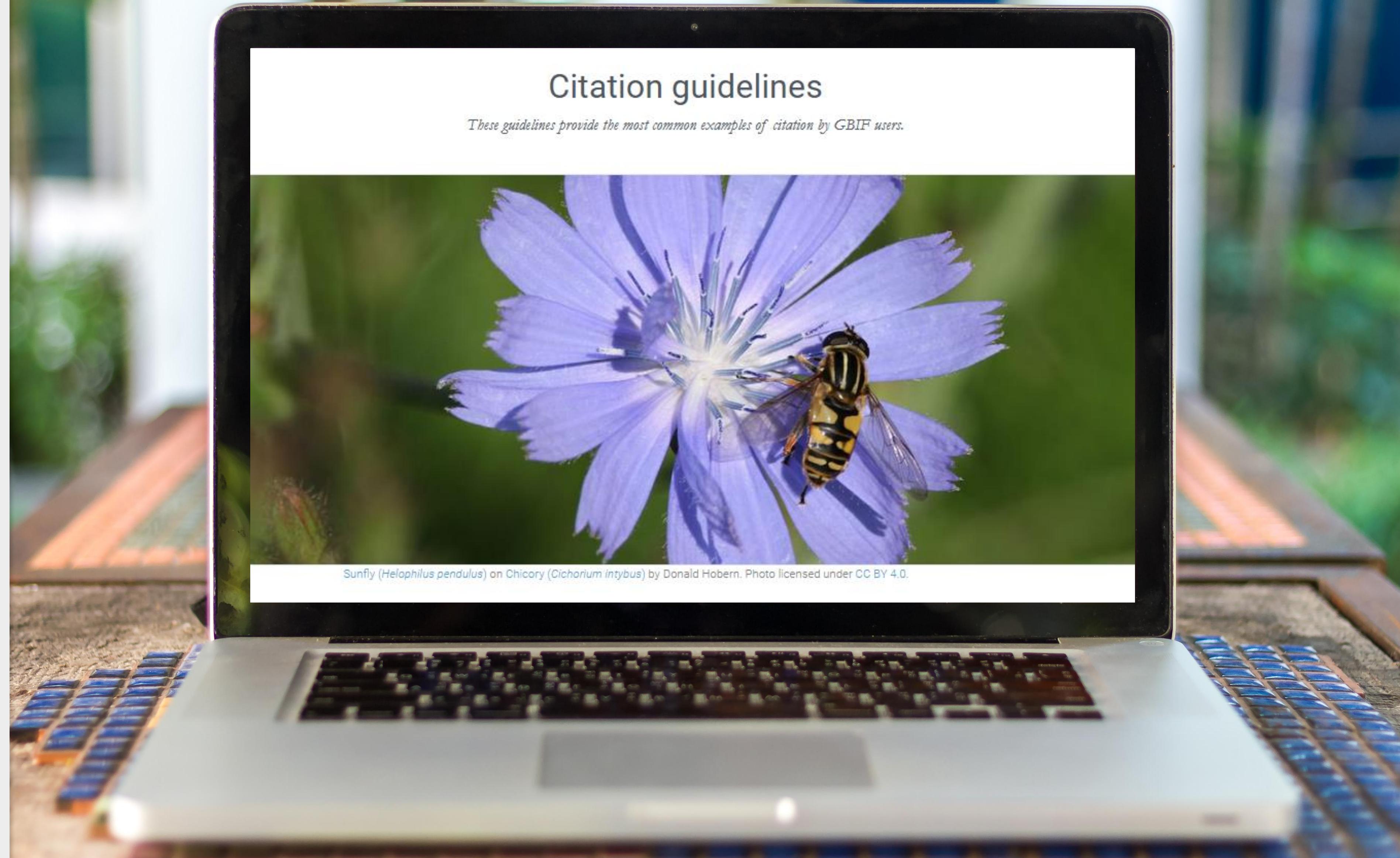
NUMBER OF ACCEPTED SPECIES BY HIGHER TAXON



Principles of GBIF-mediated data

Digital object identifiers

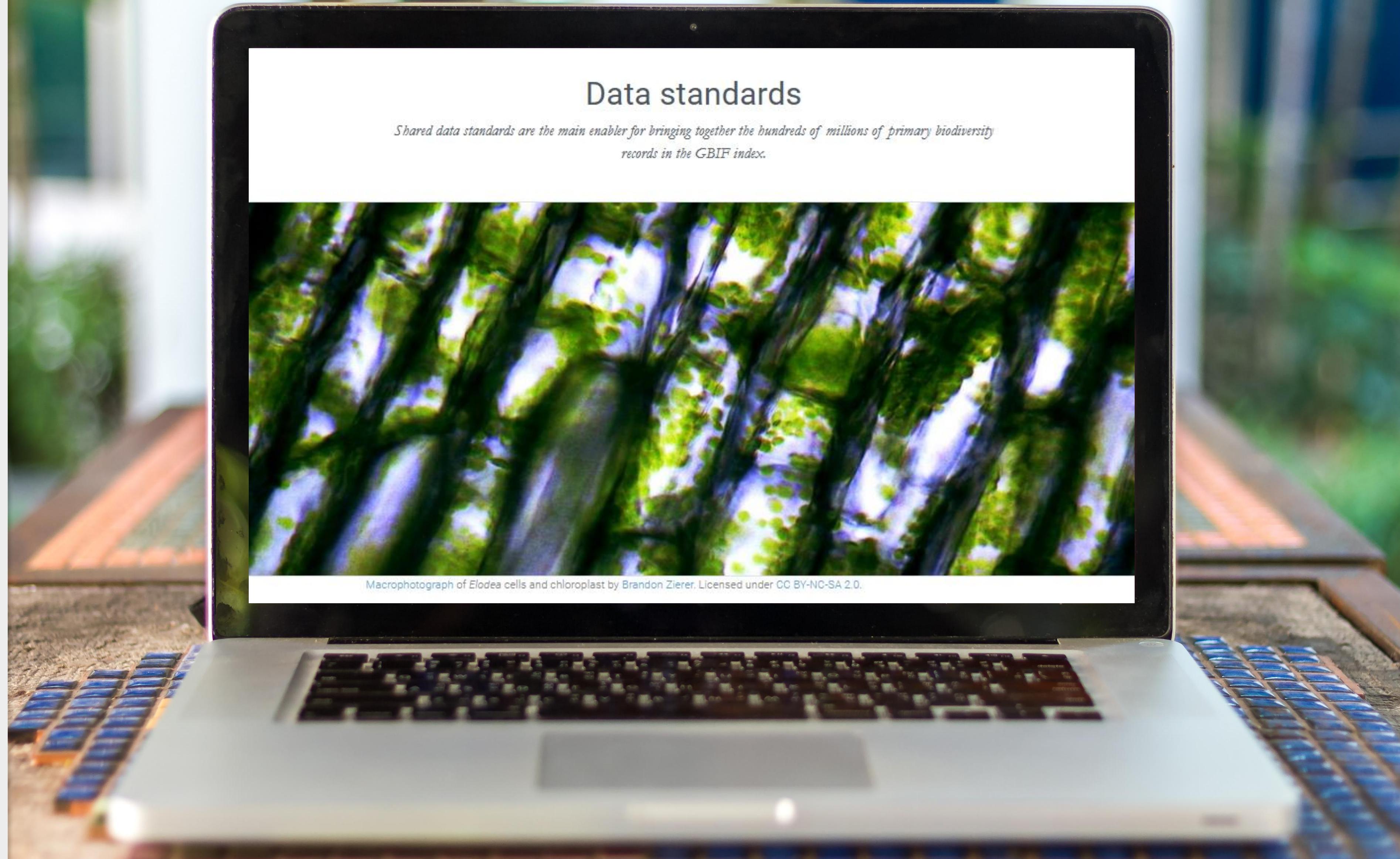
- datasets from the GBIF network
 - data downloads from GBIF.org
 - research articles and reports published by scientific journals, agencies and NGOs
 - materials deposited in a general-use repository
-



Principles of GBIF-mediated data

Standards

- Darwin Core
- Ecological Metadata Language (EML)
- BioCase/ABCD: The Biological Collection Access Service



Principles of GBIF-mediated data

Open data

- [CC0](#) - no conditions for use
- [CC-BY](#) - use with attribution
- [CC-BY-NC](#) - non-commercial use with attribution

The laptop screen shows a news article from the GBIF website. The header includes links for 'Tools', 'Community', and 'About'. The news item is dated '22 SEPTEMBER 2014' and titled 'New approaches to data licensing and endorsement'. Below the title is a summary: 'The 21st meeting of the GBIF Governing Board, meeting in New Delhi, has agreed a set of principles and next steps relating to the licensing and endorsement of data published through the network.' The main body of the article discusses the decisions made at the meeting, the need for clarity on licensing, and the work that will begin to associate datasets with digital licenses.

New approaches to data licensing and endorsement

The 21st meeting of the GBIF Governing Board, meeting in New Delhi, has agreed a set of principles and next steps relating to the licensing and endorsement of data published through the network.

The 21st meeting of the GBIF Governing Board, meeting in New Delhi, has agreed a set of principles and next steps relating to the licensing and endorsement of data published through the network.

The decisions were developed based on extensive consultations on both issues during 2014.

On licensing, the Governing Board recognized the need for much greater clarity both for data publishers and users on how data may be used when shared via GBIF.org.

With that in mind, work will begin immediately to ensure that all species occurrence datasets within the network are associated with digital licenses equivalent to one of the following three choices supplied by Creative Commons:



Principles of GBIF-mediated data

FAIR data

- Findable
- Accessible
- Interoperable
- Reusable



Data found on GBIF.org are FAIR.

FINDABLE

GBIF has [requirements](#) for metadata and datasets. All datasets are identified by [Digital Object Identifiers \(DOIs\)](#).

ACCESSIBLE

The [GBIF Portal API](#) provides a machine readable interface (REST + JSON) and use the [Integrated Publishing Toolkit \(IPT\)](#) as trusted data repository.

INTEROPERABLE

GBIF recommends using the [Ecological Metadata Language \(EML\)](#) for datasets and [Darwin Core](#) for occurrence data.

REUSABLE

GBIF require creative common data licenses ([CC0](#), [CC BY](#), or [CC BY-NC](#)). Provenance available from the GBIF portal.



Get data How-to Tools Community About

GBIF | Global Biodiversity Information Facility

Free and open access to biodiversity data

OCCURRENCES SPECIES DATASETS PUBLISHERS RESOURCES

Search

What is GBIF? About GBIF Kazakhstan



The screenshot shows the GBIF website's navigation bar at the top, featuring links for 'Get data', 'How-to', 'Tools', 'Community', and 'About'. Below the navigation is a large banner image of mushrooms. The 'Community' menu is open, displaying three columns: 'NETWORK', 'VOLUNTEERS', and 'ACTIVITIES'. The 'ACTIVITIES' column includes links for 'Capacity enhancement', 'Programmes & projects', 'Training and learning resources' (which is circled in red), 'Data Use Club', and 'Living Atlases'. At the bottom of the page, there are links for 'What is GBIF?' and 'About GBIF Kazakhstan'.

GBIF | Global Biodiversity

Free and c
biodiversit

OCCURRENCES SPEC

Search

What is GBIF? About GBIF Kazakhstan

Get data How-to Tools

Community About

NETWORK VOLUNTEERS ACTIVITIES

Participant network Mentors Capacity enhancement

Nodes Ambassadors Programmes & projects

Publishers Translators Training and learning resources

Network contacts Citizen scientists Data Use Club

Community forum ↗ Living Atlases ↗

alliance for biodiversity knowledge ↗

oleg.borodin





Introduction to GBIF



Biodiversity Data Mobilization



Introduction to using GBIF-mediated data



Accelerating biodiversity research through DNA barcodes, collection and observation data

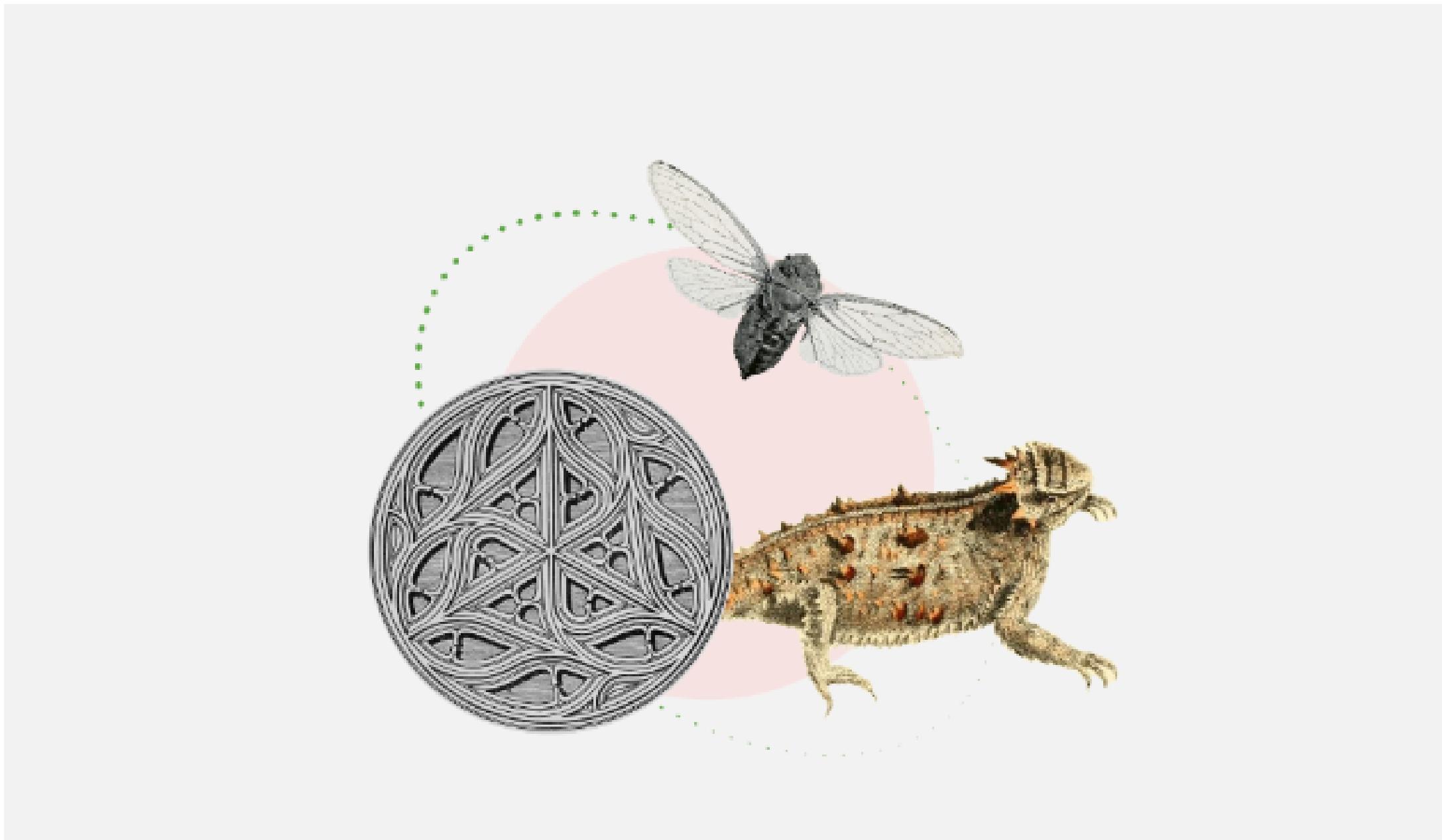


Formal engagement and establishing Participant nodes



**Introduction to using GBIF-mediated data****Course details**[Course description](#)[Acknowledgements](#)[Citation](#)[Navigating this course](#)[Files for download](#)[Software and accounts](#)[Using GBIF-mediated data](#)[Data processing and quality](#)[Programmatic access to data](#)[Course review](#)[Course evaluation](#) [Introduction to using GBIF-mediated data / Course details](#)

Introduction to using GBIF-mediated data



Free and open access to biodiversity data

OCCURRENCES

SPECIES

DATASETS

PUBLISHERS

RESOURCES

Search



What is GBIF?

