



ITCER in GBIF: To become a publisher of occurrence data

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Expert Workshop on GBIF Data
Publication in Africa, 17.10.2024



GBIF network



By the numbers | 1 July 2024

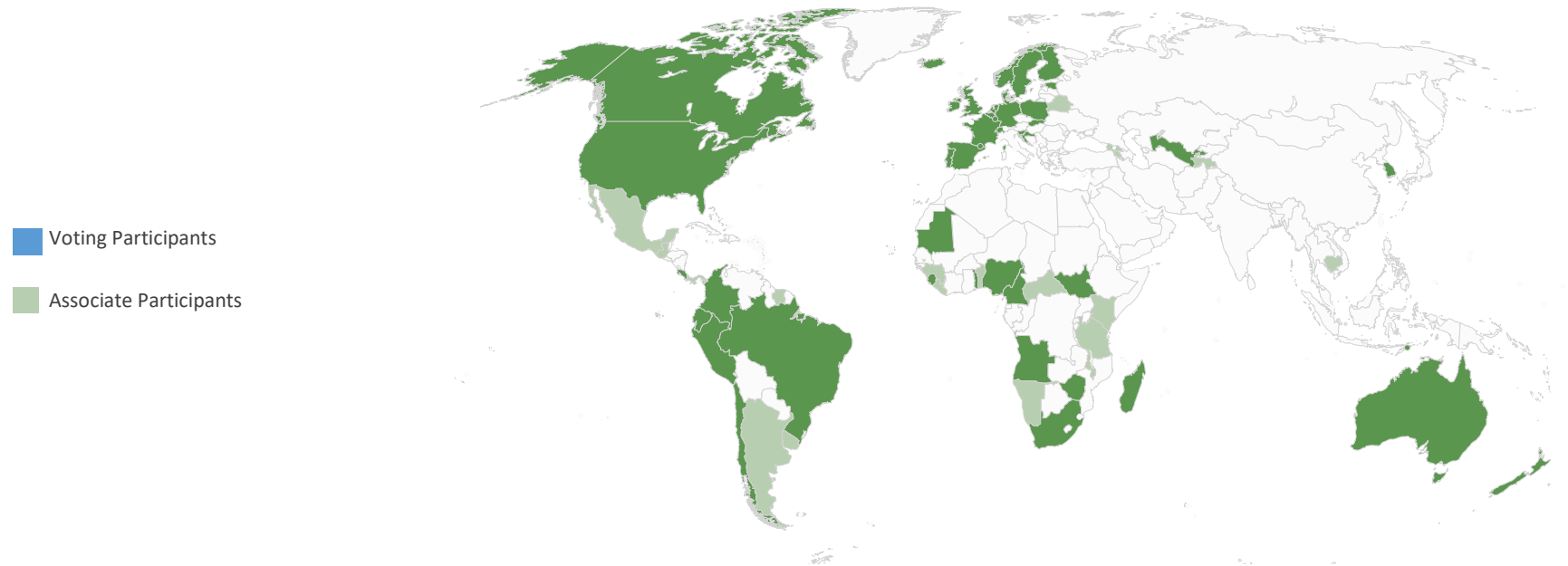
www.gbif.org

GBIF Participant countries: 142

1 July 2024

142

countries/areas with institutions
sharing data through GBIF



<https://www.gbif.org/the-gbif-network>

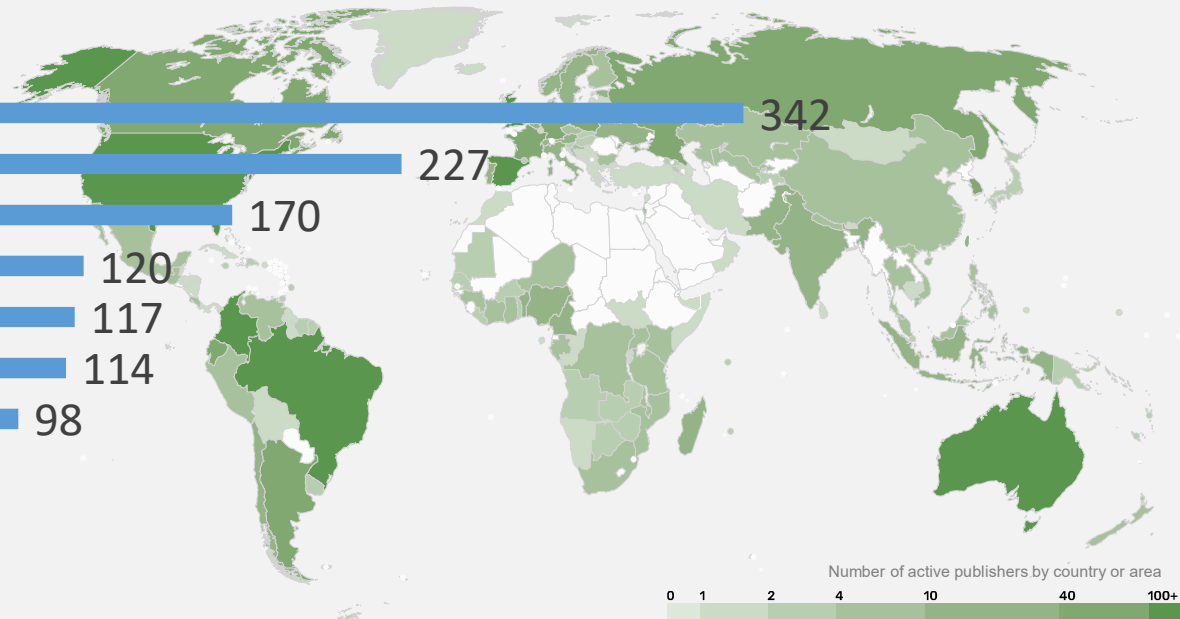
GBIF data publishing institutions: 2,249

1 July 2024

