BID Africa 2017 – Small Grant Template
Early progress 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" and **indicate 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 <u>direct link</u> or sending a copy of the documents

- This report must <u>first</u> be sent as a **Word document** to BID@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

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1. Table of Contents

This programme is funded by the European Union

2. Project Information

2.1. Principal investigator and grant coordinator: Institution/network/agency name:

2.2.   **Principal investigator name and role:** Mrs. Géraldine d'Unienville, President

2.3. **BID proposal identifier:** BID-AF2017-0316-SMA

2.4. Project title: Getting the plants to all: dissemination of information from the collection of The Mauritius Herbarium

2.5. **Start date and end date of the reporting period:** 01-Oct-2017 to 26-Jan-2018

2.6. Country(ies) in which the activities take place: Republic of Mauritius

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).

The following activities, with respective outcomes, took place in the first quarter of the project (not necessarily in chronological order):

a) A project assistant was selected and employed in October 2017. She followed a short in-house training of use of BRAHMS, how collections of The Mauritius Herbarium are organised, etc.

b) After a close check of about half of the records of the MAU database (with corrections to barcode and text memos done when necessary), it was decided that all herbarium sheets should be imaged. The reason is that there was still many mistakes from the time when the database crashed. Therefore, trying to restrict the imaging to native species only would not reduce number of errors and, more importantly, would also be a problem to quickly spot its source. Furthermore, imaging is proving much faster with the new feature of automatic photo renaming in BRAHMS (moreover less error prone).

c) The setting up of image desk took a little longer than expected. Equipment considered as best practice were not all available locally. Based on different options of best practice, an efficient and easy to use 'lighting desk' was designed. In nearly 3 months, about 6,500 high resolution images were taken and registered into the database. This represents nearly one quarter of all

cabinets holding the main flowering plant collections of MAU. Imaging is also helping spotting database errors, which are promptly corrected.

d) A preliminary list of native species of Mauritius and Rodrigues with accepted names of family, genera and species has been completed in BRAHMS, including authorship and citation. This information will be used for both the checklist of native species of Mauritius and Rodrigues and the occurrence data from MAU.

e) Also a list of species found in and around organic fields (prior to planting and first monitoring) was compiled. A few additions are expected when identification is completed (mostly grasses). Information on taxa has been added to BRAHMS (100% for family and genera; over 60% for species). Data on species in each field has also been compiled.

f) A draft template for the event data of organic fields (and also extensions for taxon identification and environment characteristics) for publication through the IPT (e.g. following DwC standards) was designed after the BID training. Some records of the existing data has been populated into this template.

g) A member of The Mauritius Herbarium (Dr C Baider) followed the first BID Capacity Enhancement Workshop (end of November to January 2018). The training was vital to ensure that the digitisation planning and process are well established, and data and metadata is formatted to DwC standards to easier publication.

h) A list of 40 commonest species found in organic fields were chosen from the 'checklist' (Annex 6) for featuring in the field guide. Possible design and contents were discussed, final choice depends on quotations from printing companies.

i) Typos on gazetteer list are being corrected. Geographic location started to be check when there was doubt if those are in DD/DMS. Corrections done when necessary.

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 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)	Yes		Email sent on 21 November 2017 (Annex 1) and form filled (Annex 2)
At least one data publishing institution is	Yes	There were some	https://www.gbif.org/p

registered with GBIF.org Guidelines to become a publisher: https://www.gbif.org/become-a-publisher		technical problems, which were solved by the helpdesk (Annex 3).	ublisher/98bb2db4-4405-4e77-a568-fc596f29177c
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	Yes	*Certificates not yet available as deadline for completion was postponed	Screenshots of online course progress and IPT test mode* (Annex 4a, 4b).
Knowledge dissemination activities have been scheduled following the BID Capacity Enhancement workshop on Data Mobilization	Yes (scheduled)	Most activities are planned to take place from February to April 2018	List planned activities in application to BID Capacity Enhancement workshop (Annex 5).

