

Curriculum Vitae

DANIEL M. PALACIOS**Contact Information**Affiliation

Cooperative Institute for Marine
Ecosystems and Climate
Institute of Marine Sciences
Division of Physical and
Biological Sciences
University of California, Santa Cruz

Physical location

NOAA, National Marine Fisheries Service
Southwest Fisheries Science Center
Environmental Research Division
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Citizenship: U.S.A. and Colombia

Research Interests

Marine ecology and conservation; biological oceanography; management of protected resources (marine mammals, turtles, sharks, seabirds); tagging and tracking of pelagic top predators; characterization of biological “hot spots”; climate impacts on marine ecosystems; time series and statistical analyses of oceanographic data; effective visualization and communication of scientific data.

Education

- 1994 B.Sc., Marine Biology, University of Bogotá Jorge Tadeo Lozano, Bogotá, Colombia
Thesis: *“Population Status and Notes on the Breeding Ecology of the Pelecaniform Seabirds of the ‘Corales del Rosario’ National Park, Colombian Caribbean”*
Advisor: Prof. Luis G. Naranjo (Universidad del Valle, Cali, Colombia)
- 1997 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, 10 – 22 November 1997.
Instructors: M.-E. Carr, D. Halpern, H. Kawamura, V. Lutz, V. Montecino, T. Platt, J. Rutllant, S. Sathyendranath, T. Strub, A. Thomas, O. Ulloa
- 2003 Ph.D., Oceanography, Oregon State University, Corvallis, Oregon, U.S.A.
Dissertation: *“Oceanographic Conditions Around the Galápagos Archipelago and Their Influence on Cetacean Community Structure”*
Committee: Bruce R. Mate (Chair), William G. Percy, Charles B. Miller, P. Ted Strub

Professional Experience

10/12 – present Associate Researcher, step 2. Cooperative Institute for Marine Ecosystems and Climate, Institute of Marine Sciences, Division of Physical and Biological Sciences, University of California, Santa Cruz (based at NOAA/NMFS/SWFSC/ Environmental Research Division, Pacific Grove, California)

Duties: Plans and executes a research program in the area of critical pelagic habitat characterization in the context of long-term ocean dynamics and climate change. General area of interest includes the investigation of the processes and mechanisms by which atmospheric and upper-ocean variability impacts ecosystem productivity and community structure. Specific topics include the identification of the environmental factors that influence the ecology of marine top predators in pelagic ecosystems.

Examples: Participate in a program to assess the potential impact of seismic surveys on harbor porpoises in the vicinity of the PG&E Diablo Canyon power plant at Avila Beach in San Luis Obispo County, California.

Competencies: Familiarity with aerial survey methodologies for assessment of marine mammal populations. Familiarity with scientific instrumentation assembly, at-sea deployment and retrieval for autonomous recording of marine mammal vocalizations for long-term monitoring. Familiarity with scientific programming and statistical techniques for analyses and reporting of such data.

Supervisor: Dr. Steven J. Bograd and Dr. Karin Forney

7/04 – present Research Oceanographer. Joint Institute for Marine and Atmospheric Research, University of Hawai'i (based at NOAA/NMFS/SWFSC/ Environmental Research Division, Pacific Grove, California)

Duties: Investigate the environmental factors that influence the ecology of marine top predators in pelagic ecosystems. Advance understanding of ecosystem structure in critical habitats. Develop environmental indicators of biological productivity. Assist with writing proposals to solicit external funding.

Examples: As a member of the Tagging of Pacific Pelagics (TOPP) program since 2004 I have participated in collaborative, multi-disciplinary projects investigating the movements and habitat associations of blue and humpback whales, elephant seals, Hawaiian albatrosses, Galapagos penguins, leatherback and loggerhead sea turtles, and white sharks using electronic tags and remote sensing. These studies have ranged in scale from local (southern tip of Baja California peninsula) to regional (eastern North Pacific) to basin-wide.

Competencies: My work relies on generating, maintaining and integrating large databases for electronic tag data and remote sensing products (AVHRR, SeaWiFS, MODIS/Aqua, AVISO, QuikScat). This requires strong computer programming skills in Matlab for general database maintenance and analytical jobs, while statistical and habitat modeling analyses are done using the R language, and include techniques such as general linear and additive models, maximum entropy, environmental niche factor analysis, etc. Although this position has been primarily office-based, I regularly participated as an observer in an annual aerial line-transect survey for leatherback sea turtles off central California (all marine fauna is recorded routinely) in the

summer. Also, in 2008 I participated as oceanographic co-leader in a SWFSC leatherback-habitat cruise in California waters aboard R/V *David Starr Jordan*.

