



Submit by Monday 30 January 2012

**DARWIN INITIATIVE APPLICATION FOR UK OVERSEAS TERRITORIES CHALLENGE FUND:  
Round 18**

Please read the Guidance Notes before completing this form.

<b>1. Name, postal address and contact details of applicant organisation and main individual:</b> (notification of results will be by email to this individual)  Dr. Zoe G. Davies, Durrell Institute of Conservation and Ecology (DICE), University of Kent, Canterbury, Kent, CT2 7NR, UK  <b>E-mail address:</b> _____ <b>Phone:</b> _____	
<b>2. Working title/name of the proposed resulting Darwin project (not exceeding 10 words):</b>  Mapping the Falklands: facilitating systematic conservation planning and implementation	
<b>3. Proposed UKOT(s) involved</b>  Falkland Islands	<b>Other collaborating country/ies to be involved</b>  N/A

**4. Principals in Challenge Fund work**

(a) Please give the details of the main individuals who will be directly involved in the Challenge Fund award. Please copy the table if you require more space. CVs must be enclosed (max 1 page each).

Details	Main individual	2 <sup>nd</sup> individual
<b>Surname</b>	Davies	Smith
<b>Forename(s)</b>	Zoe	Robert
<b>Post held</b>	Lecturer in Biodiversity Conservation	Research Fellow in Biodiversity Conservation
<b>Department</b>	Durrell Institute of Conservation and Ecology (DICE)	Durrell Institute of Conservation and Ecology (DICE)
<b>Telephone</b>		
<b>Email</b>		

Details	3 <sup>rd</sup> individual	4 <sup>th</sup> individual
<b>Surname</b>	Parnell	
<b>Forename(s)</b>	Mark	
<b>Post held</b>	Ecological Mapping Consultant	
<b>Department</b>	en:mapping	
<b>Telephone</b>		
<b>Email</b>		

(b) Partners relevant to the Challenge Fund award. Please provide details below, plus letters of support. (These letters should express intention to collaborate, contribution to the Challenge Fund activity, endorsement of the proposed partnership, and the expected contribution of the proposed resultant Darwin project to the conservation of the biodiversity of the relevant UKOT(s).) If you are a UKOT applicant, with no partner, you should provide a letter from your own organisation addressing these issues as appropriate.

Details	Main project partner	Other partners
Organisation	Falklands Conservation	Environmental Planning Department, Falkland Island Government
Function/ Purpose of Organisation	The leading non-governmental organisation for biodiversity conservation in the Falkland Islands	Regulatory authority for the environment in the Falkland Islands
Name of Main Contact	Dr. James Fenton	Antony Payne/Nick Rendell
Post Held	Chief Executive Officer	Environmental Planning Officer

Details	Other partners	Other partners
Organisation	Department of Natural Resources, Falkland Island Government	
Function/ Purpose of Organisation	Regulatory authority for agriculture in the Falkland Islands	
Name of Main Contact	Andrew Pollard	
Post Held	Head of Agriculture	

5. Concept note for the Challenge Fund award (max 500 words). This question concentrates on what the current application is for and should demonstrate the objectives of the award including

- what work will be carried out under the award;
- the location and duration of this work;
- what you expect to achieve from receiving the Challenge Fund award;
- details of how you will monitor and evaluate the work (reporting requirements for this fund are in the process of being finalised).

**Objective:** Assess the feasibility of producing a landcover/vegetation map for the Falkland Islands, which will underpin a full Darwin Initiative project application.

**Work to be conducted:** The aims of this award are to:

- Hold stakeholder workshops (e.g. with the British Forces South Atlantic Islands, Falkland Island Government departments which are not already project partners) and establish project partner relationships.
- Work with stakeholders to get full agreement on which vegetation types of conservation interest need to be mapped.
- Collect all relevant Geographic Information System (GIS) data (e.g. aerial/satellite imagery) from stakeholders (developing data sharing/use agreements together where necessary) and international data repositories.
- Undertake preliminary GIS analysis to begin mapping the different landcover/vegetation

types across the islands, using training data (comprising existing information, such as Important Plant Area maps, or collected via field visits).

