

GBIF in Central Asia: new aspects of development

Programme: CESP

Project ID: CESP2023-007

Project page: <https://www.gbif.org/project/CESP2023-007/gbif-in-central-asia-new-aspects-of-development>

Project lead organization: Institute of Botany of the Academy of Science of the Republic of Uzbekistan

GBIF Participant Represented: Uzbekistan

Project implementation period: 1/10/2023 - 30/9/2024

Report approved: 6/5/2024

Declaration: The information provided in this report has been provided by and is the responsibility of the project lead.

Narrative Midterm report

Executive Summary

As an integral part of this project, Uzbekistan IPT was established on September 29, 2023, to publish local information aimed at strengthening the infrastructure of GBIF nodes in Uzbekistan. As part of the huge digitization program, 7190 records from the National Herbarium of Uzbekistan (TASH) were digitized and published. We had planned to hold capacity-building workshops on digitization techniques, data publishing and data cleaning, but due to inclement weather, the workshop was postponed to April 22–24, 2024.

Report on Activities

Activity progress summary

We had planned to hold one physical workshop or conference with optional digital participation, but this workshop has been postponed to April 22-24, 2024 due to lack of availability of workshop participants. Because of this, the translation of useful documents into Tajik, Uzbek, and Russian is delayed.

In Uzbekistan, the digitization of biodiversity heritage datasets and the publication of GBIF data have begun, and so far 7190 records have been uploaded to GBIF through the Uzbekistan IPT.

Completed activities

Activity name: Identifying and inventorying the organizations in Uzbekistan that hold specimen collections

Description: A list of potential data publication partners and contact details

Start Date - End Date: 1/10/2023 - 3/11/2023

Verification Sources: <https://scientific-collections.gbif.org/institution/88fb8288-ea03-4e27-9ee0-356fff1a68c1>

<https://scientific-collections.gbif.org/institution/148dc353-e24f-4d20-a8cd-551ca175a49d>

Activity name: Engaging key regional organizations

Description: We plan one physical workshop or conference with optional digital participation.

Start Date - End Date: 22/4/2024 - 24/4/2024

Verification Sources: <https://botany.uz/en/2024/04/22/markaziy-osiyoda-global-bioxilma-xillikning-axborot-portali-gbif-rivojlanishning-yangi-aspektlari/>

<https://botany.uz/en/2024/04/15/yevropaning-global-bioxilma-xillikning-axborot-portali-gbif-markaziy-kotibiyati-hamda-earthcape-tashkiloti-hamda-tojikiston-respublikasidan-bir-guruh-olimlarining-botanika-institut/>

Report on Deliverables

Deliverables progress summary

We published approximately 4216 collection specimens of plants that belong to the Herbarium of Namangan State University, the Herbarium of Bukhara State University, the Herbarium of the National University of Uzbekistan, and the Herbarium of the Institute of Botany, Academy of Science of Uzbekistan. In addition, there are 130 new deliverables from Samarkand State University. However, the data publishing process has started for approximately 300,000 already digitized specimens, which are currently in an Excel database, and some of these records have been georeferenced. There are delays due to the lack of experts with uploading skills, but the process will speed up after the workshop. Impact: increased coverage of important biodiversity information for a region with limited published data. It will be published within the project's deadline.

The presentations and material for the workshop have been translated, shared with the participants and made publicly available on Google Drive. The Tajik participants successfully completed the workshop and have access for data publication to the Tajik IPT.

Completed deliverables

Title: Herbarium of Institute of Botany, Academy of Science of Uzbekistan

Type: Dataset

Description: Data publication of 1001 collection specimens for *Gagea Salib.*

DOI: <https://doi.org/10.15468/tsryfw>

Title: Herbarium of Institute of Botany, Academy of Science of Uzbekistan

Type: Dataset

Description: Data publication of 401 collection specimens for *Parrya R. Br.*

DOI: <https://doi.org/10.15468/6kfxuc>

Title: Herbarium of Institute of Botany, Academy of Science of Uzbekistan

Type: Dataset

Description: Data publication of approximately 331 collection specimens for type of plants: *Lagochilus Bunge ex Benth.* – 103; *Phlomis L.* – 102; *Moluccella L.* – 32; *Ferula L.* – 30; *Colchicum (Tourn.) L.* – 21; *Eremogone Fenzl* –20, *Parrya R. Br.* - 23.

DOI: <https://doi.org/10.15468/taasmp>

Title: Herbarium of Institute of Botany, Academy of Science of Uzbekistan

Type: Dataset

Description: Data publication of 414 collection specimens for *Elymus L.*

DOI: <https://doi.org/10.15468/y5b8hu>

Title: Herbarium of National University of Uzbekistan

Type: Dataset

Description: Data publication of 299 collection specimens for type of plants: *Cousinia*-200; *Stipagrostis pennata*-11; *Stipagrostis karelinii* - 9; *Fritillaria karelinii*-41; *Eremosparton aphyllum*-20; *Ammodendron conollyi*-6; *Convolvulus erinaceus*-10; *Artemisia*-2.