Accomplishments: As a direct result of this work I have participated as lead author or co-author in 13 articles in peer-reviewed journals, 3 more are in press and 2 are in preparation. Two of these articles have ranked among the “Top 25 Hottest Articles in *Deep-Sea Research II*” (Palacios 2004 and Palacios et al. 2006) and our Rasmussen et al. 2007 *Biology Letters* paper “Southern Hemisphere humpback whales wintering off Central America: insights from water temperature into the longest mammalian migration,” was listed at number 81 in the “Top 100 Science Stories of 2007” according to the January 2008 issue of *Discover Magazine*.

Supervisor: Dr. Steven J. Bograd

6/03 – 6/04 Postdoctoral Research Associate. National Academies/National Research Council (based at NOAA/NMFS/SWFSC/Pacific Fisheries Environmental Laboratory, Pacific Grove, California)

Duties: Investigate interannual-to-decadal climate variability in water-column structure of the North Pacific Ocean and its impacts on ecosystem productivity and community structure, with particular emphasis on the California Current. Develop environmental products and operational indicators that relate physical forcing to biological response in North Pacific ecosystems.

Examples: For this work I compiled a ~50-year (1950-1993) data set of water-column temperature profiles in the World Ocean Database and used output from state-space models to identify and track the changes in the thermocline during this period. This 50-year thermocline index has now been used in other studies to relate variability in biological parameters of several species of commercial interest in California Current fisheries to environmental variability.

Competencies: This work required advanced programming techniques in Matlab and relied heavily on advanced time-series analysis techniques like state-space models, trend analysis, and spectral analysis to identify and tease out climate signals.

Accomplishments: During my time as a postdoc I was the lead author of 2 articles in peer-reviewed journals and co-author of a third one. I also gave 3 invited seminars and 3 oral or poster presentations as lead author or co-author at international scientific conferences.

Advisors: Drs. Franklin B. Schwing and Steven J. Bograd

8/98 – 11/98 Photogrammetry Contractor. NOAA/NMFS/SWFSC/Protected Resources Division, La Jolla, California

Duties: Sailed on a SWFSC line-transect survey in the eastern tropical Pacific aboard NOAA ship *David Starr Jordan* in Fall 1998 with the specific task of taking vertical aerial photographs of dolphin schools from a helicopter. The large-format photographs were processed in the laboratory to generate independent counts for calibration with counts made by ship-based observers for improving the accuracy of abundance estimates based on line-transect methods by SWFSC scientists.

Competencies: Fieldwork involved spending extended periods of time at sea (several 20-day legs) in a remote region and safety training was required. Basic knowledge of photographic techniques and care of specialized equipment was essential.

Supervisor: Mr. Wayne L. Perryman

9/96 – 4/03 Graduate Research Assistant. Coastal Oregon Marine Experimental Station, Hatfield Marine Science Center, Oregon State University, Newport, Oregon

Duties: Conduct doctoral research to characterize distribution, habitat and community structure of cetaceans around the Galapagos Islands, eastern tropical Pacific. Assist major professor in several field expeditions to satellite-tag and track humpback whales in Hawaii and Alaska and sperm whales in the Gulf of Mexico and the Galapagos Islands.

Examples: Work for doctoral dissertation involved compiling a database of available sighting data from marine mammal ship-based surveys in the Galapagos Islands for correlation with data from satellite (AVHRR, SeaWiFS) and hydrographic (World Ocean Atlas) measurements. The end product was the integration of sighting data for 9 cetacean species to identify patterns of community structure in relation to environmental variability. As additional efforts, in 2000 I organized and led a ship-based line-transect survey for cetaceans in the Galapagos Islands lasting 19 days and resulting in some of the first quantitative abundance estimates for these waters. And in 2005 I was co-leader of the first expedition to document humpback whale occurrence around this archipelago.

Competencies: The field component of this work relied heavily on thorough understanding and correct application of line-transect theory and distance sampling, as well as on careful planning and adaptability under changing conditions. The 2000 cruise was organized on a shoestring budget and required resourcefulness to secure funding and permits, loan of equipment and qualified observers. The analytical component required the implementation of multivariate analytical techniques for community ordination such as diversity indices, cluster analyses, indicator species analyses, and non-metric multidimensional scaling.

