

DARWIN INITIATIVE PROJECT SCHEDULE ref: 162/08/249

Organisation name : Centre for Coastal and Marine Sciences, Plymouth Marine Laboratory (PML) and The Natural History Museum (NHM) with institutions in Brazil, Poland, Pakistan and Chile.

Name of project : Nematode biodiversity and worldwide pollution monitoring

Project purpose : To assist biologists worldwide to assess the local biodiversity of nematodes as well as using this group to assess local environmental quality.

Project objectives : to develop an easily accessible and updateable marine nematode internet key; to provide a UK based advanced training workshop in meiofaunal identification and specifically in marine nematode taxonomy for 15 biologists; to collaborate on specific regional and local marine environmental monitoring/biodiversity censusing projects in Poland and Brazil, providing further advanced training and thus developing local facilities and expertise; to provide a UK based advanced training workshop on statistical analysis of community data.

Length of project : April 1999 for 3 years

Total project cost : £270,240

Darwin funding profile : 1999/2000 £65,700; 2000/2001 £38,700; 2001/2002 £58,800

Other sources of funding : PML £93,000 for staff costs, NHM £4,540 for salaries, PML £7,500 for provision of teaching facilities at two workshops, NHM £2,000 for use of specimens from the National Nematode Collection .

Expenditure profile : see Table A

Target outputs : see Table B

Implementation timetable with milestones : see Table C

Key staff inputs : see Table D

Reporting requirements : 31 October 1999	First report (1.4.1999 to 30.9.1999)
30 April 2000	Annual report (1.4.1999 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	Six month report (1.4.2001 to 30.9.2001)
30 April 2002	Annual report (1.4.2001 to 31.3.2002)
30 June 2002	Final report.

Arrangements for monitoring trainee outcomes : At the end of each workshop trainees will be asked to complete questionnaires concerning their comprehension of the subject matter, the usefulness and the quality of the training they have received. We monitor the use of the nematode keys and population of the species database on the Darwin web site and this will be an indication of the success of the taxonomic workshop. The data sets trainees bring to the data analysis workshop will indicate whether the taxonomic workshop has enabled them to collect better quality meiofaunal data.

Table A

PROJECT COST				
Total Darwin Grant : £163,200				
Annual Distribution of Darwin Grant				
☺	1999/2000	£65,700		
☺	2000/2001	£38,700		
☺	2001/2002	£58,800		
DARWIN GRANT : EXPENDITURE DETAILS (£)				
Expenditure details	1999/2000	2000/01	2001/02	Total
Rents, rates, heating, lighting, cleaning				
Postage, telephone, stationery				
Travel, subsistence				
Printing				
Conferences, seminars, training				
Capital items: computer				
Other: recurrent, software				
Salaries				

Table B

PROJECT OUTPUTS		
Year	Output ref. no.	Details
1999/2000		
Feb 2000	7	Prototype keys and training guide installed on the Internet website
Feb 2000	6A/B	Host one week workshop for up to 15 scientists from Brazil, Poland, Pakistan and Chile (other nationalities may be included from developing countries and CITs)
Feb 2000		
Feb 2000	17A	Darwin nematode network established
Feb 2000	20	Transfer of £1.5k worth of scientific materials to trainees to facilitate work on their return home
Feb 2000	15D	Local press release – attempts will be made to publicise the workshop
	23	NHM and PML allow free use of collections and teaching facilities
2000/2001		
May 2000	13A	Prototype Virtual Museum Nematode Collection established
May 2000	8	2 UK staff visit Poland for 3 weeks to advise on local facilities for meiofaunal work, give support to regional projects and give further local training to at least 4 trainees for 12 days
May 2000	6A/B	
Nov 2000	8	2 UK staff visit Brazil for 3 weeks to advise on local facilities for meiofaunal work, give support to regional projects and further local training to at least 5 trainees for 12 days
Nov 2000	6A/B	
2001/2002		
July 2001	14B	11th Meiofaunal Conference attended and presentation given
Oct 2001	6A/B	Host one week training workshop on statistical analysis of community data using software for 15 trainees
Oct 2001	23	PML allow free use of teaching facilities
Oct 2001	7	Software manual produced
Oct 2001	20	Trainees given £7.5k of software material to enable them to continue work at home
Oct 2001	15D	Local press release – attempts will be made to publicise the workshop
March 2001	11A/B	At least 2 papers published

Table C

PROJECT IMPLEMENTATION TIMETABLE	
Date	Key milestones
1999/2000	
April 1999	Project planning meeting
April 1999	Start the development and testing of computerised interactive identification keys to nematode genera.
May 1999	Start preparation for workshop in meiofaunal techniques and nematode species identification at PML
June 1999	Start the development of a computerised training guide
Oct 1999	Create web site
Oct 1999	Project review meeting
Feb 2000	Complete prototype computerised interactive identification keys to nematode genera.
Feb 2000	Complete prototype computerised training guide.
Feb 2000	Keys and training guide installed on the Internet website
Feb 2000	Host one week workshop for up to 15 scientists from Brazil, Poland, Pakistan and Chile (other nationalities may be included from developing countries and CITs)
Feb 2000	Darwin nematode network established
March 2000	Trainees start to use web site
2000/2001	
April 2000	Project review meeting
April 2000	Complete prototype Virtual Museum Nematode Collection
April 2000	Start database for Virtual Museum Nematode Collection
May 2000	2 UK staff visit Poland to advise on local facilities for meiofaunal work, to give further training and to support regional projects. Trainees encouraged to start populating Virtual Museum Nematode Collection
Oct 2000	Project review meeting
Nov 2000	2 UK staff visit Brazil to advise on local facilities for meiofaunal work, to give

	further training and to support regional projects. Trainees encouraged to start populating Virtual Museum Nematode Collection
2001/2002	
April 2001	Project review meeting
April 2001	Start preparation for training workshop on statistical analysis of community data using software
July 2001	11th Meiofaunal Conference attended and presentation given
Oct 2001	Project review meeting
Oct 2001	Host one week training workshop on statistical analysis of community data using software for 15 trainees
March 2002	Complete β versions of computerised interactive identification keys to nematode genera, computerised training guide and Virtual Museum Nematode Collection.

Table D

KEY STAFF INPUTS			
Name	Grade/Position		
Dr M C Austen	Project leader, benthic ecologist, senior scientific officer		
Dr R M Warwick	Benthic ecologist, UG7		
Dr P J Somerfield	Benthic ecologist, senior scientific officer		
Ms A J McEvoy	Benthic ecologist, scientific officer		
Dr K R Clarke	Statistician, UG7		
Mr S K Nicholson	Head of computing department PML, senior executive officer (c)		
Dr P J D Lambshead	Nematode ecologist and taxonomist, principal scientific officer		
Dr T J Ferrero	Nematode ecologist and taxonomist, senior scientific officer		
Programmer	Computer programmer, scientific officer		
STAFF TIME ALLOCATIONS (% of time spent on this work)			
Name	1999/2000	2000/2001	2001/2002
Dr M C Austen	22	18	18
Dr R M Warwick	2.3	---	2.3
Dr P J Somerfield	2.3	9	2.3
Ms A J McEvoy	2.3	---	---
Dr K R Clarke	---	---	2.3
Mr S K Nicholson	4.7	4.7	4.7
Dr P J D Lambshead	2.3	2.3	2.3
Dr T J Ferrero	4.7	4.7	4.7
Programmer	100	50	50