

Curriculum Vitae
DANIEL M. PALACIOS

Research Oceanographer (JIMAR)
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Education

Ph.D., Oceanography, Oregon State University, 2003

Thesis: *Oceanographic Conditions Around the Galápagos Archipelago and Their Influence on Cetacean Community Structure*

Advisor: Prof. Bruce R. Mate

B.Sc., Marine Biology (*magna cum laude*), Department of Marine Biology, University of Bogotá Jorge Tadeo Lozano, Bogotá, Colombia, 1994

Other training: “*Intensive Course on Remote Sensing of the Ocean: Applications for Ocean Colour, Temperature, Wind Stress and Altimetry*”, International Ocean Colour Coordinating Group, Olmué, Chile, 1997

Teaching Experience

Teaching Assistant

College of Oceanic and Atmospheric Sciences, Oregon State University

Teaching assistant for two separate courses in *Biological Oceanography* (instructor: Charles Miller); one for upper-division undergraduates (enrollment: 12) and one for graduate students in Oceanography (enrollment: 25). Both courses involved lecturing, grading exams and holding office hours. Winter 1999.

Guest Lecturer

I have been a guest lecturer on marine mammal biology and natural history, including cetacean and pinniped dissections, for oceanography courses at Oregon State University and Lane Community College. I have also lectured on careers in marine science at local elementary and high schools on multiple occasions.

Research Experience

Research Oceanographer (JIMAR)

NOAA/National Marine Fisheries Service, Pacific Fisheries Environmental Laboratory, Pacific Grove, California. July 2004 – present

My tasks are to investigate interannual to decadal climate variability in the Pacific Ocean and its impacts on ecosystem productivity and community structure. I also participate in the development of environmental products and operational indicators that relate physical forcing to biological response in North Pacific ecosystems.

Postdoctoral Research Associate

NOAA/National Marine Fisheries Service, Pacific Fisheries Environmental Laboratory, Pacific Grove, California. June 2003 – June 2004

Investigated long-term patterns in water-column stratification at several locations in the California Current, based on a 44-yr record of subsurface temperatures. The findings of this study were presented at internationally attended conferences.

Graduate Research Assistant

Coastal Oregon Marine Experimental Station, Hatfield Marine Science Center, Oregon State University, Newport, Oregon. 1996–2003

Conducted independent thesis research including applying for research permits, securing funding and equipment, and planning and leading a 15-day survey cruise around the Galápagos Islands aboard R/V *Odyssey*. Processed large oceanographic data sets (satellite-derived and hydrographic) and applied time series and multivariate analyses to describe physical habitat for cetaceans. Presented results at internationally attended conferences.

Analyzed, processed and interpreted satellite-derived geophysical data (sea-surface temperature, ocean color, sea-surface height anomaly, and upwelling index) for principal advisor's project on the movements and habitat use of satellite-tracked blue whales in the California Current. Participated in whale tagging cruises in Alaska, Hawaii, Baja California, and the Gulf of Mexico.

Photogrammetry Contractor

Southwest Fisheries Science Center (SWFSC), National Marine Fisheries Service, National Oceanic and Atmospheric Administration, La Jolla, California. 1998

Sailed on 2 legs of SWFSC survey program *Stenella* Population Abundance Monitoring in the eastern tropical Pacific aboard R/V *David Starr Jordan* to take vertical aerial photographs of dolphin schools from a ship-based helicopter. Laboratory work involved producing independent counts from large-format photographs for calibration with counts made by ship-based observers.

Visiting Scientist

Southwest Fisheries Science Center (SWFSC), National Marine Fisheries Service, National Oceanic and Atmospheric Administration, La Jolla, California. 1995–1996

Used data from 6 years (1986–1990, 1993) of SWFSC survey cruises in the eastern tropical Pacific to estimate cetacean abundance within the Exclusive Economic Zones of countries

bordering the region, from Mexico to Peru. Assessed the potential impact of incidental mortality of small cetaceans in artisanal fisheries in this region. Presented results at international conferences. Participated in one leg of survey program ORCAWALE in the California Current aboard R/V *McArthur*.

Marine Scientist/Crew Member

Ocean Alliance, Lincoln, Massachusetts. 1993–1995

Served as part of a crew of 8 responsible for the daily operations aboard a 28-m sailing vessel during a year-long, multi-project expedition to the Galápagos Islands (17 cruises were completed during this time). Projects included sperm whale demographics, genetics, toxicology, behavior and acoustics, and a study of the seasonal variability of marine mammal and seabird occurrence. Post-expedition work included data editing, analysis and distribution among the principal investigators, as well as reporting to funding and permit-granting agencies. Results were presented at internationally attended conferences.