Accomplishments: This work resulted in the publication of a Ph.D. dissertation and five articles in peer-reviewed journals. Working papers also were recently presented to the Scientific Committee of the IWC with the results of the 2000 and 2005 surveys and are being prepared for publication in a peer-reviewed journal. Seven oral or poster presentations as lead author or co-author were given at international scientific conferences.

Advisor: Dr. Bruce R. Mate

9/95 – 8/96 Visiting Scientist. NOAA/NMFS/SWFSC/Protected Resources Division, La Jolla, California

Duties: Generate estimates of cetacean abundance for the Exclusive Economic Zones of countries bordering the eastern tropical Pacific region from Mexico to Ecuador for management and conservation purposes. Assess the potential impact of incidental mortality of small cetaceans in artisanal fisheries in this region.

Competencies: Work required understanding of line-transect theory and distance sampling as well as specialized computer scripting for querying and subsampling the large SWFSC eastern tropical Pacific cetacean sighting database. I also participated in one leg of the 1996 SWFSC/ORCAWALE line-transect survey off Oregon, California and Washington aboard R/V *McArthur* as an independent observer.

Accomplishments: This work resulted in the publication of two SWFSC Administrative Reports that are widely used to date by scientists and agencies in several countries of the eastern tropical Pacific region. The work was presented as a working paper to the IWC Scientific Committee and 1 oral presentation was given at an international conference. Upon request from the IWC in 2008, an updated study documenting cetacean distribution and relative abundance in

the EEZ of Colombia from survey cruises and platforms of opportunity was prepared and is currently in press in a peer-reviewed journal.

Host: Dr. Tim Gerrodette

1/93 – 8/95 Marine Scientist. Ocean Alliance, Lincoln, Massachusetts.

Duties: Serve as part of a crew of 8 responsible for the daily operations aboard the 28-m sailing vessel R/V *Odyssey* during a year-long expedition to the Galapagos Islands of Ecuador to study sperm whale demographics, genetics, toxicology, behavior and acoustics. Collect data on the abundance, distribution and habitat use of other marine mammal species present in the archipelago. Serve as Spanish interpreter and assist with local authorities in terms of securing research and navigation permits.

Examples: Seventeen cruises lasting between 1 and 3 weeks were completed during the field period. Search effort for marine mammals during daylight hours amounted to 190 days and 15,251 km. Methods for marine mammal searching during these cruises involved visual surveys along the trackline during the daytime and acoustic monitoring using a towed hydrophone array during both day and night periods. Environmental and meteorological conditions were recorded every two hours along the track and the water column was sampled once a day using a CTD profiler to a nominal depth of 300 m. Photo-identification efforts resulted in 341 sperm whale individuals being identified. A catalog of photographs of identified sperm whales was prepared in collaboration with Dalhousie University scientists. Skin samples from sperm whales were collected while following their groups, either by picking up naturally shed skin with a dip-net (n = 39) or by taking skin/blubber samples using biopsy darts (n = 17). Documentation of cetacean strandings was also conducted covering the period 1923-1994. Fifty-three specimens were documented belonging to 12 species. Necropsies and morphometric measurements were performed on several of these specimens.

Competencies: Most standard techniques for studying marine mammals at sea were learned and applied during the field phase, including visual surveys, acoustic tracking with towed hydrophone arrays, photo-identification, scat sampling, and biopsy sampling. Laboratory techniques were learned during the office phase, including the creation of an Excel database containing all the expedition's data. I also assisted with the creation of photo-identification catalogs.

Accomplishments: I authored the final report describing the results of the expedition. I also was lead author on several peer-reviewed articles documenting cetacean strandings and the presence of blue whales and other unusual species around this oceanic archipelago.

Supervisor: Mr. Iain Kerr

Teaching Experience

- Instructor of a short course on “*Physical-Biological Interactions in the Ocean: Scales, Applications, and Tools*,” Master’s program, Department of Physical Oceanography, Escuela Naval de Cadetes “Almirante Padilla,” Cartagena, Colombia, 30 November – 2 December 2006. Hours: 18 h total; 10 h lectures and 8 h student-led presentations of relevant articles. Enrollment: 11.
- Teaching Assistant for two (one upper-division undergraduate and one graduate) courses in “*Biological Oceanography*,” College of Oceanic and Atmospheric Sciences, Oregon State

University, Corvallis, Oregon, winter term 1999. Instructor: Charles B. Miller. Lectured, graded exams and held office hours. Enrollment: 12 and 25, respectively.

