

## 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](mailto:jane@rufford.org).

Thank you for your help.

**Josh Cole, Grants Director**

#### Grant Recipient Details

<b>Your name</b>	Ryan Phillips
<b>Project title</b>	Tracking the enigmatic Solitary Eagle ( <i>Buteogallus solitarius</i> ) via satellite GPS transmitters in Belize
<b>RSG reference</b>	12856-1
<b>Reporting period</b>	30 January 2014- 31 July 2014
<b>Amount of grant</b>	\$8409
<b>Your email address</b>	belizeraptorresearch@gmail.com
<b>Date of this report</b>	17 June 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
Preservation of the land at this solitary eagle nest		X		Currently working with Programme for Belize, a non-profit in Belize, to get back taxes paid off, so they can keep this land and turn it into the first Solitary Eagle Reserve. Currently working with land acquisition groups to help pay off taxes.
Developing conservation community and heightening biodiversity appreciation through education.			X	From this project we have reached out to the surrounding communities through educational talks. We visited over 10 schools and talked to over 500 children. We hired a Belizean Project Coordinator and have given Belizean opportunities to be part of the research and conservation efforts, as well as foreign students.
To radio-tag an adult or juvenile solitary eagle	X			The pair did not nest in 2013 when suspected therefore we were not afforded an opportunity to radio-tag. The pair nested in 2014 and had single young, but in an area that was not accessible due to steep terrain. We will attempt to reach the area to trap the juvenile from this nest.
Obtain critical information on the solitary eagle			X	From 2013-2014, we monitored this nest-site with over 500 observation hours. We learned about their nesting cycle, which is critical for a conservation action plan. We gained valuable information on habitat usage, prey, breeding biology, and behaviours.
Informing the scientific community about the Solitary Eagle			X	We will be presenting a poster at the 2014 Raptor Research Foundation Conference in Texas on the Solitary Eagle.

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

There were quite a few difficulties with this project, but they were not unforeseen. In regard to bird research, specifically neotropical raptor research, there are many challenges that a researcher faces when collecting data on a rare and elusive species, such as the solitary eagle. The main difficulty was the timing of the nesting season to radio-tag an adult or juvenile. We suspected this species nested every other year at best, which was the case, but the pair we were studying did not nest in 2013 when we expected them to. This was due to apparently the mate of the female dying. Therefore, this pair did not nest until 2014, of which they did not nest in the 2011 nest, but instead nested 1 km from this nest in 60% slope that was inaccessible. Therefore, we have been unable to radio-tag a

solitary eagle. We will continue to monitor this pair and search for other pairs, as one other nest site has been located. If the nest is in an accessible area, we will then attempt to trap an individual.

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

- 1) Locating the only known active nest of the species and describing the first information on the breeding biology of the species.
- 2) Educating the local community on raptor research and conservation and giving over 30 national and international people experience in research methods and monitoring this nest site.
- 3) Presenting a poster at the 2014 Raptor Research Foundation Conference on the nest-site characteristics and prey of the solitary eagle.

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

Many local guides and training biologists participated in this research effort and obtained critical field experience and learned about raptor research and conservation. Also, outreach was done at local schools to over 500 students inspiring the next generations of conservationists.

**5. Are there any plans to continue this work?**

Yes, we will continue to monitor this pair and search for other pairs in the Mountain Line Ridge region of Belize and attempt to radio-tag an individual. Our education outreach will continue throughout Belize to reach many communities to share with them raptors and conservation.

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

We have already shared our work by presenting a poster at the 2014 Raptor Research Foundation Conference in Corpus Christi, Texas. We are currently working on a manuscript on the nesting biology and prey of the solitary eagle. Once we radio-tag an individual we will have live maps showing movements of the individual to gain interest in our work and for the first time share the movements of this enigmatic neotropical forest eagle.

**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 over the past 2 years, starting in 2013 and is still being used. A transmitter was purchased, so we are in the process of trying to tag an individual. We anticipated that we would have an individual radio-tagged by now, but due to the nesting site and lack of nesting in 2013 we have not had an opportunity to attempt trapping. We knew this was going to be a challenging endeavour and even more so if they did not nest where we expected them to.