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
The non-crop flora of organic fields (Taxon data)	Total list of species collected being prepared	No (ongoing)	List of species identified so far added to a non DwC standard spreadsheet, with a DwC template draft being prepared for data migration (attached to email)	Taxon identification will be part of a large DwC Event project to be merged with below
The useful non-crop flora of Mauritius organic fields (Event data)	List of species collected in different times being prepared	No (ongoing)	Same as above	Draft DwC Event with part of extension templates in excel (attached to email)
Updated checklist of native angiosperms Mauritius and Rodrigues flora	List of species (and lower ranks when the case)	No (ongoing)	Preliminary list built as a backbone in BRAHMS for current valid names of family, genera and species, including authorship and citation.	Summary text report from species module (Annex 7).
Mauritius and Rodrigues native	Gazetteer list with geographic range of natural sites	No (ongoing)	Standardization of site names started by correction of typos and	Necessary changes were done directly in

angiosperm sites	built as a library (e.g. including variants in French and English)		adding TWDG available data for countries. Also a few geographic location were checked to define if they were in DD or DMS.	BRAHMS
Non-crop species that help productivity or reduce pests and diseases in organic fields	List of non-crop species with recorded medicinal uses, host plants for insects, and other useful information with citation	No (ongoing)	Medicinal recorded uses of the existing list of non crops species was added but needs to be review to fit DwC standards. Local literature on insect using plants was found, but data has not been fully extract	Data will be added as extension of the Event data. A DwC compliant file needs to be draft to migrate data.
Distribution maps of non-crop species in agricultural organic fields	List of plots participating in the pilot program of organic agriculture	No (ongoing)	To be done later in the year 2018 when monitoring is completed.	Draft DwC Event for site location and other environmental information (attached to email).
Sample distribution maps of native angiosperms on Mauritius and Rodrigues	Gazetteer list being prepared. Distribution of selected species being compiled from herbaria and literature.	No (ongoing)	Gazetteer list being prepared (see above). Data from other herbaria downloaded from GBIF (see item 3.5).	See above and in section 3.5. Distribution maps will be similar to Bissessur *et al* 2017 (Annex 8).

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" and expected date of publication (month and year). Add as many rows as needed.

Dataset title	Publishing institution	DOI or URL/Planned hosting institution	Date/expected date of publication	Explanatory notes
Plant diversity in pilot organic fields of Mauritius (event)	Le Velo Vert & The Mauritius Herbarium	Le Velo Vert & The Mauritius Herbarium	May 2018 (partial: metadata and two monitoring events) Dec 2018 (full)	With updates in early 2019 if identification of samples is not completed on time. If planters are willing to continue the monitoring, updates will continue yearly
Native angiosperm flora of Mauritius and Rodrigues (checklist and occurrence)	The Mauritius Herbarium	The Mauritius Herbarium	May 2018 (metadata) Dec 2018 (full)	With regular updates, probably yearly, to add new occurrence data as these are available after been fully checked

3.5. 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. You may want to refer to the section 2.5 "Plan to support the integration of biodiversity information into policy and decision-making processes" of your BID full proposal. 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
Alterra (NL) - Entomofauna inventory in edges of arable fields province of Groningen https://doi.org/10.15468/dl.5vmel7	Le Velo Vert & The Mauritius Herbarium	Verify data structure	Downloaded 26 Jun 2018	http://api.gbif.org/v1/occurrence/download/request/0013885-171219132708484.zip	
African Insect Atlas	Le Velo Vert & The Mauritius Herbarium	Reference of taxon and species presence	When available		
Multiple [N=358]	The Mauritius	Check species presence when	Re-downloaded	http://api.gbif.org/v1/occ	

https://doi.org/10.15468/dl.vxs1ty	Herbarium	GBIF cannot be used online	26 Jun 2018	urrence/download/request/0013906-171219132708484.zip	

Use of GBIF website is proven difficult, especially when many users are connected on the local intranet that is used by The Mauritius Herbarium. Apart from the above datasets, the GBIF website is being also used to cross-check plant species valid names, authority and citation.

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

No event related to the project has been organised yet. Sharing knowledge activities are proposed to take place as from February 2018 (see annex 5), and the workshop for the field guide later in the year (as from September - as per document proposal).