Seagoing Experience

- Observer, NOAA/NMFS/SWFSC annual aerial line-transect surveys for marine mammals and sea turtles off central California, aircraft types: *Twin Otter* and *Partenavia P.68 Observer*, 2007-2012
- R/V *David Starr Jordan*, Senior Oceanographer, Leatherback Use of Foraging Habitat (LUTH) survey, 24 August – 6 September 2008
- R/V *Chiripanga*, scientific party, humpback whale occurrence and photo-identification, Chiriquí Whale Project, Panama, 10-16 August 2007
- S/V *Bronzewing*, Cruise Co-Leader, Galápagos Humpback Whale Expedition, Fundación Ecuatoriana para el Estudio de Mamíferos Marinos, 31 August – 10 September 2005
- R/V *Gyre*, satellite tagging team, Sperm Whale Seismic Study in the Gulf of Mexico (SWSS), Minerals Management Service, 19 June – 9 July 2002
- R/V *Odyssey*, Chief Scientist, GalCet2K: A Line-transect Survey for Cetaceans Across an Environmental Gradient off the Galápagos Islands, Oregon State University, 5-19 April 2000
- R/V *Never Satisfied*, satellite tagging team, humpback whale satellite tagging in Hawaii, Oregon State University, 4-14 December 1999
- R/V *David Starr Jordan*, Photogrammetrist, *Stenella* Abundance Research project (STAR), eastern tropical Pacific, NOAA/NMFS/SWFSC, 18 August – 16 November 1998
- R/V *'Cille*, scientific party, humpback whale satellite tagging in southeast Alaska, Oregon State University, 29 July – 20 August 1997
- R/V *McArthur*, Observer, Oregon, California, and Washington Marine Mammal Survey (ORCAWALE), NOAA/NMFS/SWFSC, 17 July – 15 August 1996
- R/V *Odyssey*, scientific party, Galápagos Sperm Whale Expedition, Whale Conservation Institute, March 1993 – April 1994 (conducted 17 cruises)

Professional Affiliations

- American Geophysical Union (AGU)
- The Oceanography Society (TOS)
- Latin American Society of Aquatic Mammal Specialists (SOLAMAC)
- Sociedad Mexicana de Mastozoología Marina (SOMEMMA)
- Society for Marine Mammalogy (SMM)
- American Cetacean Society (ACS)
- Pacific Seabird Group (PSG)

Professional Service

- Member, IUCN-Species Survival Commission, Cetacean Specialist Group, 2011 – present
- Member of the Scientific Committee of the International Whaling Commission, 2008 – present

- Guest editor of upcoming special volume on marine mammal habitat modeling for *Endangered Species Research*, 2009 – present
- Editor-in-Chief, *Latin American Journal of Aquatic Mammals*, 2009 – present
- Assistant Editor, *Latin American Journal of Aquatic Mammals*, 2008 – 2009
- Associate Editor, *Latin American Journal of Aquatic Mammals*, 2005 – 2007
- Member, Editorial Board, *Latin American Journal of Aquatic Mammals*, 2002 – 2004
- Member, Editorial Board, *Boletín Científico CIOH* (the journal of the Center for Oceanographic and Hydrographic Research of Colombia's Navy), 2008 – present
- Co-editor, *MARMAM*, an e-mail-based discussion list on marine mammal research and conservation, 1998 – 2004
- Reviewer of research articles for *Acta Theriologica*; *Biology Letters*; *Caribbean Journal of Science*; *Ciencias Marinas*; *Continental Shelf Research*; *Deep-Sea Research I and II*; *Ecological Applications*; *Endangered Species Research*; *Estuarine, Coastal and Shelf Science*; *Geophysical Research Letters*; *Journal of the Marine Biological Association of the United Kingdom*; *Journal of Marine Systems*; *Marine Ecology Progress Series*; *Marine Mammal Science*; *PLoS ONE*; and *Progress in Oceanography*
- Reviewer of research proposals for California Sea Grant and Colciencias (Colombia's government science funding agency)
- Member, Oceanography Working Group, Tagging of Pacific Pelagics Program, 2003 – 2010
- Science Judge for the annual competitions of the National Ocean Sciences Bowl, 1999 – 2010