**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
GPS Transmitter	2,500	2,637	-137	Tax, and Shipping and handling was more than

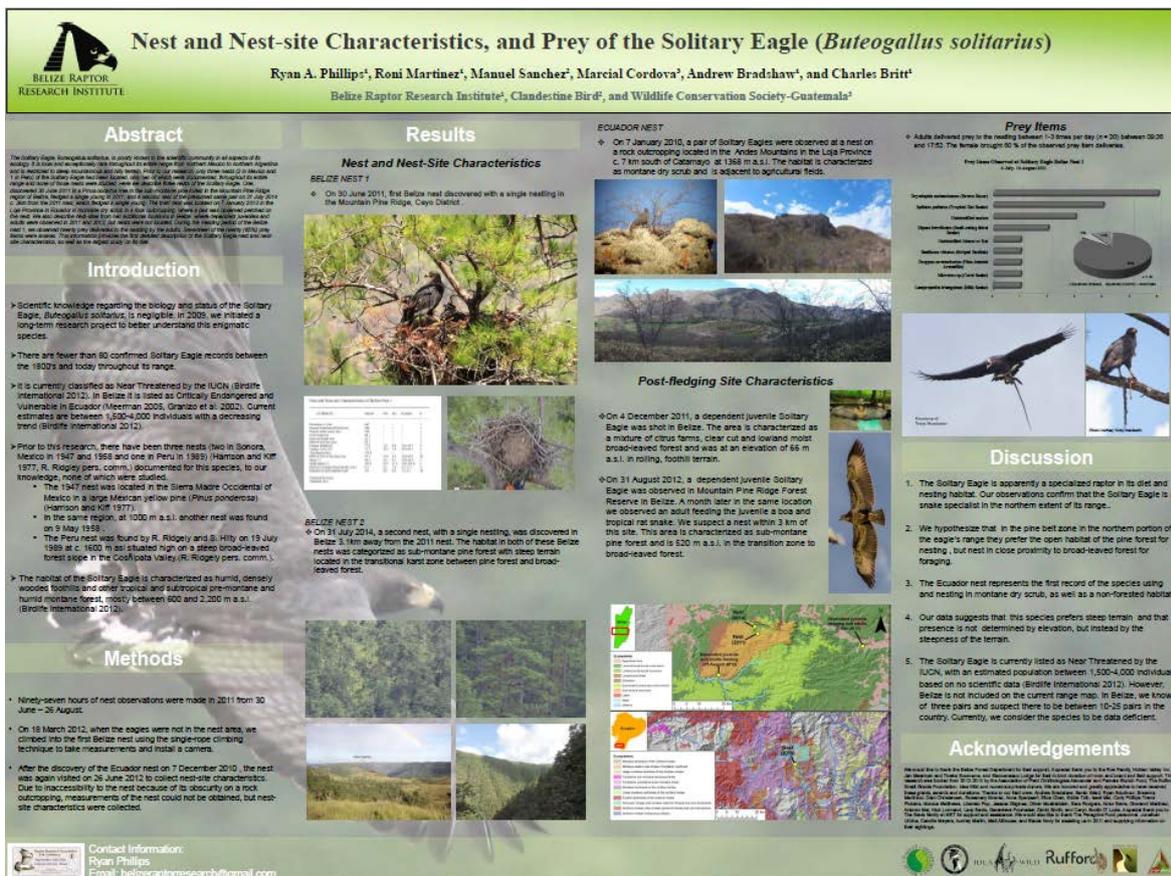
				anticipated
Transmitter data and refurbishment	2,919	517.73	2,401.27	We have not yet fitted a Solitary Eagle with a transmitter, so have not used the data monies yet.
<b>TOTAL</b>	<b>5,419</b>	<b>3,154.73</b>	<b>2,264.27</b>	

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

Locate an accessible nest of the solitary eagle, so that we can attempt to trap an individual.

### 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, we included the RSGF logo on our poster for the Raptor Research Foundation conference in Corpus Christi, Texas, USA in September 2014. We also displayed the logo and mentioned the support by RSGF in over 10 talks we gave to various groups on the Solitary Eagle Project.



**Nest and Nest-site Characteristics, and Prey of the Solitary Eagle (*Buteogallus solitarius*)**  
Ryan A. Phillips<sup>1</sup>, Roni Martinez<sup>2</sup>, Manuel Sanchez<sup>2</sup>, Marcial Cordova<sup>3</sup>, Andrew Bradshaw<sup>4</sup>, and Charles Britt<sup>5</sup>  
Belize Raptor Research Institute<sup>1</sup>, Candelaria Bird<sup>2</sup>, and Wildlife Conservation Society-Guatemala<sup>3</sup>

**Abstract**  
The Solitary Eagle (*Buteogallus solitarius*) is a poorly known raptor in the neotropics. In Belize, it is listed as Critically Endangered and Vulnerable in Ecuador (Meenan 2005, Granois et al. 2002). Current estimates are between 1,500–4,000 individuals with a decreasing trend (BirdLife International 2012).  
Prior to this research, there have been three nests (two in Bolivia, Mexico in 1947 and 1958 and one in Peru in 1989) (Harrison and Kirt 1977, R. Ridgely pers. comm.) documented for this species, to our knowledge, none of which were studied.  
• The 1947 nest was located in the Sierra Madre Occidental of Mexico in a large Mexican yellow pine (*Pinus ponderosa*) (Harrison and Kirt 1977).  
• In the same region, at 1000 m a.s.l., another nest was found on 9 May 1958.  
• The Peru nest was found by R. Ridgely and S. Hilly on 19 July 1989 at c. 1600 m a.s.l. situated high on a steep broad-leaved forest ridge in the Cordillera Valley (R. Ridgely pers. comm.).  
The habitat of the Solitary Eagle is characterized as humid, densely wooded topographic and/or a mixed pine-montane and humid montane forest, mostly between 600 and 2,200 m a.s.l. (BirdLife International 2012).

