

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	Anya Ratnayaka
Project title	Ecology and Behaviour of Fishing Cats in Urban Habitats of Sri
	Lanka
RSG reference	13033-1: Ecology and Behaviour of Fishing Cats in Urban Habitats
	of Sri Lanka
Reporting period	2013-2014
Amount of grant	£6000
Your email address	anya.ratnayaka@gmail.com
Date of this report	28/03/14



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

	Not	Partially	Fully	
Objective	achieved	achieved	achieved	Comments
Understand the	X			Unfortunately we were unable to get the
ecology and				relevant amount of data required to
behaviour of				develop these plans during the 1-year study
fishing cats in				period. Please refer question 2 below for
urban habitats				more information.
to develop				more imormation.
conservation				
plans for urban				
·				
sanctuaries.				After and size the CDC data and the old from
Determine how		Х		After analysing the GPS data retrieved from
top carnivores				the collared cat, we assume that urban
adapt to their				fishing cats are quite adapted to human-
ecology and				dominated landscapes. Our collared cat
behaviour in				used storm drains, culverts and canals to
human-				move from one area to another. It also
dominated				spent days in empty lots and small pockets
landscapes.				of habitat (paddy fields, patches of wetland)
				and even large gardens in highly residential
				areas in the city.
Provide		Х		We were able to collar one problem fishing
information for				cat (a chicken thief) which was translocated
translocated				and released at the study site. During the 3
predator				months that the collar was on the cat, we
management				found that the cat moved over a large area
(fishing cats				without establishing a territory. More data
released after				from resident/translocated cats is needed
rehabilitation).				to compare movement patterns between
				the two groups.
Create better	Х			Data from this cat indicates that the
guidelines for				translocated cat was able to move freely
the				through the urban landscape, though it did
translocation				not establish a territory. Observational data
and				shows that there are other fishing cats in
conservation of				this area. However, more data from
conflict				additional collared animals is needed to
animals.				
				eventually establish a territory. We will
				continue to collect additional data from
				both residential and translocated animals to
				confirm these behaviours.
Create a green	Х			The data collected from the collared cat
city for green				shows that fishing cats use green passages
urban				to move through this highly urban



development, which in turn will help maintain healthy habitat biodiversity.		landscape. With additional data from a larger group of collared cats, we will be able to make better recommendations to the SLRDC on this matter.
Develop the concept of an urban BioParks as a forum for conservation awareness and education, and for the conservation of biodiversity and ecological services.	X	We have had meetings with the Sri Lanka Land Reclamation and Development Corporation (SLRDC) and the World Bank at which we addressed the importance of these BioParks and green areas. They seemed interested in the concept, and the SLRDC has even asked us to assist in creating a BioPark at the Diyawanna Oya wetland within the next year.

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

- a. After our collars arrived and just prior to releasing our problem fishing cat (a chicken thief ready for collaring and translocation) at our study site, the Attidiya Marsh, we learned that the marsh was under severe threat. The SLRDC under government instruction from the Urban Development Authority and the Ministry of Defence and Urban Development had started to clear the wetland sanctuary for flood control purposes. Due to the sudden influx of heavy machinery clearing and digging up the wetland, we decided that it was in the best interest of our study animals not to continue the research at this location. As a result we had to spend a few weeks looking for a suitable release site, and eventually settled on the Sri Jayawardenapura Sanctuary, which was a confirmed fishing cat habitat.
- b. However, just 3 weeks after our translocated cat was released, we were asked to halt all trapping and collaring operations. The Director General (DG) of the Department of Wildlife Conservation (DWC) contacted us and informed us that the collared cat needed to be removed from the release site, stating that we had released a dangerous animal in the area. Due to Commonwealth Heads of Government Meeting 2013 (CHOGM) starting a few weeks after the cat was released, the DG claimed that we had released a leopard that would potentially be a security risk to CHOGM delegates. Despite us providing evidence of fishing cats already existing in the area, we had to stop all work for 2 months till tensions died down.
- c. At the next DWC research committee meeting in December 2013, we submitted a request asking that our study site be changed from Attidiya to Sri Jayawardenapura. The research committee approved this, but the DG revoked their approval. This news was conveyed to us a month and a half after the research committee met, losing us precious time. As a result we have been forced to set traps in Attidiya, despite it being cleared for flood control.



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

- a. After observing the cat we have collared thus far, we can safely assume that fishing cats move through human-dominated landscapes quite efficiently. Our cat used the culverts, storm drains, green passages and empty lots that dot Colombo to navigate from one pocket of habitat to another. The cat was even recorded crossing main roads and junctions in the middle of highly urbanised towns in the early hours of the morning. By collaring more cats we can get a better idea of how these animals survive in these landscapes and work on conserving what now appear to be tiny yet vital pockets of habitat within cities.
- b. During the course of the study period we were able to have a few meeting the SLRDC, during which we addressed the importance of BioParks and green areas. We not only touched upon the necessity to protect an endangered species as well as other wildlife living within these wetlands, but also discussed how vital wetlands were to the area as a natural flood control mechanism. Officials at the SLRDC seemed interested in the information we provided and have even decided to create a BioPark. In turn, we have offered to train guides on the wildlife found in the wetlands and also teach them how to conduct eco tours through the wetland once the BioPark has been constructed.
- c. We conducted a few lectures at local schools in Colombo to educate students on the four species of wildcat found in the country (Sri Lankan leopard, fishing cat, jungle cat and rusty-spotted cat). Many students had never heard of any of the cats except for the leopard and were extremely interested in learning more about them. During these lectures we spoke about the importance of each species, as well as the threats faced by. We also spoke about the fishing cat collaring project, and showed students maps, collars and photographs of fishing cats.

