

## Kick starting the biodiversity data publication process for Tajikistan

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**Programme:** CESP

**Project ID:** CESP2022-001

**Project page:** <https://www.gbif.org/project/CESP2022-001/kick-starting-the-biodiversity-data-publication-process-for-tajikistan>

**Project lead organization:** Institute of Botany, Plant Physiology and Genetics, TNAS

**GBIF Participant Represented:** Tajikistan

**Project implementation period:** 1/8/2022 - 31/7/2023

**Report approved:** 15/3/2023

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### Narrative Midterm report

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#### Executive Summary

We got good achievements to data:

First of all we found our main partners from Norway GBIF Node, which is plays an important role in the implementation of this project. We found our local Institution and Universities which want to publish data in framework our project and in the future. We organized one personal workshop "Kick starting the biodiversity data publication process for Tajikistan" Republic of Tajikistan 26 – 28 September, 2022. Location: Tajikistan, Varzob district, Hoja Obi Garn, «SAROB». Target group: Specialists of TNAS, specialists and teachers and students of TNU, TPU and Khatlon Scientific Center TNAS in totaly we teach around 30 specialist from our local partiors. Mentors and specialists in the field creation data base, data management, scientific research from University of Oslo and GBIF Node manager for Uzbekistan. I always keep in touch with our partners helping them. I already visited also to monitor in place and set up for them scanner program and again show how to publish date in GBIF using IPT cloud for students biological faculty. Also we registered all our partners as a publisher organisations in GBIF. On the part of our partners from GBIF Norway, was created a step-by-step guide how to digitize and publish data in GBIF using <https://tajik.ipt.gbif.no/> I would like to say progress is going well for example IBPPG TNAS allredy published aroud 11100 Occurrence which was collected in BRAHMS bases our partners nowadays they are doing digitization of herbarium sheet hope on February they will start publish date.

<https://www.gbif.org/project/CESP2022-001>

ROR ID <https://ror.org/040em2e23> Q2036624 TNAS, <https://ror.org/015dapv07> Q2617399, TPU

<https://ror.org/04bccg972> Q1528756 TNU.

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### Report on Activities

#### Activity progress summary

During of period of first activity we found local Institution and Universities which has a specimen collection for publication like: Tajik National University, Tajik State Pedagogical University after named S. Aini, Khatlon Scientific Center of the National Academy of Sciences of Tajikistan, Kulob and Institute of Botany, Plant Physiology and Genetics, TNAS. All these organizations we registered as a publisher in the GBIF. Organizations has a ROR ID and Wikidata code. Increased awareness of the data publication process in Tajikistan, and data publication support capacity at the Tajik GBIF Node. We organized one workshop for students and teachers our local partners. We got assistance from GBIF Norway in conjunction with the data publisher and GBIF Tajikistan. During 3 days workshop which we invited mentors from GBIF Norway they read a lecture for our specialists which play good role for Capacity Enhancement Support for Tajikistan and Central Asia.

After workshop our partners stars to digitization herbarium specimens and nowadays they are continue this work. For example IBPPG TNAS already published around 11100 records which are available in the <https://tajik.ipt.gbif.no/>. Because, all this records was in a BRAHMS. With helping our Norway partners we took records and published it in GBIF. It is one of our good achievement.

The last activity which is about data publication our partners will finish on time process digitization and

will start publication in GBIF. Data will be visible on [gbif.org](https://gbif.org) and on <https://tajik.ipt.gbif.no>.

### Completed activities

#### **Activity name: Identifying and inventorying the organizations in Tajikistan that hold specimen collections A list of potential data publication partners and contact details**

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**Description:** All these institutions will be registered into GRSciColl and Wikidata

**Start Date - End Date:** 1/9/2022 - 20/9/2022

**Verification Sources:** <https://ror.org/040em2e23>

<https://ror.org/015dapv07>

<https://ror.org/04bccg972>

#### **Activity name: Engaging key regional organizations**

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**Description:** we organized 1 physical workshop/, with 27 participation from local students and teachers and also mentors from UiO

**Start Date - End Date:** 26/9/2022 - 28/9/2022

**Verification Sources:** <https://www.gbif.org/event/1779ab-45e1-47ac-a892-0614aa8/kick-starting-the-biodiversity-data-publication-process-for-tajikistan>

#### **Activity name: Digitization of legacy biodiversity datasets in Tajikistan**

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**Description:** A digitization workflow. We already setup for technical equipment scanner for specimen imaging the scanner was gift from Natural History Museum - UiO. We created around 12000 QR codes for identification herbarium specimens and printed it like sticker for all our local partners. IBPPG TNAS published 1100 records in GBIF already.

**Start Date - End Date:** 3/10/2022 - 30/12/2022

**Verification Sources:** <https://tajik.ipt.gbif.no/resource?r=tnas-brahms>

### Report on Deliverables

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#### Deliverables progress summary

On September 26-28, 2022, workshop "Kick starting the biodiversity data publication process for Tajikistan" was held at the SAROB, the Khoja Obi Garm recreation area of the Varzob region of the Republic of Tajikistan. The event was organized by the Institute of Botany, Plant Physiology and Genetics, National Academy of Sciences of Tajikistan in the framework of the Capacity Enhancement Support Programme (CESP 2022-001) which enables collaboration between GBIF, with financial support from the GBIF secretariat.

