



BID Africa 2017 – Small Grant Template Final narrative report

Instructions

- Fill the template below with relevant information. **please indicate the reason of the delay and expected date of completion.**
- Use the information included in your project Full proposal (reproduced in annex III of your BID contract) as a baseline from which to complete this template
- The information provided below must correspond to the financial information that appears in the financial report
- Sources of verification are for example direct links to relevant digital documents, news/newsletters, brochures, copies of agreements with data holding institutions, workshop related documents, pictures, etc. **Please provide access to all mentioned sources of verification** by either providing direct link or sending a copy of the documents.
- This report must first be sent as a **Word document** to GBIF@GBIF.org and be pre-approved by GBIFS
- Once this report is pre-approved in writing by GBIFS, it must be signed by the BID project coordinator and sent by post to:
The Global Biodiversity Information Facility Secretariat (GBIFS)
Universitetsparken 15
DK-2100 Copenhagen Ø
Denmark

Template

1. Table of Contents

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2. Project Information

2.1. Project Coordinator: Institution/network/agency name: of Zoology, University of Lagos, Akoka, Nigeria

2.2. Main contact person and role: Dr. Kehinde Abike Kemabonta (PI)

2.3. BID proposal identifier: BID-AF2017-0311-SMA

2.4. Project title: Digitization of Species of Odonata (Damselflies and Dragonflies) of Southern, Nigeria

2.5. Start date and end date of the reporting period: : 01/12/2017 to 31/01/2019

2.6. Country in which the activities take place: Nigeria

3. Overview of results

3.1. Executive summary

Give a short summary of the activities implemented and the outcomes of the project for the reporting period (500 words maximum)

All data holding institutions have completed the capacity self assessment questionnaires as stipulated by the BID. The PI attended the BID Capacity Enhancement workshop which took place in South Africa in December, 2017. A 3-day workshop on Digitization and Mobilization of biological data was held 25-27th January and facilitated by Drs. Kemabonta (PI) and Onuminya (member of the research team). Prof Ogbogu, a member of the team, also gave a short talk on Why Odonata? The participants cut across both animal and plant biologists. The workshop was declared opened by the Vice Chancellor of the University; the Dean of the Faculty of Science was the chief host, while the Head, Department of Zoology was the host of the workshop. In all, 47 participants (excluding those present at the opening ceremony) from 9 universities across the country, 2 research institutes and 4 officers from Ministry of environment (students, scientists, insectary/museum technicians and ministry of environment representatives) were in attendance. Participants from the workshop were highly interested and ready to carry out the digitization and publication of their data in IPT. On the last day of the training, participants were grouped into plant and animal sections. They were taken to the field and taught how to sample and use GPS for georeferencing of their data and other DarwinCore functions. At each presentation, all participants were told that the workshop was funded by BID under GBIF. The data on odonates of southern Nigeria has been published on GBIF website. In all, 255 species and 13 families from 8000 odonates have been published from Lagos (University of Lagos and Lagos State University, Omu resort, Lufasi Park), Ondo (Federal University of Technology, Akure), Oyo (University of Ibadan and its environs, Eruwa) Osun (University of Ife), Akwa-Ibom, Kaduna (Ahmadu Bello University, Zaria) and Edo (Okomu forest reserve) States, Nigeria. Collections were from 15 states including Traba, Plateau, Borno, Niger and Benue states. Furthermore, the IUCN status of the collected samples have been assessed using red data listing and this have been disseminated to all stakeholders. End of project stakeholders meeting was held to share the results and data obtained with relevant stakeholders from the communities, government agencies and parastatals {Ministry of Environment, Nigerian Stored product Research institute (NSPRI), Lagos state environmental protection agency (LASEPA), Lagos state parks and gardens (LASPARK)}, non governmental organizations (Unilag Consult, Nigerian conservation



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foundation (NCF), LUFASI park, Omu Resort, NAZAP), Press (Punch, Guardian, Telegraph, Unilag Radio, Webmaster Unilag) and the academia (University of Lagos, Lagos state University, Federal University of Technology, Akure). A total of 93 participants were present at the meeting and information on these can be found on <https://unilag.edu.ng/unilag-bid-organise-final-stakeholders-meeting-january-29/> , attached attendance sheet and pictures of some participants.

