

Implementation of the Biodiversity Information and data System for Coastal Ecosystems in Nigeria

Programme:BID

Project ID: BID-AF2020-022-NAC

Project lead organization:Center for Biodiversity Conservation and Ecosystem Management, University of Lagos

Project implementation period:5/4/2021 - 31/3/2023

Report approved: 1/3/2022

Narrative Midterm report

Executive Summary

Following the award of the BID grant, the project began with a kick off meeting of project partners, this was held virtually. The project implementation plan was discussed and modalities for the successful implementation of the project were outlined. Two members of the project team (Dr. T.O. Onuminya and A.C. Iloh) were selected to participate in the training sessions organized by GBIF. Thereafter, personnel were employed and trained to assist in the data mobilization activities while Microsoft Excel package was adopted for data management. Thus far, a total of 5,000 specimen data records have been mobilized, some have been published while others are being cleaned. A 3-day capacity building workshop was held in blended mode featuring a total of 158 participants from institutions across the 6 geopolitical zones of the country as well as the NgBIFnetwork, GBIF support person and the AFROBIS node manager. A call for participations and partnership was made and this was followed by evaluation of the workshop by participants and completion of the self assessment form. Proceedings of the meeting was shared on the University of Lagos website and other news publishing outlets. Also, for proper monitoring of the project, meetings of partners were held regularly either through WhatsApp or Zoom. It is expected that access to published data will foster the development of management interventions and contribute to developing national conservation priorities.

Progress against milestones

Has your project published at least one dataset through GBIF.org?: Yes

Dataset published:

Dataset	DOI
Herbarium specimens held at the University of Calabar, Cross River State, Nigeria	http://ipt-nigeria.gbif.fr/resource?r=pes_herbarium_specimens&v=1.1
PHYTOPLANKTON COMPOSITION OF LAGOS, EPE AND LEKKI LAGOON	http://ipt-nigeria.gbif.fr/resource?r=checklist_of_phytoplankton_in_epe_lagoon&v=1.1

Has at least one member of your project team received certification following the BID capacity enhancement workshop?: Yes

Name of the workshop participant:Dr. Temitope Onuminya

Certification obtained: Basic Badge

Report on Activities

Activity progress summary

Project Kick-off meeting was held in May 2021 where partners and other stakeholders met and agreed on modalities useful for achieving the set goals for the project. Following the inception meeting, partners agreed to adopt the Microsoft excel package as **data management system** for cataloguing of specimen data for easy access, sorting and management. **Data Mobilization** activities began thereafter with visit to museums and herbaria within the region for possible data capture and imaging. This is still on-going.

Capacity building workshop was held in December 2022 relationships were established with representatives from the various participating institutions at the workshop. Participants capacity was strengthened to develop data sharing framework and mobilize biodiversity data for publication to GBIF and AFROBIS sites. The success of the workshop was evaluated by participants and they completed the self assessment forms. Progress made in the project generally is **evaluated and monitored** through regular meeting via WhatsApp or Zoom where updates are given on the progress of the project.

Imaging of specimen is yet to start due to delay in the purchase of the scanner. We are however exploring other options with the suppliers and hope to begin this soon. The first set of data has been **published** and we hope to continue this in earnest until the stipulated timeline in the project plan.

All other activities listed in the plan are scheduled to take place later in the year as planned.

Completed activities

Activity: Kick-off Meeting

Description: meeting with Collaborating partners on agreements on data sharing and exchange

Start Date - End Date: 25/5/2021 - 26/1/2022

Verification Sources: Attendance list and minutes are attached.

Activity: Development of workflows for Data collection

Description: training of collaborative institutions on data handling and processing

Start Date - End Date: 26/1/2022 - 26/1/2022

Verification Sources: Minutes of the meeting

Activity: Capacity Building

Description: Hands on training in data cleaning and mapping techniques, Taxonomy; Geographic and time Checks

Start Date - End Date: 13/12/2021 - 15/12/2021

Verification Sources: See attachments and the links below:

<https://unilag.edu.ng/?p=11380>

<https://unilag.edu.ng/?p=11458>

LinkedIn: https://www.linkedin.com/posts/university-of-lagos_gbif-bid-team-holds-3-day-workshop-dec-13-activity-6874765364941615104-509D

Facebook: <https://www.facebook.com/1850514788525976/posts/3127953327448776/>

Google: <https://local.google.com/place?id=8306873736164007940&use=posts&lpsid=8690432730570969882>

Report on Deliverables

Deliverables progress summary

A total of two datasets have been published (Occurrence data including 101 records and Checklist data comprising 221 records).

The Informatics portal/clearing house is under development while all the other stated deliverables will be accomplished towards the end of the project when all data has been fully mobilized.

Progress towards deliverables

Dataset deliverables

PHYTOPLANKTON COMPOSITION OF LAGOS, EPE AND LEKKI LAGOON

Dataset type: Checklist

Dataset scope: Lower plants (Phytoplankton of Epe Lagoon)

Number of records: 220

Data holder: University of Lagos

Data host institution: University of Lagos

% complete: 100%

Status update: Published

DOI: http://ipt-nigeria.gbif.fr/resource?r=checklist_of_phytoplankton_in_epe_lagoon&v=1.0

Expected date of publication:

Herbarium specimens held at the University of Calabar, Cross River State, Nigeria

Dataset type: Occurrences

Dataset scope: Preserved specimen data of the University of Calabar Herbarium

Number of records: 100

Data holder: University of Calabar

Data host institution: University of Lagos

% complete: 100%

Status update: Dataset has been published

DOI: http://ipt-nigeria.gbif.fr/resource?r=pes_herbarium_specimens&v=1.0

Expected date of publication:

Checklist of coastal plant species

Dataset type: Checklist

Dataset scope: coastal plant species

Number of records: 20,000

Data holder: University of Lagos, Calabar, Benin, Niger Delta, Delta state

Data host institution: University of Lagos

% complete: 30%

Status update: Data is currently being cleaned.