First 11 of 142

countries/areas with 2,249 institutions
sharing data through GBIF

United States	342
Colombia	227
United Kingdom	170
Australia	120
Spain	117
Brazil	114
Russian Federation	98
France	61
Ecuador	54
Canada	48
Netherlands	48



GBIF Network

Species occurrence records with multimedia evidence

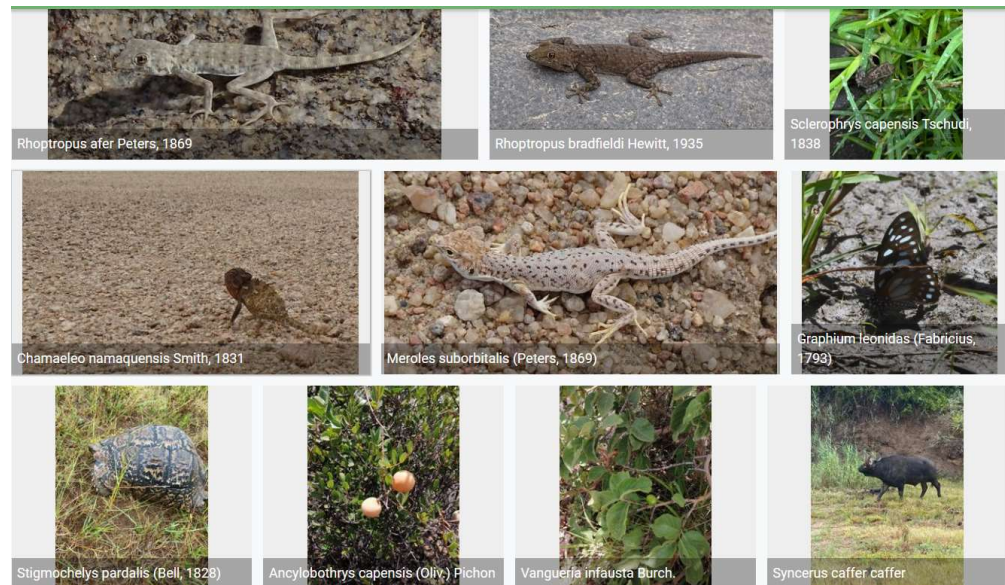
1 July 2024

180.7 million records with
taxonomically identified images

- 120.6 million human observations
- 55.0 million specimens
- 2.8 million material samples
- 1.4 million fossil specimens