DOI: <https://doi.org/10.15468/f48fsj>

Title: Herbarium of National University of Uzbekistan

Type: Dataset

Description: Data publication of 72 collection specimens for type of plants: *Stipagrostis pennata* (Trin.) de Winter - 9; *Stipagrostis karelinii* - 11; *Eremosparton aphyllum* (Pall.) Fisch. et C. A. Mey - 10; *Ammodendron conollyi* Bunge ex Boiss.- 14; *Convolvulus erinaceus* Ledeb-10; *Artemisia diffusa*-18.

DOI: <https://doi.org/10.15468/zjv8df>

Title: Herbarium of Namangan State University

Type: Dataset

Description: 1379 specimens: *Phlomoide*s–630; *Dorema*-165; *Astragalus*, *Tulipa*-60; *Ziziphora*-50; *Allium*–45; *Caroxylon*-41; *Zygophyllum*-40; *Anabasis*-34; *Iris*-30; *Artemisia*-28; *Delphinium*-25; *Echinops*, *Lamyropappus*, *Acanthophyllum*-20; *Alyssum*, *Convolvulus*, *Fritillaria*, *Achillea*-15; *Limonium*-17; *Anemone*-13; *Ephedra*-10

DOI: <https://doi.org/10.15468/wdg759>

Type: Dataset

Description: Data publication of 310 collection specimens for type of plants: Cousinia-19; Lactuca-17; Caroxylon-16; Artemisia, Amaranthus-15; Bassia-13; Atriplex, Centaurea, Salsola-12; Scorzonera-11; Chenopodium, Climacoptera, Halimocnemis, Erigeron, Taraxacum, Xanthium, Sonchus-10; Suaeda-22; Astragalus-63.

DOI: <https://doi.org/10.15468/pj86q8>

Events

Workshop in Yangiobod

Dates: 2024-04-22 - 2024-04-24

Organizing institution: Institute of Botany of the Academy of Sciences of the Republic of Uzbekistan

Country: Uzbekistan

Number of participants: 30

Comments: <https://botany.uz/en/2024/04/15/yevropaning-global-bioxilma-xillikning-axborot-portali-gbif-markaziy-kotibiyati-hamda-earthcape-tashkiloti-hamda-tojikiston-respublikasidan-bir-guruh-olimlarining-botanika-institut/>

Website or sources of verification: <https://botany.uz/en/2024/04/22/markaziy-osiyoda-global-bioxilma-xillikning-axborot-portali-gbif-rivojlanishning-yangi-aspektlari/>

Communications and visibility

The workshop has been organized but will be held on April 22–24, 2024, after the midterm report deadline. After the workshop, we will publish publications on the Web sites of the hosting institutions in Uzbekistan and Tajikistan about how the workshop was held and its achievements, and we will open official social channels like Facebook, Twitter, etc. for both Uzbek and Tajik in order to advertise during conversations during coffee breaks and send by email materials for the workshop in three languages: Uzbek, Tajik, and Russian. We are tweeting from the workshop (currently ongoing), see report attachment.

Monitoring and evaluation

Monitoring and evaluation findings

In Uzbekistan, the digitization of biodiversity heritage datasets and the publication of GBIF data have begun, and so far 7190 records have been uploaded to GBIF through the Uzbekistan IPT, 4216 of them belong to deliverables of the Herbarium of Namangan State University, the Herbarium of Bukhara State University, the Herbarium of the National University of Uzbekistan, and the Herbarium of the Institute of Botany, Academy of Science of Uzbekistan.

We had planned to hold one physical workshop or conference with optional digital participation, but this workshop has been postponed to April 22-24, 2024 due to lack of availability of workshop participants. It is currently in progress at the time of this report submittal.

The project implementation has been effective, the workshop is well run and well organised and the participants were engaged. Of particular significance is the signing of a Memorandum of Understanding for Uzbekistan to become a voting member of GBIF during the workshop. The ties between Tajikistan and Uzbekistan have been strengthened, and the networking opportunities in the workshop have allowed us to formulate plans to spearhead the GBIF data publication movement throughout central Asia, incorporating our neighbouring countries in the future.

The workshop was condensed slightly in order to accommodate the transport requirements of the Tajik delegation - flights between Tashkent and Dushanbe are somewhat irregular.

The digitisation of images of specimens will be continued after the workshop, and has also been made available to the Tajik participants.

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