About GBIF Nepal



2,976,842,348

Occurrence records



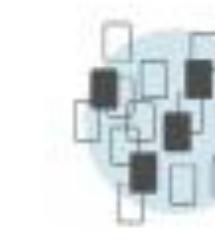
106,482

Datasets



2,254

Publishing institutions



10,742

Peer-reviewed papers
using data

Data Access

Most common access points to GBIF-mediated data:

1. www.gbif.org: a website driven by open-source data engineering that offers advanced searching, data analytics, visualisations, and downloads for registered users in 10 languages.
2. R (www.r-project.org): packages, including rgbif and coordinatecleaner, for data analysis, processing and visualisation.



Free and open access to biodiversity data

OCCURRENCES

SPECIES

DATASETS

PUBLISHERS

RESOURCES

Search



What is GBIF?

About GBIF Nepal



2,976,842,348

Occurrence records



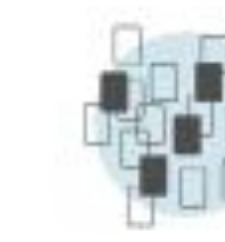
106,482

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using data

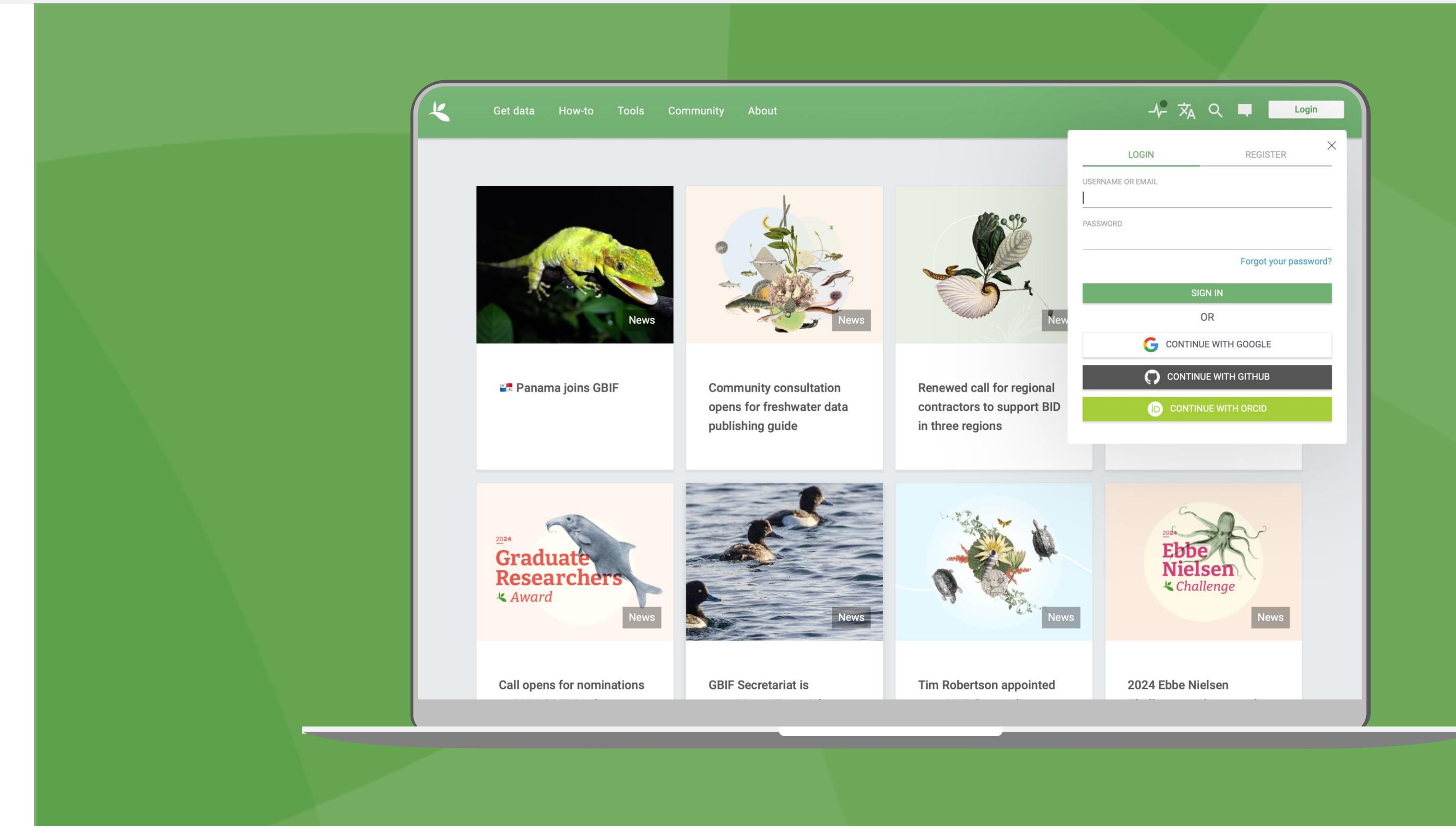
GOLDEN RULES OF GBIF-MEDIATED DATA USE

1. Must have an account on www.gbif.org
2. Must agree to the Data User Agreement -
<https://www.gbif.org/terms/data-user>
3. Document how you process your data
4. Correctly cite the data you use
5. Deposit used data in a public repository



GOLDEN RULES OF GBIF-MEDIATED DATA USE

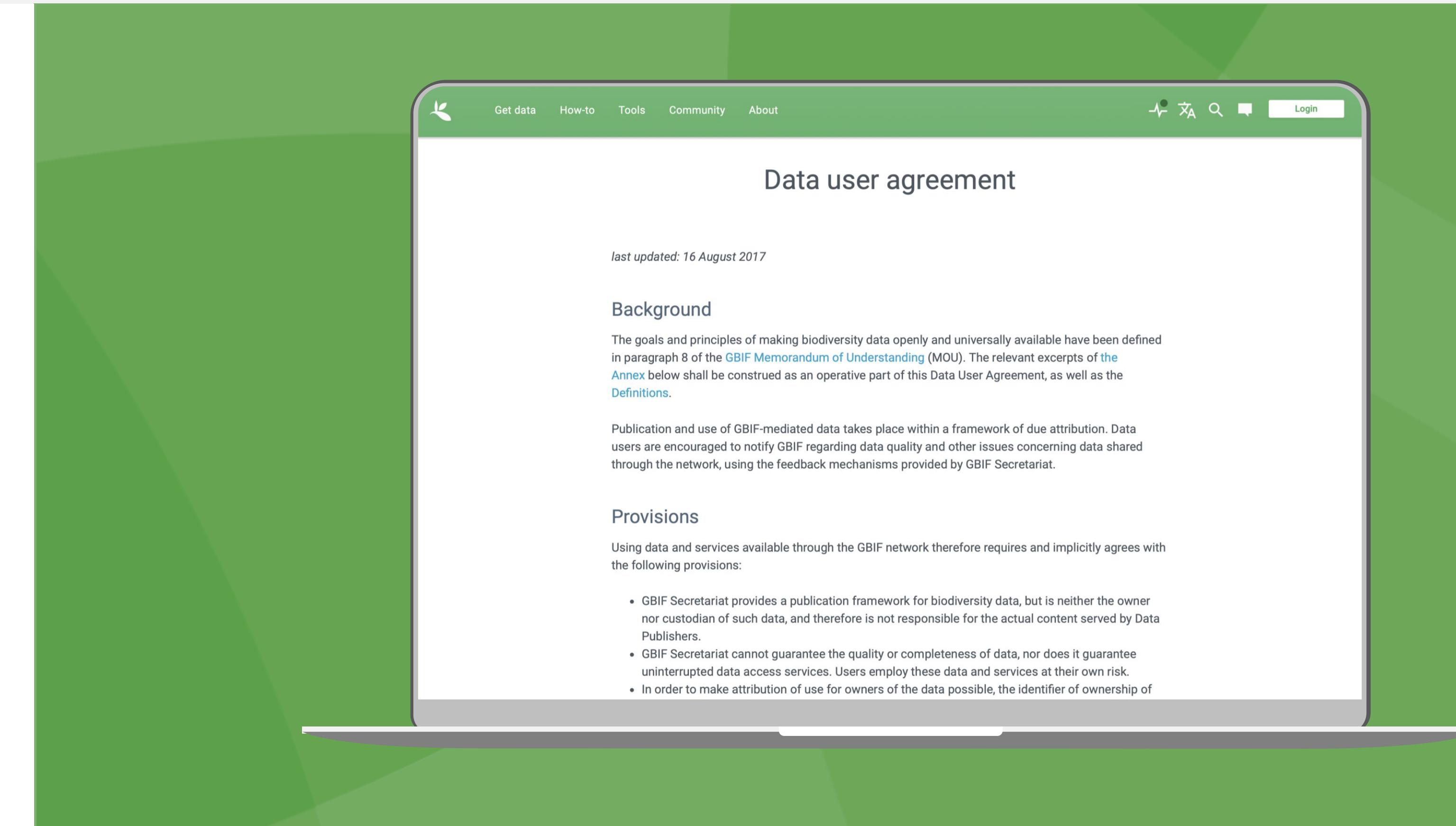
Must have an account
on [GBIF.org](#)



GOLDEN RULES OF GBIF-MEDIATED DATA USE

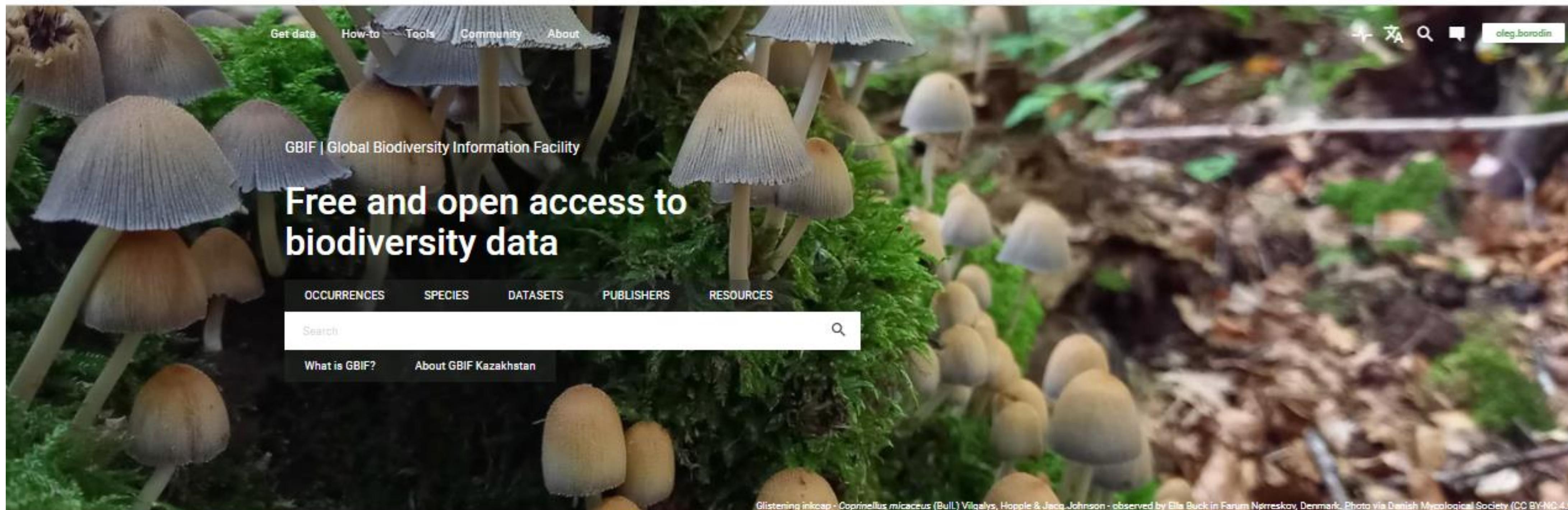
**Must agree on GBIF
the Data User
Agreement**

- Non-binding
- Sets out guiding principles of data use,
including citation of data