Professional Society Memberships

American Geophysical Union
Association for Marine Remote Sensing
Latin American Society of Aquatic Mammal Specialists
Oceanography Society
Society for Marine Mammalogy

Academic/Professional Service

- Member, Editorial Board, *Latin American Journal of Aquatic Mammals* (since 2002).
- Reviewer of research articles for *Deep-Sea Research I and II*, *Progress in Oceanography*, *Caribbean Journal of Science*, *Journal of the Marine Biological Association of the United Kingdom*, and *Acta Theriologica*.
- Reviewer of proposals for Colciencias, Colombia's government funding agency.
- Science Judge for the annual regional competition of the National Ocean Sciences Bowl in Oregon and central California (since 1999).

Honors and Awards

- The Honor Society of Phi Kappa Phi.
- Invited poster presenter at the colloquium "*Oceanography: The Making of a Science. People, Institutions and Discovery*". Sponsored by the Office of Naval Research, Department of the Navy, and the H. John Heinz III Center for Science, Economics and the Environment. University of Washington, Seattle, WA, 13–14 January 2000.
- "*Cobler Graduate Student Achievement Award*", College of Oceanic and Atmospheric Sciences, Oregon State University, 1999.
- First-place award for a poster presentation in the category "*Oceanic and Atmospheric Sciences*". Oregon State University 6th Annual Graduate Student Conference, 10 April 1998.

- “*Excellence in Science Communication Award*” for best poster presentation. Society for Marine Mammalogy, World Marine Mammal Science Conference, Monaco, 20–24 January 1998.

Languages and Skills

- Fluent in both Spanish and English. Basic understanding of French
- Proficient in most common applications for the UNIX, Mac and PC platforms. Programming ability in Matlab and FORTRAN
- Basic knowledge of boat handling and navigation
- Experienced SCUBA diver (open water PADI certification, 1990)

Publications

Peer-reviewed

Palacios, D.M., S.K. Salazar, and D. Day. Submitted. Cetacean remains and strandings in the Galápagos Islands, 1923–2003. *Latin American Journal of Aquatic Mammals*.

Palacios, D.M., S.J. Bograd, F.B. Schwing, and R. Mendelssohn. In press. Long-term and seasonal trends in stratification in the California Current, 1950–1993. *Journal of Geophysical Research*, doi:10.1029/2004JC002380.

Palacios, D.M. 2004. Seasonal patterns of sea-surface temperature and ocean color around the Galápagos: regional and local influences. *Deep-Sea Research II* 51(1-3):43–57, doi: 10.1016/j.dsr2.2003.08.001.

Palacios, D.M. and S. Salazar. 2002. Cetáceos. Pages 291–304 in Danulat, E., and G.J. Edgar, eds. Reserva Marina de Galápagos, Línea Base de la Biodiversidad. Fundación Charles Darwin/Servicio Parque Nacional Galápagos, Santa Cruz, Galápagos, Ecuador.

Palacios, D.M. 2002. Factors influencing the island-mass effect of the Galápagos Islands, *Geophysical Research Letters* 29(23), 2134, doi: 10.1029/2002GL016232.

Capella, J.J., L. Flórez-González, P. Falk-Fernández and **D.M. Palacios**. 2002. Regular appearance of otariid pinnipeds along the Colombian Pacific coast. *Aquatic Mammals* 28(1):67–72.

Palacios, D.M. 1999. Blue whale (*Balaenoptera musculus*) occurrence off the Galápagos Islands, 1978–1995. *Journal of Cetacean Research and Management* 1(1):41–51.

Pitman, R.L., **D.M. Palacios**, P.L.R. Brennan, B.J. Brennan, K.C. Balcomb, III, and T. Miyashita. 1999. Sightings and possible identity of a bottlenose whale in the tropical Indo-Pacific: *Indopacetus pacificus*? *Marine Mammal Science* 15(2):513–518.

Muñoz-Hincapié, M.F., D.M. Mora-Pinto, **D.M. Palacios**, E.R. Secchi and A.A. Mignucci-Giannoni. 1998. First osteological record of the dwarf sperm whale in Colombia, with notes on the zoogeography of *Kogia* in South America. *Revista de la Academia Colombiana de Ciencias Exactas, Físicas y Naturales* 22(84):433–444.

Van Waerebeek, K., F. Felix, B. Haase, **D.M. Palacios**, D.M. Mora-Pinto and M.F. Muñoz-Hincapié. 1998. Inshore records of the striped dolphin *Stenella coeruleoalba* from the Pacific coast of South America. *Report of the International Whaling Commission* 48:525–532.

Palacios, D.M., F. Félix, L. Flórez-González, J.J. Capella, D. Chiluiza and B.J.M. Haase. 1997. Sightings of Galápagos sea lions (*Zalophus californianus wollebaeki*) on the coasts of Colombia and Ecuador. *Mammalia* 61(1):114–116.

