

## **DARWIN INITIATIVE PROJECT SCHEDULE ref: 162/08/024**

**Organisation name :** Queen's University Belfast (QUB)

**Name of project :** Status and distribution of the flora of the Falkland Islands

**Project purpose :** To map the distribution of the flora of the Falkland Islands

**Project objectives :** Develop mapping methodology from pilot exercise data; produce user-friendly keys for identification of difficult plant groups; identify a sampling strategy based on stratified sampling using distribution of broad habitat classes; conduct 2 field seasons' plant recordings in the Islands; modify the GIS package PC-Arcinfo to accommodate flora and other environmental data; generate distribution maps of species and analyse ecological data to produce habitat descriptions for the Falkland Island Government; publish and present results to attract interest in further field work to improve survey coverage and precision.

**Length of project :** July 1999 for 2 years

**Total project cost :** £57,990

**Darwin funding profile :** 1999/2000 £13,620; 2000/2001 £19,010; 2001/2002 £700.

**Other sources of funding :** QUB £17,560 for salary and travel, bench fees, computer costs, communication costs and supervision; Shackleton Scholarship Fund £7,000 for plant identification guides; Falklands Conservation £1,100 for staff time; Falklands Islands Government £2,000 for staff time.

**Expenditure profile :** see Table A

**Target outputs :** see Table B

**Implementation timetable with milestones :** see Table C

**Key staff inputs :** see Table D

<b>Reporting requirements :</b> 31 October 1999	First report (1.7.1999 to 30.9.1999)
30 April 2000	Annual report (1.7.1999 to 31.3.2000)
31 October 2000	Six month report (1.4.2000 to 30.9.2000)
30 April 2001	Annual report (1.4.2000 to 31.3.2001)
31 October 2001	Final report.

**Arrangements for monitoring trainee outcomes :** Trainees will be trained by the British expert in the field (QUB Research Assistant) who will monitor progress by regular (weekly) meetings to discuss and check plant identifications. Five per cent of sample queries will be cross-surveyed by trainees and trainer independently. The project leader (Jim McAdam) will conduct an initial training session in November 1999 and a monitoring session in the field in December 2000. The project leader is committed to visiting the Falkland Islands for at least 3 years after the duration of the Darwin project and will check accuracy of local trainee identification skills.

**Table A**

<b>PROJECT COST</b>				
<b>Total Darwin Grant : £33,330</b>				
Annual Darwin Grant				
1999/2000 £13,620				
2000/2001 £19,010				
2001/2002 £700				
<b>DARWIN GRANT : EXPENDITURE DETAILS</b>				
<b>Expenditure details</b>	<b>1999/2000</b>	<b>2000/01</b>	<b>2001/02</b>	<b>Total</b>
Rents, rates, heating, lighting, cleaning				
Postage, telephone, stationery				
Travel, subsistence				
Printing				
Conferences, seminars, training				
Capital items				
Other				
Salaries				

**Table B**

<b>PROJECT OUTPUTS</b>		
<b>Year</b>	<b>Output ref. no.</b>	<b>Details</b>
<b>1999/2000</b>		
November	10	Simple guide and 2 keys for grasses and sedges and shrubs produced
February	6A/B	“X” number of Falkland Conservation members trained in grid square selection and mapping over a period of 4 months
March	13A	2 species collections established
March	13B	2 species collections enhanced
March	15A	Press releases in the Wool Press and The Warrah (FI)
<b>2000/2001</b>		
September	12A	2 databases established, one of a digitised grid square map and one of plant records
September	12B	1 database enhanced
September	15A	Press release in 3 papers in the FI
September	15B	Press release in UK
March	8	38 weeks spent by British experts in the Falkland Islands.
March	15A	Press release in 3 papers in the FI
<b>2001/2002</b>		
July	9	Reports produced for delivery to the Falkland Islands Government
August	14A	1½ day conference involving UK trustees of Falklands Conservation, any FI trustees of FC, Dept of Agriculture, British Antarctic Survey staff, SW Atlantic Working Group of the UK Overseas Territories Forum. About 12-15 people to look at progress on wildflower recording, specialist plant groups in FI, use of databases in drawing up conservation plans, applications of the BAP in the FI.
August	15A	Press release in UK
September	11A	2 papers published in peer reviewed journals
September	11B	1 paper submitted for publication in peer reviewed journal
September	14B	1 conference attended at which project results are disseminated
September	15C	2 national radio interviews broadcast in Falkland Islands

September	15D	1 local radio interview broadcast in UK
September	19A	
September	19D	
September		

Additional outputs include training of a postgrad, Operation Raleigh students in the islands, 1 visiting lichenologist, combined services team, a Queens BSc Student and a small group of retired British scientists. Training will involve 1 or 2 workshop sessions, a field exercise and monitoring review.

Table C

<b>PROJECT IMPLEMENTATION TIMETABLE</b>	
<b>Date</b>	<b>Key milestones</b>
<b>1999/2000</b>	
July	Start development of recording and mapping methodology Start work on guide and map
September	Development of recording and mapping methodology completed Draw up stratified sample
October	Guide and keys completed
November	First field season survey on familiarity with flora starts, training of field survey staff in FI
December	Training of volunteer assistants (Operation Raleigh etc.)
January	Training of lichenologist and British Scientists expedition
February	First field season survey ends
<b>2000/2001</b>	
April	Start work on GIS package to accommodate and manipulate field data collection
April	Start work on production of distribution maps (especially endenixs)
September	Complete work on GIS package and general distribution maps (temporary)
October	Second field season survey on starts
November	Local training of surveyors (FC staff and other volunteers)
March	Second field season survey ends
<b>2001/2002</b>	
August/ September	Reports with maps delivered to the Falkland Islands Government  Software handed to Falklands Conservation  Papers prepared and published  Conference takes place in UK and maybe also one in FI for same participants as earlier

**Table D**

<b>KEY STAFF INPUTS</b>			
UK	<b>Grade/Position</b>		
Dr J McAdam	Reader and Head of Ecology and Project leader		
Mr D Broughton	Research Technician		
Falkland Islands			
R Ingham	Conservation Officer		
A Clausen	Asst Conservation Officer		
Other support staff	To be determined		
<b>STAFF TIME ALLOCATIONS (% of time spent on this work)</b>			
<b>Name</b>	<b>1999/2000</b>	<b>2000/2001</b>	<b>2001/2002</b>
Dr McAdam	4	8	8
Mr D Broughton	58	83	5
R Ingham	5	5	--
A Clausen	10	10	--
Other support staff			