

DARWIN INITIATIVE PROJECT SCHEDULE ref: 162/08/126

Organisation name : Imperial College with the Instituto de Pesquisa Ambiental da Amazonia (IPAM)

Name of project : Fisheries Management for biodiversity conservation in the Brazilian Amazon

Project purpose : The evaluation of fisheries management approaches to the conservation of floodplain (varzea) habitats and the associated biodiversity.

Project objectives : an analysis of the economic strategies of the different types of commercial fishers; an analysis of the responses of commercial fishers to alternative management measures; an analysis of the role of the fisheries sector within the Amazon regional economy; production of a socio-economic model to predict the responses of commercial fisheries to alternative management regimes.

Length of project : April 1999 for three years.

Total project cost : £238,725

Darwin funding profile : 1999/2000 £41,458; 2000/2001 £39,958; 2001/2002 £39,958

Other sources of funding : IPAM will contribute £117,351 covering their salaries, fieldwork and workshop expenses and some transport and computer costs.

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 : The training will be evaluated by the quality of theses and scientific publications the trainees produce.

Table A

PROJECT COST				
Total Darwin Grant : £121,374				
Annual Distribution of Darwin Grant				
↳	1999/2000	£41,458		
↳	2000/2001	£39,958		
↳	2001/2002	£39,958		
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				
Other:				
Salaries				

Table B

PROJECT OUTPUTS		
Year	Output ref. no.	Details
1999/2000		
July 1999	4	4 Brazilian undergraduate students trained in fisheries data collection
Nov. 1999	8	2 weeks in Brazil (PI)
Dec. 1999	8	15 weeks in Brazil (RA)
Feb. 2000	11B	Paper on profiles of regional fishing fleet submitted
2000/2001		
July 2000	11B	Paper on economic analyses of fishing strategies in each of the major ports submitted
Oct. 2000	8	15 weeks in Brazil (RA)
Oct. 2000	8	1-2 weeks in Brazil (PI)
Jan. 2001	11B	Paper on fisher's response to management measures and other conditions submitted
2001/2002		
April 2001	11B	Paper on the role of fisheries in the regional economy submitted
June 2001	14A	Workshop I
June 2001	8	1-2 weeks in Brazil (PI)
July 2001	8	10 weeks in Brazil (RA)
Nov. 2001	14A	Workshop II
Nov. 2001	8	5 weeks in Brazil (RA)
Nov. 2001	8	2 weeks in Brazil (PI)
Feb. 2002	9	Report on the evaluation of fisheries management strategies for Brazilian Government agencies
March 2002	11B	Paper on bio-socio-economic model of different regional fisheries submitted.

Table C

PROJECT IMPLEMENTATION TIMETABLE	
Date	Key milestones
1999/2000	
By Sept 1999	Analysis of the existing landing data in all four major ports completed. Profile of the regional fleet developed.
By March 2000	Carry out interviews of fishers Review meeting I (Brazil) Analysis of the economic strategies of the different types of fishers complete
2000/2001	
By Sept 2000	Analysis of the responses of commercial fishers to management measures and other external conditions completed Start the analysis of the study on the role of the fisheries sector within the Amazon regional economy.
By March 2001	Review meeting II (Brazil) Interviews with firms in fisheries sector completed Complete the analysis of the study on the role of the fisheries sector within the Amazon regional economy.
2001/2002	
By Sept 2001	First workshop. Formulate socio-economic sub-models. Develop stock dynamics models. Combine the socio-economic and stock dynamics models for study on the interaction between the biological and socio-economic dimensions of the fishery.
By March 2002	Evaluation of management strategies using the bio-socio-economic models Second Workshop

Table D

KEY STAFF INPUTS			
Name	Grade/Position		
Dr K Lorenzen Prof J R Beddington Research Assistant [Not yet named]	Lecturer, Project leader Professor, advice on economics methodologies Research assistance		
<u>Brazil</u>			
Dr D T McGrath Nefi Marcelo Crossa Research Assistants: Alzenilson Santos de Aquino (biology) Tatiane Patricia Souza (biology) Vanda Seixas da Silva (accounting) Elisabeth Araújo da Silva (accounting)	Co-ordinator of Varzea Programme, socio-economic research Fisheries biologist Field data collection		
STAFF TIME ALLOCATIONS (% of time spent on this work)			
Name	1999/2000	2000/2001	2001/2002
Dr K Lorenzen	20	20	20
Prof J R Beddington	5	5	5
Research Assistant	100	100	100
Dr D T McGrath	20	20	20
Nefi Marcelo Crossa	20	20	20
Research Assistants	100	100	100