1,420,991 audio files

10,418 videos



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

GBIF Network: www.gbif.org

- GBIF Secretariat, IT Network
- GBIF Participants, e.g. nodes of countries, e.g. of Kenya
- GBIF Data Publishers (organisations), e.g. ITCER
- GBIF Datasets with occurrence data records, e.g. ITCER Macrobiome dataset on site



ITCER in GBIF – a guideline



- To become a data publishing institution
 - Fulfill administrative endorsement criteria
 - Fulfill technical endorsement criteria (agreement with hosting centres or participant node organisation)
- After that: ready to publish one or more datasets
- Attention! No individuals can provide data for GBIF
- GBIF Data Publishers are organisations.



ITCER in GBIF – a guideline



- 5. **Data Publishing:** The process of and agreements for making data freely and universally available on the Internet.
- 6. **Data Publisher:** A custodian that makes data publicly available, whether or not they are the data owner. In cases where data publishers are not the data owners, they will have declared that they have permission to make the data available under terms of the GBIF [Data Publisher Agreement](#).

ITCER in GBIF –To become a data publishing institution



- Data management and publication infrastructure might be hosted by SNSB like for Komorov Bot. Inst. (ABCD/ BioCASE option with long-term preservation via DWB services)

The image shows two screenshots of the GBIF website. The top screenshot is a publisher page for the Komarov Botanical Institute, Russian Academy of Sciences, St. Petersburg, registered since April 27, 2016. It shows 90,222 occurrences, 39 datasets, and 370 citations. The bottom screenshot is a dataset page for 'The Myxomycetes Collection at the V. L. Komarov Botanical Institute, St. Petersburg', registered on June 19, 2007. It shows 12,828 occurrences and 66 citations. Annotations with orange arrows point to the 'PUBLISHER' label, the 'OCCURRENCE DATASET' label, and the 'Metadata last modified' date.

GBIF Publisher: Komarov Botanical Institute, Russian Academy of Sciences, St. Petersburg
Registered: SINCE APRIL 27, 2016
90,222 OCCURRENCES | 39 DATASETS | 370 CITATIONS

GBIF Dataset: The Myxomycetes Collection at the V. L. Komarov Botanical Institute, St. Petersburg
Registered: OCCURRENCE DATASET | REGISTERED JUNE 19, 2007
Published by Komarov Botanical Institute, Russian Academy of Sciences, St. Petersburg
12,828 OCCURRENCES | 66 CITATIONS