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 (01/10/17)																
Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	**Notes**
Early Progress evaluation & reporting			X	X												Completed herein(end of January 2018)
Mid-term evaluation & reporting							X	X								
BID Capacity Enhancement workshop – Data mobilization and publication (Online training - Participation is mandatory)			X													Completed (end of January 2018)
BID Capacity Enhancement workshop – Data use (Online training - Participation is mandatory)				X												
Checklist (organic fields)	X	X	X										X	X		Preliminary list of species has been compiled with few samples awaiting identification (mostly grasses). A draft template of how the data should be compiled for publication through the IPT has been designed and existing data will be populated within
Checklist of useful plants (organic fields); monitoring data							X	X					X	X		
Checklist native species Mauritius and Rodrigues	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Preliminary list of valid names of families, genera and species completed (including authority and citation). High definition digital images are being taken, records in the database are being checked and corrected when necessary (e.g. barcodes, text memos, etc).
Gazetteer list for Mauritius and Rodrigues	X	X	X	X	X	X	X	X	X	X						Cases of typos are being checked and a few geographic location were checked to define if they were in DD or DMS. Corrections done when necessary
Field guide (organic fields)		X	X	X	X	X	X	X	X	X	X	X	X	X		A tentative list of 40 commonest plant species found in the organic fields were chosen from the 'checklist' (attachment 5). Design (including content) is being decided up as it depends on quotations

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																received from printing companies
Mapping (organic fields)											X	X	X	X	X	
Mapping (native flora)											X	X	X	X	X	

Evaluation period start date and end date (01/01/19)				
Activity	1	2	3	**Notes**
Final financial and narrative reporting		X	X	
Financial accounts	X	X	X	
Report writing	X	X	X	

4.1. Explanatory notes:

No change has been bought to the original calendar submitted. Although a gazetteer list is a bit behind schedule, it is expected that it would not be a problem as other activities had progressed faster (e.g. preliminary checklist of native species)

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5. Beneficiaries/affiliated entities and other cooperation

5.1. 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.

Le Velo Vert and The Mauritius Herbarium have strengthen its links with this project. The project assistant was employed by Le Velo Vert but she works most of the time at The Mauritius Herbarium. The Mauritius Herbarium is also providing information to other Le Velo Vert partners when necessary and is receiving support from the local agriculture research institute.

5.2. 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) ?

N/A

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

6.1. Visibility of the BID project
How is the visibility of your BID project being ensured?

Short summary
It has not yet started but it expected that BID logo will added to power point presentations poster, banners and social media starting with the planned sharing knowledge activities.

Sources of verification
N/A

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

Short summary
It has not yet started but it expected that EU logo will added to power point presentations poster, banners and social media starting with the planned sharing knowledge activities.

Sources of verification
N/A

BID   **GBIF**

Annex 1:

Gmail   **Claudia Baider <clbaider@gmail.com>**

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BID AF SMA 0316 - Capacity self-assessment November 2017
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Claudia Baider <clbaider@gmail.com>   21 November 2017 at 08:55
To: BID <BID@gbif.org>, ajmrakotomanjaka@gmail.com, "Laura Anne Russell (larussell@gbif.org)" <larussell@gbif.org>
Cc: "action@levelovert.org" <action@levelovert.org>, "president@levelovert.org" <president@levelovert.org>, Gabriella
Krivek <krivek.g@gmail.com>

Dear Laura and Andry

Please find the self assessment for The Mauritius Herbarium under grant BID AF-SMA-0316.

If there is need for any correction or clarification, please let me know.

Thank you and best wishes, Claudia

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Annex 2:

GBIF | Global Biodiversity
Information Facility

Date

21/11/2017

BIODIVERSITY DATA HOLDER SELF-ASSESSMENT QUESTIONNAIRE

Institution / Collection name:

The Mauritius Herbarium

Section 1: Strategy

	No (0)	In progress/ incomplete (1)	Yes (2)
1. Does the collection have a defined (documented) mission which determines its role and purpose?	○	○	⦿
2. Has the purpose of the mobilization activity been defined?	○	⦿	○
3. Have the scope and extent of digitization efforts—their completeness, data elements, digital preservation, etc.—been defined?	○	⦿	○
4. Have curators identified or assessed any necessary or useful pre-digitization activities—sorting, selection of samples, taxonomic review, cross-checking against field notebooks, etc.?	⦿	○	○
5. Does the institution have a defined data policy that covers topics like intellectual property rights, custodial responsibilities, access, licensing, liability and privacy, sensitivity?	⦿	○	○
6. Has a database management system/software been selected?	○	○	⦿

Section 1: Overall score

Score 1-6: Initiate what is not started and consider actions to accelerate work in progress

Notes on strategy

The mission of The Mauritius Herbarium was set in 1960, went all plant collections in the country were put together to form the national herbarium. Data digitalisation started in 2004 to capture primary data (specimen information) and make it available in the future. It is now evolving to capture other aspects (taxonomy, species description, origin in each Mascarenes island, etc). Little pre-digitalisation activity was done - only a short list of species with authorities and collectors - to allow quicker data entry. Data policy has not been developed. The database software being used is BRAHMS.

