



BID Africa 1 – Small Grant Template

Mid-term narrative report

Instructions

- Fill the template below with relevant information. If no result has been achieved on a specific point, please indicate it as “no result achieved yet”
- Use the information included in your project Full proposal (reproduced in annex III.a. 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 links to relevant digital documents, news/newsletters, brochures, copies of agreements with data holding institutions, workshop related documents, pictures, etc.
- This report must first be sent as a Word document to GBIF@BID.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

2. Project Description

- 2.1. **Principal investigator and grant coordinator: Institution/network/agency name:** Natural History Museum of Zimbabwe
- 2.2. **Principal investigator name and role:** Tsitsi S. Maponga
- 2.3. **BID proposal identifier:** BID-AF2015-0117-SMA
- 2.4. **Project title:** Making the zoology collection at the Natural History Museum of Zimbabwe accessible through GBIF by end of 2017
- 2.5. **Start date and end date of the reporting period:** 1 June 2016- 30 November 2016





2.6. Country(ies) in which the activities take place: Zimbabwe

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 (no more than ½ page).

7000 mammalogy specimens records have been digitized and nearly 2500 specimens have been Geo-referenced (using geolocate, tiptop globe, google maps) into excel. However, this data has not been fully cleaned and cleaning via open refine is the next task that will be implemented and necessary steps to align data to Darwin Core international standards are being taken. Open refine and Specify will also be used to confirm the taxonomy (biota, catalogue of life, GBIF name parser), and training for this was done during the introduction to biodiversity informatics workshop. The server has been bought and the software for a functional database system in SPECIFY 6 has not yet been installed, therefore no data has been uploaded to this server. The data will be cleaned, refined and the localities will be geo-referenced. No data has been uploaded to GBIF yet but by June 2017, the data would have been uploaded. We are still working on data sharing agreements between The Natural history Museum, and the Zimbabwe Parks and Wildlife Management Authority, for instance the ecologists from Matopos attended the the introduction to biodiversity informatics workshop in October 2016. Lastly, on capacity building two workshops were done one in Nairobi Kenya and the other at the natural History Museum in Zimbabwe. The first one empowered the project leader on how to handle the project and how the methods of which documentation could be approached using the Kenyan experience. Then the second one was a workshop for the Natural History Museum staff and was coordinated by the project leader and the project leader for the entomology project. Moreover, the assistants, for the mammalogy project also did a presentation on the overcoming barriers in documentation using their experiences. This workshop covered the reasons as to why we need to document digitally and why we need to share our data. It also covered the different types of softwares that can be used to document data.

3.2. Progress against expected milestones:

Expected milestones/activities	Completed? Yes/No	Explanatory notes	Sources of verification
Completed capacity self-assessment questionnaire for data holding institutions (http://www.gbif.org/resource/82785)	Yes	The capacity self assessment questionnaire was filled in, in collaboration with the entomology department. It was submitted to GBIF.	Email to GBIF was sent to GBIF@gbif.org on the 20 th of July 2016
The instituton that will publish your data is registered with GBIF.org For registered data publishers see: http://www.gbif.org/publisher/search	No	We are still waiting for head office (Executive directorate) to approve our request to be a data publisher.	Telephone and Email correspondence to the Executive Directorate via the Regional Director. To verify and crosscheck if this has been done the Regional Director can be contacted at natmuse@netconnect.co.zw





The data users identified in the full proposal have documented their intended use of the mobilized data and provided early feedback	No	National Parks will need to be trained more and we are aiming that the workshop in January will enable them to understand the need to share and use biodiversity data, and how our baseline data could help them with their current data.	A workshop (Introduction to Biodiversity Informatics) has been done and the two ecologists from Matopos National parks were present. After the second workshop in January on data publishing and sharing we are going to work on a document with them that would show the intended use of the data that the mammalogy department will avail through GBIF.
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3.3. Datasets published on GBIF.org

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
Zoology collection (small mammals) at the Natural History Museum of Zimbabwe accessible through GBIF by end of 2017	Natural History Museum		June 2017	We are still waiting for approval from the Head office. On approval we will begin to publish and share our data through the GBIF Platform.

3.4. Examples of use of biodiversity data available through GBIF

Use the table to document use or planned use of data available through GBIF as part of your project. Please provide the DOI for datasets published on GBIF or data downloaded from GBIF in the "Dataset" column. Briefly describe how the data have been used or are planned to be used in the "Data use" column (ca. 50 words). Provide the date or approximate time frame in months for the use or planned use in the "Date/time frame" column. Please provide links to any documents or webpages documenting the use in the "Sources of verification" column. Add as many rows as needed.