<https://www.gbif.org/terms/data-user>





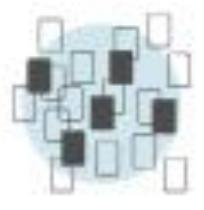
3 024 408 823
Occurrence records



109 882
Datasets

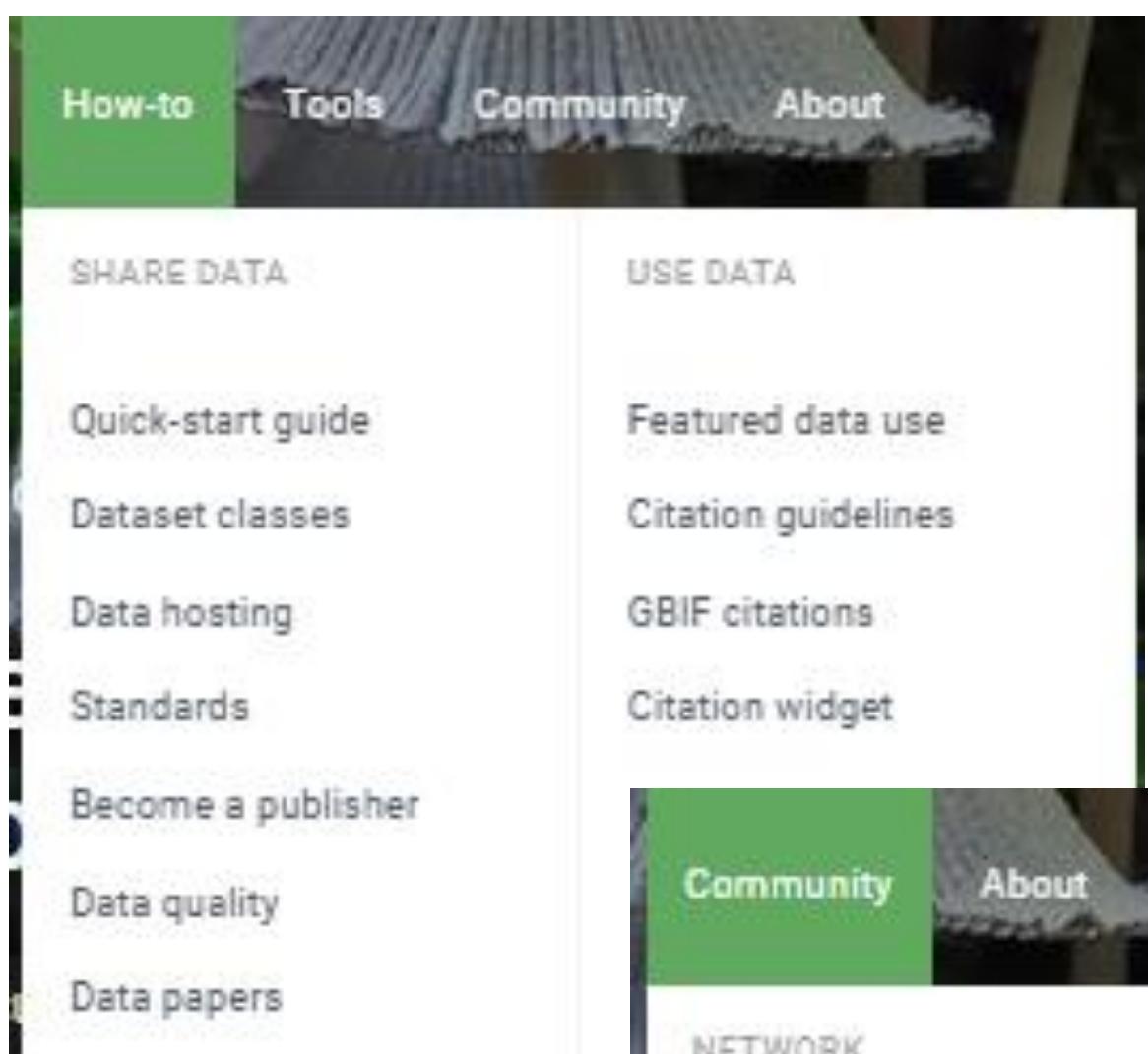
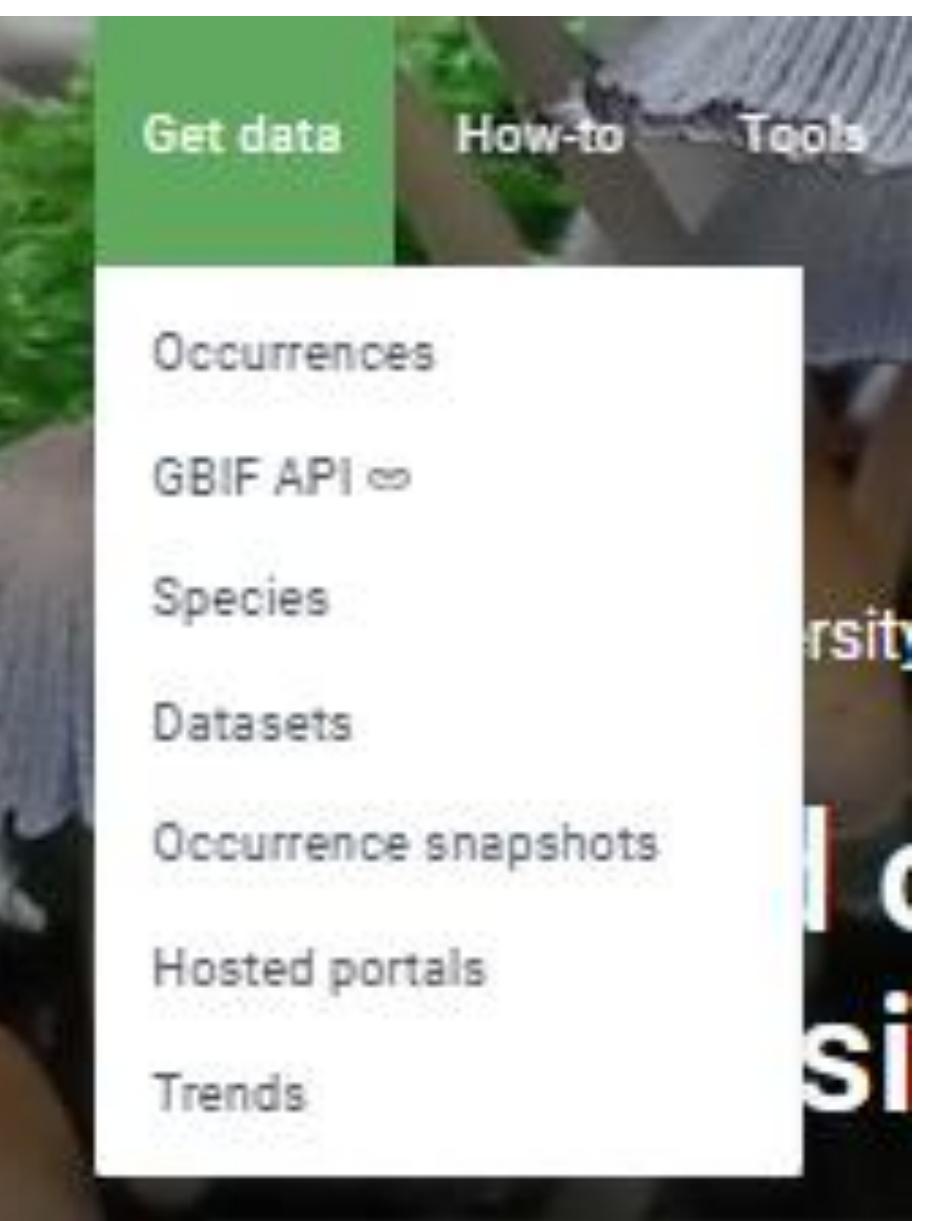
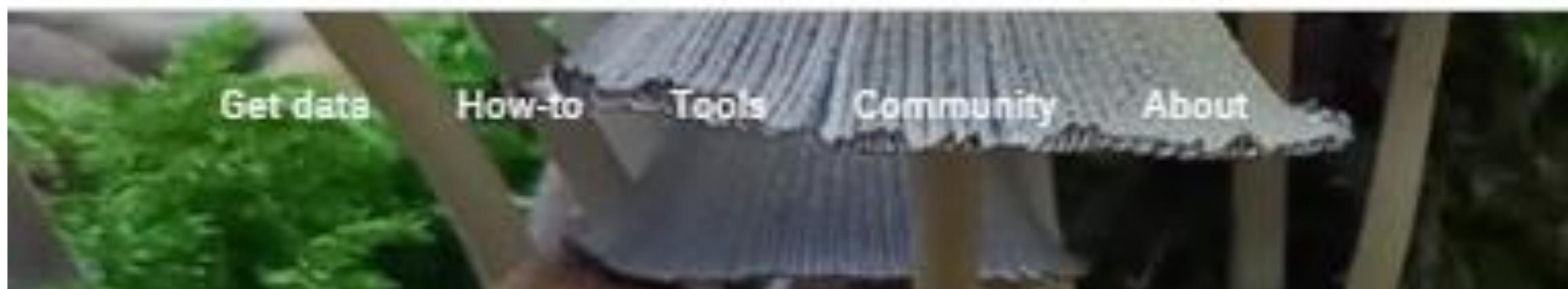


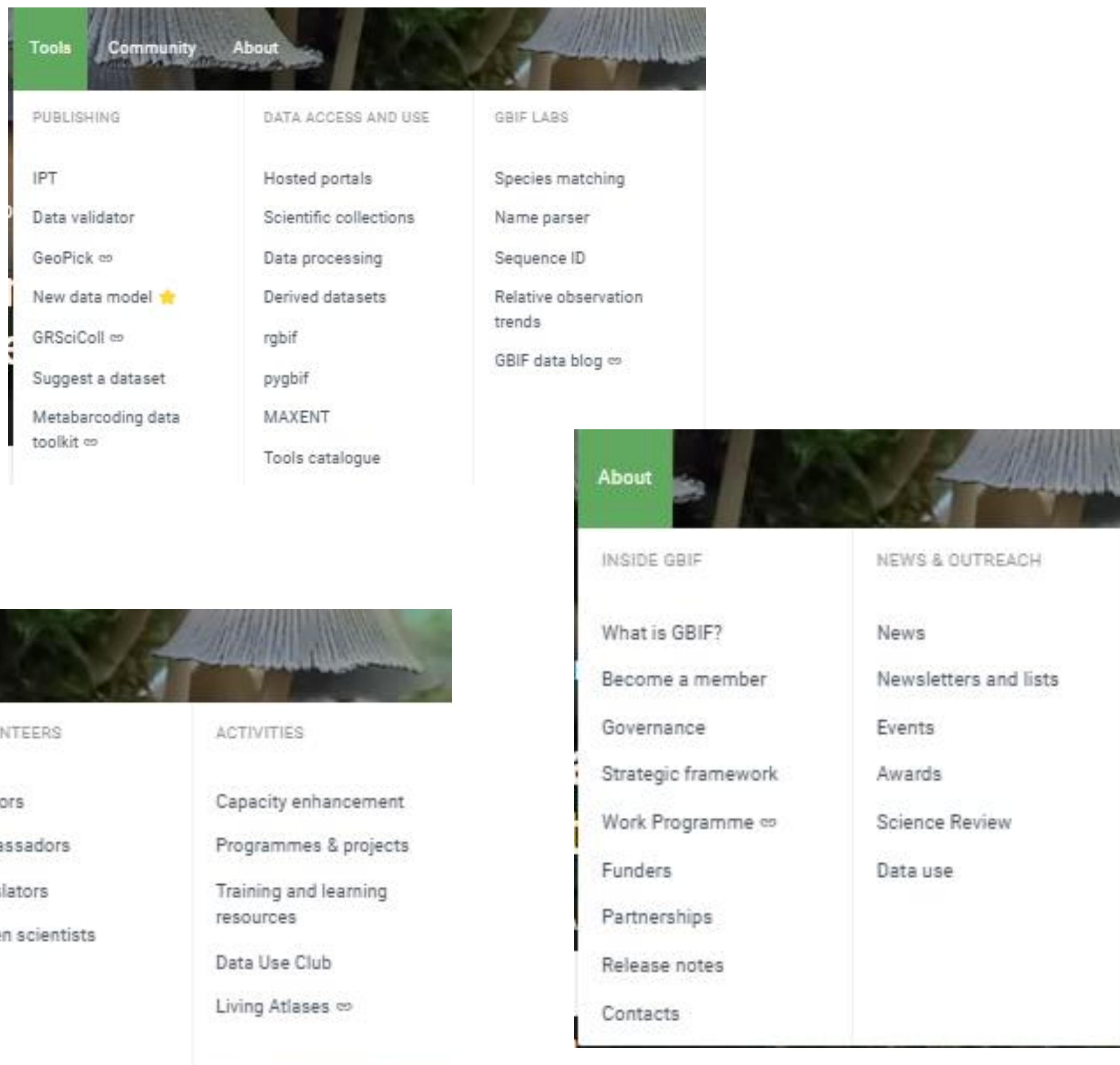
2 315
Publishing institutions



11 603
Peer-reviewed papers using data







[Tools](#) [Community](#) [About](#)

PUBLISHING	DATA ACCESS AND USE	GBIF LABS
IPT	Hosted portals	Species matching
Data validator	Scientific collections	Name parser
GeoPick 	Data processing	Sequence ID
New data model 	Derived datasets	Relative observation trends
GRSciColl 	rgbif	GBIF data blog 
Suggest a dataset	pygbif	
Metabarcoding data toolkit 	MAXENT	
	Tools catalogue	

[About](#)

ACTIVITIES	INSIDE GBIF	NEWS & OUTREACH
Capacity enhancement	What is GBIF?	News
Programmes & projects	Become a member	Newsletters and lists
Training and learning resources	Governance	Events
Data Use Club	Strategic framework	Awards
Living Atlases 	Work Programme 	Science Review
	Funders	Data use
	Partnerships	
	Release notes	
	Contacts	





Get data

How-to

Tools

Community

About



oleg.borodin

Occurrences



Search all fields



Simple filters

All filters

Occurrence status



Licence

Scientific name

Basis of record

Year

Month

Location

Administrative areas (gadm.org)

Country or area

Continent

Dataset

Publisher

SEARCH OCCURRENCES | 3,068,936,550 RESULTS

TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD

	Scientific name	Country or area	Coordinates	Event date	Occurrence status	Basis of record
	<i>Mareca strepera</i> (Linnaeus, 1758)	France	48.9N, 2.8E	2024 Jan 07	Present	Human observation
	<i>Ondatra zibethicus</i> (Linnaeus, 1766)	Netherlands (Kingdom of...)	51.5N, 6.1E	2024 Jan 18	Present	Human observation
	<i>Sitta europaea</i> Linnaeus, 1758	Denmark	55.5N, 11.9E	2024 Jan 28	Present	Human observation
	<i>Prunella modularis</i> (Linnaeus, 1758)	Germany	49.2N, 7.2E	2024 Jan 11	Present	Human observation
	<i>Callidemum Blanchard</i> , 1853	Australia	35.3S, 149.1E	2024 Jan 05	Present	Human observation
	<i>Pyrrhula pyrrhula</i> (Linnaeus, 1758)	Russian Federation	54.9N, 73.5E	2024 Jan 03	Present	Human observation
	Oecophoridae	Australia	35.3S, 149.1E	2024 Jan 30	Present	Human observation
	<i>Cyclamen hederifolium</i> Aiton	United Kingdom of Great ...	50.9N, 0.2W	2024 Jan 13	Present	Human observation
	<i>Aegithalos caudatus</i> (Linnaeus, 1758)	Russian Federation	55.4N, 38.4E	2024 Jan 21	Present	Human observation
	<i>Pyrrhula pyrrhula</i> (Linnaeus, 1758)	Russian Federation	55.4N, 38.5E	2024 Jan 21	Present	Human observation
	<i>Corvus cornix</i> Linnaeus, 1758	Russian Federation	55.4N, 38.5E	2024 Jan 21	Present	Human observation





Occurrences

1

SEARCH OCCURRENCES | 3,068,936,550 RESULTS

Search all fields



Simple filters

All filters

Occurrence status

Licence

Scientific name

Cicadellidae

Cicadellidae Family

Animalia > Arthropoda > Insecta > Hemiptera

Simplicillium cicadellidae W.H.Chen, G.Li

Fungi > Ascomycota > Sordariomycetes >
Hypocreales > Cordycipitaceae > Simplicillium

Bacteria 23,367,230

[incertae sedis](#) 22,341,189

Chromista 17,304,679

Protozoa 1,584,702

Viruses 914,859

Basis of record

TABLE	GALLERY	MAP	TAXONOMY	METRICS	⬇ DOWNLOAD	
⋮	Scientific name	Country or area	Coordinates	Event date	Occurrence status	Basis of record
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	<i>Pyrrhula pyrrhula</i> (Linnaeus, 1758)	Russian Federation	54.9N, 73.5E	2024 Jan 03	Present	Human observation
	Oecophoridae	Australia	35.3S, 149.1E	2024 Jan 30	Present	Human observation
	<i>Cyclamen hederifolium</i> Aiton	United Kingdom of Great ...	50.9N, 0.2W	2024 Jan 13	Present	Human observation
	<i>Aegithalos caudatus</i> (Linnaeus, 1758)	Russian Federation	55.4N, 38.4E	2024 Jan 21	Present	Human observation
	<i>Pyrrhula pyrrhula</i> (Linnaeus, 1758)	Russian Federation	55.4N, 38.5E	2024 Jan 21	Present	Human observation
	<i>Corvus cornix</i> Linnaeus, 1758	Russian Federation	55.4N, 38.5E	2024 Jan 21	Present	Human observation
	<i>Pica pica</i> (Linnaeus, 1758)	Russian Federation	55.4N, 38.5E	2024 Jan 21	Present	Human observation



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Simple filters All filters

Occurrence status 1

Licence

Scientific name

Cicadellidae

Basis of record

Year

Between X

1993 2024

CLEAR ADD

Month

Location

Administrative areas (gadm.org)

Country or area

SEARCH OCCURRENCES | 852,507 RESULTS

TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD

	Scientific name	Country or area	Coordinates	Event date	Occurrence status	Basis of record
	<i>Eurymeloides adspersa</i> (Signoret, 1850)	Australia	35.3S, 149.1E	2024 Jan 05	Present	Human observation
	<i>Orosius orientalis</i> (Matsumura, 1914)	Australia	35.3S, 149.1E	2024 Jan 30	Present	Human observation
	<i>Acericerus ribauti</i> Nickel & Remane, 2002	Germany	50.8N, 12.9E	2024 Jan 28	Present	Human observation
	<i>Katipo signoreti</i> Evans, 1934	Australia	35.3S, 149.2E	2024 Jan 16	Present	Human observation
	<i>Brunotartessus fulvus</i> (Walker, 1851)	Australia	35.3S, 149.1E	2024 Jan 16	Present	Human observation
	<i>Acericerus heydenii</i> (Kirschbaum, 1868)	United Kingdom of Great ...	55.1N, 1.7W	2024 Jan 12	Present	Human observation
	<i>Empoasca Walsh</i> , 1862	United Kingdom of Great ...	54.0N, 1.1W	2024 Jan 24	Present	Human observation
	<i>Zygina Fieber</i> , 1866	United Kingdom of Great ...	54.3N, 0.6W	2024 Jan 31	Present	Human observation
	<i>Reuplemmeles hobartensis</i> (Evans, 1938)	Australia	35.3S, 149.1E	2024 Jan 28	Present	Human observation
	<i>Eurymeloides Ashmead</i> , 1889	Australia	35.2S, 149.1E	2024 Jan 19	Present	Human observation
	<i>Tremulicerus vitreus</i> (Fabricius, 1803)	United Kingdom of Great ...	51.5N, 0.2W	2024 Jan 05	Present	Preserved specimen





< Occurrences 3

Cicadellidae

Basis of record

Year

Between + 1993 2024

CLEAR ADD

Month

Location

Administrative areas (gadm.org)

