

CURRICULUM VITAE

Emmanuelle Martinez

Coastal-Marine Research Group
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Nationality: French
Date of birth: 11 April 1976

ACADEMIC RECORD

Massey University (Albany Campus, New Zealand): 2005 (October) onwards

Doctor of Philosophy (Sciences, Zoology)

Topic: Is tourism good for dolphins? Responses of Hector's dolphins (*Cephalorhynchus hectori hectori*) to vessel activity in Akaroa Harbour, Banks Peninsula, New Zealand.

Supervisors: Dr. Mark Orams (main supervisor), Assoc Prof Dianne Brunton and Dr Liz Slooten.

University of Otago (Dunedin, New Zealand): 1999-2001/2003 (2nd semester)

Master of Science (Environmental Science)

Academic achievement: Distinction

Topic: A pre-disturbance study of Hector's dolphins prior to a dolphin-watching operation at Motunau, New Zealand.

Supervisor: Dr L. Slooten.

University of Leicester (Leicester, United Kingdom): 1995-1998

Bachelor of Science (Zoology)

Academic achievement: First Class Honours (Highest grade of the 1998 cohort dissertations)

Dissertation topic: Potential effects of human activities on populations of dolphins.

Lycée Borde-Basse (Castres, France): 1991-1994

French Baccalaureate, série D (Biology and Maths)

SCHOLARSHIPS/AWARDS

2005-08	Massey University Doctoral Scholarship
2005	New Zealand Federation of Graduate Women Fellowship
1997	Faculty Prize 1997 (Top achiever, University of Leicester)

RELEVANT RESEARCH EXPERIENCE

- **Effect of Vessels on Humpback Whales (*Megaptera novaeangliae*), South Lagoon, New Caledonia** (August 2007).
Lead researchers: Dr Claire Garrigue and Ms Aline Shaffar-Delaney. This project is 1) studying the population of humpback whales frequenting the waters of New Caledonia (population estimates, migration, genetic analysis and acoustic behaviour) and 2) investigating the effect of vessel traffic on the humpback whales migrating to New Caledonian waters to breed. Of particular interest is the potential impact of unregulated whale-watching tour operations.
- **Capricornia Cetaceans Project, Capricorn Coast, Australia** (June-July 2006).
Lead researcher: Mr Daniele Cagnazzi. I worked as a volunteer on this PhD research project. This study aims at collecting data on coastal dolphins behaviour, distribution, habitat use and population structure while carrying out transects using a 6.5m outboard. My main task was the photo-identification of Indo-pacific humpback dolphins (*Sousa chinensis*) using a Nikon D100 with a zoom lens AF VR Zoom-Nikkor ED 80-400mm f/4.5-5.6D.
- **Effect of Vessels on Humpback Whales (*Megaptera novaeangliae*), South Lagoon, New Caledonia** (July 2005).
Lead researcher: Ms Aline Shaffar-Delaney. Invited by the “Opération Cétacés” (led by Dr Claire Garrigue) to share my expertise on theodolites and on land-based tourism impact studies for this pilot study. This project is investigating the effect of vessel traffic on the humpback whales migrating to New Caledonian waters to breed. Of particular interest is the potential impact of unregulated whale-watching tour operations.
- **Effects of vessel traffic on the behaviour of the East Australian Humpback Whales (*Megaptera novaeangliae*), Moreton Island, Australia** (June-July 2005).
Lead Researcher: Ms Jodi Smith, Massey University. Convened by my supervisor, Dr Mark Orams, to help his MSc student to set up her project, collect data and share my expertise on theodolites and on land-based tourism impact studies
- **Blue Planet Learning Ltd and Tangalooma Marine Education and Research Centre, Tangalooma, Moreton Island, Australia** (June-July 2005). This programme founded by Dr Mark Orams is aimed at promoting a greater understanding of the biology and behaviour of cetaceans and to use this understanding to increase awareness of the importance of conserving the marine environment. I worked on a contract basis in the evenings, teaching young Americans from the “People to People Ambassadors program” about the unique wild dolphin-provisioning program at Tangalooma. Educating students on how to feed these wild dolphins, how to observe and record their behaviours as research scientists.
- **Research on sperm whales (*Physeter macrocephalus*) off Tonga** (June 2003).
Lead Researchers: Drs Steve Dawson and Liz Slooten, University of Otago. I worked on this project as a research assistant on a volunteer basis. This project aimed at determining whether the sperm whales found in Tongan waters are also found in New Zealand around Kaikoura. I gained experience on sailing a catamaran and detecting the presence of cetacean species using acoustics, in this case a hydrophone array owned by Dr Jay Barlow, Southwest Fisheries Science Center, USA.