Dataset	Data user	Data use	Date/time frame	Sources of verification	Notes
Zoology collection (small mammals) at the Natural History Museum of Zimbabwe accessible through GBIF by end of 2017	We are expecting that the National University of Science and	Baseline information for undergraduate/ Masters projects	Available from June 2017. (we expect that this data will be used for as	The data is not yet available to the public as we are still awaiting approval from	Students have always come for assistance on their projects





	Technology will be our main Data User		long as it is available)	the Executive Directorate to make the data more visible by publishing. Therefore at this point the data is still in excel sheets.	particularly when they are looking for biodiversity baseline data. We will therefore be able to provide data in a user friendly format as compared to analogue which was often tedious.
Zoology collection (small mammals) at the Natural History Museum of Zimbabwe accessible through GBIF by end of 2017	Zimbabwe National Parks	Comparisons between present biodiversity data and past biodiversity data	Available from June 2017	The data is not yet available to the public as we are still awaiting approval from the Executive Directorate.	This will promote sharing of resources and it might promote research synergies between the two institutions.
Zoology collection (small mammals) at the Natural History Museum of Zimbabwe accessible through GBIF by end of 2017	International researchers	Obtaining information on localities and information on morphology and physiology of mammalian species	Available from June 2017	The data is not yet available to the public as we are still awaiting approval from the Executive Directorate. However, an example is the project of Margarida Goncalves from the University of	It might make it easier for researchers to first look for the information they want without actually visiting the museum which





				<p>Porto, Portugal who has requested information on the localities of the Roan antelope (PHD project on the phylogeography of the Roan antelope (<i>Hippotragus equinus</i>). Through availability of digitised data this made it possible for her to know the home ranges of the Roan collected at NHM.</p>	<p>may rather be too expensive especially for those researchers that are live very far.</p>
<p>Biodiversity data mobilisation workshop materials were used from GBIF particularly the exercise on Stakeholders, roles and affiliations. Data was obtained from http://elearning.gbif.es/content.php?cid=413 http://elearning.gbif.es/content.php?cid=418 http://elearning.gbif.es/content.php?cid=419</p>	<p>Mammalogy department plus the rest of the science department staff</p>	<p>Assisting the project leader in introducing what GBIF is and how to digitise and mobilise data</p>	<p>From October 2016 up until we finish documenting our collection.</p>		





3.5. 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
Introduction to Biodiversity Informatics	Natural History Museum Department of Mammalogy in conjunction with the Entomology Department	18-19 October 2016	28	https://www.facebook.com/NHMZimbabwe/photos/pcb.1131692060278405/1131686540278957/?type=3&theater https://www.facebook.com/NHMZimbabwe/photos/pcb.1131692060278405/1131686896945588/?type=3&theater
Initial GBIF project partners meeting	Natural History Museum (Entomology and Mammalogy departments), Kenya Museum	11-15 July 2016	15	https://www.facebook.com/nationalmuseumskenya/photos/pcb.10154181413059385/10154181409989385/?type=3&theater





4. Implementation of BID project activities

Refer to section 2.2 "Deliverables, activities and reporting criteria" in your BID full proposal. Provide updates on each of the activities using the reporting criteria and other sources of verification as appropriate. Sources of verification are for example links to relevant digital document, news, newsletter, brochures, copies of agreements with data holding institutions, workshop related documents, pictures, etc.

4.1. Goal 1: Increase available biodiversity data, within and beyond the grant period

Activity 1 name: Data digitization and mobilization

Description of any implementation during the reporting period: 7000 mammalogy specimens records have been digitized and nearly 2500 specimens have been Geo-referenced (using geolocate, tiptop globe, google maps) into excel. However, this data has not been fully cleaned and cleaning via open refine is the next task that will be implemented and necessary steps to align data to Darwin Core international standards are being taken. Open refine and Specify will also be used to confirm the taxonomy (via Biota, catalogue of life, GBIF name parser), and training for this was done during the introduction to biodiversity informatics workshop. The server has been bought and the software for a functional database system in SPECIFY 6 has not yet been installed, therefore no data has been uploaded to this server. The data will be cleaned, refined and the localities will be geo-referenced. No data has been uploaded to GBIF yet but by June 2017, the data would have been uploaded. We are still working on data sharing agreements between The Natural history Museum, and the Zimbabwe Parks and Wildlife Management Authority, for instance the ecologists from Matopos attended the the introduction to biodiversity informatics workshop in October 2016.

Sources of verification

Training verification

<https://www.facebook.com/NHMZimbabwe/photos/pcb.1131692060278405/1131686540278957/?type=3&theater>
<https://www.facebook.com/NHMZimbabwe/photos/pcb.1131692060278405/1131686896945588/?type=3&theater>

Monthly reports are sent to the regional director documenting progress on digitization.

Activity 2 name: Training and capacity building.

In July, the mammalogy project coordinator and the project coordinator for the entomology project visited Kenya to attend an Initial GBIF project partners meeting which was specifically meant for the regional entomology group. However due to the content that was going to be shared on biodiversity informatics and on lessons on digitization the project leader saw this as best fit to attend this workshop. Then in October, 28 museum staff, attachment students, and staff from the Matopos National Park were introduced to SPECIFY 6 and its benefits. The participants were also trained on biodiversity data mobilization and digitizing techniques. However, the training on digitizing on specify, updating, managing, and maintaining the database will be done in January 2017. Training on data on Data Cleaning, Geo-referencing techniques was done during the introductory workshop. The project coordinator also learnt about data cleaning tools, introduction to specify, documenting data on excel and why we need to standardise. However, the museum staff is not yet able to carry out the digitization of the museum records into SPECIFY database as the server has not yet been installed with the software. The National parks' staff attended the workshop and we hope that we can work towards them being able to access the data to combine and analyse the historic and current data to assess the status and trends of the biodiversity in Zimbabwe.

