

Final Evaluation Report

Your Details	
Full Name	Simón Pineda Cendales
Project Title	Vocal parameters of Megaptera novaeangliae as fundament for the evaluation of soundscape and marine mammals' threats in PNN Uramba- Bahía Málaga, Colombia.
Application ID	32269-1
Date of this Report	06-06-2022

1. 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
Identify the characteristics of <i>M. novaeangliae</i> 's vocal behaviour in Uramba-Bahía Málaga National Park on the Colombian Pacific				
Characterize and identify the vocal behaviour of the species' individuals according to the group they belong to				
Establish the variation between individual and temporal vocalizations, characterize and preliminarily evaluate the marine soundscape and the effects of anthropogenic sounds.				

2. Describe the three most important outcomes of your project.

The three most important outcomes of my project are:

- a).** The characterisation of the vocalisations of humpback whales in an important reproductive Pacific site.
- b).** The initial characterisation of the soundscape of Bahía Málaga in the Colombian Pacific Ocean.
- c).** The results that I can show and work with the communities, to help them understand a little bit more of the species they normally work with, and eventually improve the ecotourism processes between the local communities and the humpback or other marine mammals.

3. Explain any unforeseen difficulties that arose during the project and how these were tackled.

At the beginning of the field phase I was going to stay in the Natural National Park cotten located in Ladrilleros, the day of the arrival to the study area there was some threats to the park workers by some armed illegal groups and we had to make contact, organise and find a new way to stay in the house of a member of the community for the development of the project. During the field phase the

hydrophone failed so we had to use another artisanal-made hydrophone that worked well (for the few days that we used it) for the project.

At the university where I am studying my co-investigator Juan E. Carvajal brought us a course of morphometric analysis for bioacoustics data with two incredible people Dra María Cristina Mac Swiney González and Dra Sandra Ospina Garcés, they both helped me to understand a field that was not in my head at the time of the data analysis, but has the potential of being a huge theoretical, new and exciting field that I could work, and potentially apply to my data.

4. Describe the involvement of local communities and how they have benefitted from the project.

The Afro-descendant leaders gave us the permission to work with the community and in the area, this year we are about to show them the results, organising some workshops and explaining them some other part that they know about a lot of time ago of the species they work with, but in a different visual way, something that they could work and make environmental educations in their ecotourism processes.

5. Are there any plans to continue this work?

In the future I'm planning to keep on working with not just humpback whale but maybe some other cetacean species, but for now I'm finishing a huge step in my life, career and academical-development.

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

Through scientific articles, community workshops and national or international expositions.

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

The most important step is that the community understands the importance (not only in an environmental but in an economic way for them) of the good use of the resources and of the damage that they probably could make to the population of the humpback whale if they don't do a responsible tourism.

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

For the moment I have used the Rufford Foundation logo for presentations at my university. I'm planning on using the logo for presentations at the bioacoustics congress in October 2022 in Colombia and the SOLAMAC in Brazil in 2022.

9. Provide a full list of all the members of your team and their role in the project.

Simón Pineda Cendales: Lead investigator, responsible for the field phase, and data analysis.

Juan E. Carvajal Cogollo: Co-investigator, has made some important contacts with bioacoustics top investigators and is currently looking forward to making some collaborations in the writing process with international experts.

Isabel C. Ávila: Co-investigator, she is currently working and helping at some days in the field phase and data collect.

Moisés Pretel: He is the captain of the boat that helped us to drive the boat and collect the data.

Alex Pretel: He is another driver of the boat, he helped us some field days.

10. Any other comments?

Thank you for the grant, I'll keep you updated once I publish the article(s).