3.2. Progress against expected milestones:

Give an overview of all the expected milestones for your project from the beginning until now (see Annex V of your contract)

Expected milestones/activities	Completed? Yes/No	Explanatory notes	Sources of verification
Completed capacity self-assessment questionnaire for data holding institutions https://www.gbif.org/document/82785/self-assessment-guidelines-for-data-holding-institutions (EN) https://www.gbif.org/document/82813/modele-dauto-evaluation-pour-les-institutions-detentrices-de-donnees (FR) (Early Progress report milestone)	Yes	All data holding institutions have completed the capacity self assessment questionnaires as stipulated by the BID.	Completed questionnaires will be emailed to BID
At least one national data publishing institutions are registered with GBIF.org Guidelines to become a publisher: https://www.gbif.org/become-a-publisher (Early Progress report milestone)	Yes	https://www.gbif.org/publisher/bdee9e20-df5e-4ef8-a012-53d2e83010e4	An upload of data in IPT for publishing has been done
At least one person from the project team has completed the certification process following the BID Capacity Enhancement workshop on Data Mobilization organized as a part of the BID programme Africa 2015 or the BID programme Africa 2017 (Early Progress report milestone)	Yes	The PI attended the BID Capacity Enhancement workshop which took place in South Africa.	Attendance sheet
Knowledge dissemination activities have been scheduled following the first BID Capacity Enhancement workshop (Early Progress report milestone)	Yes	A 3-day workshop on Digitization and Mobilization of biological data was held 25-27 th January and facilitated by Drs. Kemabonta (PI) and Onuminya (member of the research team). Prof Ogbogu also gave a short talk on Why Odonata? 47 participants (excluding those present at the opening ceremony) from 9 universities across the country, 2 research institutes and Ministry of environment including	Certificate of Attendance was given to all participants



		students, scientists, insectary/museum technicians and ministry of environment representatives were in attendance.	
At least one dataset has been published to GBIF.org (Midterm report milestone)	Yes	The data on odonates of southern Nigeria has been sent for publication in GBIF website. In all, 45 species, from 1021 odonates have been published from Lagos and Delta States, Nigeria.	An upload of data in IPT for publishing has been done
The data users identified in the full proposal have documented their intended use of the mobilized data and provided early feedback (Midterm report milestone)	Yes	A meeting with stakeholders was carried out in September, 2018 to discuss the use of the mobilized data	Pictures of those who attended the meeting
All mobilized data have been published to GBIF.org (Final report milestone)	Yes	All mobilized data for the project have been published on GBIF site however, the PI has an ongoing project on molecular characterization and diversity of Odonates in Southern Nigeria so the odonates recovered will be digitized accordingly in addition.	Uploaded data are in France IPT
All published data meet the minimum requirements outlined in the Data Quality Requirements available at https://bid.gbif.org/en/community/data-quality/ (Final report milestone)	Yes	It was accepted and published in France IPT. The IPT will not publish any data that does not meet the minimum requirement. They met minimum requirements.	France IPT
The training outcomes of the project have been documented, including the number of people receiving certification through the BID Capacity Enhancement workshops, the number of people trained in nationally organized events, and the evaluation of the impacts of these training activities (Final report milestone)	Yes	A 3-day workshop on Digitization and Mobilization of biological data was held 25-27 th January and facilitated by Drs. Kemabonta (PI) and Onuminya (member of the research team). Prof Ogbogu also gave a short talk on Why Odonata? 47 participants (excluding those present at the opening ceremony) from 9 universities across the country, 2 research institutes, students, scientists, insectary/museum technicians and ministry of environment representatives were in attendance.	Certificate of Attendance was given to all participants
Final capacity self-assessments for	Yes	All stakeholders have filled the	Copies of the



national biodiversity information facilities have been completed with sustainability plans. https://www.gbif.org/document/82785/self-assessment-guidelines-for-data-holding-institutions (EN) https://www.gbif.org/document/82813/modele-dauto-evaluation-pour-les-institutions-detentrices-de-donnees (FR) (Final report milestone)		capacity self assessment form.	forms are available
All uses of the mobilized data have been documented (Final report milestone)	Yes	This is ongoing. We are using niche models to determine the distribution pattern of odonates in southern Nigeria.	Will be sent for publication and GBIF/BID will be acknowledged.
Best practices and lessons learned have been documented (Final report milestone)	Yes	Different Softwares such as openRefine, QGIS, Maxent and many others were used to get very clean data.	The more these softwares are used, the better and cleaner the data.