Sources of verification

<https://www.facebook.com/NHMZimbabwe/photos/pcb.1131692060278405/1131686540278957/?type=3&theater>



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<https://www.facebook.com/NHMZimbabwe/photos/pcb.1131692060278405/1131686896945588/?type=3&theater>
<https://www.facebook.com/nationalmuseumskenya/photos/pcb.10154181413059385/10154181409989385/?type=3&theater>

[Add as many activities as given in your full proposal under "Deliverables, activities and reporting criteria" for goal 1]

4.2. Goal 2: Apply biodiversity data in response to conservation priorities

Activity 1 name: Apply biodiversity data in response to conservation priorities

No data has been uploaded to specify yet so no maps and simplified checklists have been produced yet. However, digitization is on going and is on track.

Sources of verification

No source of verification yet because we have not yet made our data available to the public and we are still educating National Parks and NUST on the importance of data sharing and why we should publish.





5. 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 5.1 'Explanatory Notes'.

Implementation period (maximum 14 months, starting 1 June 2016 at the earliest)																										
Implementation period start date and end date (dd/mm/yy)																										
Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Notes	
Mid-term evaluation & reporting						X																				
Update and install the necessary Software						X																				
Train Staff on Biodiversity Informatics techniques and SPECIFY Database management.		X			X			X																		
Collate information and migrate existing digitized records into Specify 6							X	X																		
Capture undigitized records into Specify 6						X	X	X	X																	
Clean data, refine data, Georeference localities and confirm taxonomy with experts			X	X	X	X	X	X	X																	
Data Analysis and Reports compilation								X	X	X	X															
Distribute reports to end users												X														
Upload data to GBIF												X														
Plan and Host end users workshop												X														
Prepare and Submit quarterly technical and financial reports to GBIF						X			X		X															





Evaluation period (maximum 6 months, ending 31 December 2017 at the latest)							
Evaluation period start date and end date (dd/mm/yy)	1 July 2017 – 31 December 2017						
Activity	1	2	3	4	5	6	Notes
Published data through GBIF			X				Data should be uploaded and ready for use through GBIF by September 2017
Papers on checklists of what the museum has to be published			X	X			

5.1. Explanatory notes:

We expected that the data would begin to be published by December, however due to delays from the executive directorate to approve publishing we may delay publishing the data but by June 2016.



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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.

National University of Science and Technology, Department of Forestry and Wildlife Management. The research staff and students within the department of Forest Resources and wildlife Management are in need of biodiversity data e.g. species checklist and species distribution maps of biodiversity in Zimbabwe to use in their applied research in sustainable conservation and monitoring of biodiversity in Zimbabwe. They visit the museum and some conduct their research projects in the museum. To increase visibility at the university we are going to distribute posters to the wildlife departments not only at the local university but to all the universities.

The Parks and Wildlife Authority are also in need of the baseline information that the museum currently houses. This is not only for the large mammals but even for the smaller mammals as well. National Parks has been working with the Arachnids and Entomology department in collecting specimens and we are looking into expanding this relationship to cater for the conservation of mammalian species as well.

6.2. 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, how far has your BID project been able to build upon/complement the previous project(s) ?

The mammalogy project collaborated with entomology project (under project coordinator Kudzai Mafuwe) in conducting a workshop on bioinformatics which was held in October at the Natural History Museum.

The project leader also attended a workshop organised by the Entomology regional project and this were links were made with the IT department of Kenya especially in helping to set up specify. This is because Kenya has been involved with GBI for a while and they have relative experience in most digitisation softwares. This link was extended to out IT officer who is part of both the mammalogy and entomology projects. This has helped the project in overcoming hurdles by providing insight on critical digitizing protocols that we were experiencing in our project, particularly in open refine.

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?

Before all the workshops started the EU, GBIF and BID project were acknowledged alongside the Natural History Museum. The materials used such as writing sheets also had the GBIF, EU, BID logo on them and the workshop was made public on the Natural history Museum facebook page. Similarly in all the papers that will be published these organisations will be acknowledged. The URL of the project was also shared with the other staff members and the natural history museum community on facebook.

Sources of verification

<https://www.facebook.com/NHMZimbabwe/photos/pcb.1131692060278405/1131686540278957/?type=3&theater>

<https://www.facebook.com/NHMZimbabwe/photos/pcb.1131692060278405/1131686896945588/?type=3&theater>



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7.2. Visibility of the EU contribution

Short summary

Before all the workshops started the EU, GBIF and BID project were acknowledged alongside the Natural History Museum. The materials used such as writing sheets also had the GBIF, EU, BID logo on them. Similarly in all the papers that will be published these organisations will be acknowledged. The URL of the project was also shared with the other staff members and the natural history museum community on facebook.

Sources of verification

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