- Ground-truth sample sections of the newly generated GIS landcover maps, against a second sample of the training data. Where relevant, calibrate/refine landcover classification algorithms to improve mapping accuracy.
- Discuss the potential for mapping socio-economic and conservation implementation data, to increase the effectiveness of current/future conservation land-use planning.
- Develop a full DI proposal between the project partners which, if funded, would result in the generation of a complete landcover/vegetation map and the initiation of a systematic conservation planning project for the Falkland Islands.

**Why this is important:** Conservation planning/management in the Falkland Islands is severely hampered by the lack of a landcover/vegetation map to inform decision-making. With the human population inhabiting the islands expanding, growing tourism, oil exploration, intensive near-shore fisheries and climate change, such a fundamental resource is required to underpin the designation of protected areas, design effective conservation initiatives in the wider landscape and deliver accurate environmental impact assessments. The project is low-risk. However, without scoping the availability/resolution/quality of the various sources of spatial data, it is difficult to correctly estimate how much time, what resources and analytical approaches would be needed to generate a digital landcover map for the islands (total area ~12,000 km<sup>2</sup>). Furthermore, this project would allow us to identify gaps in the available socio-economic and conservation implementation data. The outcomes of this project will be, therefore, instrumental in guiding the development of a full Darwin proposal.

**Location and duration:** The project would commence in May 2012 for ten months. Dr. Davies and Dr. Smith will visit the Falklands in June 2012, and Dr. Davies will travel back to the islands in January 2013. GIS analyses will take place in the UK. Falklands Conservation staff will conduct the in-country field-visits for ground-truthing.

**Monitoring and evaluation:** The project will be overseen by the principal leaders and partners. A timetable of targets to be met throughout the project will be produced on award of the grant, and reviewed quarterly to monitor progress, to ensure outputs are delivered in a timely manner. The work will be evaluated on the basis of a scientific report detailing the feasibility of generating a landcover/vegetation map for the entire area of the Falkland Islands.

**6. Concept note for resultant project (max 500 words). This question concentrates on the full Darwin application you intend to submit after the Challenge Fund award and should demonstrate:**

- **Expected purpose and outputs of the resultant Darwin project**
- **How the resultant Darwin project would meet a need (and how this need was defined) in the UKOTs and help the territory/ies in its implementation of any or all of the following Conventions: the Convention on Biological Diversity (CBD)/Convention on Migratory Species (CMS)/Convention on International Trade in Endangered Species (CITES).**
- **Brief evidence of the proposed partners' intentions to collaborate in the Challenge Fund award and an outline of their expected role in the resultant Darwin project: include brief details of contact to date and planned ongoing collaboration. This would normally be supported by a letter or email of support, which may present the majority of this evidence.**
- **The expected role of the UKOTs and other UK expertise in the resultant Darwin project**

**Expected purpose/outputs:** The full Darwin project would:

- Generate a complete landcover/vegetation map for the Falkland Islands.
- Undertake a fully integrated terrestrial and marine systematic conservation assessment for the Falkland Islands, using the landcover/vegetation map and incorporating socio-economic and conservation implementation data.
- Incorporate the findings from the conservation assessment into the Falkland Islands 'Protected Area Strategy', which will support the Falklands in meeting existing international conservation commitments.
- Work with stakeholders to ensure the outputs of the conservation assessment are implemented effectively.
- Train Falklands Conservation staff to use conservation planning software programmes (e.g. Marxan, CLUZ), so conservation planning in the islands can become an ongoing process, with assessments being carried out regularly when new/updated ecological, socio-economic and threat/risk information becomes available.

**Needs to be met:** Conservation efforts in the Falkland Islands are restricted by the lack of a landcover/vegetation map and systematic conservation planning. National Nature Reserves are currently the only designated protected areas, and were established opportunistically with little regard for globally threatened species/habitats. Similarly, there are no Marine Protected Areas despite the Falklands supporting internationally significant populations of seabirds and marine species. This project will thus aid effective protected area planning/management in the islands. This need was defined by the UK Overseas Territory project partners.