3.3. Project deliverables and activities

Refer to the table in section 2.2 “Deliverables, activities and reporting criteria” of your BID full proposal. Provide updates on the status of each of planned deliverables. In the event of unexpected delay, please provide detailed explanatory notes and indicate planned completion date. Add as many rows as needed.

Deliverable	Related activity	Completed ? Yes/No	Explanatory notes	Sources of verification
Effective network amongst insectaries and insect museum stakeholders	Stakeholders Networking Meeting	Yes	Project inception meeting was held with project partners and other stakeholders to establish agreements on project implementation and data sharing as well as training of team members.	Attendance list of participants
Increase biodiversity experts through training in Data	Capacity building	Yes	A 3-day workshop on Digitization and Mobilization of biological	Website announcement, publication in one



Management and sharing			<p>data was held 25-27th January and facilitated by Drs. Kemabonta (PI) and Onuminya (member of the research team). Prof Ogbogu made a short presentation on the importance of odonata in monitoring the health and quality of water bodies.</p> <p>47 participants (excluding those present at the opening ceremony) from 9 Universities across the country, 2 research Institutes and Ministry of environment officers (Students, Scientists, insectary/museum technicians, Parks and Resort centers representatives and Ministry of Environment representatives were in attendance.</p>	of the Nigerian newspaper- Telegraph, images and Video recordings of the workshop, list of participants.
Develop a large scale primary data resource of about 10,000 odonates from museums and insectaries in Nigeria	Data Mobilization	Yes	A visit has been made to Nine institutions/museum in Nigeria to digitize odonate collections from the museums and personal collections of odonatologists for assessment and collection of data.	A checklist of 255 species is available.
Publication of images and linking of digitized records of odonates to Museum samples	Data Publication	Yes	In all, over 8000 odonates were published. This comprised of 255 species from 83 genus and 13 families.	France/Nigeria IPT
Conservation of protected areas with respect to insect diversity	Insect Conservation	YES	The stakeholders were informed on the outcome of the project. A press conference has been done. Nigerians are being informed of the conservation status of Odonates.	Need approval of BID to have the briefing published





Insect Species Protection and Red Listing	Insect Conservation	Yes	The red listing of the data has been done.	It is attached
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3.4. Datasets published on GBIF.org

Refer to the table in section 2.4 “Biodiversity data mobilization plan” of your BID full proposal. If the dataset is not yet published, please indicate the name of the institution that is expected to host the data when published in the column “DOI or URL/Planned hosting institution”. Add as many rows as needed.

Dataset title	Publishing institution	DOI or URL/Planned hosting institution	Date/expected date of publication	Explanatory notes
Odonate Specimens	University of Lagos (UNILAG) Lagos, Lagos State Obafemi Awolowo University (OAU) Ife Osun State Federal University of Technology, (FUTA), Akure, Ondo State Lagos State University (LASU) Lagos, Lagos State University of Ibadan, Oyo State Ahmadu Bello University (ABU) Zaria, Kaduna State. Akwa Ibom State University (AKSU) Uyo Akwa Ibom State	www.gbif.com http://unilag.edu.ng	Done.	The publishing URL is GBIF.



3.5. Examples of use of biodiversity data available through GBIF

Data mobilised through the BID programme, ultimately, should guide natural resource conservation and management policy. We require you to report on how you have integrated these data into these policy-making processes. You may want to refer to the section 2.5 “Plan to support the integration of biodiversity information into policy and decision-making process” of your original proposal as a reminder of your original commitments.

As part of that process, we request you to provide us with a summary of how you have used these data within the decision-making process and we have included some guiding questions below to help with that process. Please note that if your dataset has been combined with other datasets in analyses that guide the decision-making process, then this should be recorded too.

Description

*Has your project been successful in integrating data within the policy-making process? **Yes***

Where did the demand for these data come from?

Ministries, Communities, Parks, Resort centres and from Universities.

If yes, which policies have been developed using your data?

A draft policy on conservation of wetlands in Lagos state has been made. It is yet to be promulgated. The meeting of stakeholders and the discussion on conservation of odonates and therefore, the wetlands made the need of establishing a policy very important and very necessary,.

If no, what were some of the challenges you faced in getting your data into those processes?

Not applicable

Did you have a biodiversity data integration plan from the beginning of your project? If so, did you have to adapt your plan as the project progressed and why did you have to make those alterations?

Yes. I just followed the data integration plan

In what format are your data being used i.e. what were the analyses, if any, that you needed to perform on the data to ensure that they were in a format accessible to policy-makers?

