

Australian Centre for Applied Marine Mammal Science

Final Report No. 1

Season 2006/07

- **Title** – An ecological approach to determining blue whale critical habitat and seismic impacts in the Bonney Upwelling
- **Chief Investigators** – Dr Peter Gill & Margie Morrice
- **Organisation** – Australocetus Research

Activity Period – 1 August 2007 – 31 December 2007

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1. Project progress and objectives achieved

A clear summary of the work undertaken in the period to which the Report relates including the objectives achieved and an analysis of the effectiveness of this work
The most current research summary of this work can be found in the Progress Report (Gill and Morrice, Sept. 2007). This work was presented at the 17th Biennial Conference on the Biology of Marine Mammals, Cape Town, South Africa, November 2007, and at the Blue Whale Workshop held prior to the conference. For a summary of papers presented that relate to this research please see the References section in Comments below.

2. Milestones and timeframes met

Identification of the Milestones and timeframes (and any performance indicators) met during the period to which the Report relates		
The milestones set for this project (Table 2), are on target and have been completed for Milestones 3-4 with the delivery and acceptance of this Final Report.		
Table 2. Milestones for this project, as set out in 1.7. of the Contract Schedule		
Milestone	Milestone	Date
1	Agreement in Place	Date of Agreement Signing
2	1 st Progress Report submitted to and accepted by the Department <ul style="list-style-type: none">• Fine-scale boat surveys incorporating tagging, habitat and prey and behaviour studies	30 April 2007

	<ul style="list-style-type: none"> Opportunistic small vessel photo-ID, biopsy & prey sampling surveys 	
3	<ul style="list-style-type: none"> Analysis phase Report writing 	30 November 2007
4	Final report submitted to and accepted by the Department to detail outcomes of all of the work undertaken for the project	31 December 2007

3. Delays affecting project

A statement as to whether the timeframes for the Activity are being met and an explanation of any delays that have occurred, including the reasons for those delays and the action the Organisation proposes to take to address the delay and the expected effects (if any) the delay will have on the Activity (including subsequent Milestones and the overall completion of the Activity)

Nil

Comments

References

Attard, C., Möller, L.M., Jenner, C., Gill, P., Kanda, N., Jenner, M., Morrice, M., Bannister, J., LeDuc, R., Beheregaray, L.B. 2007. Novel genetic markers for stock identification of blue whales and genetic differentiation between two Australian feeding aggregations. 17th Biennial Conference on the Biology of Marine Mammals, Cape Town, South Africa, November 2007. Luciana.Moller@gse.mq.edu.au

Gill, P. and Morrice, M. 2007a. An ecological approach to determining blue whale critical habitat and seismic impacts in the Bonney Upwelling, Progress Report to ACAMMS, Sept 2007. 5 pp. petegill@bigpond.com

Gill, P. and Morrice, M. 2007b. Aerial surveys for cetacean monitoring during seismic surveys in VIC/P44 and VIC/P46. April-July 2007. Report for Santos Ltd and Beach Petroleum, September 2007. 16 pp. petegill@bigpond.com

Gill, P., Jenner, K., Gales, N. and Morrice, M. 2007a. Movements of blue whales off southern Australia. Blue Whale Workshop, 17th Biennial Conference on the Biology of Marine Mammals, Cape Town, South Africa, November 2007. petegill@bigpond.com

Gill, P., Morrice, M., Jenner, K. and Gales, N. 2007b. Occurrence, broad-scale feeding habitat and movements of blue whales in a south-east Australian coastal upwelling system. 17th Biennial Conference on the Biology of Marine Mammals, Cape Town, South Africa, November 2007. petegill@bigpond.com

Möller, L.M., Attard, C., Jenner, C., Gill, P., Kanda, N., Jenner, M., Morrice, M., Bannister, J., LeDuc, R., Beheregaray, L.B. 2007. Population genetic structure of two Australian blue whale feeding aggregations. Blue Whale Workshop, 17th Biennial Conference on the Biology of Marine Mammals, Cape Town, South Africa, November 2007. Luciana.Moller@gse.mq.edu.au

Morrice, M. 2007. Quantifying relationships between blue whale foraging behaviour and prey at fine scales. Blue Whale Workshop, 17th Biennial Conference on the Biology of Marine Mammals, Cape Town, South Africa, November 2007. mmorr@deakin.edu.au

Morrice, M., Calambokidis, J., Gill, P., Schorr, G. and Jarman, S. 2007a. Blue whale foraging strategies: responses to a dynamic prey field in southern Australia. AMSA 45th Annual Conference, Melbourne, July 2007. mmorr@deakin.edu.au

Morrice, M., Gill, P., Calambokidis, J., Schorr, G. and Jarvis, T. 2007b. Blue whale foraging strategies: responses to a dynamic prey field off southern Australia. 17th Biennial Conference on the Biology of Marine Mammals, Cape Town, South Africa, November 2007. mmorr@deakin.edu.au