

Australian Marine Mammal Centre
Final Report
(subclause 9 and Schedule Item 5 of the Funding Agreement)

- **Project No.:** 12/9
- **Title:** Workshop: Use of Geographic Information Systems in Cetacean
- **Chief Investigators:** Guido J. Parra, Lars J. Bejder and Colin D. MacLeod
- **Organisation:** Flinders University
- **Activity Period :**2012

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1. Activity Summary

A clear summary of approximately 500 words outlining the work undertaken and any significant findings (for publication on the Department's web site)
The funding provided by AMMC supported the hosting of two five-day introductory workshops on using Geographic Information Systems (GIS) techniques in cetacean research. Specifically the workshops provided training in: 1) the typical tasks required to use and analyse data derived from cetacean surveys in a GIS and 2) the application of species distribution modelling (SDM) in the marine environment. The workshops were hosted by Dr Parra (Flinders University) and Dr Bejder (Murdoch University) in Adelaide and Perth, respectively. Workshop manual and material was prepared by Dr MacLeod (GIS In Ecology Ltd) and delivery and presentations of the workshop were carried out by Dr. Michael Tetley (GIS In Ecology Ltd).The workshops comprised of lectures (including presentation of case studies), demonstrations, and practical work. The final day of each workshop was dedicated to discussion of issues arising and consultation on practical work especially data processing and analysis. Participant feedback forms were distributed at the end of each workshop in order to gauge the level of satisfaction.

2. The Outcomes/Objectives

List of the Project Objectives
The overall aim of these workshops were to build expertise among Australian marine mammal researchers in the sound use of GIS techniques in cetacean ecological studies. The specific objectives of the workshop were to: <ol style="list-style-type: none">1. Provide the participants with a full understanding of GIS concepts and principles and how it can be used for cetacean research.2. Provide participants with the skills and knowledge to use GIS software for various spatial data analyses related to cetacean studies.

3. Provide an introduction to the concept and application of GIS for storing, manipulating and visualizing species distribution models (SDM) in the marine environment.

The degree to which the Activity has achieved each of the objectives

All of the objectives set out as part of this proposal were met. Given the participant levels reached for both workshops and the participation feedback both workshops were a success. Both workshops were at maximum capacity attracting a wide range of participants including graduate students, professional academics, environmental consultants and government scientists. A total of 39 people participated in the workshops: 19 participants in Adelaide (11 from South Australia, 6 from Interstate and 2 from overseas) and 20 (17 from Western Australia, 3 from interstate). Feedback was extremely positive towards all aspects of the workshop. The majority of the participants provided feedback (35 out of 40) and rated the workshop as excellent or good in relation to instructors, practical work, speed of sessions, venue and workshop content (Fig. 1, Appendix 1).

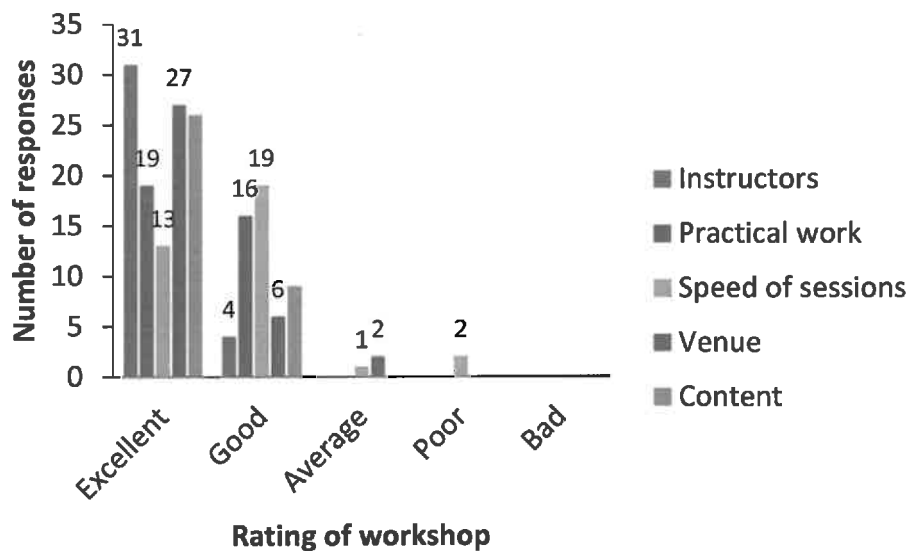


Figure 1. Participants rating of workshop in regards to instructors, practical work, speed of sessions, venue and content.