The seminar was opened by the Director of IBPPG TNAS Dr. Bobozoda B.B. and Project manager Barotov. S.S.

This workshop is being conducted as part of a project to raise awareness and education in the area of data publication. The aim of the project is capacity development at the Tajik node on data publication and GBIF node management routines will enable the Tajik node to operate in accordance with GBIF guidelines for an efficient GBIF node and take efficient part in the GBIF Nodes community.

The participants to the workshop were

- teachers at IBPPG TNAS, Tajik National University; Tajik State Pedagogical University named after S. Aini and Khatlon Scientific Center of the National Academy of Sciences of Tajikistan, Kulob, working in the field of botany and creation data base.
- Mentors and specialists in the field creation data base, data management, scientific research from University of Oslo.
- GBIF Node manager for Uzbekistan.

As a result of the workshop: participants learned how to generate QR codes, UUIDs and includes a practical demonstration, GRSciColl – the registry of scientific collections, scanner demonstration, how to use the image uploaded and how specimens appear on the GBIF testing website, data standards and DwC, basics of what the IPT does and how it fits into the workflow, how to log into the IPT and how to edit and save metadata, Data cleaning examples and tips and Data publication in GBIF.

The participants and project manager would like to express gratitude to CEPS GBIF Norway for help in organizing and facilitating the workshop.

About publication as we mentioned IBPPG TNAS already published 11100 records which is available [gbif.org](https://gbif.org) and on <https://tajik.ipt.gbif.no>.

### Completed deliverables

**Title:** Workshop in Tajikistan, 26 - 28 September workshop in the LLC «Sanatorium Sarob» Republic of Tajikistan Varzob district Khoja-obigarm 54 km fare from Dushanbe.

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**Type:** Training Workshop

**Description:** 26 - 28 September a training workshop on digitization, combined with a training workshop on data publication. 27 participates from TNU, IBPPG TNAS, TPU and TNAS - Khatlon Scientific Center, Kulob the result of workshop were published in official website IBPPG TNAS and social media tweets.

**Sources of verification:** <https://ibfgr.tj/en/seminar-training-gbif-september-26-28-2022/news/>

**Title:** GBIF data publication

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**Type:** Resources

**Description:** IBPPG TNAS published 10 000 data records already. Which were in the BRAHMS database for the Herbarium at the Institute of Botany, Plant Physiology and Genetics, National Academy of Sciences of Tajikistan

**Sources of verification:** <https://tajik.ipt.gbif.no/resource?r=tnas-brahms>

**Title:** Tajikistan specimen collections inventory

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**Type:** Regional Event

**Description:** We identified and inventorying the organizations in Tajikistan that hold specimen collections like TNU, TPU, TNAS - Khatlon Scientific Center, Kulob and IBPPG TNAS. But we have another Institution and Universities which have a good collection.

**Sources of verification:** <https://tajik.ipt.gbif.no/>

## Events

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### Workshop

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**Dates:** 2022-09-26 - 2022-09-28

**Organizing institution:** Institute of Botany, Plant Physiology and Genetics, National Academy of Sciences of Tajikistan

**Country:** Tajikistan

**Number of participants:** 27

**Comments:** Training workshop "Kick starting the biodiversity data publication process for Tajikistan" was held at the SAROB, the Khoja Obi Garm recreation area of the Varzob region of the Republic of Tajikistan.

**Website or sources of verification:** <https://ibfgr.tj/en/seminar-training-gbif-september-26-28-2022/news/>

## Communications and visibility

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All the communication and results of our project are being, and will be shared with the project stakeholders and broader GBIF community for local by our official website of our Institution in 3 language Tajiki, Russian and English <https://ibfgr.tj/en/seminar-training-gbif-september-26-28-2022/news/> also we have our project page in <https://www.gbif.org/project/CESP2022-001/kick-starting-the-biodiversity-data-publication-process-for-tajikistan#news>. About our partners they are also share information by using official website and social media Facebook, Twitter etc.

## Monitoring and evaluation

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### Monitoring and evaluation findings

During the reporting period, we organized several virtual meetings about the evaluation and monitoring of the project with our foreign partners. About evaluation and monitoring local organization I personally visited to the Universities. During my 3h lecture, I explained for teachers and students 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. The weaknesses that is it new direction for our young generation by helping capacity building Node manager we can solve this problem us for future specialist.

We got a lot of support from GBIF Secretariat and GBIF Node Manager Norway. Areas of success to build on during the remaining project implementation period are publication in GBIF records our partners. And in the future data publication in GBIF.

## Impact of COVID-19 pandemic on project implementation

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The COVID-19 pandemic did not affect the implementation of the project, since Tajikistan removed

almost all restrictions except for the mandatory PCR test upon arrival.

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