

The Rufford Small Grants Foundation

Final Report

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

We ask all grant recipients to complete a Final Report Form that helps us to gauge the success of our grant giving. 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. 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	Inti Keith
Project title	Marine Invasive Species in the Galapagos Marine Reserve
RSG reference	14716-1
Reporting period	2014
Amount of grant	£6000
Your email address	iazkennedykeith@dundee.ac.uk
Date of this report	13/01/2015

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
Literature review of all invasive species in the GMR			X	
Monitoring surveys in five ports of the islands			X	
Spatial distribution of marine invasive species established in GMR			X	
Distribution maps and sensitivity maps combined with marine traffic			X	
Workshops with local government institutions and national park guides			X	
Risk categorisation for incoming ships from ETP		X		This has been completed but I am still working on more data that I just received
Rapid response protocols		X		These have been written but I am waiting till after the workshop I'm holding with local institutions in order to add any comments
International Workshop on Marine Bioinvasions of Tropical Island Ecosystems		X		This workshop will take place between the 24 th and 27 th of February 2015.

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

The remote locations of some of the dive sites made the logistics sometime challenging and expensive but with the support of fellow colleagues and the support of this fund these locations were explored and the project was successful

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

1. Identifying and mapping the distribution of marine invasive species in the GMR and identifying the species that could cause problems if a new introduction occurred.
2. Working with and training local government institutions personnel in monitoring and sampling techniques. This training has helped local institutions open new departments such as the marine invasive species department that the Ecuadorian Biosecurity Agency (ABG) counts with now.
3. Planning and running the first international marine bioinvasion workshop in the Galapagos Islands with renowned international scientists, national and local heads of government

institutions. This workshop will have an action plan of how to deal with marine invasive species in the GMR and help formulate a draft of regulations for the GoE to use. Another outcome this workshop will produce is a scientific paper in a renowned journal.

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

The local community has got involved in workshops and open houses that have been held. 500 national park guides were trained for the first time on marine invasive species in the GMR, each guide was given factsheets of each species. A local open house is going to take part during March 2015 with local school children that will be helping in the monitoring of one species on one of the local beaches. These types of events help spread the knowledge of the dangers marine invasive species can cause.

5. Are there any plans to continue this work?

Yes, I will be continuing this work. My plan is to keep working with the local institutions and to spread the knowledge that we have gathered in Galapagos to other islands in the ETP after I present my PhD thesis.

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

Presentations in local, national and international conferences and workshops, scientific papers and my PhD thesis

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

The RSG was used in the middle of the project during the heavy fieldwork stage. It worked exactly as anticipated.

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
Travel expenses	2000	2267.56	267.56	On my way to the UK I went to Mystic Connecticut to meet with Dr Jim Carlton (expert in marine bioinvasions)
Equipment	2000	1723.73	-276.27	Dive equipment and field materials
Fieldwork	2000	2484.47	484.47	The price of boats goes up every year which made me go over budget
TOTAL	6000	6475.76	475.76	

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

1. Continuing communication with local authorities.
2. Continue doing port monitoring to detect new marine invasive species.

3. Continue monitoring hotspots found around the GMR.
4. Continue to work with the boating community to raise awareness of how easy it is to move one species from one region to another.
5. Work with other islands in the ETP.

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

Yes RSGF logo was used in:

1. Presentation in the IMMCC3 marine congress in Glasgow August 2014.
2. Presentation at MASTS marine workshop in Edinburgh September 2014.
3. CDF Facebook page.
4. Informative posters and presentations that have been done locally in the Galapagos.

11. Any other comments?

Thank you for the support.