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Section 2: Digitization

	No (0)	In progress/ incomplete (1)	Yes (2)
1. Has a suitable digitization workspace been identified or set up?	○	○	◉
2. Has pre-digitization curation been carried out (sorting, selecting what to digitize, updating taxonomy and labels, specimen "health"/condition, assigning unique identifiers such as barcodes and general tracking)?	○	○	◉
3. Have digitization processes and technologies (text capture, imaging, multimedia, other) been defined?	○	○	◉
4. Have relevant data elements been mapped against important international data standards?	○	◉	○
5. Are workflows, including the handling of physical materials, well-defined?	○	◉	○
6. Are staff adequately and appropriately trained and equipped?	○	◉	○
7. Have quality control processes and standards—including taxonomy, georeferencing, typographical errors, field mismatch, technical and metadata specifications—been clearly specified?	○	◉	○

Section 2: Overall score

Score 8-14: Seek opportunities to help extend and maintain capacity in this area

Notes on digitization

A dedicated room for databasing was established in 2010, containing a dedicated computer and, very recently, a imaging 'station'. Data capture was all by typing direct the information of the specimens into BRAHMS. Imaging is being link by barcoding with automated image numbering. Taxon spelling, publication place and year, and authority information are crossed checked against different online databases and local published flora, and reference to primary literature when there are disagreements. Staff and trainees are made aware verbally on how to handle specimens. Many of setbacks during the digitalisation were due mostly to poor equipment. Quality control is improving as a reference library for taxonomy, authority, collector, etc are being populated.

Section 3: Publishing

	No (0)	In progress/ incomplete (1)	Yes (2)
1. Have the needs of expected end users and web publishing been fully considered in selecting appropriate data formats?	○	◉	○
2. Are the selected licences machine-readable and supported by GBIF?	◉	○	○
3. Has a (web) data publishing tool been selected and set up?	○	◉	○
4. Does the institution have access to stable data-hosting facilities?	○	◉	○

Section 3: Overall score

Score 1-4: Initiate what is not started and consider actions to accelerate work in progress

Notes on publishing

Database was made available as from 2010 using BRAHMS online via a dedicate BRAHMS MAU website. But after a database crash last year, it was not uploaded again to allow correction of errors that lead to the database collapse. On the other hand, part of the data is published in a regional portal accessible through BRAHMS website. I am not aware of the needs of a the selected licences machine-readable and supported by GBIF, but data from BRAHMS can be translated to GBIF.

Section 4: Curation and maintenance

	No (0)	In progress/ incomplete (1)	Yes (2)
1. Have processes been defined to accommodate updates from quality control and new information (e.g., taxonomic updates)?	○	○	◉
2. Does the institution have resources and processes to handle corrections and suggestions offered by web users?	◉	○	○
3.Are adequate processes in place to keep digitized data up to date with changes in curatorial information about the original materials, and vice versa?	○	◉	○

Section 4: Overall score

Score 1-3: Initiate what is not started and consider actions to accelerate work in progress

Notes on curation and maintenance

Taxonomical updates are done regularly using recent literature and, based on online databases after cross-checking with primary published articles. Taxonomical library is being built for easier reference of any curatorial information change. No suggestion from web users was ever received, however it would be possible to handle suggested corrections.

Section 5: Preservation and archiving

	No (0)	In progress/ incomplete (1)	Yes (2)
1. Does the institution have access to suitable long-term data archival repositories?	◉	○	○
2. Does the solution adequately ensure the security of data and safeguard against obsolescence of data formats and applications?	◉	○	○

Section 4: Overall score

Score 0: Concerted effort required to start building capacity in this area

Additional notes on preservation and archiving

Data is stored in the server at University of Oxford via BRAHMS but this might not be considered as long-term data archival repository. Hence, one of the aims of this BID project.