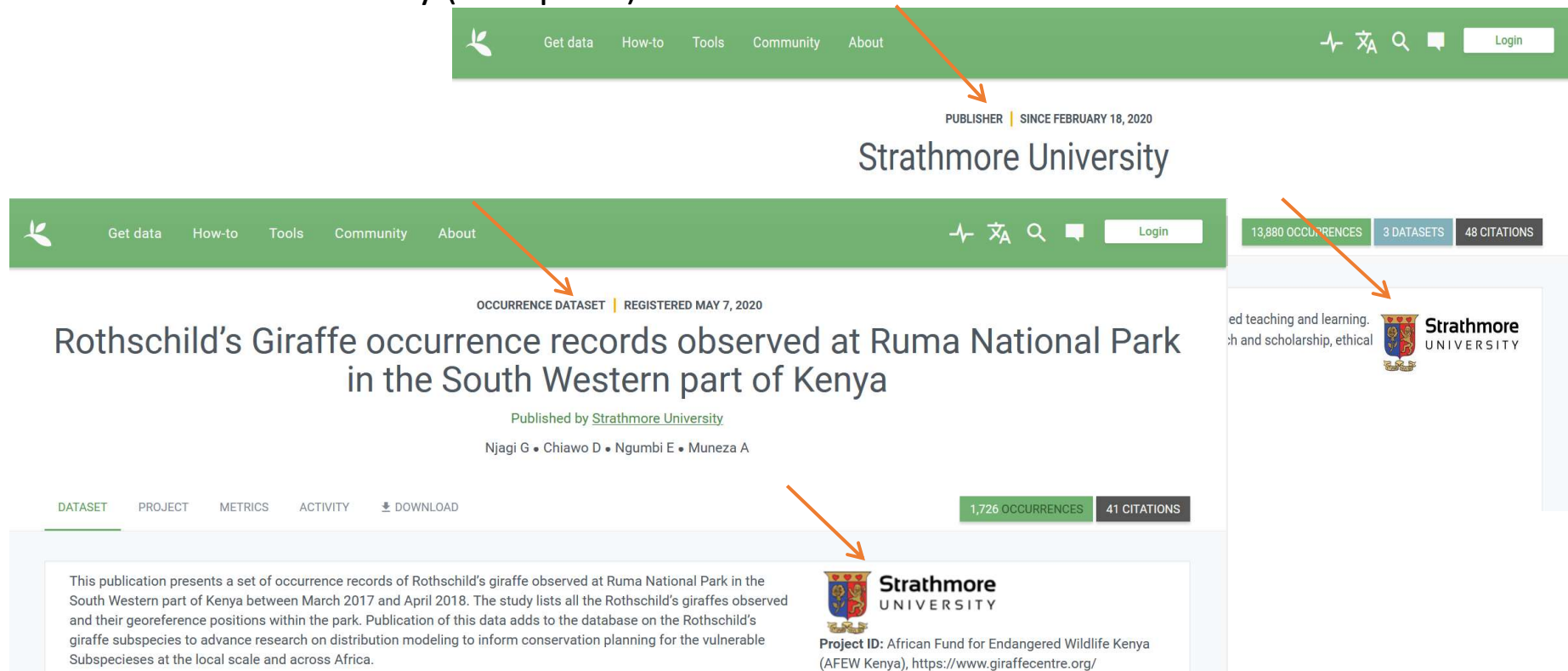
Metadata last modified: June 12, 2024
Hosted by: Staatliche Naturwissenschaftliche Sammlungen Bayerns
Licence: CC BY 4.0
How to cite | DOI: 10.15468/i83r9k

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ITCER in GBIF –To become a data publishing institution

- Data publication infrastructure might be hosted by National Museums of Kenya like for Strathmore University (IPT option)



The screenshot displays the GBIF website interface. At the top, a green navigation bar contains links for 'Get data', 'How-to', 'Tools', 'Community', and 'About', along with a search icon and a 'Login' button. Below this, the 'Strathmore University' profile is shown as a 'PUBLISHER' since February 18, 2020. A secondary green bar highlights the 'OCCURRENCE DATASET' registered on May 7, 2020. The dataset title is 'Rothschild's Giraffe occurrence records observed at Ruma National Park in the South Western part of Kenya', published by Strathmore University, with authors Njagi G, Chiawo D, Ngumbi E, and Muneza A. The dataset page shows 1,726 occurrences and 41 citations. A description of the dataset is provided, along with the Strathmore University logo and project ID information. On the right, a sidebar shows Strathmore University's overall statistics: 13,880 occurrences, 3 datasets, and 48 citations.

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- endorsed by GBIF Kenya (for both options: ABCD/ BioCAs and IPT)

