

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	Atilla Ferregueti
Project title	Density estimates of four Primates species in the Vale Natural Reserve, Espirito Santo state, Brazil
RSG reference	19753-1
Reporting period	From 05 September 2016 to 05 September 2017
Amount of grant	£ 4200
Your email address	atilla.ferregueti@gmail.com
Date of this report	12 September 2017

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
To estimate of the four species of Primates (i.e. the Crested Capuchin – <i>Sapajus robustus</i> ; the Brown Howler – <i>Alouatta guariba</i> ; the Atlantic Titi – <i>Callicebus personatus</i> ; the Geoffroy's Tufted-ear Marmoset – <i>Callithrix geoffroyi</i>) that occur in the Vale Natural Reserve.				We estimated density of the four species as predicted. These data will be available in a scientific paper. After we publish the results, we will to give lectures towards the species conservation in the area.
To understand how these populations are structured and what are its relations with the different vegetation types of the reserve.				In addition to density, we estimated the group size for each primate species and the male / female ratio. Thus, it was possible to understand how these populations are structured.
To access the impacts that could affect these primate species in the Vale Natural Reserve.				To this end, we conclude that the main impacts to the species were poaching, loss of habitat through fragmentation and the outbreak of yellow fever in 2016. It remains to be understood how the outbreak of yellow fever has affected these populations.
To prepare action plans for the conservation of species.				With the results generated here, the preparation of the action plans for the species in the region was started. There is still room for understanding how some of these impacts affect populations. Only with this understanding will it be possible to implement action plans for effective conservation.

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

Two main unforeseen difficulties arose during the development of this project. One was not expecting a yellow fever outbreak that decimated the populations of primates around the state of Espírito Santo in 2016. This unexpected situation diverted our focus a bit to try to understand how these Vale Natural Reserve populations were being affected, how serious the damage would be from that outbreak. It was not possible to reach an effective conclusion with only 1 year. It will be necessary to continue monitoring these populations to infer some conclusion.

The second situation was the fact that in 2017 Brazil began to face the greatest crisis of all time in science, so resources were cut drastically. This was a challenge that we must work around to complete this first stage of the project.

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

1. Generate population estimates for these four species of primates that will contribute to their conservation in this important remnant of the Atlantic Forest. With these estimates, we will be able to initiate some measure for the conservation of these species in practice, counting with the help of the local community and the team that works in the Reserve.
2. Understanding the main impacts for these populations was important in seeking alternatives to conservation as well as ways to mitigate these impacts. The main impacts were: poaching, fragmentation of the habitat by the expansion of agriculture and the outbreak of yellow fever. Regarding poaching and fragmentation, it will be possible to rely on the local population to assist in the conservation of these species. Yellow fever will still need further study to understand how it has affected populations.
3. We managed to involve the local population in the conservation of these species. During this first stage, we did an extensive work of dissemination and awareness with the local community. It was very important to involve the community in this first stage and the results were positive. The community was interested and motivated to assist in conservation. It is important to continue to follow the local community to increasingly disseminate the importance of biodiversity and to conserve it.

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

As mentioned earlier, during this first stage of the project, which we carry out largely with the resources of the Rufford Foundation, we have been able to involve the local community directly in the conservation of the species. Extensive environmental education and awareness-raising efforts were carried out to conserve biodiversity. The local community, mainly children and young people, were motivated to help and assist in the cause. In addition, it was demonstrated during lectures on environmental education, how biodiversity could bring benefits to the local community through eco-tourism and ecosystem services.

5. Are there any plans to continue this work?

Yes, the plan is to continue this monitoring for at least 5 years. Only then will we be able to implement some of the proposed conservation measures.

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

1. Presented the result on national and international scientific meetings.
2. Published in scientific journals (two manuscripts are being prepared): One manuscript will be submitted to the "International Journal of Primatology" will aim to report the populations status of the four primate species, the other manuscript will aim to show the impact of poaching in the primates populations and will be submitted to "Biological Conservation" journal.
3. Coverage from local media (such as television, newspaper and adventure magazine).
4. Invite other researcher to conduct collaboration research and conservation activities.

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

As indicated in the "Notes to Budget" section of the "RUFFORD application form" the RSG grant was used mostly to pay for monthly travel expenses, from October 2016 to August 2017, totalling 11 trips at the cost of about £359.55 each one.

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
Transportation to get to the reserve	£3,000	£3020	£-20	We exceed £ 20 on the planned budget. These £ 20 were exceeded due to the increase in airline rates in Brazil. (BA-£250 per excursion totalling 12 monthly excursions) (AA-£274.55 per excursion totalling 11 monthly excursions)
Food during the fieldwork days	£1050	£951	£+100	
Gasoline for transportation inside the reserve	£150	£0	£+150	The grant awarded by the Rufford Foundation was not used for gasoline, as we got support from Vale Natural

				Reserve for this.
Lectures cost	£0	£ 245	5	We need to include some spending on the logistics of the lectures delivered with the students of the local schools.
Total	£4200	£4215	£-15	

Exchange rate at the day of the bank transaction: 4.35 \$ Brazilian Real = 1.00 £ sterling pound

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

It's important to talk to government and local authority to promote and enhance forest protection of the Vale Natural Reserve and all fragments of Atlantic Forest in the area through better surveillance. The Linhares-Sooretama Block of Atlantic Forest which the Vale Natural Reserve constitutes about 40%, its represent a great portion of the unique and endemic flora and fauna of the Atlantic Forest.

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

Yes, we have included thanks to the Rufford Foundation in the oral and written presentations of the project, and in the drafts of the scientific papers that will be soon submitted to the scientific journals. We include the Rufford Foundation logo in all lectures. We also will print the logo in the conservation action plan.

11. Please provide a full list of all the members of your team and briefly what was their role in the project.

Juliane Ribeiro - Master student in the ecology program of the Rio de Janeiro State University - Juliane helped in the realization of transects, no work it is possible alone and she was very helpful during the fieldwork.

Fabiana Cassar - Master student in the ecology program of the Rio de Janeiro State University - Fabiana also helped in the realization of transect during the fieldwork.

12. Any other comments?

We would like to thank the Rufford Foundation for the financial support. The RF grant has been essential to fund the monthly excursions to the Vale Natural Reserve, since currently Brazil does not have any money to assist students in their field trips, and there is no public transportation to the reserve. I am very proud to interact with the Rufford Foundation. Thank you for helping young researchers like me in their mission to contribute to the conservation of biodiversity around the world!