The Rufford Foundation

Final Report

Congratulations on the completion of your project that was supported by The Rufford Foundation.

We ask all grant recipients to complete a Final Report Form that helps us to gauge the success of our grant giving. The Final Report must be sent in **word format** and not PDF format or any other format. We understand that projects often do not follow the predicted course but knowledge of your experiences is valuable to us and others who may be undertaking similar work. Please be as honest as you can in answering the questions – remember that negative experiences are just as valuable as positive ones if they help others to learn from them.

Please complete the form in English and be as clear and concise as you can. Please note that the information may be edited for clarity. We will ask for further information if required. If you have any other materials produced by the project, particularly a few relevant photographs, please send these to us separately.

Please submit your final report to jane@rufford.org.

Thank you for your help.

Josh Cole, Grants Director

Grant Recipient Details	
Your name	Roger Bruno Tabue Mbobda
Project title	Plant diversity and carbon storage in the eastern portion of the Dja Wildlife Reserve
RSG reference	13820-1
Reporting period	September 2013-May 2014
Amount of grant	£6000
Your email address	tabueroger@yahoo.fr
Date of this report	28 /05/ 2014

1. Please indicate the level of achievement of the project's original objectives and include any relevant comments on factors affecting this.

Objective	Not achieved	Partially achieved	Fully achieved	Comments
Assess the tree diversity in the eastern portion of the Dja Wildlife Reserve			x	9293 individuals belonging to 47 families, 150 genera and 205 species have been identified.
Determine the different types of biotopes found in this part of the Dja wildlife Reserve			x	Three types of biotope dominated by secondary forest (46 ha) followed by Raphiales (2.2 ha) and Swamp (1.8 ha) in this part of reserve were be found.
Assess the carbon stored by each biotope			x	Considering only the Brown *et al.* (1989) formula, there is a quantity of 6145 tons of carbon stored in the sampled area that could be considered as a baseline of carbon stock. The secondary forest, the densest (94.29 % of the individuals identified) and diversified (97.58 % of the identified species) having stored 114.39 t C / ha (93% of carbon stored). The Raphiales and Swamp (3.7% and 2.83 % of identified species) stored 5.13 and 3.37 t C / ha respectively.
Assess the carbon stored by the important taxonomic group			x	At the family level, the *Euphorbiaceae* have stored more carbon, about 19.25% of the total stock. It is followed by the family of *Mimosaceae* with 17.69 t C / ha and that of *Irvingiaceae* with about 9 t C / ha. Ten families have stored 90.51 t C / ha (73.64 % of the total stock). At the specific rank, *Uapaca guineensis* stored more carbon with 18.55 t C / ha representing approximately 15 % of the total stock. Besides this species, *Pentaclethra macrophylla*, *Petersianthus macrocarpus* and *Desbordesia glaucescens* are part of important species in terms of the amount of carbon sequestered. The amount of carbon stored by these species is 40.68 t C / ha corresponding to 33.10 % of the total stock.

2. Please explain any unforeseen difficulties that arose during the project and how these were tackled (if relevant).

N/A

3. Briefly describe the three most important outcomes of your project.

- The master degree thesis which was publicly sustained on 12th May 2014 with the highest honours awarded by the jury;
- The check list of trees encountered in this part of the reserve;
- The above ground carbon stock of trees in this part of the reserve.

4. Briefly describe the involvement of local communities and how they have benefitted from the project (if relevant).

Local residents were solicited in this work primarily as porters, guides, translators and in some cases species identifiers.

5. Are there any plans to continue this work?

We intend to complete this work with the assessment of carbon stock of soil. If possible also assess the diversity of shrubs, bushes and undergrowth herbaceous and their carbon stock.

6. How do you plan to share the results of your work with others?

A copy of the corrected memory in paper and electronic versions is already deposited in the library of the Department of Plant Biology of the University of Yaounde 1 that will be serve to future students interested by this domain of work. The results of this work will be submitted for publishing to an appropriate journal.

7. Timescale: Over what period was The Rufford Foundation grant used? How does this compare to the anticipated or actual length of the project?

This study was conducted on the field in the period from 20th October to 22th December 2013 followed directly by processing and data analyses and writing of dissertation. These activities have been successful on 12th May 2014 with honours awarded after the defense by the jury responsible for its evaluation.

8. Budget: Please provide a breakdown of budgeted versus actual expenditure and the reasons for any differences. All figures should be in £ sterling, indicating the local exchange rate used.

Item	Budgeted Amount	Actual Amount	Difference	Comments
Activity1: field visit and data collection	£5066,67	£5066,67	£0,00	Support of team members, Supervision and Management
Activity 2: Processing and analysis of data Copying and memory report	£800,00	£800,00	£0,00	processing data and copying master's thesis

Contingences	£133,33	£133,33	£0,00	Accommodation and preparation of the defence
Total	**£6000**	**£6000**	**£0,00**	

9. Looking ahead, what do you feel are the important next steps?

- Preparation of the article that will be published in an appropriate journal.
- Elaborate the project of assessing the carbon stock of soil in this part of the reserve.

10. Did you use The Rufford Foundation logo in any materials produced in relation to this project? Did the RSGF receive any publicity during the course of your work?

Yes. The logo was used on the mounted slides for the defence. During the sustenance, RSGF was officially thanked for his highly significant financial contribution that covered almost the entire expenditure incurred.

11. Any other comments?

It should be noted that this work is a pilot in this protected area and it would be better to go deeper with the other steps which are: estimating soil carbon and evaluation of the diversity of shrubs and herbaceous.

I also seize this opportunity to express my deep gratitude to RSGF for these efforts provided for the training of young people and the progress of the natural sciences. Without your support, this study would never be realised. Long life to RSGF.