Honors and Awards

- National Academies, National Research Council Postdoctoral Research Associateship, NOAA/NMFS/SWFSC, Pacific Fisheries Environmental Laboratory, 2003-2004
- The Honor Society of Phi Kappa Phi, 2001 – present
- “*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, Italian, and Portuguese
- Proficient in most common applications for the UNIX, Mac and PC platforms. Programming ability in Matlab, R, XML and HTML
- Basic knowledge of boat handling and navigation
- Trained in aerial safety and cold weather survival
- Experienced SCUBA diver since 1990 (Open Water and Advanced PADI certifications)

Students Advised

- Mario A. Pardo. Ph.D. committee, Universidad Nacional Autónoma de México, México, D.F. Pending.
- Nadya Ramírez, B.Sc. advisor, University of Bogotá, Jorge Tadeo Lozano, Bogotá, Colombia. 2010.
- Julio C. Herrera, M.Sc. mentor, Universidad del Valle, Cali, Colombia. 2009.
- Mario A. Pardo. M.Sc. mentor, Centro Interdisciplinario de Ciencias Marinas, Instituto Politécnico Nacional, La Paz, México. 2009.
- Cristina Jiménez. B.Sc. committee, University of Bogotá, Jorge Tadeo Lozano, Santa Marta, Colombia. 2007.
- Kristin Rasmussen. M.Sc. committee, Moss Landing Marine Laboratories, California State University. 2006.
- Mario A. Pardo. B.Sc. committee, University of Bogotá, Jorge Tadeo Lozano, Santa Marta, Colombia. 2005.

Grants and Funding

NASA Science Mission Directorate (ROSES-2011), USD \$507.4 K, 2011-2014, “*WhaleWatch: A Tool Using Satellite Telemetry and Remote Sensing Environmental Data to Provide Near Real-Time Predictions of Whale Occurrence in the California Current System to Reduce Anthropogenic Impacts.*” PIs: H. Bailey, S. Bograd, D. Palacios, E. Hazen, K. Forney, B. Mate, and E. Howell.

NASA Applied Sciences (ROSES-2007), \$889.4 K, 2008-2011, “*Integrating Ocean Observing Data to Enhance Protected Species Spatial Decision Support Systems.*” PIs: P.N. Halpin, K.A. Forney, L.T. Ballance, J.V. Redfern, S.J. Bograd, **D.M. Palacios**, D.G. Foley, M.C. Ferguson, E.A. Becker.

NOAA/NMFS/Northwest Fisheries Science Center, \$20 K subcontract to **D.M. Palacios** and C. Bessey, 2007, “*Evaluation of the Relationship Among Time of Ocean Entry, Physical, and Biological Characteristics of the Estuary and Plume Environment, and Adult Return Rates.*” PIs: W.D. Muir, and R.L. Emmett. (Funded by Bonneville Power Administration).

NOAA Fisheries and the Environment (FATE), \$85 K, 2007, “*The Phenology of Coastal Upwelling in the California Current.*” PIs: S.J. Bograd, **D.M. Palacios**, W.J. Sydeman, S.R. Benson, M.H. Carr, and M.D. Readdie.

NASA, \$300 K, 2007-2008, “*Integrating Environmental, Fisheries, and Electronic Tag Data to Characterize Essential Sea Turtle Habitat in Areas of Significant Bycatch.*” PIs: S. Bograd, E. Howell, C. Orphanides, **D. Palacios**, G. Shillinger, K. Murray, B. Block, J. Polovina, and Y. Chao.

National Science Foundation-NOAA, \$1.27 M, 2005-2007, US-GLOBEC NEP Phase IIIa-CCS: “*Large-scale Influences on Mesoscale Structure in the CCS, A Synthesis of Climate-Forced*

Variability in Coastal Ecosystems.” PIs: F. Schwing, S. Bograd, R. Mendelssohn, **D. Palacios**, P. Stegmann, T. Strub, A. Thomas, and A. Huyer.

Publications and Presentations (as of 28 January 2013)

Total number of peer-reviewed publications:

Articles: **38**

Book chapters: **6**

Citation metrics in *Google Scholar*

Sum of times cited: **900**

Average citations per article: **19.73**

h-index = **17**

i10-index = **24**

In preparation, submitted, and in press

Steinfurth, A.; Vargas, H.; **Palacios, D.M.**; MacDonald, D. In prep. Breeding distribution and phenology of the Galápagos penguin (*Spheniscus mendiculus*): Implications for conservation.