Strategy	Mission	2	Purpose	1	Scope & extent	1	Pre-digitization activities	0	Data policy	0	Database management system	2		
Digitization	Workspace	2	Pre-digitization curation	2	Process & technology	2	Data standards	1	Workflows	1	Staff & equipment	1	Quality control	1
Publishing	Data formats	1	Licence	0	Publishing tool	1	Data hosting	0						
Curation & Maintenance	Data updates	2	Corrections & suggestions	0	Database-specimen label synchrony	1								
Preservation & Archiving	Repository	0	Security & persistence	0										

Total Score [21] /44

Annex 3:

Claudia Baider <clbaider@gmail.com>

Registration to become a publisher fails

Claudia Baider <clbaider@gmail.com>
To: helpdesk@gbif.org

22 January 2018 at 13:54

Dear Madam/Sir

I tried to register my organisation as data publisher but I'm always getting a error messaged that it is failing and I should contact the helpdesk.

As it might help, I made a htm copy of the information I added to the web form.

Thank you in advance for any help provided, Claudia

Dr Claudia Baider, The Mauritius Herbarium, RE Vaughan Building (MSIRI compound), Agricultural Services, Ministry of Agro-Industry and Food Security. Reduit, Postal code 80835, Mauritius. Phone +(230) 4541061.

MAU_2018_Become a publisher.htm
536K

Claudia Baider <clbaider@gmail.com>

Fwd: Registration to become a publisher fails BID-AF2017-0316-SMA

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helpdesk <helpdesk@gbif.org>
To: "clbaider@gmail.com" <clbaider@gmail.com>
Cc: helpdesk <helpdesk@gbif.org>, Maheva Bagard Laursen <mblaursen@gbif.org>, BID <BID@gbif.org>

30 January 2018 at 15:46

Dear Claudia,

My apologies for the hassle! Our checking showed that the issue lies with the two separate URLs that are supplied in the field for the homepage – it should only contain a single one. I have to admit that the error checking and messages should be more explicit in cases like this, and am sorry for the frustration it caused.

I am stuck in meetings for a while longer, so if you would like to make one more attempt to register, possibly with reduced data (just fill the mandatory fields, and the BID project information details), the endorsement process could already get on the way, so that your formal obligations are fulfilled. I can fill the gaps then later today, based on your htm screenshot.

Does that sound ok?

With best regards,

Andrea

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Annex 4:

a) training webpage progress report (GBIF.es)

	Homepage	My courses	Personal agenda	Progress	Social network	

Progress

🎓 My courses

Course	Time spent in the course	Progress	Performance ⓘ	Latest login	Details
BID AFRICA 2017 - Biodiversity Data Mobilization Workshop	23:18:02	100%	0%	Jan 25, 2018	»

BID AFRICA 2017 - Biodiversity Data Mobilization Workshop

Tests	Attempts	Best attempt	Ranking	Best result in course	Statistics ⓘ
			There is no test for the moment		

Courses	Time spent	Progress	Performance	Latest login
Preparatory activities	7:29:44	100%	0%	January 02, 2018 at 02:12 PM
Activités Preparatoires	0:00:00	0%	0%	-
Main section	16:24:42	100%	0%	January 13, 2018 at 11:30 AM
Section principale	0:00:00	0%	0%	-
Follow-up activities	1:40:50	100%	0%	January 18, 2018 at 08:44 AM
Follow-up activities	0:00:00	0%	0%	● Chat (Disconnected)

b) IPT test mode page (the two resources with logo and the one name 'Native plants of Mauritius…' were done by the project's attendee

GBIF INTEGRATED PUBLISHING TOOLKIT (IPT) free and open access to biodiversity data **TEST MODE**   Logged in as user4@gbif.org   Account   Logout   **ENGLISH**

Home	Manage Resources	About

Hosted resources available through this IPT

Filter: [   ]