We did just normal analysis, did the IUCN red listing and have started with the distribution models of each species.

What level of communication has there been with the relevant policy stakeholders i.e. by which means?



We are in communication through a group WhatsApp. They are given results as we progress with our work. At the last meeting, we concluded on continuing with our communication even after this project ends.

With what regularity?

Very regular. We a group in WhatsApp thus we have continuous communication. The group was updated on every progress made on the work on a continuous basis.

How critical have these interactions been for the development policy-relevant analyses?

The interactions have been very critical. There is already a policy on ground. The final project meeting helped to make them determined to see to the enforcement of the policy.

What additional support (resources, tools, network, training) would be needed for your project to ensure the flow of information from mobilisation to decision-making?

**The attendance at end of project meeting was more than the first stakeholders meeting. Almost 100% more people. Moreover, we had stakeholders from more areas than we did at the beginning of the project. Decisions taken are as follows:
Data was collected from six main states. The decision was that we organise a workshop for all stakeholders in the six states one after the other, or to plan a national meeting in which stakeholders from all over the six states will be in attendance. And they will be trained on the importance of conservation of wetlands and to reduce anthropogenic activities around the water bodies so that the threatened, vulnerable and other rear species will be conserved.**

How would you improve on your own processes in the future to improve data integration in the future?

I will ensure we continue to use all the models and software we used for the project. I have come to see that practise makes perfect. Collaborate with others in same field, source for more funds to ensure the red listing of all species of odonates in Nigeria are known. To ensure that all data holding institutions and individuals release their collections for capturing.

Data may serve other purposes other than for policy-making and these are as valuable. How was your data used for other purposes e.g. development of training materials, scientific publications, communication activities etc?

**One of the stakeholders from a park (LUFASI Park) asked for manual on conservation of donates for secondary schools, as they organise trainings for the students on a regular basis. We promised working with other stakeholders to have the manual published
We are in the process of writing a book on checklists (pictorial) of Odonates of Nigeria
We have stated manuscript writing on distribution pattern of Odonate species in Nigeria
In all, publications, GBIF and BID will be acknowledged.**

Supporting materials

As part of our reporting, we request you to provide us with a copy of any materials highlighting data use on your dataset, either on its own or in combination with other datasets. This could be in the form of:



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- Reports – governmental, ministerial, non-governmental organisations, international policy-making bodies
- Policy briefs
- Scientific publications
- Outputs from analyses that will be used in the future e.g. species distributions maps and other spatial analyses
- Education/communication materials

Please provide a valid dataset to the doi. Where the doi is not known, please state why.

Name of resource	Type of resource i.e. report, policy brief, scientific publication, analysis output, education materials, communication materials, other (please specify)	Dataset doi	Link to document or publication citation
Digitization of Odonate species	Communication Material		https://twitter.com/UnilagNigeria/status/1090198080811646976
Journal of Pure and Applied Biology “Studies on influence of human activities on the species diversity of Odonata in parts of Lagos metropolis”	Scientific publication		In press
Pan African Journal of Science “Abundance, Distribution and Species Diversity of Odonates (Dragonflies and Damselflies) In Akwa Ibom State, Nigeria”	Scientific publication		In press



3.6. Events organized as part of the project

List all the events that have been organized as part of your project. Please provide links to any documents or webpages documenting the use in the “Sources of verification” column. Add as many rows as needed.

Full title	Organizing institution	Dates	Number of participants	Sources of verification
A 3 day workshop on Digitization and mobilization of biological data	University of Lagos	25-27 th January, 2018	47	Images and Video recordings Newspaper publication on the workshop, List of participants. http://unilag.edu.ng
A 1 day Stakeholder’s meeting on Digitization and mobilization of biological data	University of Lagos	29 th January, 2019	93	Images and Video recordings Newspaper publication on the workshop, List of participants. http://unilag.edu.ng





4. Updated calendar for the BID project implementation and evaluation period

The calendar should be completed in the same way as in the Full Project Proposal, but should include any expected changes. Provide reasons for any expected changes in section 4.1 'Explanatory Notes'.