Palacios, D.M., and K.A. Forney. In prep. Cetacean abundance on the western side of the Galápagos Islands during April 2000. For submission to Journal of Cetacean Research and Management.

Kappes, M.A., S.A. Shaffer, Y. Tremblay, D.G. Foley, **D.M. Palacios**, S.J. Bograd, and D.P. Costa. In prep. Reproductive constraints impact habitat accessibility, segregation, and preference of sympatric albatross species in a subtropical breeding environment. For submission to Ecological Monographs.

Hassrick, J.L., **D.M. Palacios**, S.D. Newsome, D. Auriolles-Gamboa, P.L. Koch, D.E. Crocker and D.P. Costa. In prep. Individual foraging specialization and route fidelity in a mesopelagic predator, the northern elephant seal. For submission to Marine Ecology Progress Series.

Palacios, D.M., E. Hazen, I. Schroeder, and S.J. Bograd. Submitted. Modeling the temperature-nitrate relationship in the coastal upwelling domain of the California Current. Journal of Geophysical Research.

Pardo, M.A., N. Silverberg, D. Gendron, E. Beier, and **D.M. Palacios**. In press. Role of environmental seasonality in the turnover of a cetacean community in the southwestern Gulf of California. Marine Ecology Progress Series Theme Section “Mechanisms of Physical-Biological Coupling Forcing Marine Hotspots”.

Jiménez-Pinedo, C., C. Domínguez-García, M.A. Pardo, F. Trujillo, J.M. Avila, and **D.M. Palacios**. In press. Cetacean occurrence in the Tayrona National Park, a marine protected area in the Colombian Caribbean. Latin American Journal of Aquatic Mammals.

Peer-reviewed

- [38] Fiedler, P.C., R. Mendelssohn, **D.M. Palacios**, and S.J. Bograd. 2013. Pycnocline variations in the eastern tropical and North Pacific, 1958-2008. *Journal of Climate* 26:583-599, doi:10.1175/JCLI-D-11-00728.1.
- [37] Páez-Rosas, D., D. Aurióles-Gamboa, J.J. Alava, and **D.M. Palacios**. 2012. Stable isotopes indicate differing foraging strategies in two sympatric otariids of the Galapagos Islands. *Journal of Experimental Marine Biology and Ecology* 424-425:44-52, doi:10.1016/j.jembe.2012.05.001.
- [36] **Palacios, D.M.**, J.C. Herrera, T. Gerrodette, C. García, G.A. Soler, I.C. Avila, S. Bessudo, E. Hernández, F. Trujillo, L. Flórez-González, and I. Kerr. 2012. Cetacean distribution and relative abundance in Colombia's Pacific EEZ from survey cruises and platforms of opportunity. *Journal of Cetacean Research and Management* 12(1):45-50.
- [35] Félix, F., **D.M. Palacios**, S.K. Salazar, S. Caballero, B. Haase, and J. Falconí. 2011. The 2005 Galápagos Humpback Whale Expedition: A first attempt to assess and characterize the population in the archipelago. *Journal of Cetacean Research and Management (Special Issue 3)*:291-299.
- [34] Wingfield, D.K., S.H. Peckham, D.G. Foley, D.M. Palacios, B.E. Lavaniegos, R. Durazo, W.J. Nichols, D.A. Croll, and S.J. Bograd. 2011. The making of a productivity hotspot in the coastal ocean. *PLoS ONE* 6(11): e27874, doi:10.1371/journal.pone.0027874.t001.
- [33] Borobia, M., **D.M. Palacios**, R.S. Wells, M.K. Stolen, and E.R. Secchi. 2010. Nélio Baptista Barros (1960-2010) – a pioneer at home and abroad. *Latin American Journal of Aquatic Mammals* 8(1-2): 191-192, doi:10.1057/lajam00149.
- [32] Santos, M.C.O., C. Olavarría, M. Borobia, S. Caballero, E.R. Secchi, S. Siciliano, and **D.M. Palacios**. 2010. A Tale of Two Dolphins: Introduction to the Special Volume on the Biology and Conservation of Neotropical Dolphins of the Genus *Sotalia*. *Latin American Journal of Aquatic Mammals* 8(1-2): 9-23, doi:10.1057/lajam00148.
- [31] Kappes, M.A., S.A. Shaffer, Y. Tremblay, D.G. Foley, **D.M. Palacios**, P.W. Robinson, S.J. Bograd, and D.P. Costa. 2010. Hawaiian albatrosses track interannual variability of marine habitats in the North Pacific. *Progress in Oceanography* 86:246-260, doi: 10.1016/j.pocean.2010.04.012.
- [30] Lonin, S.A., J.L. Hernández, and **D.M. Palacios**. 2010. Atmospheric events disrupting coastal upwelling in the western Caribbean. *Journal of Geophysical Research-Oceans* 115, C06030, doi:10.1029/2008JC005100.
- [29] Pardo, M.A., A. Mejía-Fajardo, S. Beltrán-Pedrerros, F. Trujillo, I. Kerr, and **D.M. Palacios**. 2009. Odontocete sightings collected during offshore cruises in the western and southwestern Caribbean Sea. *Latin American Journal of Aquatic Mammals* 7(1-2):57-62, doi:10.5597/lajam00135.
- [28] Pardo, M.A., C. Jiménez-Pinedo, and **D.M. Palacios**. 2009. The false killer whale (*Pseudorca crassidens*) in the southwestern Caribbean: first stranding record in Colombian waters. *Latin American Journal of Aquatic Mammals* 7(1-2):63-67, doi:10.5597/lajam00136.
- [27] Bailey, H., B.R. Mate, **D.M. Palacios**, L. Irvine, S.J. Bograd, and D.P. Costa. 2009. Behavioural estimation of blue whale movements in the Northeast Pacific from state-space model analysis of satellite tracks. *Endangered Species Research* 10:93-106, doi:10.3354/esr00239.