Logo	Name	Organisation	Type	Subtype	Records	Last modified	Last publication	Next publication
--	bel	Not registered	Occurrence	Specimen	0	2018-01-24	2018-01-24	2018-01-25 17:08:05
🖼	Birds at two Danish Lighthouses (1883-1939)	Not registered	Occurrence	Observation	1,212	2018-01-23	2018-01-23	--
--	Birds fallen at Danish Lighthouses, 1883 - 1939	Not registered	Occurrence	--	1,212	2018-01-21	2018-01-21	--
--	Development of National Biodiversity Database System (NBDS) South Sudan	Not registered	Occurrence	Observation	2,280	2017-12-06	2017-12-06	--
--	eth	Not registered	Occurrence	--	1,213	2018-01-20	2018-01-20	--
🖼	IBAN Lepidotera	Not registered	Sampling event	Observation	197	2018-01-23	2018-01-23	--
--	mne	Not registered	Occurrence	Specimen	760	2018-01-20	2018-01-20	--
--	Native plants of Mauritius and Rodrigues	Not registered	Occurrence	Specimen	760	2018-01-11	2017-12-06	--

<u>Annex 5: (as in motivation letter sent 13 October 2017)</u>

Types of knowledge sharing activities proposed under BID-AF2017-0316-SMA

Knowledge sharing activity	Type of activity	Expected dates	Description	Target audience
Checklist, monitoring and information for field guide of non-crop flora of organic fields	Short workshop	Early February 2018	Importance of gathering useful and good quality data How to support global efforts of data sharing to improve a variety of regional and local initiatives, like citizen science or official government or NGO projects Use of global standards for data sharing	Staff of Le Velo Vert supporting data collection and monitoring of flora in pilot fields (N=3-5, depending on their availability).
Updated checklist of native angiosperms Mauritius and Rodrigues flora, with an associate gazetteer list to support mapping	Hands on activities	December 2017 to February 2018	Necessary steps and data quality to create an updated checklist (including specimen information capture and imaging) with a gazetteer list for Mauritius and Reunion using GBIF standards for publication on both GBIF and BRAHMS online	Staff of The Mauritius Herbarium (N=1) and GBIF funded project assistant (N=2)
Extra activity being planned but to be confirmed: Publicize GBIF initiative with local stakeholders holding natural history collections	Meetings	March-April 2018	Demonstrate how data can be shared and how it can be done	Private collection owners(N=2); government collection (min N=1)

This programme is funded by the European Union

Annex 6: Proposed list of species for field guide

Family	Botanical name	Common name
Amaranthaceae	*Amaranthus viridis*	Brède malabar
Apiaceae	*Centella asiatica*	Herbe boileau
Asteraceae	*Ageratum conyzoides subsp. conyzoides*	Herbe de bouc
Asteraceae	*Bidens pilosa*	Herbe Villebague
Asteraceae	*Clibadium surinamense*	
Asteraceae	*Conyza sumatrensis*	Herbe gandia
Asteraceae	*Mikania micrantha*	Liane margoze
Asteraceae	*Sonchus oleraceus*	Lastron
Commelinaceae	*Commelina diffusa*	Herbe cochon
Convolvulaceae	*Ipomoea obscura*	
Cyperaceae	*Cyperus rotundus*	
Euphorbiaceae	*Acalypha indica*	Herbe chatte
Euphorbiaceae	*Euphorbia hirta*	Herbe Jean Robert
Euphorbiaceae	*Euphorbia hypericifolia*	
Fabaceae	*Desmanthus virgatus*	Petit acacia
Fabaceae	*Mimosa pudica*	Sensitive
Fabaceae	*Senna occidentalis*	Cassepuante
Lauraceae	*Litsea monopetala*	Yati; Bois d'oiseau a grandes feuilles
Malvaceae	*Sida retusa*	
Melastomataceae	*Clidemia hirta*	
Onagraceae	*Ludwigia octovalvis subsp. sessilifora*	Herbe les mares
Oxalidaceae	*Oxalis corniculata var. corniculata*	Petite oseille
Oxalidaceae	*Oxalis debilis subsp. corymbosa*	
Papaveraceae	*Argemone mexicana*	Chardon
Phyllanthaceae	*Phyllanthus urinaria*	
Plantaginaceae	*Plantago lanceolata*	Plantain
Plantaginaceae	*Stemodia verticillata*	
Poaceae	*Coix lachryma-jobi*	Collier cipailles
Poaceae	*Cynodon dactylon*	Chiendent
Poaceae	*Eragrostis amabilis*	
Poaceae	*Paspalum scrobiculatum*	
Poaceae	*Stenotaphrum dimidiatum*	Herbe bourrique
Portulacaceae	*Portulaca oleracea*	
Rosaceae	*Rubus alceifolius*	Piquant loulou
Rubiaceae	*Paederia foetida*	Liane lingue
Sapindaceae	*Cardiospermum halicacabum var. microcarpum*	Poc poc
Solanaceae	*Solanum americanum*	Brède martin
Verbenaceae	*Lantana camara*	Vieille fille
Verbenaceae	*Stachytarpheta jamaicensis*	Herbe queue de rat
Verbenaceae	*Verbena officinalis*	Verveine