Country or area

Kazakhstan 8

Search

United States of America 138 252
 Canada 133 601
 Costa Rica 128 961

SEARCH OCCURRENCES | 8 RESULTS

TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD

	Scientific name	Country or area	Coordinates	Event date	Occurrence status	Basis of record
	<i>Eremophlepsius sexnotatus</i> (Kusnezov, 1929)	Kazakhstan		2022 Jun 24	Present	Material citation
	<i>Pseudophlepsius binotatus</i> (Signoret, 1880)	Kazakhstan		2022 Jun 24	Present	Material citation
	<i>Pseudophlepsius binotatus</i> (Signoret, 1880)	Kazakhstan		2019 Jun 27	Present	Material citation
	<i>Taurotettix modestus</i> (Mitjaev, 1971)	Kazakhstan		2019 Jun 25	Present	Material citation
	<i>Taurotettix beckeri</i> (Fieber, 1885)	Kazakhstan		2019 Jun 11	Present	Material citation
	<i>Fieberiella septentrionalis</i> Wagner, 1963	Kazakhstan	43.3N, 77.2E	2019 Sep 25	Present	Human observation
	<i>Cicadella viridis</i> (Linnaeus, 1758)	Kazakhstan	49.9N, 82.7E	2016 Jul 15	Present	Human observation
	<i>Taurotettix modestus</i> (Mitjaev, 1971)	Kazakhstan		2004 Jul 02	Present	Material citation



TABLE GALLERY MAP TAXONOMY METRICS 

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Chordata	250,792
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Annelida	111
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Nematoda	98
Echinodermata	75
Porifera	9
Bryozoa	8
Unknown phylum	-319,059

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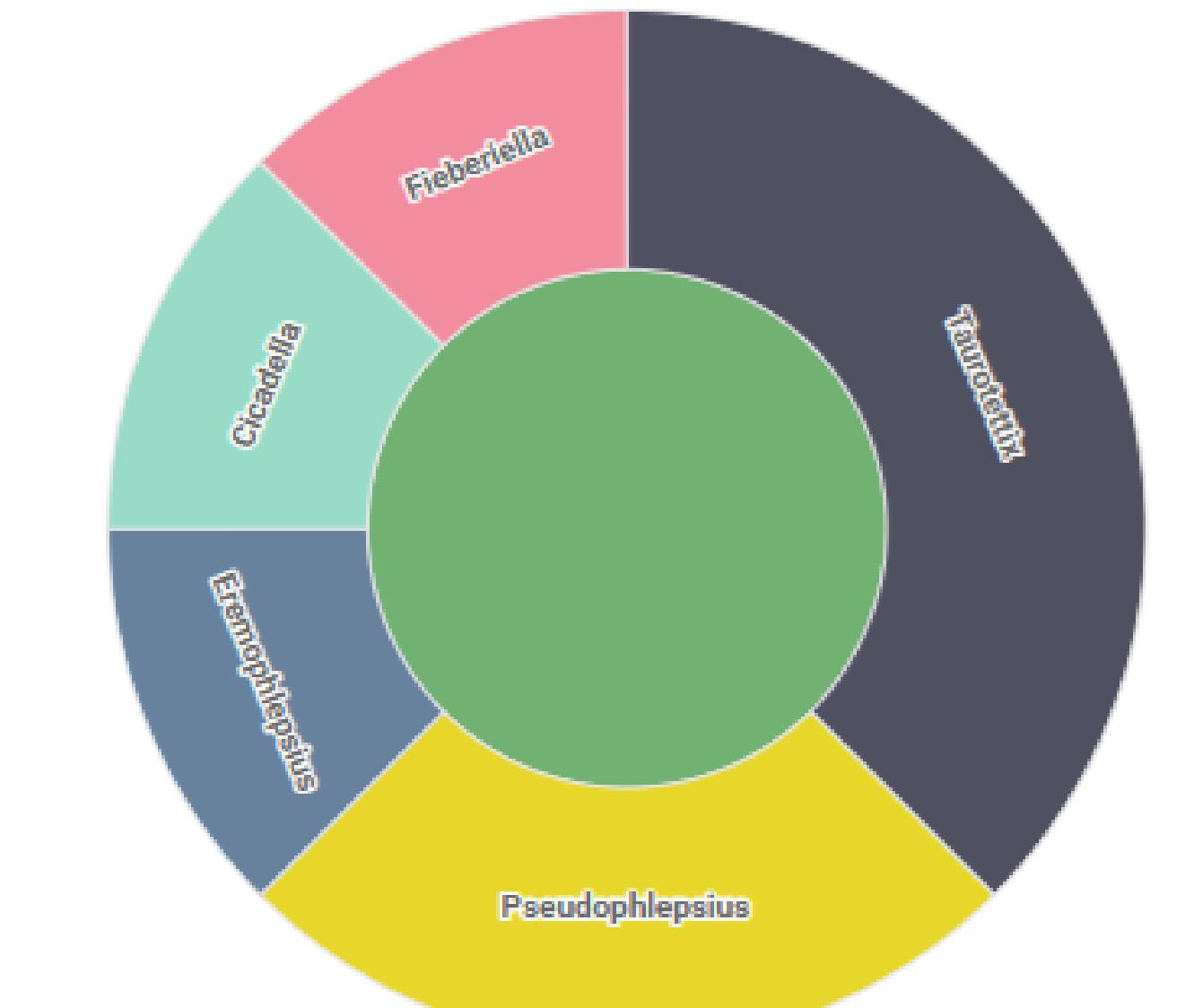
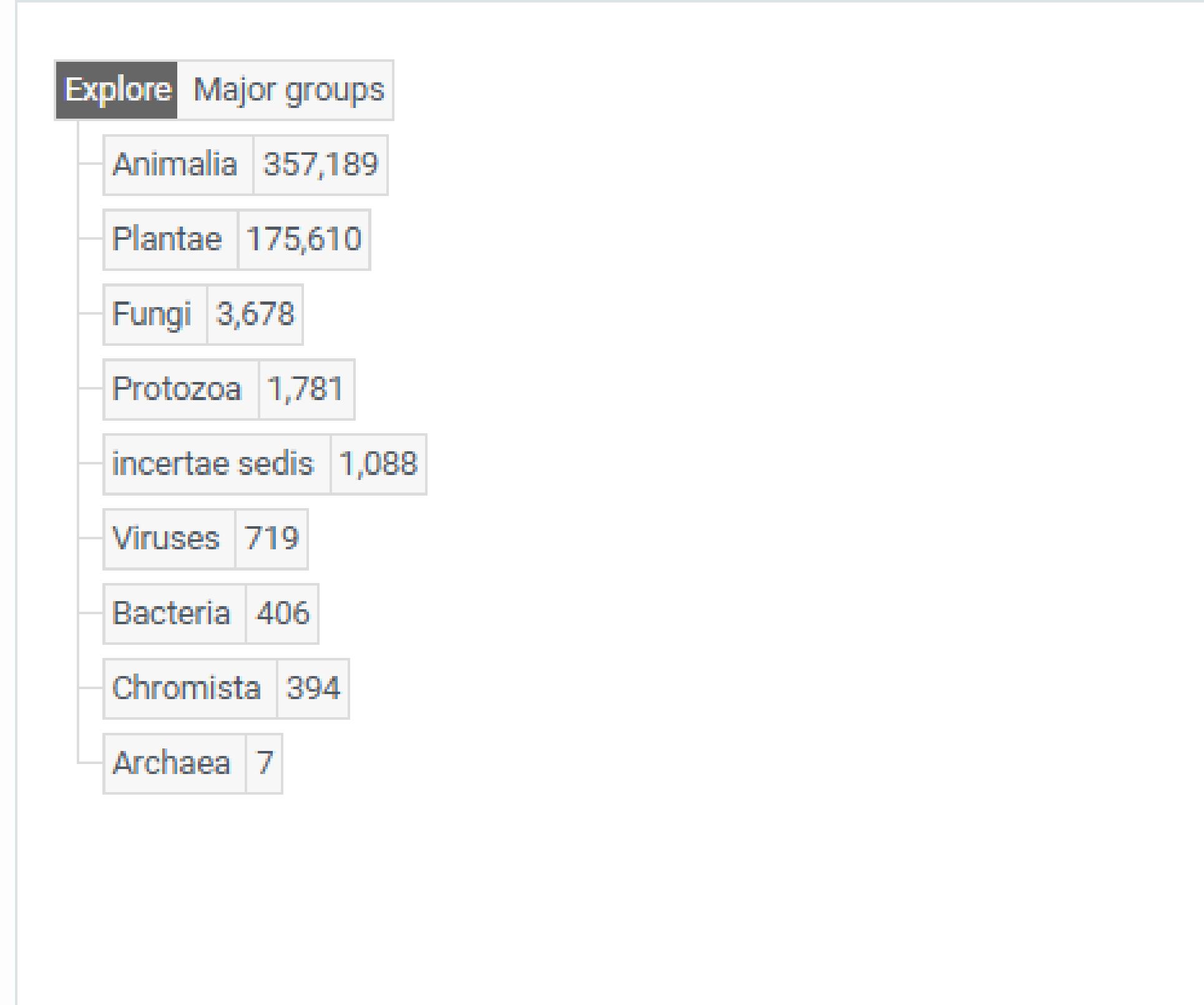


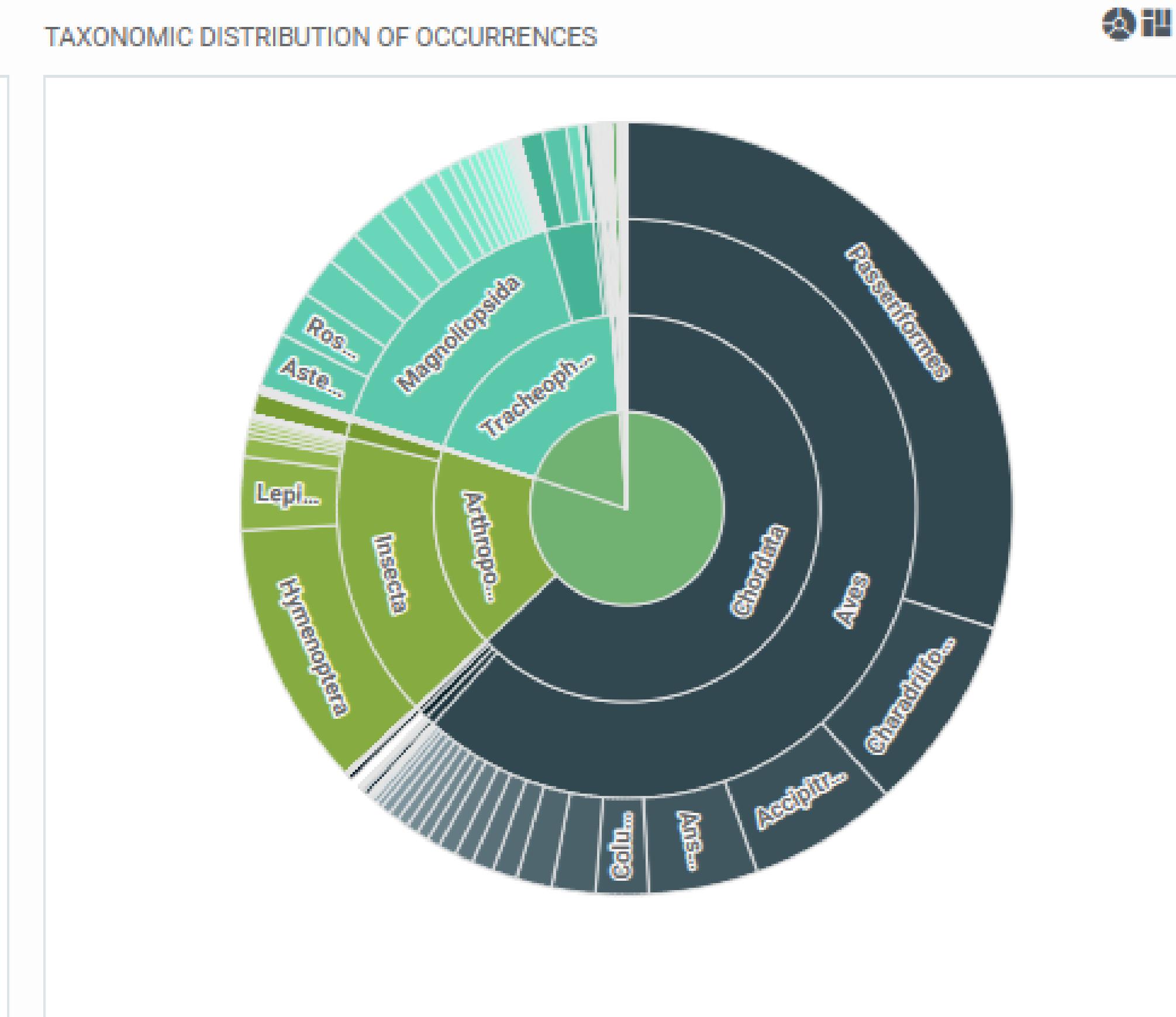
TABLE GALLERY MAP TAXONOMY METRICS

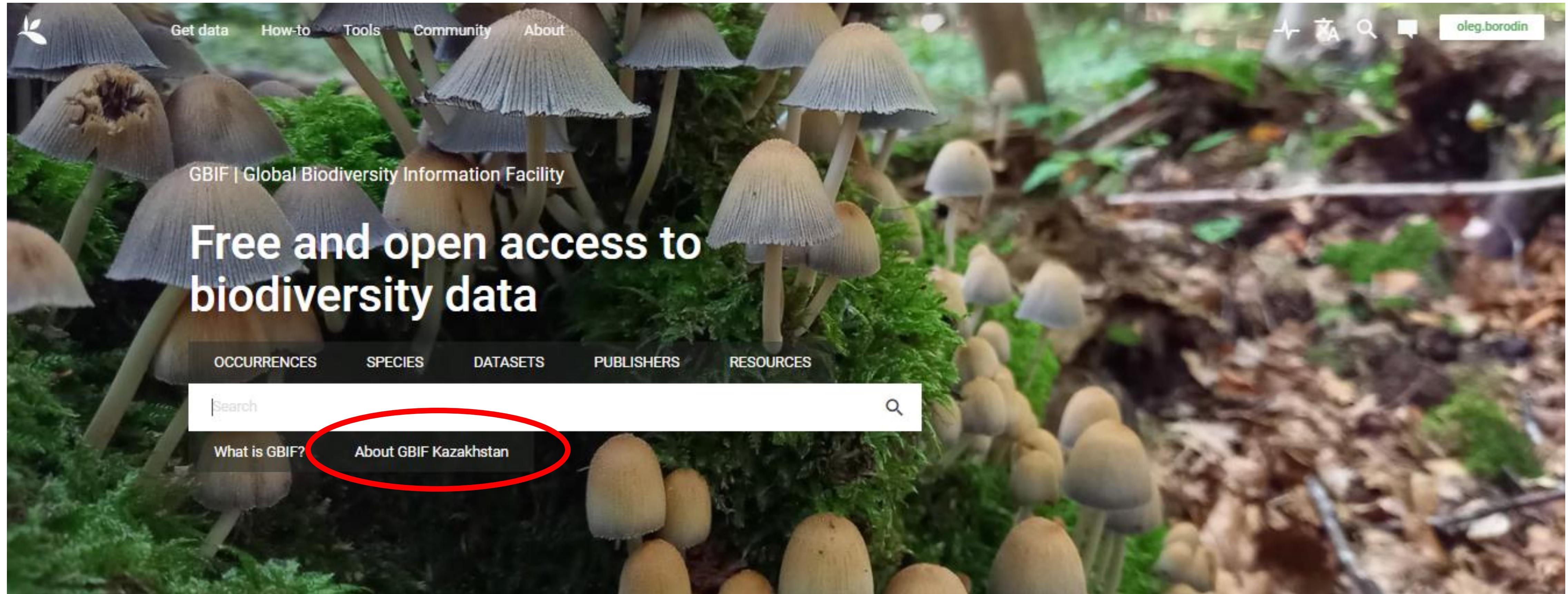
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TAXONOMIC DISTRIBUTION OF OCCURRENCES