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

We have had a few lectures in schools in Colombo, talking about the importance of urban fishing cats and informing them of what is currently happening to their habitats. We also talked about the importance of these wetland habitats, not only to the wildlife residing within them, but also to the ecosystem in general.

5. Are there any plans to continue this work?

Yes, we do plan on continuing this work in the future. It's important to gather as much data as we can on these cats for not only the scientific community, but also for the conservation of this species in Sri Lanka.

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

Our results will be shared through online publications, newspaper and magazine articles, and once we have collected more data we will submit a paper to a number of peer-reviewed journals. We will also continue having lectures for the general public and the conservation community here in Sri Lanka.



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

The funding received from RSG was used throughout the study period, with the bulk of the funding spent on purchasing tracking equipment. Unfortunately, due to the high costs of the collars we were unable to buy three, and were only able to purchase two. The rest of the money was used throughout the year to pay for the development of traps and for the transport of researchers to and from the study site.

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.

Exchange Rate as of 19/11/2012 (when applying for funding): 1 GBP = 206 LKR

Exchange rate 28/03/2013: 1 GBP = 191.94 LKR

Total received from RSGF: 5,887.74 GBP

The following table (actual amount and difference) uses the exchange rate of 28/03/2013: 1 GBP = 191.94 LKR

Item	Budgeted Amount RSGF (£) <u>1</u> GBP = 206 LKR	Actual Amount (£)	Difference (£)	Comments
2 Lotek Wildcell SLG collars	3146	3,365.69	+ 219.69	1 GBP @ 192.05 LKR The final collar price was slightly higher than we budgeted for.
2 Lotek TRD drop- offs	0	547.82	+ 547.82	1 GBP @ 192.05 LKR We were informed by the Lotek team that the drop-offs were charged separately from the collars.
1 Lotek Ground station	472	489.62	+ 17.62	1 GBP @ 192.05 LKR The final ground station price was slightly higher than we budgeted for.
1 Lotek GPS handheld command unit	1809	0	0	After a final consultation with Lotek, we learned that we did not require a command unit for the equipment that we purchased.
1 Lotek DL4 cable	283	308.15	+ 25.15	1 GBP @ 192.05 LKR The final DL4 cable price was slightly higher than we budgeted for.
1 Lotek Torque wrench	173	188.31	+ 15.31	1 GBP @ 192.05 LKR The final torque wrench price was slightly higher than we



				budgeted for.
Yagi, 25' cable and	0	599.19	+ 599.19	1 GBP @ 192.05 LKR
R-1000 receiver				With the remaining funds we
				were able to purchase this
				equipment.
Courier charges for	88	158.36	+70.36	1 GBP @ 192.05 LKR
Lotek equipment				Paid for the equipment courier
				charges with the remaining
				RSGF funds.
Courier charges for 3	0	26.13	+ 26.13	Used the remaining RSGF
SIM cards to Lotek				funding to cover these costs.
Canada				
Bank commission	0	20.36	+ 20.36	Used the remaining RSGF
charges on TT's sent				funding to cover these costs.
to RSGF and Lotek	_			
Travel costs during	0	32.87	+ 32.87	Used the remaining RSGF
the study period			0.07	funding to cover these costs.
Printing & binding	0	9.97	+ 9.97	Used the remaining RSGF
cost of 352 pages				funding to cover these costs.
(PDF) Fishing Cat				
documents	0	F2 40	. 52.40	Head the management BCCF
1 Trap cage	0	52.10	+ 52.10	Used the remaining RSGF
TOTAL	F074	F 700 04	4626 57	funding to cover these costs.
TOTAL	5971	5,798.81	1636.57	We have 88.93 GBP (5,887.74 –
	(according			5,798 = 88.93) left from the RSGF funds. With this
	to the budget			
	submitted			remaining money we plan on
	to RSGF)			constructing two more trap
	io kadrj			cages.

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

- a. Collaring more cats in and around Colombo's wetlands. We need to understand more about the species and how they behave in urban environments.
- b. Collaring cats in wild habitats and comparing them with those found in urban settings to understand any differences in behaviour.
- c. Most people we have come across have no idea what fishing cats are, and are surprised that such a large cat roams around Colombo. Therefore, we plan on conducting more education and awareness programs for the general public.
- d. Working more closely with the SLRDC and the DWC to come up with conservation plans for the species and their habitat. We also hope to push the SLRDC to carry out their plan to create BioParks and keep green areas for conservation.

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?

We did use the logo for presentations used in the wildcat awareness programmes that were conducted at a few schools in Colombo. During these programs we spoke about the four wild cats



found in the country, their ecology, their importance, and the threats they face, along with other conservation issues. We also spoke about the importance of urban fishing cats and about the research that we are undertaking.

The logo was also used on ranging maps created from the GPS data obtained from the collars.

RSGF received publicity in the newspaper articles (http://www.sundaytimes.lk/130929/plus/a-chance-to-survive-and-thrive-63769.html) that were published in September 2013, highlighting the project and its importance to the general public.

11. Any other comments?

We would just like to thank RSGF for their support in this project. Without your support we would not have been able to start this ground-breaking research project, which we believe would pave the way towards the conservation of this endangered species as well as their threatened habitats in Sri Lanka and throughout the rest of its worldwide range.