Annex 7: _Summary text report of species from BRAHMS

(Species info from The Mauritius Herbarium BRAHMS 26 Jan 2018)

spnumber: 6; **taxstat**: accep; **family group**: Eudicots; **order**: Gentiales; **family**: Apocynaceae; **genus**: Secamone; **sp1**: dilapidans; **author1**: F. Friedmann; **citation**: Bull. Mus. Natl. Hist. Nat., B, Adansonia Sér. 4, 12 (2): 136.; **day**: 0; **month**: 0; **year**: 1990; **commons**: 1; **collection total**: 16;

spnumber: 8; **taxstat**: accep; **family group**: Monocots; **order**: Poales; **family**: Cyperaceae; **genus**: Rhynchospora; **sp1**: rugosa; **author1**: (Vahl) Gale; **citation**: Rhodora 46: 275.; **day**: 0; **month**: 0; **year**: 1944; **collection total**: 23;

spnumber: 9; **taxstat**: accep; **family group**: Monocots; **order**: Poales; **family**: Cyperaceae; **genus**: Machaerina; **sp1**: anceps; **author1**: (Poir.) Bojer; **citation**: Hortus Maurit.: 385.; **day**: 0; **month**: 0; **year**: 1837; **collection total**: 12;

spnumber: 10; **taxstat**: accep; **family group**: Monocots; **order**: Poales; **family**: Cyperaceae; **genus**: Scleria; **sp1**: sieberi; **author1**: (Sieber) Nees; **citation**: Linnaea 9: 303.; **day**: 0; **month**: 0; **year**: 1834; **commons**: 1; **collection total**: 18

spnumber: 11; **taxstat**: accep; **family group**: Monocots; **order**: Poales; **family**: Poaceae; **genus**: Panicum; **sp1**: brevifolium; **author1**: L.; **citation**: Sp. Pl. 1: 59.; **day**: 1; **month**: 5; **year**: 1753; **collection total**: 10

spnumber: 12; **taxstat**: accep; **family group**: Monocots; **order**: Asparagales; **family**: Orchidaceae; **genus**: Hederorkis; **sp1**: scandens; **author1**: Thou.; **citation**: Hist. Orchid.: t. 91.; **collection total**: 9

spnumber: 13; **taxstat**: accep; **family group**: Monocots; **order**: Asparagales; **family**: Orchidaceae; **genus**: Bulbophyllum; **sp1**: occultum; **author1**: Thou.; **citation**: Hist. Orchid.: t. 93.; **collection total**: 11

spnumber: 14; **taxstat**: accep; **family group**: Eudicots; **order**: Ericales; **family**: Ebenaceae; **genus**: Diospyros; **sp1**: pterocalyx; **author1**: Bojer ex A. DC.; **citation**: Hortus Maurit.: 200.; **day**: 0; **month**: 0; **year**: 1837; **commons**: 7; **collection total**: 22

spnumber: 15; **taxstat**: accep; **family group**: Eudicots; **order**: Myrtales; **family**: Myrtaceae; **genus**: Syzygium; **sp1**: bijouxii; **author1**: J. Guého & A.J. Scott; **citation**: Kew Bull. 34 (3): 491.; **day**: 28; **month**: 2; **year**: 1980; **commons**: 5; **collection total**: 12

spnumber: 16; **taxstat**: accep; **family group**: Monocots; **order**: Poales; **family**: Cyperaceae; **genus**: Carex; **sp1**: boryana; **author1**: Schkuhr; **citation**: Beschr. Riedgräs. 2 (Nachtrag): 43, t. Gggg, f. 191.; **day**: 0; **month**: 0; **year**: 1806; **collection total**: 15;

spnumber: 18; **taxstat**: accep; **family group**: Monocots; **order**: Asparagales; **family**: Orchidaceae; **genus**: Disperis; **sp1**: tripetaloides; **author1**: (Thou.) Lindl.; **nomnote**: as "tripetaloidea".; **citation**: Gen. Sp. Orchid. Pl.: 371.; **day**: 0; **month**: 1; **year**: 1839; **collection total**: 12

spnumber: 19; **taxstat**: accep; **family group**: Eudicots; **order**: Myrtales; **family**: Lythraceae; **genus**: Ammannia; **sp1**: capitellata; **author1**: S.A. Graham & Gandhi; **rank1**: subsp.; **sp2**: mauritiana; **citation**: Harvard Pap. Bot. 18 (2): 155.; **day**: 30; **month**: 12; **year**: 2013; **collection total**: 15