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DATA ABOUT KAZAKHSTAN

540,872

Occurrences

793

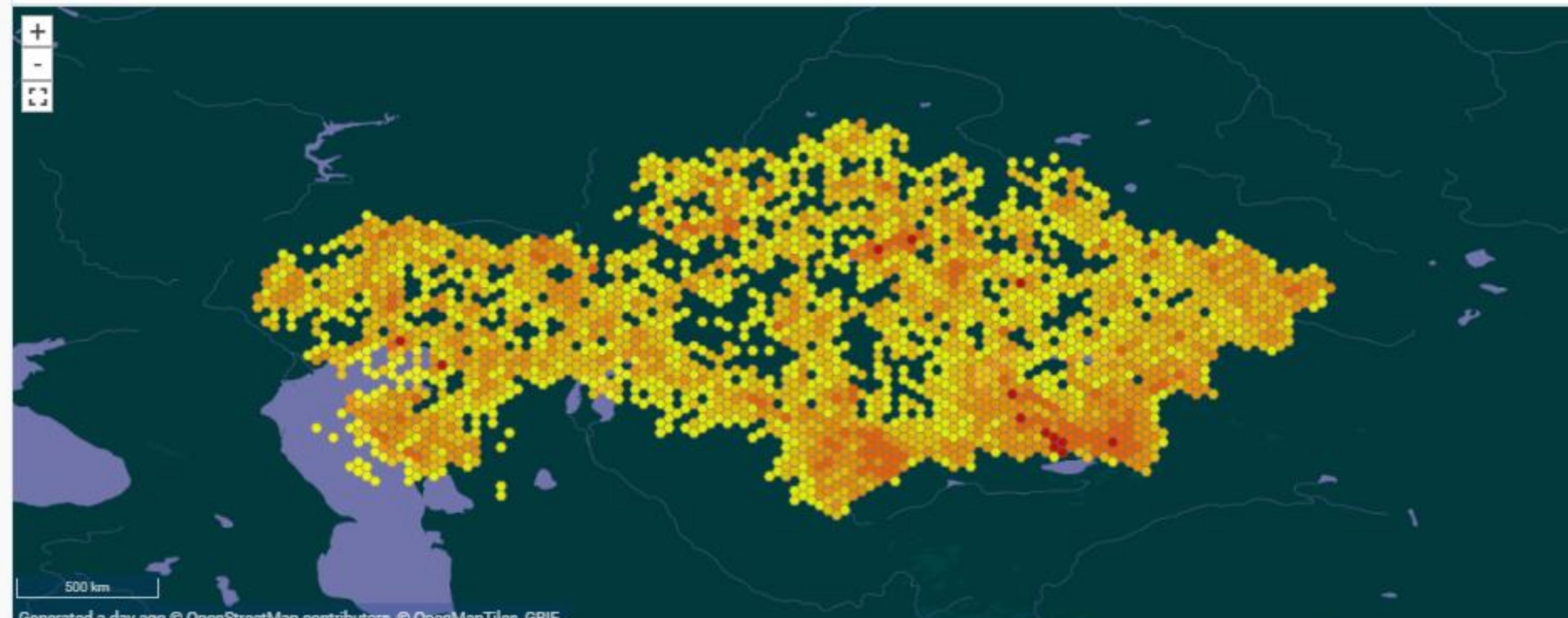
Datasets

44

Countries and areas contribute
data

305

Publishers



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Any year

1765 - 2024

EXPLORE AREA



DATA FROM KAZAKHSTAN

221,986

Published occurrences

20

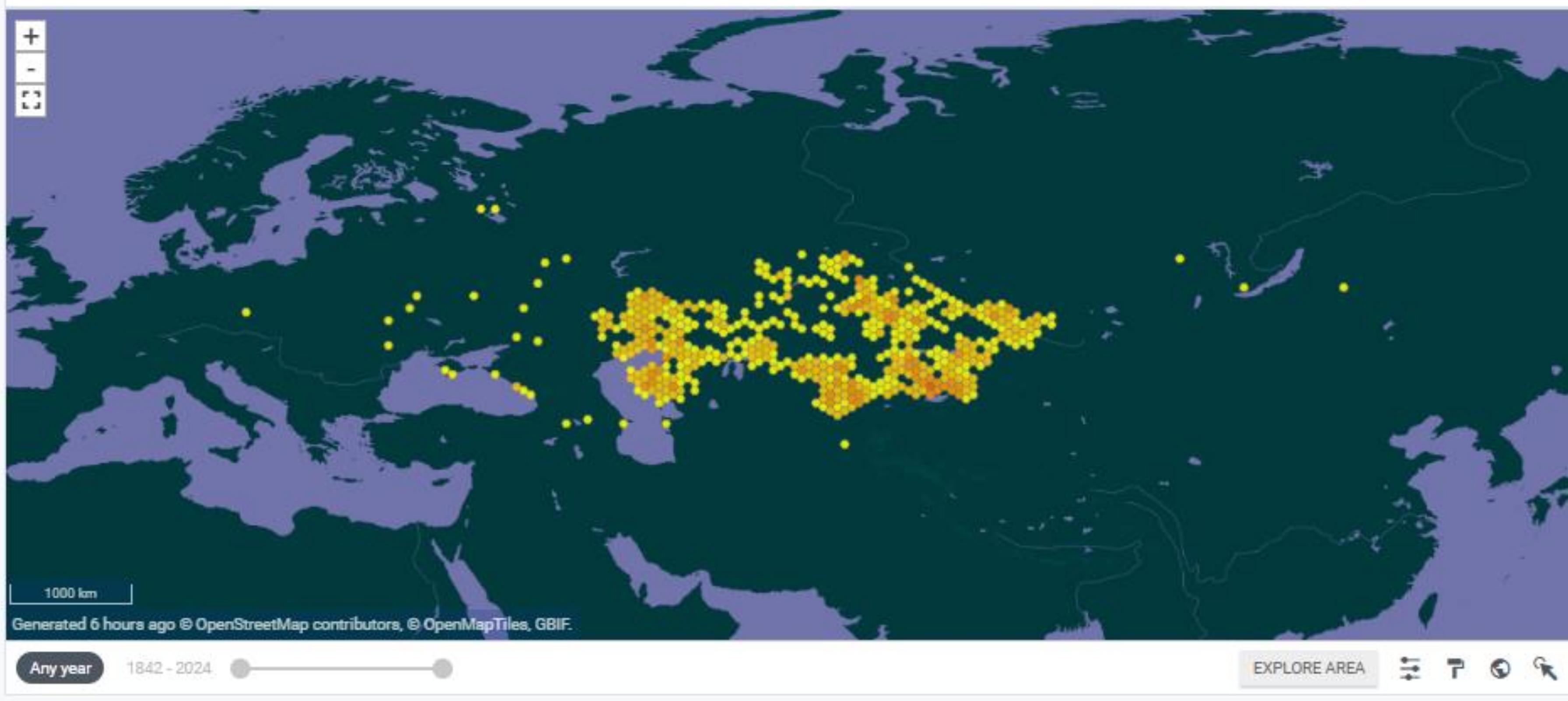
Published datasets

15

Countries and areas covered by
data from Kazakhstan

10

Publishers from Kazakhstan





< Occurrences 3

Cicadellidae

Basis of record

Year

Between + 1993 2024

CLEAR ADD

Month

Location

Administrative areas (gadm.org)

Country or area

Kazakhstan 8

Search

United States of America 138 252
 Canada 133 601
 Costa Rica 128 961

SEARCH OCCURRENCES | 8 RESULTS

TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD

	Scientific name	Country or area	Coordinates	Event date	Occurrence status	Basis of record
	<i>Eremophlepsius sexnotatus</i> (Kusnezov, 1929)	Kazakhstan		2022 Jun 24	Present	Material citation
	<i>Pseudophlepsius binotatus</i> (Signoret, 1880)	Kazakhstan		2022 Jun 24	Present	Material citation
	<i>Pseudophlepsius binotatus</i> (Signoret, 1880)	Kazakhstan		2019 Jun 27	Present	Material citation
	<i>Taurotettix modestus</i> (Mitjaev, 1971)	Kazakhstan		2019 Jun 25	Present	Material citation
	<i>Taurotettix beckeri</i> (Fieber, 1885)	Kazakhstan		2019 Jun 11	Present	Material citation
	<i>Fieberiella septentrionalis</i> Wagner, 1963	Kazakhstan	43.3N, 77.2E	2019 Sep 25	Present	Human observation
	<i>Cicadella viridis</i> (Linnaeus, 1758)	Kazakhstan	49.9N, 82.7E	2016 Jul 15	Present	Human observation
	<i>Taurotettix modestus</i> (Mitjaev, 1971)	Kazakhstan		2004 Jul 02	Present	Material citation



	Raw data	Interpreted data	Multimedia	Coordinates	Format	Estimated data size
 SIMPLE	X	✓	X	✓ (if available)	Tab-delimited CSV (for use in Excel, etc.) <small>?</small>	4 KB (952 Bytes zipped for download)
 DARWIN CORE ARCHIVE	✓	✓	✓ (links)	✓ (if available)	Tab-delimited CSV (for use in Excel, etc.) <small>?</small>	13 KB (3 KB zipped for download)
 SPECIES LIST	X	✓	X	X	Tab-delimited CSV (for use in Excel, etc.) <small>?</small>	

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Year range: 2004–2022

With year: 100 %

With coordinates: 25 %

With taxon match: 100 %

Known issues

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6 Occurrence status inferred from individual count 2 Continent derived from coordinates 2 Taxon match fuzzy



	Raw data	Interpreted data	Multimedia	Coordinates	Format	Estimated data size
 SIMPLE	X	✓	X	✓ (if available)	Tab-delimited CSV (for use in Excel, etc.) ?	291 MB (64 MB zipped for download)
 DARWIN CORE ARCHIVE	✓	✓	✓ (links)	✓ (if available)	Tab-delimited CSV (for use in Excel, etc.) ?	891 MB (197 MB zipped for download)
 SPECIES LIST	X	✓	X	X	Tab-delimited CSV (for use in Excel, etc.) ?	

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Total: 540 872

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Year range: 1765–2024

With year: 100 %

With coordinates: 76 %

With taxon match: 99.8 %

Known issues

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400 295

Continent derived from coordinates

22 064

Occurrence status inferred from individual count

15 877

Country derived from coordinates





Occurrences 3

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Occurrence status

Licence

Scientific name

Cicadellidae

Basis of record

Year

Between start of 1993 and end of 2024

Month

Location

Administrative areas (gadm.org)

Raw data Interpreted data Multimedia Coordinates Format

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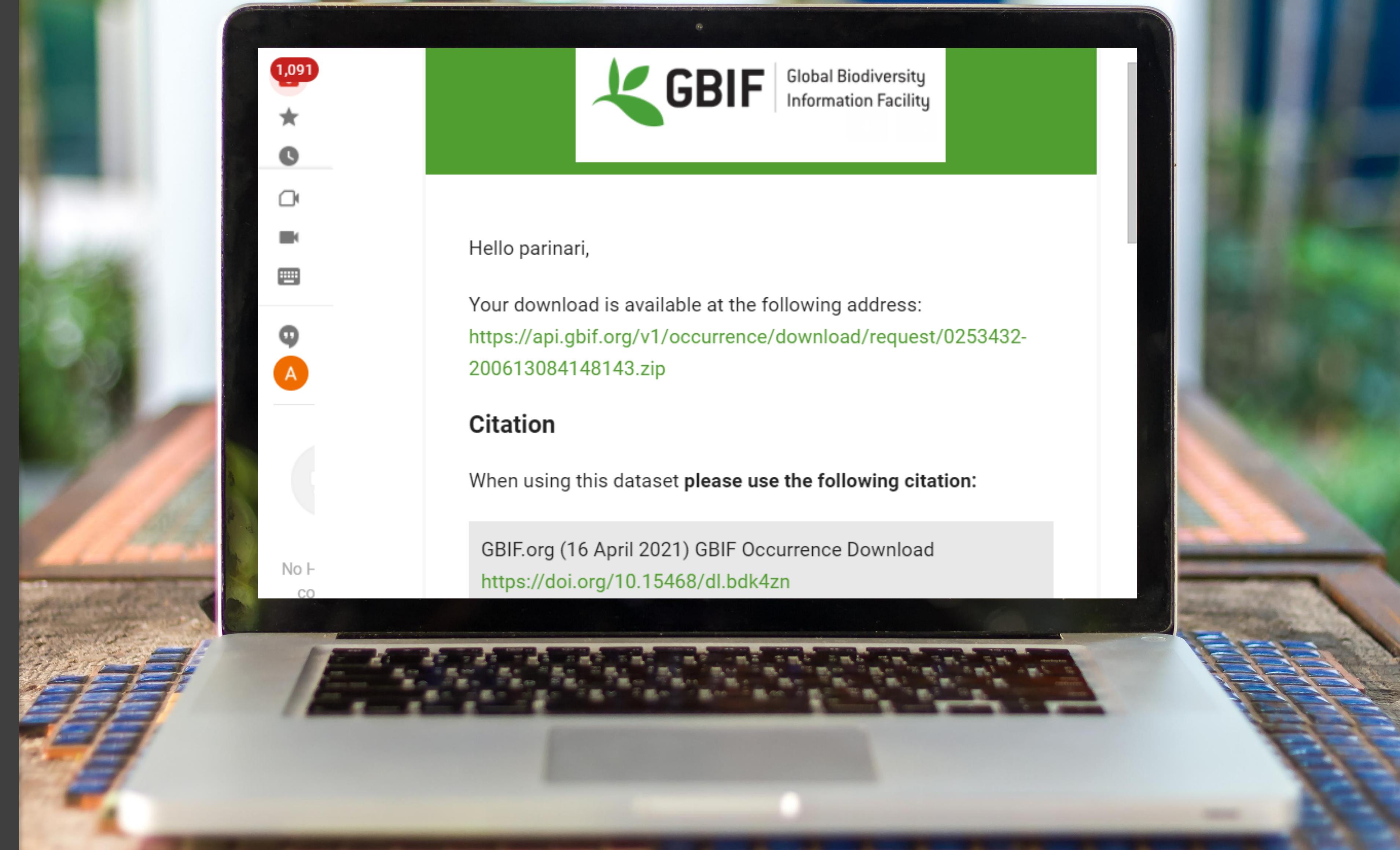
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United CSV (for use in)	
United CSV (for use in)	