DOI:

Expected date of publication: 2022-03-31

Checklist of Fungi in Nigerian coastal ecosystems

Dataset type: Checklist

Dataset scope: micro and macro fungi

Number of records: 6,000

Data holder: UNILAG, LASU, UNIBEN, DELSU, UNIPORT, NDU, UNICAL

Data host institution: University of Lagos

% complete: 20%

Status update: Data mobilization is still ongoing.

DOI:

Expected date of publication: 2022-05-31

Checklist of Animals in the Nigerian Coastal Ecosystems

Dataset type: Checklist

Dataset scope: Crustaceans, Fishes, Amphibians

Number of records: 5,000

Data holder: UNILAG, UNICAL, LASU, NDU

Data host institution: University of Lagos

% complete: 25%

Status update: Data mobilization is still ongoing.

DOI:

Expected date of publication: 2022-04-20

Plant Occurrence data

Dataset type: Occurrences

Dataset scope: Coastal plant species

Number of records: 20,000

Data holder: UNILAG, UNICAL, UNIBEN, NDU, UNIPORT, UI, LASU, DELSU

Data host institution: University of Lagos

% complete: 10%

Status update: Data mobilization is ongoing

DOI:

Expected date of publication: 2022-08-31

Fungi occurrence data

Dataset type: Occurrences

Dataset scope: Macro and micro fungi species

Number of records: 6,000

Data holder: UNILAG, UNICAL, LASU, UI, DELSU, UNIPORT, NDU

Data host institution: University of Lagos

% complete: 5%

Status update: Data mobilization is still ongoing

DOI:

Expected date of publication: 2022-10-31

Animal Occurrence data

Dataset type: Occurrences

Dataset scope: Microorganisms and Animal species of Nigeria Coastal Ecosystems

Number of records: 5,000

Data holder: UNILAG, UNICAL, LASU, UNIBEN, DELSU, NDU, UI

Data host institution: University of Lagos

% complete: 5%

Status update: Cleaning of the mobilized data and further mobilization activities is ongoing

DOI:

Expected date of publication: 2022-12-23

Other deliverables

Manuscript Publication

Description: Peer reviewed publication of project results in high impact and reputable open access journal.

% complete: 0%

Status update: No publication has been made yet

Sources of verification: N/A

Publicity of project results

Description: Ministerial Press briefing on the Level of National Biodiversity Informatics Action Plan for The Nigerian Coastal Environment

% complete: 0%

Status update: This will be done towards the end of the project

Sources of verification: N/A

Implementation of Conservation policies for coastal areas

Description: Facilitation of an Inter-Ministerial meeting between Project partners, the Federal Ministry of Science and Technology and The Federal Ministry of Environment on the use of existing data published

% complete: 0%

Status update: This would be done towards the end of the project

Sources of verification: N/A

Environmental information system up-grade

Description: Update on the Red List Index, Living Planet Index, Protected Area Overlays with Biodiversity is available

% complete: 0%

Status update: This is scheduled to be done towards the end of the project

Sources of verification: N/A

Access to quality specimen data

Description: Specimen Data are prepared for Taxonomy; Geographic and time Checks, data handling and processing through the Nigerian Informatics Pipeline adapted from the Darwin Core standard uploaded in the Central Nigerian Informatics Portal

% complete: 10%

Status update: The portal is under development

Sources of verification: N/A

Data Assessment

Description: Establishment of a National Informatics clearing house

% complete: 10%

Status update: This is under development.

Sources of verification: N/A

Increased Capacity of broader scientific community

Description: Provide training in biodiversity informatics while also publicizing data resource and exportable model of data mobilization.

% complete: 100%

Status update: The training has been done and available useful resources shared with participants.

Sources of verification: <https://unilag.edu.ng/?p=11458>

Events

A 3-day Capacity Workshop on Digitization of Coastal Biodiversity in Nigeria

Dates: 2021-12-13 - 2021-12-15

Organizing institution: University of Lagos

Country: Nigeria

Number of participants: 150

Comments: Other verification means are attached.

Website or sources of verification: <https://unilag.edu.ng/?p=11458>

Communications and visibility

Results from the project are being communicated through the university website and other news publishing outlets. Other means of communication will include conferences, scientific publications and press release/ministerial briefings.

Monitoring and evaluation

Monitoring and evaluation findings

The GBIF support personnel assigned to the project has been quite helpful in providing necessary assistance as at when due. The project team had regular quarterly meetings in July, Oct and Jan as planned. In view of this, we were able to monitor progress on achievement of various timelines and challenges encountered were promptly attended to. Self study forms were completed and this has provided insights into the various areas of support needed by the project partners and collaborators. Samples of these are attached.

Impact of COVID-19 pandemic on project implementation

The main impact experienced is increase in prices of certain items leading to variation but this didn't lead to any major changes to the project plan.

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.