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Annex 8: Sample distribution map of the Mauritius endemic *Roussea simplex* (Bissessur *et al* 2017, http://dx.doi.org/10.1080/17550874.2017.1402382)

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ARTICLE

Rapid population decline of an endemic oceanic island plant despite resilience to extensive habitat destruction and occurrence within protected areas

Prishnee Bissessur [a]*, Cláudia Baider[b] and François Benjamin Vincent Florens[a]

[a]Tropical Island Biodiversity, Ecology and Conservation Pole of Research, Department of Biosciences, Faculty of Science, University of Mauritius, Le Réduit, Mauritius; [b]The Mauritius Herbarium, Agricultural Services, Ministry of Agro-Industry and Food Security, Le Réduit, Mauritius

Background: Over 10,000 island endemic angiosperms are highly threatened by extinction. Yet, few of these species have the temporal change in their range documented and quantified, particularly within a potentially informative context of a long period of botanical study.

Aim: Here, we used *Roussea simplex* a mono-specific genus endemic to Mauritius, itself an island with long botanical history and advanced habitat destruction extent, to investigate how the distribution and population of this model oceanic island plant changed through time.

Methods: All known localities and population size estimates were compiled from published literature, herbarium specimens, surveys and personal communications to estimate changes in population size, extent of occurrence and area of occupancy and investigate main distribution patterns.

Results: *Roussea simplex* survives in nine high elevation sites. Since the 1930s, its range halved relative to its maximum known distribution and its population size decreased much faster than direct habitat loss would predict. It now qualifies as Endangered according to the IUCN Red List categories.

Conclusions: Even in an extremely deforested island, endemic plant population decline may be driven more by diminishing habitat quality than diminishing habitat extent. This renders habitat protection alone insufficient, therefore addressing ecological interactions is vital to stem population decline.
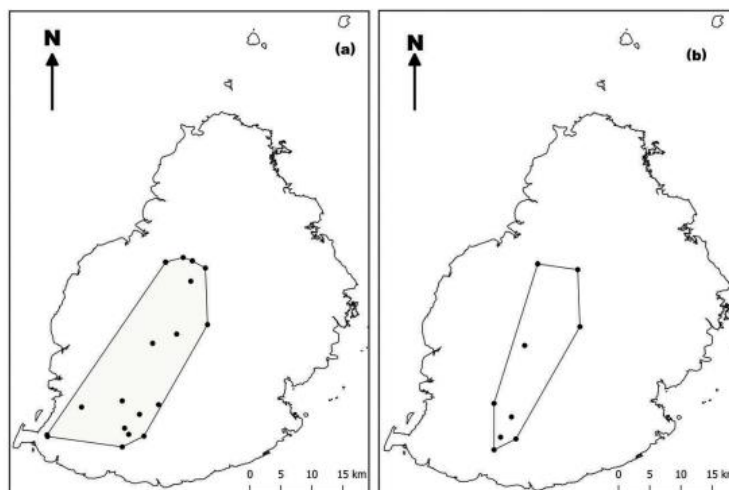
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Figure 2. Distribution of *Roussea simplex* obtained from GeoCAT. (a) Extent of occurrence (EOO) estimated using the polygon by joining all known occurrence points (356.9 km^2); (b) EOO estimated using the current locations (200.5 km^2). Dots indicate the occurrence point.

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Name of the contact person for the BID Project: Géraldine d'Unienville (president@levelovert.org)

Alternative: Valentine Bredoux (actions@levelovert.org); Cláudia Baider (clbaider@gmail.com)

Date report sent by email in Word format to bid@gbif.org for pre-approval: 31 Jan 2018; reviewed reported sent on 09 Feb 2018.

Date report sent by post to GBIF Secretariat: _____

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