Implementation period start date and end date (30/11/2017)																Notes	
Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Early Progress evaluation & reporting			X	X													
Mid-term evaluation & reporting							X	X									
BID Capacity Enhancement workshop – Data mobilization and publication (Online training - Participation is mandatory)			X														
BID Capacity Enhancement workshop – Data use (Online training - Participation is mandatory)					X												
Stakeholders Networking Meeting	X	X															
Capacity building				X													Increase biodiversity experts achieved
Data Mobilization				X	X	X	X	X	X	X	X	X	X	X	X	X	Large scale primary data resource of about 10,000 odonates from museums and insectaries in Nigeria will be established by uploading digitized specimens on GBIF portal as well as cleaned data set with complete Geo references
Data Publication					X	X	X	X	X	X	X	X	X	X	X	X	Links to published data is GBIFFrance website
Stakeholders end of project Meeting																X	
Insect Species Protection and Red Listing														X	X		IUCN Red list index
Conservation of protected areas with respect to insect diversity															X		.





Evaluation period start date and end date (31/01/19)				
Activity	1	2	3	Notes
Final financial and narrative reporting		X	X	

4.1. Explanatory notes:

No adjustment was made to the timeline



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5. Sustainability plans

Explain the approach that will be taken to ensure the sustainability of the project's results after the end of your project (500 words maximum)

To ensure long-term access to project deliverables, data obtained from the project has been shared with all stakeholders in addition to the GBIF site. Outreach and communication materials developed as well as presentation slides have also been shared; this will contribute to the better understanding and appreciation of Odonate biodiversity by the broader scientific community, general public, policy makers and resource managers. At least 2 MSc. students and 5 undergraduate students were trained in Biodiversity Information Management at the University of Lagos, these will use and further develop the published data.

The state Government is looking at escalating the outcome of the study in the following ways:

- Making sure the study areas are conserved using wire mesh fencing and erecting sign posts at the identified sites.
- The community leaders (Baales) have pledged their support by releasing the affected land area for conservation purpose with little compensation.
- They promised an enabling environment for future studies and also canvassed for inclusion of the locals in the team.
- Speed up the pending issue of policy on wetlands and biodiversity conservation, a draft policy is being considered and enforcement of such will be ensured.
- Intensifying public sensitization and awareness with a view to reducing the rate of illegal encroachment of space.
- Embrace future studies that may come up within the state.
- Have regular staff training for the purpose of conservation of natural resources found in the state.

6. Beneficiaries/affiliated entities and other cooperation

6.1. Relationship with project partners

Please describe the relationship between your project coordinating team/institution and your project partners, and with any other organisations involved in implementing your BID project.

The relationship was very cordial and mutual. Most of the odonates collections were from personal collections of lecturers and others were from the museum. I made it clear that once they die, the collections will be thrown away but digitizing their collections will set a memorial for them. Moreover, their institutions will be well recognized all over the world through GBIF website. They therefore allowed that their collections to be digitized with ease.

Links to other projects and actions

Where applicable, outline any links and synergies you have developed with other actions, e.g. GBIF nodes, other BID funded projects, etc. If your organization has received previous grants in view of strengthening the same target group, to what extent has your BID project been able to build upon/complement the previous project(s) ?



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Our team was able to establish linkage with the GBIF node in Nigeria and share ideas and resources where applicable.

7. Visibility

Please refer to the [BID guidelines](#).

7.1. Visibility of the BID project

How is the visibility of your BID project being ensured?

Short summary

See 7.2 below

Sources of verification

7.2. Visibility of the EU contribution

How is the visibility of the EU contribution being ensured within your project implementation?

Short summary

The BID project has been published in newspaper media, already in UNILAG website; over 47 participants from nine Universities across the country attended the data mobilization training while about 90 people attended the end of project stakeholder's meeting. Both events were promoted on UNILAG radio before and during the programs. Stickers, rolled up stand about the workshop and meeting are placed at the Research and innovation Unit of the University of Lagos.

At every meeting, on the flyers, banners, backdrops and during every presentation, the participants and the populace were told that the project was sponsored by BID under GBIF.

Moreover, the letters sent to participants, certificate of attendance given to participants all had the logos of GBIF and BID on them- saying the sponsors are BID under GBIF.

Pictures of banners, backdrop, stickers and website to check are attached.

Sources of verification

<https://unilag.edu.ng/unilag-hosts-3-day-workshop-on-digitisation-and-mobilisation-of-biological-data/>

<https://unilag.edu.ng/unilag-bid-organise-final-stakeholders-meeting-january-29/>

Signature _____

Name of the contact person for the BID Project: **Dr Kehinde Kemabonta**

Date report sent by email in Word format to bid@gbif.org for pre-approval: 31st January 2019

Date report sent by post to GBIF Secretariat: _____