Palacios, D.M. and B.R. Mate. 1996. Attack by false killer whales (*Pseudorca crassidens*) on sperm whales (*Physeter macrocephalus*) in the Galápagos Islands. *Marine Mammal Science* 12(4):582–587.

Palacios, D.M. 1996. On the specimen of the ginkgo-toothed beaked whale, *Mesoplodon ginkgodens*, from the Galápagos Islands. *Marine Mammal Science* 12(3):444–446.

Palacios, D.M. 1996. Earlier observations of presumed Galápagos sea lions, *Zalophus californianus wollebaeki*, from coastal Ecuador. *Marine Mammal Science* 12(3):497.

Palacios, D.M. and D. Day. 1995. A Risso's dolphin (*Grampus griseus*) carrying a dead calf. *Marine Mammal Science* 11(4):593–594.

Ph.D. Thesis

Palacios, D.M. 2003. Oceanographic Conditions Around the Galápagos Archipelago and their Influence on Cetacean Community Structure. Ph.D. thesis, Oregon State University, Corvallis, Oregon. 178 pp.

Technical Reports/Other

Palacios, D.M., K.A. Forney, and G.C. Feldman. 2001. Featured contribution in “The Ocean Color Spectrum”. *Backscatter* (Alliance for Marine Remote Sensing), 12(1):31–33.

Palacios, D.M. 2000. *GalCet2K*: A line-transect survey for cetaceans across an environmental gradient off the Galápagos Islands, 5–19 April 2000. Final report submitted to: Galápagos National Park Service, Charles Darwin Research Station, Capitanía de Puerto Ayora, and Dirección General de Intereses Marítimos de la Armada Nacional. Puerto Ayora, Is. Galápagos, Ecuador, 17 July 2000. 9pp.

Palacios, D.M. 1999. Marine mammal research in the Galápagos Islands: the 1993–94 *Odyssey* Expedition. Final report submitted to Galápagos National Park Service and Charles Darwin

Research Station. Puerto Ayora, Is. Galápagos, Ecuador, 10 November 1999. 6 pages, 4 tables, 18 figures, and 3 appendices.

Gerrodette, T. and **D.M. Palacios**. 1996. Estimates of cetacean abundance in EEZ waters of the eastern tropical Pacific. *Southwest Fisheries Science Center Administrative Report LJ-96-10*. 28pp. (with Spanish translation).

Palacios, D.M. and T. Gerrodette. 1996. Potential impact of artisanal gillnet fisheries on small cetacean populations in the eastern tropical Pacific. *Southwest Fisheries Science Center Administrative Report LJ-96-11*. 16pp. (with Spanish translation).

Palacios, D.M. 1995. Re-identification of three dolphin skulls in the Museum of the Charles Darwin Research Station. *Noticias de Galápagos* 55:6–8.

Palacios, D.M., P. Rodríguez, B. Brennan, and K. Marshall. 1994. Notes on the Cuvier's beaked whale (*Ziphius cavirostris*) with observations of a dead specimen. *Noticias de Galápagos* 54:29–31.

Conference Proceedings

Palacios, D.M., S.J. Bograd, R. Mendelsohn, and F.B. Schwing. 2003. Seasonal and long-term trends in stratification in the California Current, 1950–1993. *Eos, Transactions, American Geophysical Union* 84(52), Ocean Sciences Meeting Supplement, Abstract OS31H-02.

Palacios, D.M. 2003. Cetacean community structure around the Galápagos in relation to environmental heterogeneity and seasonal change. Page 126 in *Book of Abstracts, 15th Biennial Conference on the Biology of Marine Mammals*, 15–19 December 2003, Greensboro, North Carolina, U.S.A.

Schramm, Y., S.L. Mesnick, J. de la Rosa, J. Hyde, **D. Palacios**, H.M. Snell, and A.E. Dizon. 2001. Genetic structure of California and Galápagos sea lions. Page 190 in *Book of Abstracts, 14th Biennial Conference on the Biology of Marine Mammals*, 28 November – 3 December 2001, Vancouver, B.C., Canada.

Palacios, D.M. 1999. Mesoscale oceanographic variability and cetacean occurrence around the Galápagos Islands in 1993–94. Page 143 (abstract) in *Proceedings, 13th Biennial Conference on the Biology of Marine Mammals*, 28 November – 3 December 1999, Wailea, Maui, Hawaii, U.S.A.

Palacios, D.M. 1999. Habitats and distribution patterns of Galápagos marine mammals. *Proceedings of the American Association for the Advancement of Science, Pacific Division* 18 (1): 74–75.

Palacios, D.M. 1995. Cetacean remains and strandings in the Galápagos Islands. Pages 27–29 in A.H. Kopelman and S.S. Sadove, eds. *Proceedings of the 1995 Northeastern Regional Stranding Network Conference*, 28–30 April 1995, Riverhead, NY, USA. 59pp.