- [26] Schramm, Y., S.L. Mesnick, J. de la Rosa, **D.M. Palacios**, M.S. Lowry, D. Auriolles-Gamboa, H.M. Snell, and S. Escorza-Treviño. 2009. Phylogeography of California and Galápagos sea lions and population structure within the California sea lion. *Marine Biology* 156(7):1375-1387, doi:10.1007/s00227-009-1178-1.
- [25] Shillinger, G.L., **D.M. Palacios**, H. Bailey, S.J. Bograd, A.M. Swithenbank, P. Gaspar, B.P. Wallace, J.R. Spotila, F.V. Paladino, R. Piedra, S.A. Eckert, and B.A. Block. 2008. Persistent leatherback turtle migrations present opportunities for conservation. *PLoS Biology* 6(7), e171, doi:10.1371/journal.pbio.0060171.
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Invited presentations

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- [25] **Palacios, D.M.**, C.C.A. Martins, C. Gómez-Salazar, and C. Olavarría. 2012. La mastozoología acuática en América Latina: un análisis bibliométrico y de autorías para los primeros ocho años del *Latin American Journal of Aquatic Mammals* (2002-2010). XXXIII Reunión Internacional para el Estudio de los Mamíferos Marinos, Sociedad Mexicana de Mastozoología Marina, A.C., San Patricio Melaque, Jalisco, Mexico, 6-9 May 2012.
- [24] **Palacios, D.M.** 2011. The importance of scientific innovation and synergies in the conservation of the ocean's natural resources. Annual Conference of the Society for the Advancement of Chicanos and Native Americans in Science, San José, California, USA, 28 October 2011.
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- [22] **Palacios, D.M.** 2011. Migration routes and ecology of the Northeast Pacific blue whale. Regional Workshop on Integration, Mapping, and GIS Analysis of Large Cetacean Migration Routes, Critical Habitats and Human Threats in the Eastern Pacific, Salinas, Ecuador, 26-28 May 2011.
- [21] **Palacios, D.M.** 2011. Climatic variability: processes, scales and impacts on ocean ecosystems and marine mammals. Southern California Marine Mammal Workshop, Newport Beach, California, USA, 21-22 January 2011.
- [20] **Palacios, D.M.**, B.R. Mate, L. Irvine, H. Bailey, S.J. Bograd, and D.P. Costa. 2010. Habitat models for the Northeast Pacific blue whale from satellite tracking and remote sensing. Workshop "Reducing vessel strikes of large whales in California," Aquarium of the Pacific, Long Beach, California, USA, 19-20 May 2010.
- [19] **Palacios, D.M.**, B.R. Mate, L. Irvine, H. Bailey, S.J. Bograd, and D.P. Costa. 2010. Environmental correlates of movement behavior in Northeast Pacific blue whales from