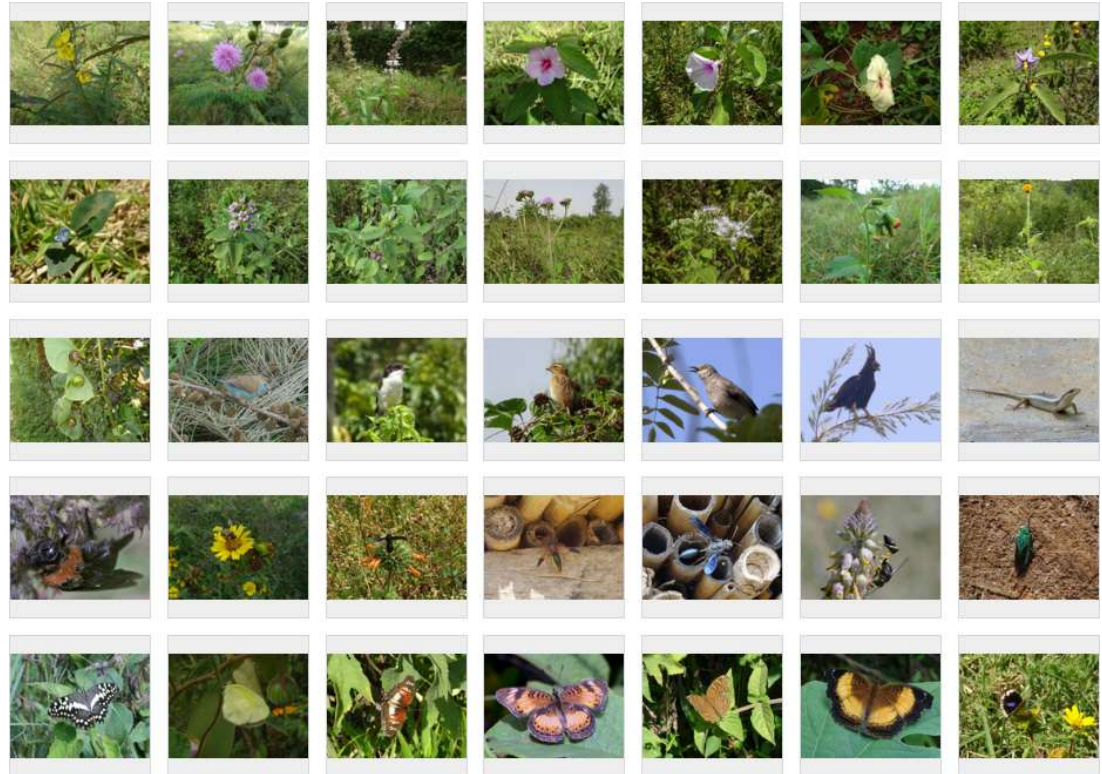
The screenshot displays the GBIF website interface. At the top, a green navigation bar contains links for 'Get data', 'How-to', 'Tools', 'Community', and 'About'. A search bar on the right shows the text 'triebel'. Below the navigation bar, the 'Publishers' section is active, showing a search for 'Kenya' with 8 results. One result is highlighted: 'Wangari Maathai Institute for Peace and Environmental Studies, University of Nairobi'. Below this, the 'Kenya' profile is shown, including the national flag and the text 'An associate participant from Africa'. The 'PARTICIPANT SUMMARY' section is expanded, showing details such as 'Member status: Associate', 'GBIF participant since: 2008', 'GBIF region: Africa', 'Head of delegation: Geoffrey Mwachala', 'Node name: GBIF Kenya', 'Website:', and 'Participant node manager: Lawrence Monda'. Two orange arrows point to the 'SEARCH PUBLISHERS' link and the 'Node name: GBIF Kenya' text.