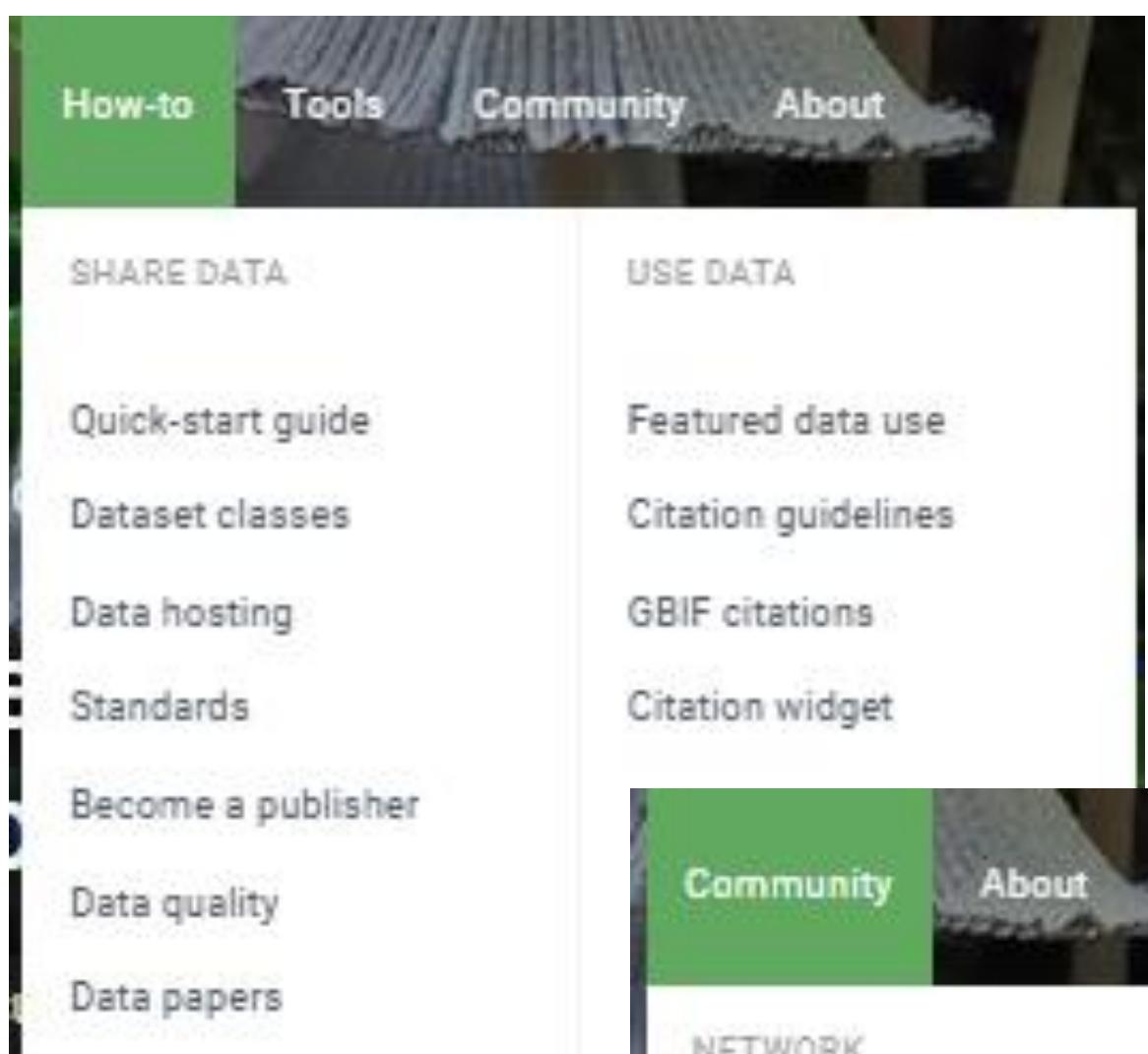
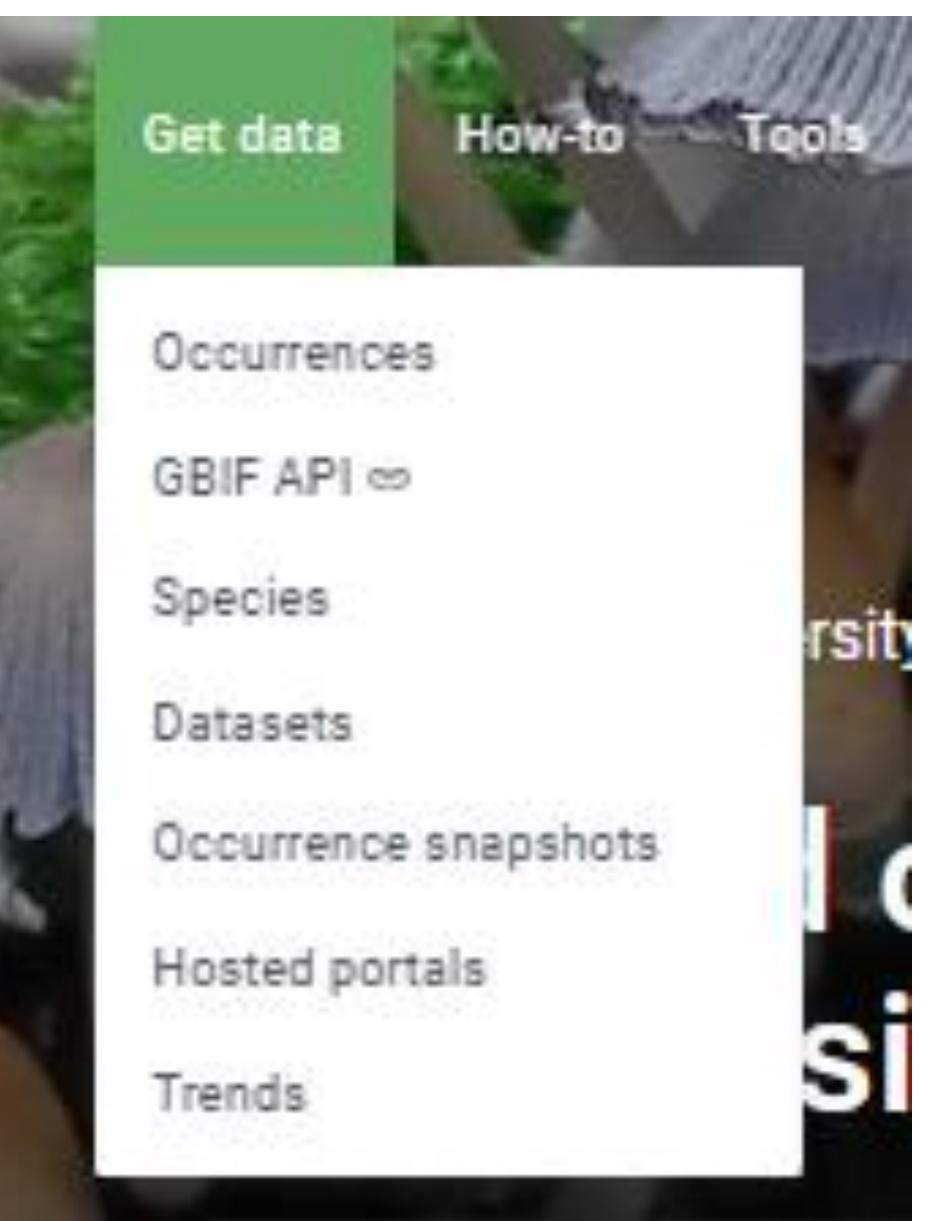
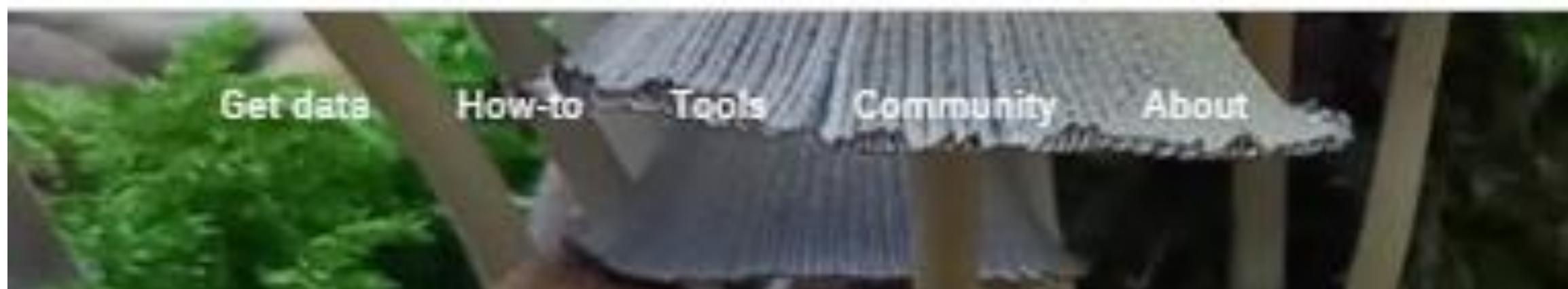
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20 Nov

2024

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Event

Meeting goals The Africa nodes meeting aims to: Strengthen the GBIF Africa community Provide a forum for GBIF nodes in Africa and the GBIF Secretariat to share latest updates and best practices Showc...

27 Nov

2024

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[November 27, 2024 - November 29, 2024](#)
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Event

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3 Dec

2024

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Simple filters All filters

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cientific name

Cercopidae

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Animalia 120,584

Chordata 2,137,565,042

Arthropoda 276,200,078

Mollusca 21,701,046

Annelida 6,462,415

Cnidaria 4,718,470

Echinodermata 2,979,127

Porifera 1,677,637

Brachiopoda 941,068

Bryozoa 805,524

Nematoda 709,820

Platyhelminthes 565,676

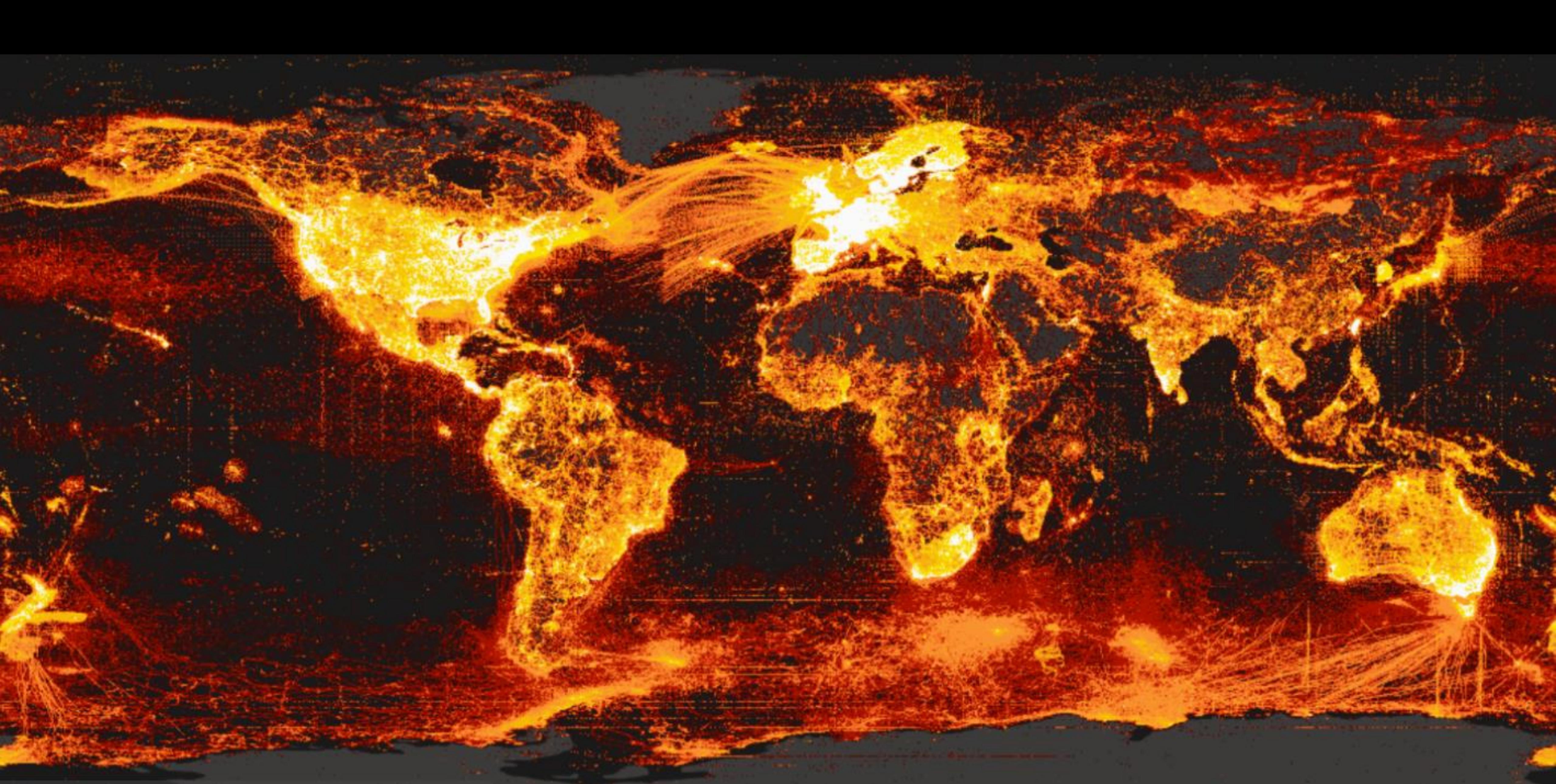
Locris rubida (Stål, 1855) Notozulia enteriana (Berg, 1879) Locris arithmeticata (Walker, 1851) Locris areata (Walker, 1851) Mahanarva rubripennis (Schmidt, 1922) Prosapia simulans (Walker, 1858)

Locris transversa (Thunberg, 1822) Maxantonia stabilis Nast, 1979 Sphenorhina rubra (Linnaeus, 1758) Anyllis leiala Kirkaldy, 1906 Mahanarva costaricensis Sphenorhina rubra (Linnaeus, 1758)

Caloscarta capitata (Stål, 1865) Locris arithmeticata (Walker, 1851) Sphenorhina limbata (Lallemand, 1927) Prosapia bicincta (Say, 1830) Callitettix versicolor (Fabricius, 1794)

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Dmitry Schigel | Scientific officer