**Introduction**  
Scientific knowledge regarding the biology and status of the Solitary Eagle (*Buteogallus solitarius*) is meagre. In 2009, we initiated a long-term research project to better understand this enigmatic species.  
There are fewer than 80 confirmed Solitary Eagle records between the 1920s and today throughout its range.  
It is currently classified as Near Threatened by the IUCN (BirdLife International 2012). In Belize it is listed as Critically Endangered and Vulnerable in Ecuador (Meenan 2005, Granois et al. 2002). Current estimates are between 1,500–4,000 individuals with a decreasing trend (BirdLife International 2012).  
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**Methods**  
Ninety-seven hours of nest observations were made in 2011 from 30 June – 28 August.  
On 18 March 2012, when the eagles were not in the nest area, we climbed into the first Belize nest using the single-rope climbing technique to take measurements and install a camera.  
After the discovery of the Ecuador nest on 7 December 2010, the nest was again visited on 26 June 2012 to collect nest-site characteristics. Due to inaccessibility to the nest because of its obscurity on a rock outcropping, measurements of the nest could not be obtained, but nest-site characteristics were collected.

**Results**  
**Nest and Nest-Site Characteristics**  
On 30 June 2011, first Belize nest discovered with a single nestling in the Mountain Pine Ridge, Caye District.  
On 31 July 2014, a second nest, with a single nestling, was discovered in Belize, 5 km away from the 2011 nest. The habitat in both of these Belize nests was categorized as sub-montane pine forest with steep terrain located in the transitional karst zone between pine forest and broad-leaved forest.  
On 7 January 2010, a pair of Solitary Eagles were observed at a nest on a rock outcropping located in the Andes Mountains in the Loja Province c. 7 km south of Cotacachi, at 1368 m a.s.l. The habitat is characterized as montane dry scrub and is subject to agricultural fires.  
On 4 December 2011, a dependent juvenile Solitary Eagle was shot in Belize. The area is characterized as a mixture of citrus farms, clear cut and lowland moist broad-leaved forest and was at an elevation of 66 m a.s.l. in rolling, foothill terrain.  
On 31 August 2012, a dependent juvenile Solitary Eagle was observed in Mountain Pine Ridge Forest Reserve in Belize. A month later in the same location we observed an adult feeding the juvenile a boa and tropical rat snake. We suspect a nest within 3 km of this site. This area is characterized as sub-montane pine forest and is 520 m a.s.l. in the transition zone to broad-leaved forest.

**Prey Items**  
Adults delivered prey to the nestling between 1–3 times per day (n=30) between 08:00 and 17:00. The female brought 60% of the observed prey items delivered.  
Prey Items (Number of Solitary Eagle Nests) (n=30)

Scrubwren (Greenish Tanager)	1
Scrubwren (Yellow-billed)	1
Scrubwren (Black-winged)	1
Scrubwren (Black)	1
Scrubwren (White)	1
Scrubwren (Grey)	1
Scrubwren (Red)	1
Scrubwren (Blue)	1
Scrubwren (Purple)	1
Scrubwren (Orange)	1
Scrubwren (Green)	1
Scrubwren (Yellow)	1
Scrubwren (Pink)	1
Scrubwren (Brown)	1
Scrubwren (Black)	1
Scrubwren (White)	1
Scrubwren (Grey)	1
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Scrubwren (Grey)	1
Scrubwren (Red)	1
Scrubwren (Blue)	1
Scrubwren (Purple)	1
Scrubwren (Orange)	1
Scrubwren (Green)	1
Scrubwren (Yellow)	1
Scrubwren (Pink)	1
Scrubwren (Brown)	1
Scrubwren (Black)	1
Scrubwren (White)	1
Scrubwren (Grey)	1
Scrubwren (Red)	1
Scrubwren (Blue)	1
Scrubwren (Purple)	1
Scrubwren (Orange)	1
Scrubwren (Green)	1
Scrubwren (Yellow)	1
Scrubwren (Pink)	1
Scrubwren (Brown)	1
Scrubwren (Black)	1
Scrubwren (White)	1
Scrubwren (Grey)	1
Scrubwren (Red)	1
Scrubwren (Blue)	1
Scrubwren (Purple)	1
Scrubwren (Orange)	1
Scrubwren (Green)	1
Scrubwren (Yellow)	1
Scrubwren (Pink)	1</