The programme of work would assist the Falkland Island and UK governments in meeting their international commitments under the CBD, CMS and CITES. The Falkland Islands government is working towards ratification of the CBD, and the project would directly address specific CBD initiatives (protecting island biodiversity; protecting marine and coastal biodiversity; taking an ecosystem approach; protected areas - see Article 7: Identification and Monitoring, and Article 8: *In-situ* Conservation). The CMS aims to conserve terrestrial, marine and avian migratory species throughout their range, and was ratified by the UK (including Overseas Territories) in 1985. Member states are committed to protect these species by conserving/restoring their associated habitats. Finally, the UK is a party to CITES, and the Falkland Islands honours that commitment. The islands provide permanent and/or seasonal habitats for 10 Appendix I species and 48 Appendix II species. While the project does not deal expressly with international trade, it may safeguard populations of traded species through the development of protected areas.

**Role/expertise of UKOT partners:** The partners listed in the Challenge Fund would fully support the Darwin Initiative project. Falklands Conservation has over 30 years of experience, monitoring and managing conservation activities on the islands. It also played a central role in the development of the 'Falkland Island Biodiversity Strategy', and has established working relationships with the Falkland Island government and other environmental NGOs with an interest in the islands. They will facilitate stakeholder engagement, in-country data collection/generation and offer expert local knowledge. Continued collaboration with Falkland Island government departments will aid policy development and implementation.

**Role of UK expertise:** To provide cutting-edge expertise and training in landscape-scale conservation, GIS mapping, spatial analysis and systematic conservation planning (from inception through to mainstreaming), as well as administering the project.

**7. Justification of need for a Challenge Fund award. Please provide details of why alternative funding is not available from within your own organisation or from other sources. Will matched funding be provided? (max 250 words)**

Funding for conservation initiatives in UK Overseas Territories is restricted. Falklands Conservation is a registered charity and the leading conservation non-governmental organisation for the islands. It does not have enough resources or expertise to undertake this programme of work independently. However, Falklands Conservation and the Falkland Islands Government will provide matched funding of approximately £2000 and £1000, respectively, for this project (comprising provision of data, as well as the use of office space, internet, and vehicles during the visits by Dr. Davies and Dr. Smith to the Falkland Islands). There will be no immediate academic outputs associated with the work, which precludes sources of research orientated funding being sought. The Durrell Institute of Conservation and Ecology (DICE) will match funding via the expense of software licenses and computer power (equivalent to approximately £3500).

**8. Costs. Provide a detailed breakdown of costs to be funded by the Darwin Initiative.**

<b>Budget Line</b> Please complete those appropriate to your application – they may not all be relevant	<b>Year 1</b> Apr 2012 – Mar 2013	<b>Year 2</b> Apr 2013 – Mar 2014
<b>Travel costs</b> (airfares, sea travel, visas, travel documents)		£
<i>Dr. Zoe Davies (Falkland Trip 1, international flight @ £2000)</i> <i>Dr. Robert Smith (Falkland Trip 1, international flight @ £2000)</i> <i>Dr. Zoe Davies (Falkland Trip 2, international flight @ £2000)</i>		
<b>Subsistence costs</b> (specify by individual and number of days)		£
<i>Dr. Zoe Davies (Falkland Trip 1, 10 days @ £110 per day)</i> <i>Dr. Robert Smith (Falkland Trip 1, 10 days @ £110 per day)</i> <i>Dr. Zoe Davies (Falkland Trip 2, 10 days @ £110 per day)</i>		
<b>Overhead costs</b> (including office costs)		£
<b>Operating costs</b> (including conference/workshop/fieldwork costs)		£
<i>Workshop during Falkland Trip 1</i> <i>Between island travel costs for workshop 1 stakeholders</i> <i>Fieldwork during Falkland Trip 1</i>		
<i>Workshop during Falkland Trip 2</i> <i>Between island travel costs for workshop 2 stakeholders</i> <i>Fieldwork during Falkland Trip 2</i>		
<b>Capital costs</b>		£
<b>Other: Consultancy</b> (please specify)		£
<i>Mark Parnell GIS Remote Sensing consultant (10 days @ £240 per day)</i>		
<b>Other</b>		£
<i>Falkland Conservation costs (staff time and costs associated with ground-truthing fieldwork and workshop facilitation)</i>		
<b>Salaries (specify by individual)</b>		£
<i>Dr. Zoe Davies (10% time)</i> <i>Dr. Robert Smith (8% time)</i>		
<b>Total per year</b>	<b>£ 24,921</b>	£
<b>TOTAL REQUESTED FROM DARWIN INITIATIVE</b>		<b><u>£ 24,921</u></b>