Biodiversity data in montane and arid Eurasia
Almaty, Kazakhstan

18-19 November 2024

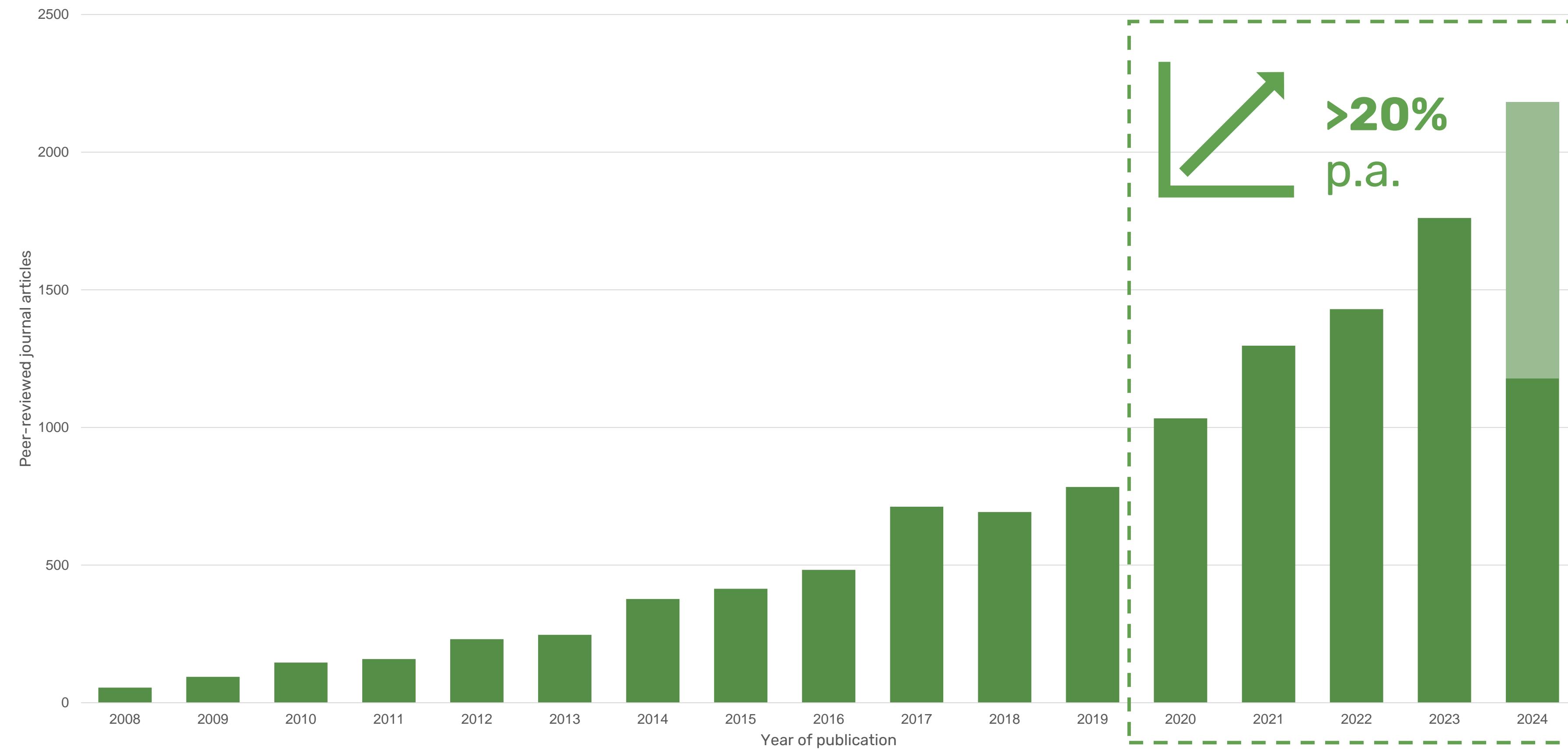


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- Started in 2010
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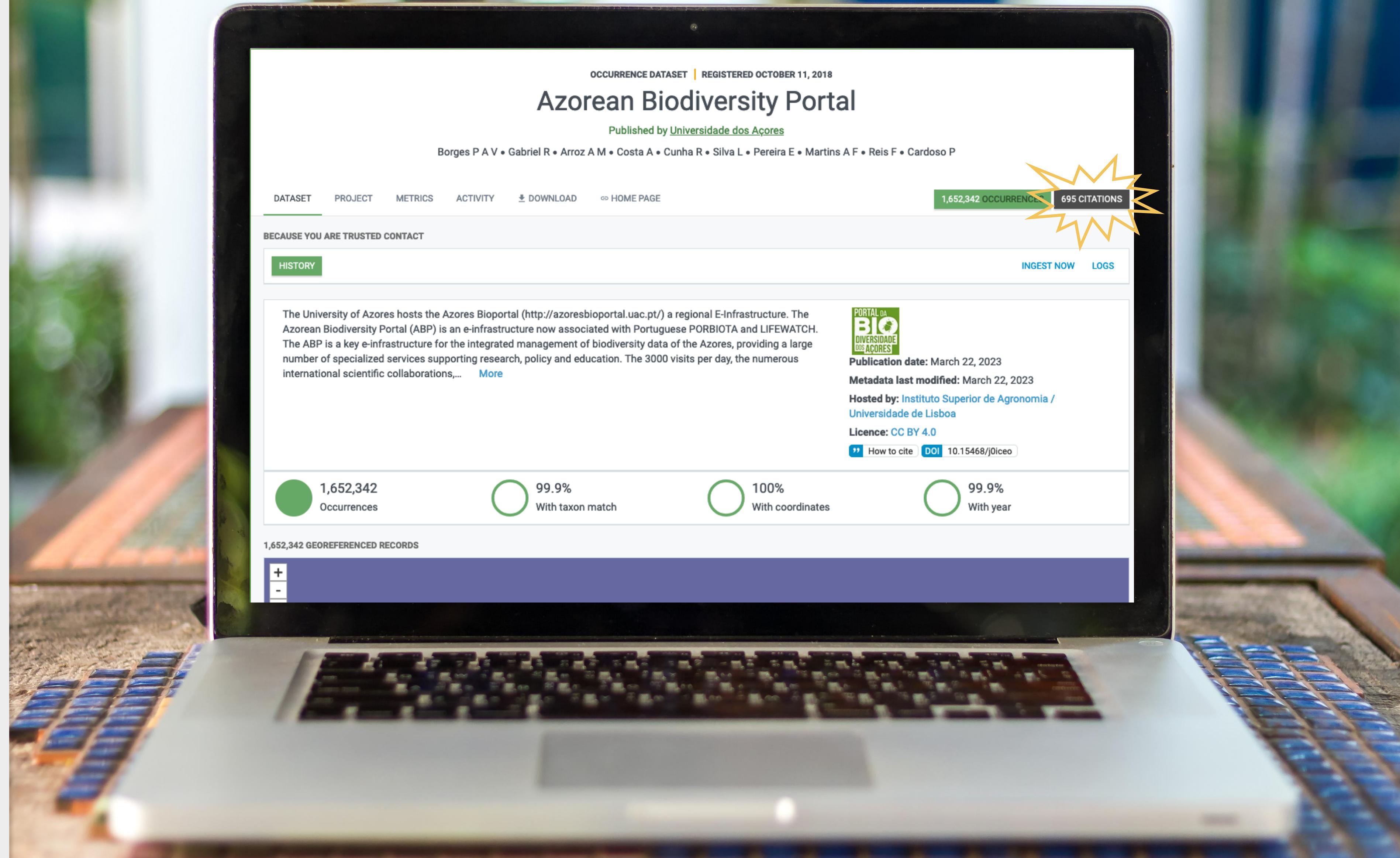


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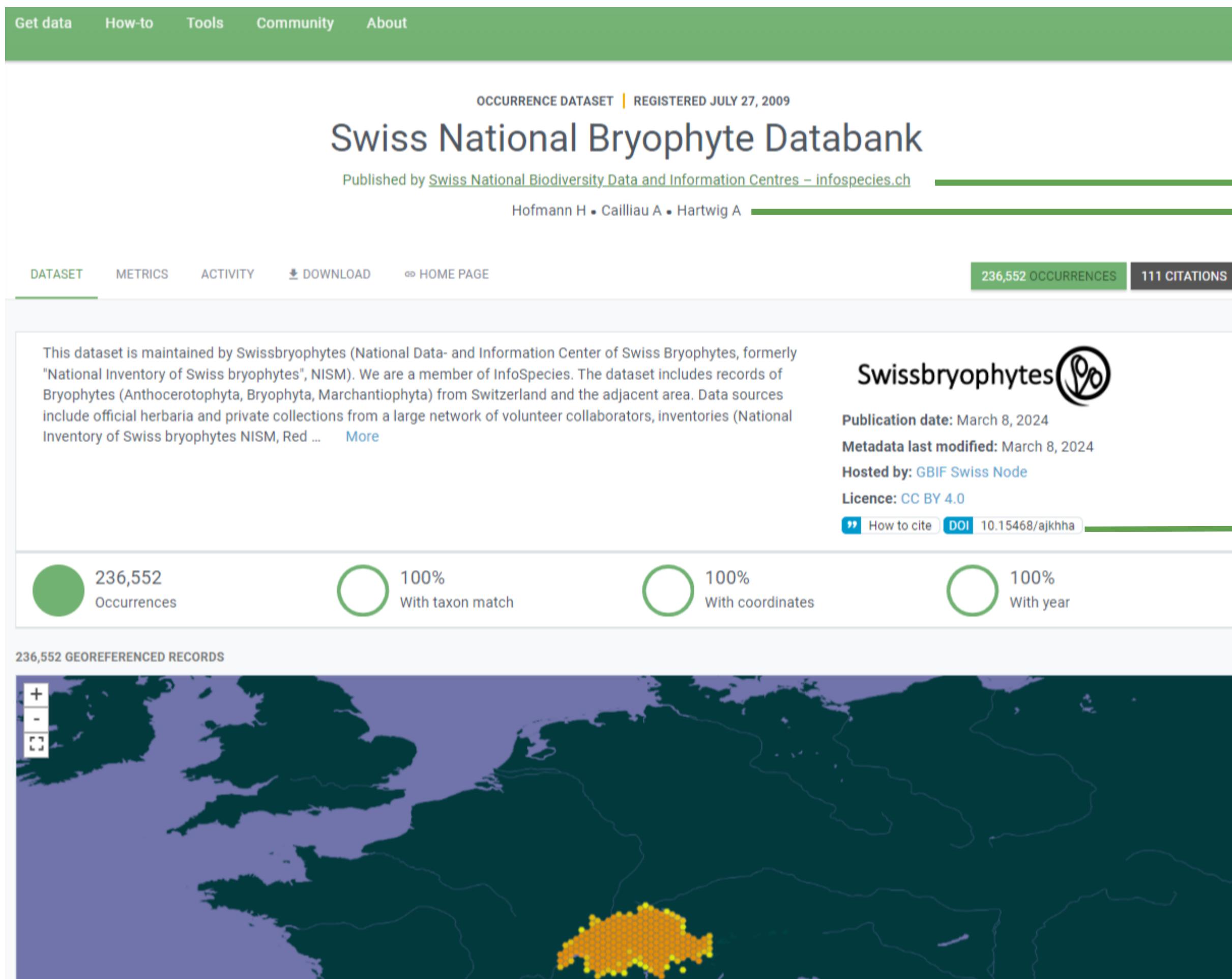
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- **DOIs** for datasets
- **DOIs** for downloads
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- Paper → (download) → dataset(s)
- Dataset citations



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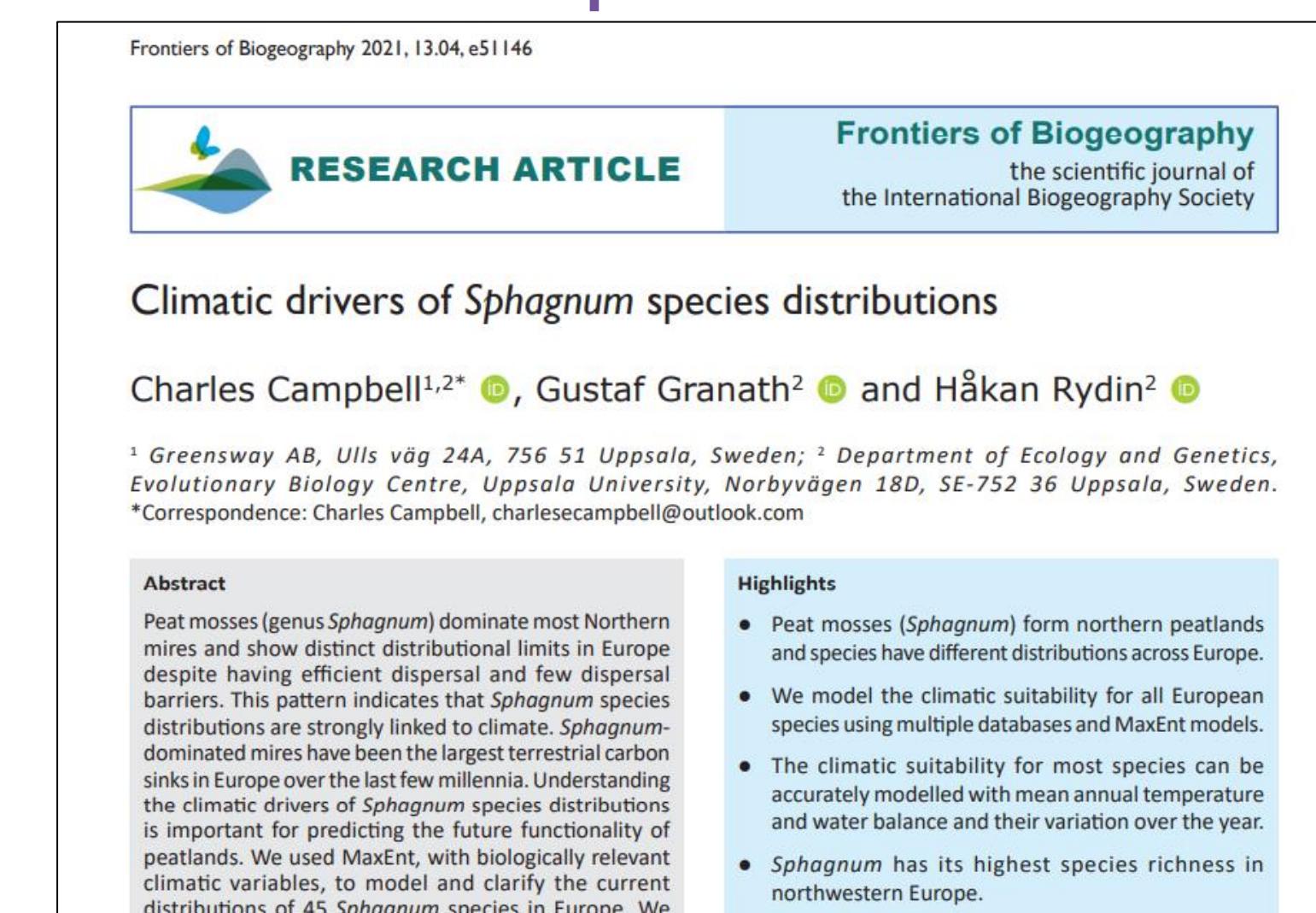


1 Affiliation

2 Authorship

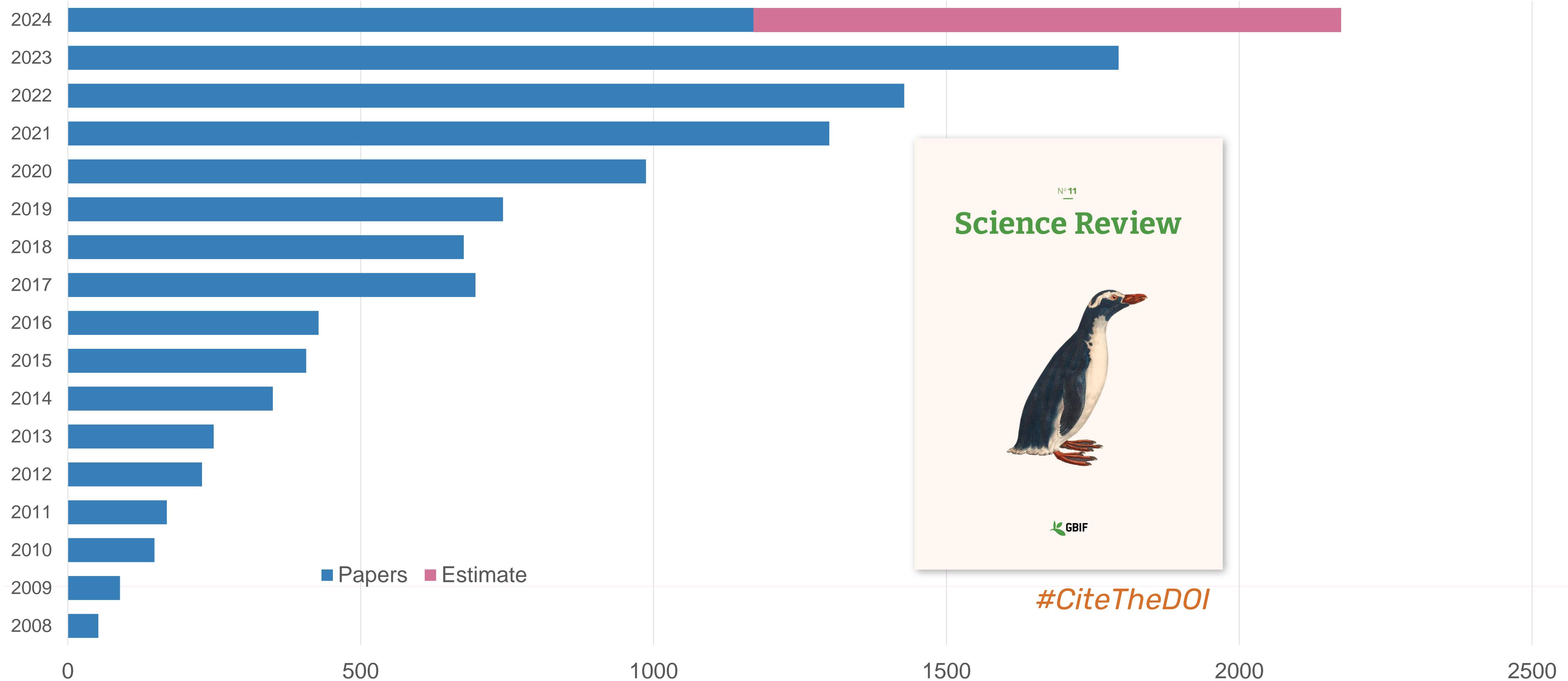
3 Data citations

4 DOI



Hofmann H, Kiebacher T, Moser T, Meier M (2021). Swiss National Bryophyte Databank. Swiss National Biodiversity Data and Information Centres – infospecies.ch. Occurrence dataset <https://doi.org/10.15468/ajkhha> accessed via GBIF.org on 2022-04-28.