- state-space modeled satellite tracks and remote sensing. Biological Sciences Departmental Seminar, San José State University, San Jose, California, USA, 28 April 2010.
- [18] **Palacios, D.M.** 2010. Considerations for Marine Wilderness: From Environmental Variability to Top Predators. Panel “Marine Wilderness: Protecting Wilderness Values on the Other 70% of the Planet,” Western Wilderness Conference, UC Berkeley, Berkeley, California, USA, 9 April 2010.
- [17] **Palacios, D.M.** 2010. Observation experience and synthesis of knowledge on the oceanography of the California Current System. Workshop “Guajira coastal upwelling system, Colombian Caribbean: Current knowledge and research perspectives,” Escuela Naval de Cadetes “Almirante Padilla,” Cartagena, Colombia, 26-28 November 2009.
- [16] **Palacios, D.M.** 2009. Explorations of the Pacific Ocean: The top predator perspective. Research Seminar Series, California Academy of Sciences, San Francisco, California, USA, 5 November 2009.
- [15] **Palacios, D.M.** 2009. Environmental data and data sources. Workshop “*Ecological Modeling for Marine Mammalogists*,” 18th Biennial Conference on the Biology of Marine Mammals, Quebec City, Canada, 11 October 2009.
- [14] **Palacios, D.M.**, H. Bailey and S.J. Bograd. 2009. The influence of oceanographic processes on top predator distribution and community structure. Workshop on “Climate Change and Adaptation Options for Cetaceans and Other Marine Biodiversity of the Eastern Pacific,” Heredia, Costa Rica, 9-11 February 2009.
- [13] **Palacios, D.M.** 2008. Top predator ecology in the North Pacific: scales, processes and patterns. School of Natural Sciences, Quantitative & Systems Biology and Biological Engineering & Small-scale Technologies seminar, University of California, Merced, California, USA, 17 October 2008.
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- [11] **Palacios, D.M.**, S.J. Bograd, F.B. Schwing, and R. Mendelsohn. 2006. Modeling the temperature-nitrate relationship in the California Current. “*John and Mary Louise Riley*” seminar series, Bodega Marine Laboratory, University of California Davis, Bodega Bay, California, USA, 8 March 2006.
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- [9] **Palacios, D.M.** 2005. The role of long-term satellite-derived time series in characterizing oceanographic hot spots. “*TOPP-OBIS-FMAP Workshop on Biological Hot Spots*”, Hopkins Marine Station, Stanford University, Pacific Grove, California, USA, 7-8 December 2005.
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- Hopkins Marine Station, Stanford University, Pacific Grove, California, USA, 28 April 2005.
- [6] **Palacios, D.M.** 2004. Mamíferos marinos de las Islas Galápagos: Ciencia, conservación, y manejo (plenary presentation). Page 6 in Libro de Resúmenes, 11a Reunión de Trabajo de Especialistas en Mamíferos Acuáticos de América del Sur y 5o Congreso de la Sociedad Latinoamericana de Especialistas en Mamíferos Acuáticos, Quito, Ecuador, 11-17 September 2004.
- [5] **Palacios, D.M.**, and S.J. Bograd. 2004. Marine mammal response to an ENSO transition in the Galapagos Plume. “*NASA/Aquarium of the Pacific Galapagos Workshop*”, Long Beach, California, USA, 7-8 June 2004.
- [4] **Palacios, D.M.** 2003. Cetacean community structure around the Galápagos in relation to environmental heterogeneity and seasonal change. NOAA/NMFS/SWFSC/Pacific Fisheries Environmental Laboratory, Pacific Grove, California, USA, 25 November 2003.
- [3] **Palacios, D.M.** 2002. Oceanographic conditions and cetacean habitats around the Galápagos Islands (plenary presentation). Page 130 in Libro de Resúmenes, 10a Reunión de Trabajo de Especialistas en Mamíferos Acuáticos de América del Sur y 4o Congreso de la Sociedad Latinoamericana de Especialistas en Mamíferos Acuáticos, Valdivia, Chile, 14-29 October 2002.
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- [1] **Palacios, D.M.** 1999. Habitats and distribution patterns of Galápagos marine mammals. Symposium “*Galapagos: Ecology, Evolution and Conservation in Darwin's Islands*”, 80th Annual Meeting, American Association for the Advancement of Science, Pacific Division, San Francisco, California, USA, 22-23 June 1999.

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