**9. Provide anticipated dates of award activity (including start and finish dates) and any milestones where relevant.**

Date	Key Milestone
	<b>START</b>
April 2012	Grant awarded
April 2012 (mid)	Project timetable set out and agreed by all partners
May 2012 (start)	Project begins
June 2012 (mid)	UK partners travel to the Falkland Islands to run a workshop with stakeholders and gather data
July 2012 (start)	Preliminary GIS spatial analysis to begin mapping the different landcover/vegetation types across the island
Aug 2012 (start)	Prepare first quarterly project report, outlining the potential for generating relevant socio-economic and conservation implementation data
Sept 2012 (start)	Review/calibrate/refine landcover classifications
Nov 2012 (start)	Prepare second quarterly report, outlining the feasibility (estimates of how much time, what resources and analytical approaches to be used) of generating a digital landcover map for the entire area of the islands
Jan 2013 (mid)	Return to the Falkland Islands to disseminate findings to stakeholders and start to develop the full Darwin Initiative project application with project partners
Mar 2013 (early)	Complete the final Challenge Fund project report and submit to Darwin Initiative
	<b>FINISH</b>

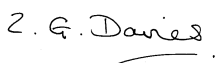
**10. In what year would you expect to submit the full Darwin project application?**

Round 20 (2013)

**I certify that, to the best of our knowledge and belief, the statements made in this application are true and the information provided is correct.**

**Name (block capitals): ZOE DAVIES**

**Position in organisation: Lecturer in Biodiversity Conservation**

Signed: 

**Dated: 28<sup>th</sup> January 2012**

**Project title: Mapping the Falklands: facilitating systematic conservation planning and implementation**

## Challenge Fund Application - Checklist for submission

	Check
Have you provided anticipated start and end dates for your award?	Yes
Are both your concept notes within 500 words each?	Yes
Has your application been signed	Yes
Have you read the Guidance Notes and are you satisfied that your concept would be eligible for a main project application?	Yes
Have you included CVs and letters of support as required?	Yes
Have you checked the Darwin website immediately prior to submission to ensure there are no late updates?	Yes

Once you have answered Yes to the questions above, please submit the application in Word format, not later than 2359h GMT on Monday 30 January 2012 to [Darwin-Applications@ltsi.co.uk](mailto:Darwin-Applications@ltsi.co.uk) using the title of the project (or first few words) as the subject of your email.

Please also send a hard copy of the signature page (only) to the Darwin Applications Unit, LTS International, Pentlands Science Park, Bush Loan, Penicuik EH26 0PL.

Applicants from UKOT institutions should fax a copy of the signature page to the Darwin Applications Unit on 0131 440 5501 or email a scanned original signature to [Darwin-applications@ltsi.co.uk](mailto:Darwin-applications@ltsi.co.uk).

**DATA PROTECTION ACT 1998:** Applicants must agree to any disclosure or exchange of information supplied on the application form (including the content of a declaration or undertaking) which the Department considers necessary for the administration, evaluation, monitoring and publicising of the Darwin Initiative. Application form data will also be held by contractors dealing with Darwin Initiative monitoring and evaluation. It is the responsibility of applicants to ensure that personal data can be supplied to the Department for the uses described in this paragraph. A completed application form will be taken as an agreement by the applicant and the grant/award recipient also to the following:- putting certain details (ie name, contact details and location of project work) on the Darwin Initiative and Defra websites (details relating to financial awards will not be put on the websites if requested in writing by the grant/award recipient); using personal data for the Darwin Initiative postal circulation list; and sending data to Foreign and Commonwealth Office posts outside the United Kingdom, including posts outside the European Economic Area. Confidential information relating to the project or its results and any personal data may be released on request, including under the Environmental Information Regulations, the code of Practice on Access to Government Information and the Freedom of Information Act 2000