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Data citations

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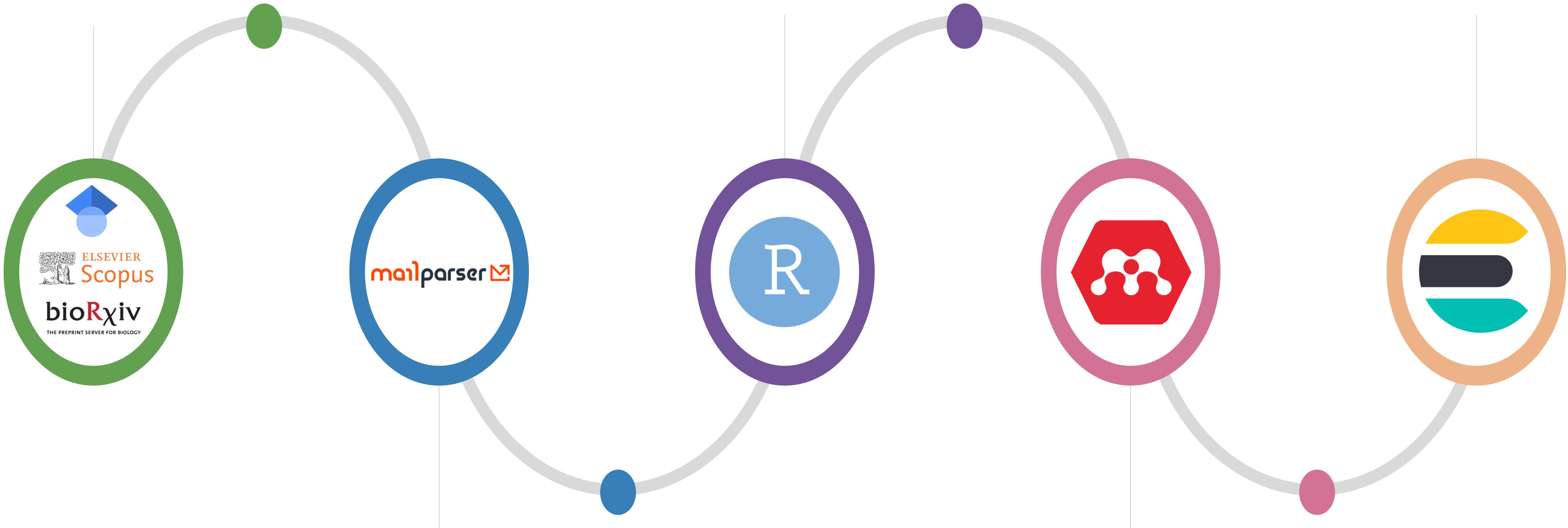
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Real world

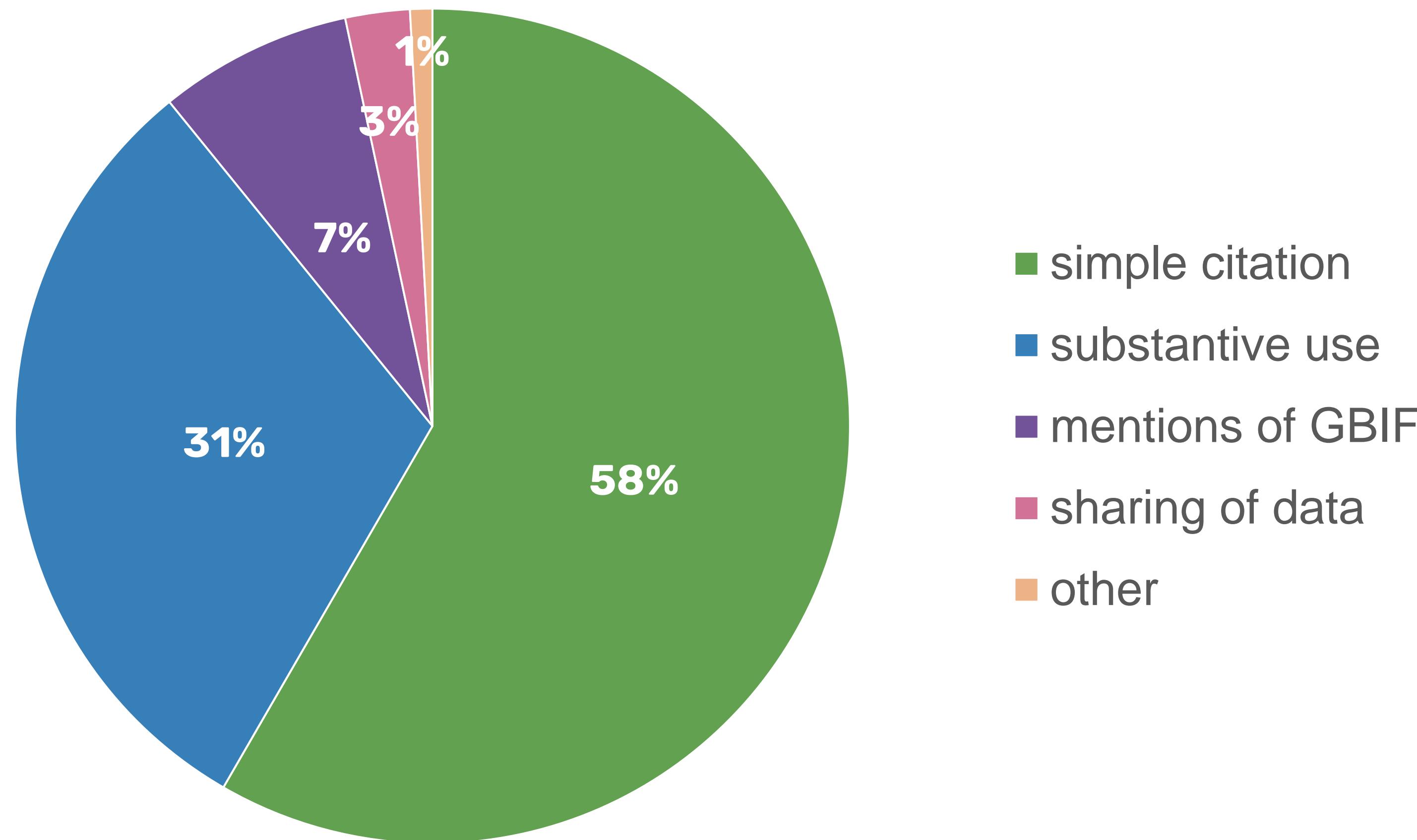
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- Some citations are included in the body text of papers, some in data availability statements, and some are even hidden in supplements
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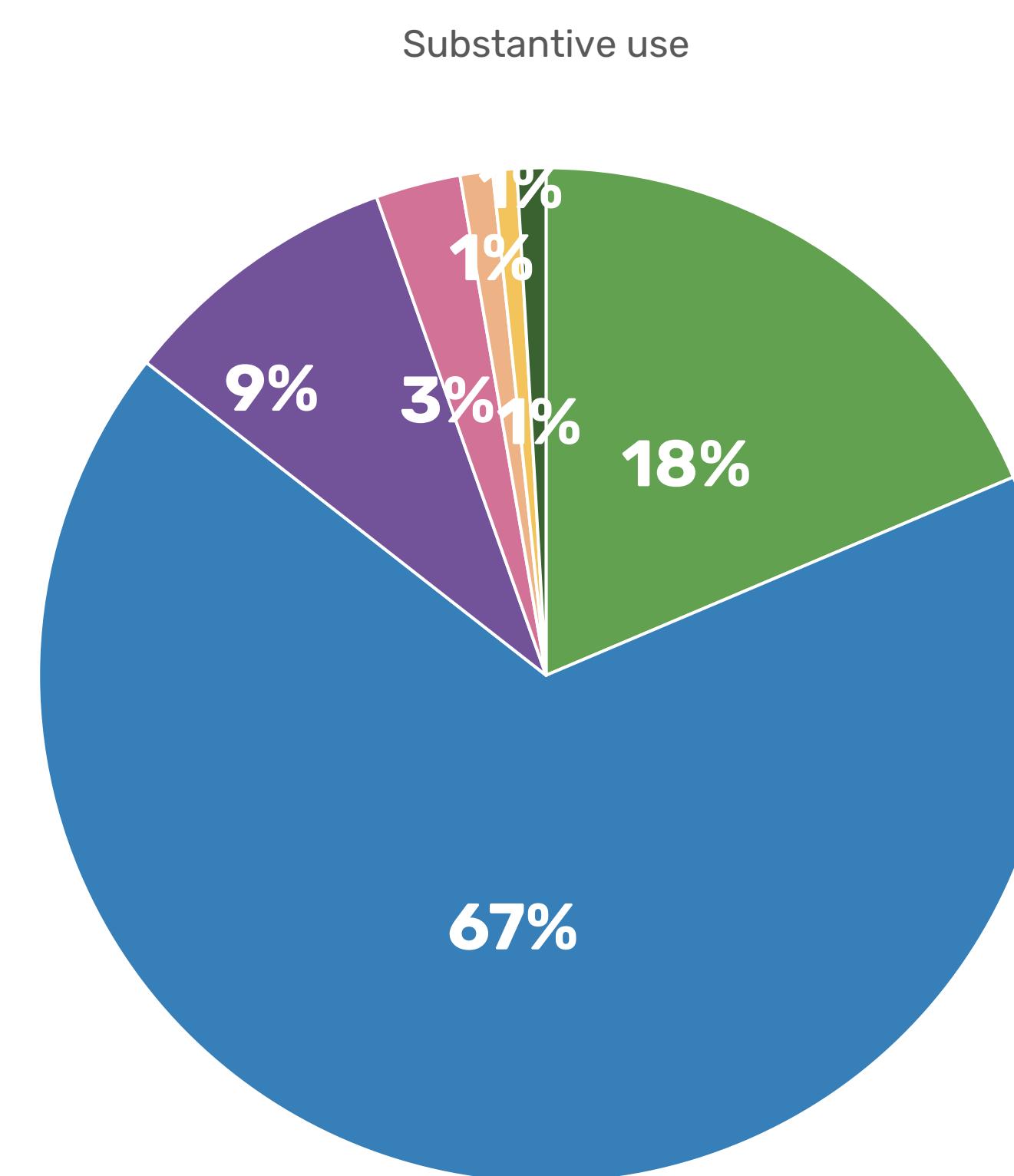
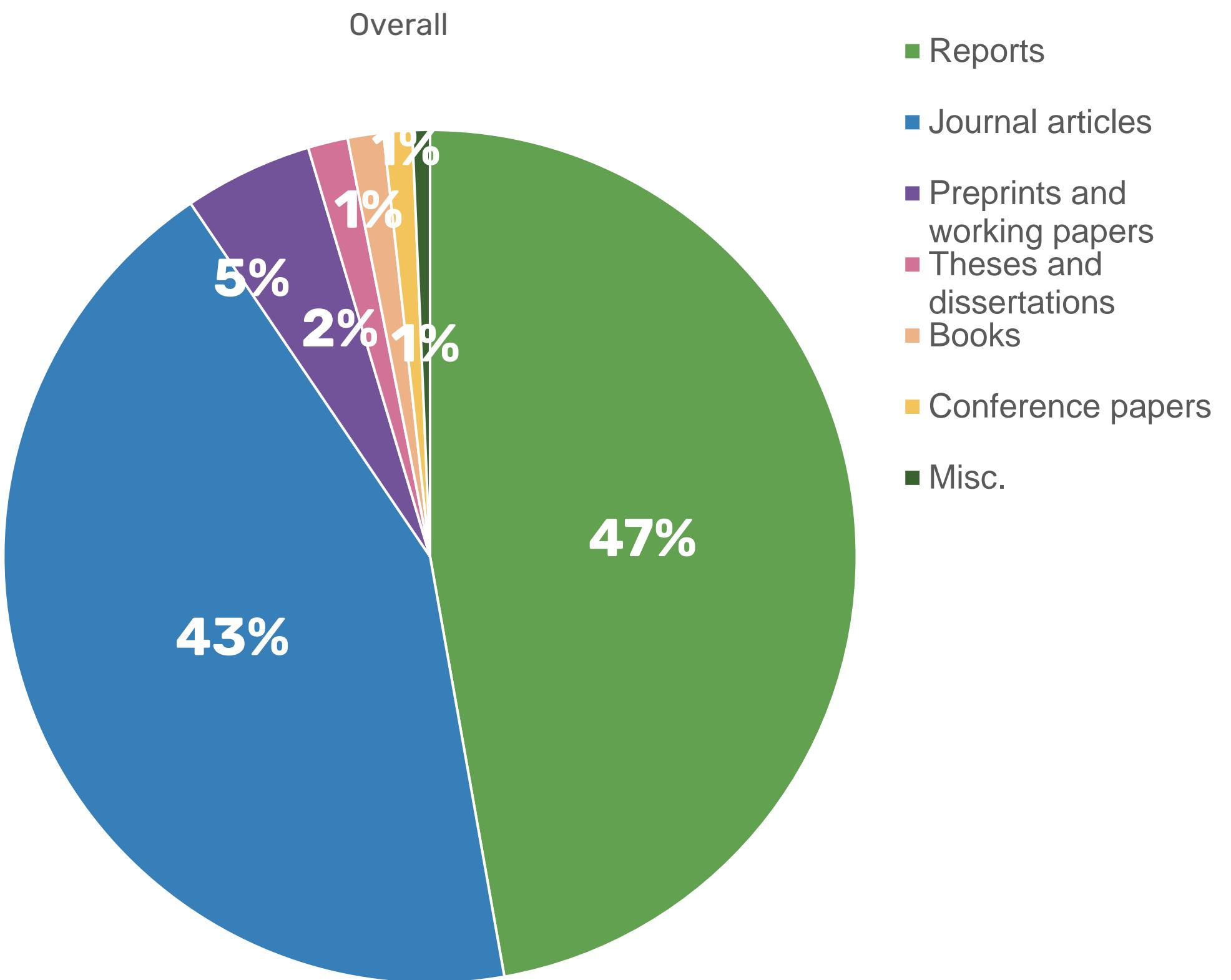
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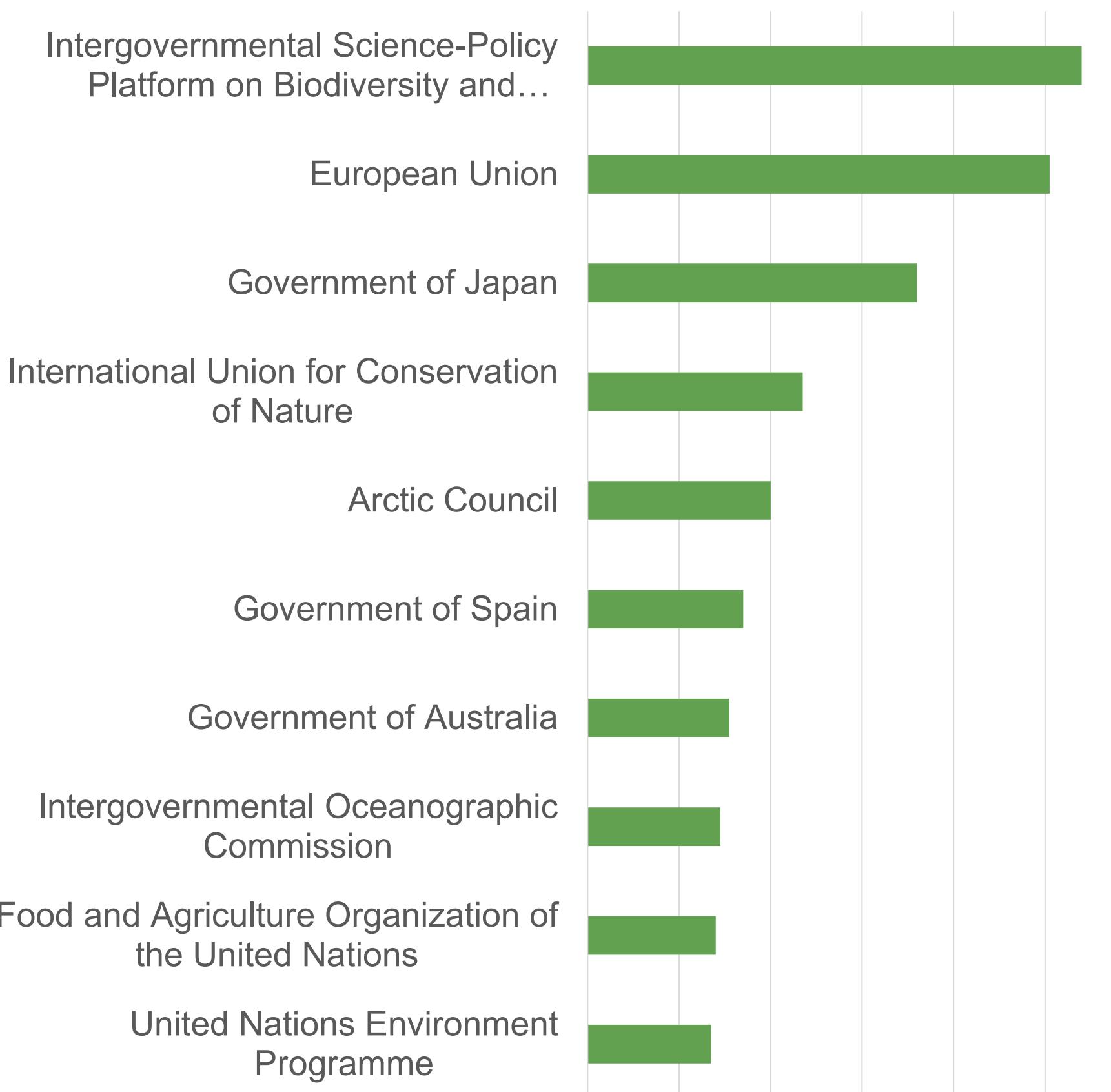
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~10 years of tracking data use and citations



- Manuscript in progress
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- Stay tuned!



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dschigel@gbif.org

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