3. Appropriateness

The appropriateness of the approaches used in the development and implementation of the Activity

The workshop was delivered using a mixture of lectures, hands-on computer lab applications, discussions, and case studies. Participant feedback in regards to workshop practical work, speed of sessions and content was very positive (Figure 1). Most participants commented in their feedback that the skills learned through the workshop will be very relevant and applicable to their research and postgraduate studies (Appendix 1).

4. Effectiveness

The degree to which the Activity has effectively met its stated objectives

All workshop activities met the stated objectives effectively as shown by level of participation and participant's feedback.



5. Communication

How results will be communicated to management

Not applicable.

6. Financial Account of the Activity

See financial statement attached.

Signature of Chief Investigator	
Name	Guido J. Parra
Date	31/08/2013
Signature of Organisation Representative	
Name	Carolyn Vicary
Date	6 September 2013

Please forward 4 hard copies, and one electronic Word document of this report to:

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AUSTRALIAN MARINE MAMMAL CENTRE

**STATEMENT OF INCOME & EXPENDITURE
2013/14**

Name of Grantee:	Dr Guido Parra			
Organisation:	Flinders University			
Project No.:	12/9			
Project Title:	Workshop: Use of Geographic Information Systems in Cetacean Research			
FUNDING AGREEMENT BUDGET				
Amount of Grant		Exclusive of GST	GST	Total including GST
Commonwealth Government Contributions + interest		30,347.64	2,990.36	33,338.00
Organisation Contributions – (in-kind)				5,181.82
Other Contributions ... (in-kind)				4,272.73

EXPENDITURE TO DATE - Commonwealth Government Contributions				
A. Item	B. Expenditure (\$ GST incl)	C. Committed (\$ GST incl)	D. Unspent (\$GST incl)	
Salaries	13,909.18		784.83	
Travel			8,199.99	
Venue Hire	7,854.37		11,145.62	
Consumables	99.00		1,901.01	
Total expenditure		21,862.55		

EXPENDITURE TO DATE - Organisation Contributions			
A. Item	B. Expenditure (\$ GST incl)	C. Committed (\$ GST incl)	D. Unspent (\$GST incl)
Dr L Bejder – (in-kind)	Seeking confirmation from Murdoch University		
Total expenditure			


EXPENDITURE TO DATE - Other Contributions			
A. Item	B. Expenditure (\$ GST incl)	C. Committed (\$ GST incl)	D. Unspent (\$GST incl)
G Parra – (in-kind)	4,700.00		0.00
Total expenditure			

Legal Commitments

A statement of how much the Organisation needs to meet current liabilities under legal commitments entered into for the purposes of the Activity and pursuant to the Funding Agreement.

I certify that:

- (a) all Funding received was spent for the purpose of the Activity and in accordance with the Funding Agreement and that the Organisation has complied with the Funding Agreement;
- (b) salaries and allowances paid to persons involved in the Activity are in accordance with any applicable award or agreement in force under any relevant law on industrial or workplace relations;
- (c) unless the Activity Period has expired or the Agreement has been terminated, the unspent portion of the Funds (if any) is available for use within the next Reporting period;
- (d) the financial information is presented in accordance with any other financial Reporting requirements the Department may notify to the Organisation;
- (e) where an Asset has been acquired with the Funds, paragraphs 7.5(d) and (g) (where applicable) have been complied with in respect to the Asset.

Signature of Responsible Person (as defined by subclause 9.6 of the Funding agreement)	An audited Financial Statement will be signed by a Responsible Person (as defined by subclause 9.6 of the finding agreement) once all the expenditure has been charged to the account.
Signature of Organisation Representative	
Name	Carolyn Vicary
Position	Grants Accountant
Date	6 September 2013