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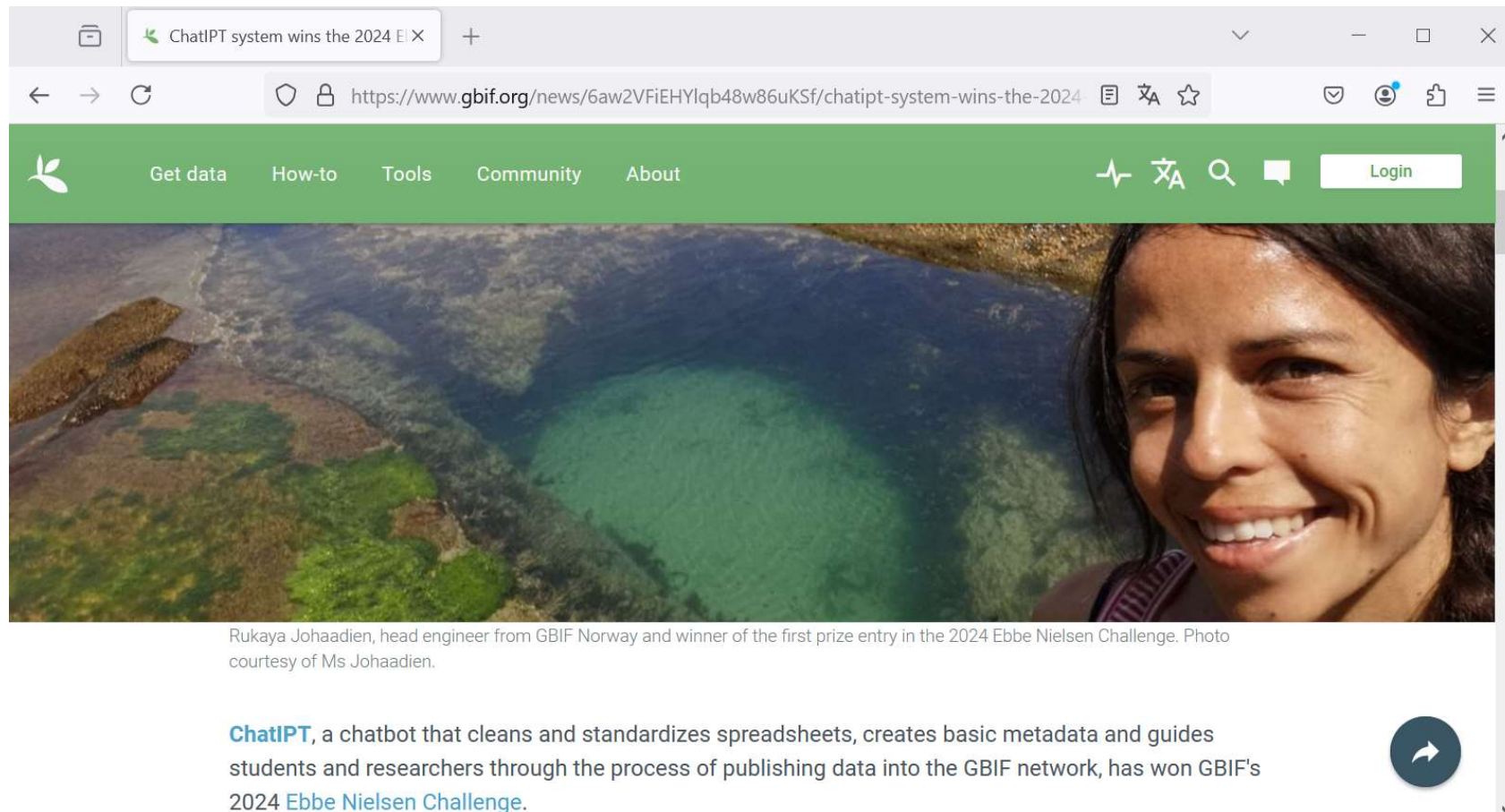


ITCER – GBIF occurrence dataset as a pilot

- Title, like „Photomonitoring of Macroorganisms occurring on ITCER site and their interactions”
- Scope, agents, licences
- Data pipelines
- Relation to GBF data paper
- *to be discussed in the afternoon*



ITCER Tools for GBIF dataflow?



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GBIF material linked under:

<http://www.snsb.info/SNSBwiki/Wiki.jsp?page=Expert-Workshop-on-GBIF-Data-Publication-in-Africa-2024>

Relevant GBIF Resources

[GBIF overview: PowerPoint slides↗](#)

[GBIF Africa Network↗](#)

[GBIF Participant Node Kenya↗](#)

[GBIF Kenya Activity Report 2023↗](#)

[GBIF Data Publisher Endorsement Guidelines↗](#) (with involvement of the GBIF Node Kenya)

[Become a GBIF Data Publisher↗](#) (to be accepted by ITCER, endorsed by the GBIF Node Kenya)

[GBIF data publisher agreement↗](#)

[Data Hosting Centres↗](#) (to be accepted by ITCER and SNSB - BioC)

[Agreement on GBIF Hosted Repository Service↗](#) (Repository Owner)

[Blog on Choose dataset class↗:](#)

- - [example for class occurrence data↗](#)
 - [example for class checklist data↗](#), see [data quality requirements↗](#)
 - [example for class sampling event data↗](#)

[Blog on GBIF Occurrence License Processing↗](#)

[Blog on Sharing images, sounds and videos on GBIF↗](#)

[GBIF occurrence dataset from Russia hosted by SNSB data publisher↗](#) as example

Thank you!

Screenshots and resources mentioned in the slides are cited under

<http://www.snsb.info/SNSBwiki/Wiki.jsp?page=Expert-Workshop-on-GBIF-Data-Publication-in-Africa-2024>