- **Distribution and abundance of South Island Hector's dolphins (*Cephalorhynchus hectori hectori*) in relation to oceanographic features, Banks Peninsula, New Zealand** (September 2001; June 2002).
Lead Researcher: Ms Deanna Clement, University of Otago. I worked as a volunteer on this PhD research project, where I gained further experience on transect surveys using a 6m stabicraft vessel and on how to use a CTD (Conductivity-Temperature-Depth, Sea-Bird SBE 19 CTD) to collect oceanographic data.
- **South Island Hector's Dolphin (*Cephalorhynchus hectori hectori*) Population Size, Habitat Utilisation, Behaviour, and Response to Tourism in Porpoise Bay, New Zealand.** (December 2001/ March 2002).
Lead Researchers, Ms Emmanuelle Martinez and Ms Erin Green, University of Otago. Contracted by the Southland Department of Conservation to carry out a follow-up study on this population of Hector's dolphins to 1) estimate its population size; 2) investigate their spatial and temporal habitat use of the bay; 3) investigate the dolphin responses to the presence of both swimmers and boats; and 4) present recommendation to DoC regarding the management of the Porpoise Bay population. I gained further experience on study design, use of theodolite, photo-identification using a 35 mm Nikon N90s camera with 28-200mm lens, data analysis and report writing. I also learnt to carry out transect surveys using a 3.5m stabicraft vessel and assess population size using a mark-recapture technique.

RELEVANT WORK EXPERIENCE

Mar 2005-May 2005: **Park Ranger**, Auckland Regional Council, Auckland
Long Bay Regional Park, Northern Sector

Nov 2004-April 2005: **Marine Ranger**, Department of Conservation, Long Bay, Auckland
Warranted Honorary ranger under Marine Reserve Act
Marine Mammal Officer under Marine Mammal Protection Act

Nov 2003-April 2004: **Swim-with-dolphin guide**, Black Cat Group, Akaroa, Banks Peninsula

July 2002- Oct 2003: **Senior demonstrator for 200 level Zoology**, University of Otago, Dunedin

July-Oct 2002/2003: **Demonstrator for 300 level Zoology**, University of Otago, Dunedin

Mar 2002- Oct 2003: **Demonstrator for Foundation Year**, University of Otago, Dunedin

July 2001- Oct 2003: **Demonstrator for 100 level Biology**, University of Otago, Dunedin

Mar 2000- Dec 2002: **Research Assistant for Dr Liz Slooten**, University of Otago, Dunedin.

Nov 2001- Aug 2002: **Field researcher working in collaboration with DoC Southland**, Porpoise Bay, Southland

PUBLICATIONS

Jenkins, J.L.S. and **Martinez, E.** (submitted). 3D Modelling of Dolphin Sightings Using Laser Scanning Software. *New Zealand Surveyor*, the Journal of the New Zealand Institute of Surveyors Inc.

Martinez, E. and Slooten, E. (2003). A selective, annotated bibliography for Hector's dolphins. *DoC Science Internal Series* 124. Department of Conservation, Wellington. 40p. <http://www.doc.govt.nz/upload/documents/science-and-technical/dsis124.pdf>

Martinez, E. (2003). *Pre-disturbance study of Hector's dolphins (Cephalorhynchus hectori) prior to a dolphin-watching operation at Motunau, New Zealand*: a thesis submitted in partial fulfilment of the requirements for the degree of Master of Science of the University of Otago, New Zealand.

Martinez, E.; Green, E.; Dawson, S. and Slooten, E. (2002). *Hector's Dolphin (Cephalorhynchus hectori) Population Size, Habitat Utilisation, Behaviour, and Response to Tourism in Porpoise Bay, New Zealand*. Internal report to the Department of Conservation, Southland Conservancy.

Martinez, E. and Slooten, E. (2001). Ecology, Behaviour and Potential Impact of Tourism on Hector's Dolphins (*Cephalorhynchus hectori*) at Motunau, New Zealand. *Proceedings of the 14th Biennial Conference on the Biology of Marine Mammals*. Vancouver, Canada. November 28-December 3, 2001. 262p.

Martinez, E. and Slooten, E. (2001). *Report on the New Zealand Cetacean Environment*. Report presented at the 2001 International Whaling Commission annual meeting, Sydney, Australia.

Richter, C., Lusseau, D. and **Martinez, E.** (2001). *A critical review of methodologies employed to assess impacts of marine mammal watching activities on cetaceans*. Report presented at the 2001 International Whaling Commission annual meeting, Sydney, Australia.

Martinez, E. (1998). *Potential effects of human activities on populations of dolphins*: a dissertation submitted in partial fulfilment of the requirements for the degree of Bachelor of Biological Sciences (Zoology) of the University of Leicester, UK.

Also, contributor for the following:

Lück, M. (in prep). *Encyclopedia of Tourism and Recreation in Marine Environments*.

Perry and Stachowitsch (eds) (2002). *Second State of the Cetacean Environment Report (SOCER)*. Report submitted to the International Whaling Commission. SC/53/E21. 38p