

Enhancing accessibility of forest flora data in Tanzania

Programme:BID

Project ID: BID-AF2020-038-INS

Project lead organization:Tanzania Forestry Research Institute

Project implementation period:1/4/2021 - 30/3/2023

Report approved: 31/5/2023

Final Narrative Report

Executive Summary

With support from GBIF, the project managed to digitize 23,806 (four data sets) preserved specimens and upload the data to GBIF data portal. In addition to that, herbarium staffs were trained received 5 days training on how to carryout specimen digitization, curation and data labelling.

Progress against milestones

Has your project completed all planned activities?: Yes

Has your project produced all deliverables: Yes

Report on Activities

Summary of the implementation of the project activities

All planned activities have been implemented. However, for the last activity, the project team is still working on the Manuscripts to ensure all comments from the reviewers and journal editor are addressed.

We are optimistic that, Manuscript revision and re-submission will be completed by the end of May.

Completed activities

Activity: Herbarium staff capacity building

Description: Three TAFORI herbarium staff were trained on various aspects of digital Herbarium. Including imparting them with a theoretical knowledge on how to develop, maintain, update and use digital Herbarium. In addition, practical aspects on how to handle and assemble equipment for implementing digitization was facilitated.

Start Date - End Date: 5/7/2021 - 28/5/2021

Verification Sources: Capacity building report attached.

Activity: Pre-digitization, specimen curation and staging

Description: Organizing all specimens in the cabinets using updated taxonomy and nomenclature. Also, inspecting the conditions of all specimens for damage and the loosened.

Start Date - End Date: 2/8/2021 - 30/1/2023

Verification Sources: Data organized and mobilized at the herbarium

Activity: Databasing and setting-up of Integrated Publishing toolkit (IPT)

Description: Data entry, cleaning and formatting using Darwin Core formats and uploading to IPT

Start Date - End Date: 1/9/2021 - 28/2/2023

Verification Sources: Published datasets.

Activity: Data processing, uploading and publishing using IPT into TanBIF/GBIF portal

Description: Metadata of each specimen formatted into Darwin Core archive format. The data were uploaded into the created database and published into GBIF/TanBIF portal as occurrence records using integrated publishing toolkit.

Start Date - End Date: 1/11/2021 - 28/2/2023

Verification Sources: Published data sets

<https://doi.org/10.15468/sktqsa>

<https://doi.org/10.15468/hfygvj>

<https://doi.org/10.15468/urxwjg>

<https://doi.org/10.15468/gsp6vf>

Activity: Herbaria coordination and Data Access workshop

Description: Herbaria data users identified and trained on how to access herbaria data from newly created database.

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

Verification Sources: Training Report

Activity: Journal article preparation

Description: Manuscript prepared and submitted to Biodiversity Data Journal

Start Date - End Date: 31/3/2023 - 30/4/2023

Verification Sources: Submitted Manuscript

Report on Deliverables

Deliverables - Summary

All planned project deliverables have been attained.

Deliverables produced by the project

Dataset deliverables

Dataset

Dataset type: Occurrences

Dataset scope: Datasets gather 23,806 specimens, belonging to more than 5000 plant species from five different plant groups i.e. Angiosperms, Gymnosperms, Pteridophytes and Bryophytes which are deposited at Tanzania Forestry Research Institute (TAFORI) herbarium.

Number of records: 23,806

Data holder: Tanzania Forestry Research Institute

Data host institution: Tanzania Forestry Research Institute

% complete: 100%

Status update: Updated

DOI: <https://doi.org/10.15468/sktqsa>, <https://doi.org/10.15468/hfygvj>, <https://doi.org/10.15468/urxwjq>, <https://doi.org/10.15468/gsp6vf>

Expected date of publication:

Other deliverables

Herbarium staff capacity building

Description: Training TAFORI herbarium staff on data handling, digital herbarium and data curation

% complete: 100%

Status update: Done

Sources of verification: Training report

Publication preparation

Description: Data paper prepared and submitted.

% complete: 60%

Status update: Revising the MS

Sources of verification: Draft manuscript attached

Communications and visibility

The results have been shared through Training, datasets publishing and Meta data papers.

Monitoring and evaluation

Final Evaluation

Project team and TAFORI management is thankful to GBIF for the financial support which enabled implementation of this project. In addition, successful implementation of this project would not be possible

without technical expertise and guidance from GBIF secretariat and BID regional coordinator.

Best Practices and Lessons learned

The courses and training offered during implementation of the project were very useful in project implementation and utilization of GBIF data.

Post Project activities

Updating status of various IUCN red listed species in Tanzania using data published from this project and other GBIF data published by other data holders.

Sustainability

Sustainability Plans

Tanzania Forestry Research Institute is collaborating with other project partners to identify other data holders and facilitate data mobilization, digitization and publication.

Impact of COVID-19 pandemic on project implementation

NA

GBIF leads the Biodiversity Information for Development (BID), a programme funded by the European Union. The programme provides supplementary support for activities addressing the needs of regional researchers and policymakers through mobilization and use of biodiversity data.

