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EDUCATION

- 2000 Doctor of Philosophy
 University of California, Irvine
 Irvine, CA 92697
 Marine Ecology Lab
 Advisor: George L. Hunt, Jr.
- 1995 Master of Science in Marine Science
 Moss Landing Marine Laboratories/San Jose State University
 Moss Landing, CA 95039-0450
 Vertebrate Zoology Laboratory
- 1989 Bachelor of Science
 University of Miami, Coral Gables, Florida
 Double Major: Marine Science/Biology

RESEARCH & RELATED EXPERIENCE

- 2002-current **ASSISTANT PROFESSOR OF BIOLOGY:** Joint Science Department, The Claremont Colleges, Claremont, CA
- 2000-2002 **POST-DOCTORAL/RESEARCH ASSOCIATE:** Washington Department of Fish and Wildlife, Olympia, WA. Project Title-The use of cytochrome b to determine genetic variability among eastern and western Pacific populations of a cosmopolitan seabird, the sooty shearwater
- 1996-2000 **DISSERTATION PROJECT:** The Influence of Anomalous Weather Patterns on the Foraging Ecology and Nutritional Status of Shearwaters
- 1997-1999 **RESEARCH ASSISTANT:** Coordinated marine ornithology group on 5 research cruises in the southeastern Bering Sea aboard the R/V Alpha Helix, University of Alaska, Fairbanks. PI: George L. Hunt, Jr.
- 1996-1997 **INDEPENDENT RESEARCHER/VOLUNTEER:** The role of parent and offspring condition on provisioning in a Procellariiform seabird, the wedge-tailed shearwater (*Puffinus pacificus*). Special use permit granted by U.S. Fish and Wildlife Service, Hawaiian Islands National Wildlife Refuge

TEACHING & RELATED EXPERIENCE

- 2000-2002 **VISITING ASSISTANT PROFESSOR OF BIOLOGY:** Joint Science Department, The Claremont Colleges, Claremont, CA, responsible for teaching Upper Division Marine Ecology with lab, Biostatistics, Introductory Biology Laboratory, and Marine Biology for non-science majors
- 1995-1998 **TEACHING ASSISTANT:** University of California, Irvine
Upper division Ocean Ecology, General Ecology for majors, Ecology for Non-majors, Introductory Biology for Non-Majors, Freshwater Biology Lab
- 1996-1999 **MENTOR/SUPERVISOR:** Undergraduate research projects in Biological Sciences, UC Irvine, supervised 7 undergraduates who conducted independent research in my lab

OTHER RELATED FIELD AND TEACHING EXPERIENCE

- 1995 **EARTHWATCH RESEARCHER/INSTRUCTOR:** Movements of sub-adult lemon sharks in a Bahamian Lagoon, Bimini, Bahamas. PI's: Samuel H. Gruber and Jean de Marignac
- 1991-1995 **MASTER'S THESIS PROJECT:** Feeding Ecology of Basking Sharks (*Cetorhinus maximus*) Relative to Distribution and Abundance of Prey
- 1994 **MARINE MAMMAL SHIPBOARD OBSERVER:** Moss Landing Marine Laboratories, Moss Landing, CA
- 1994 **TEACHER'S ASSISTANT,** Moss Landing Marine Laboratories, Moss Landing, CA
Advanced Marine Bird and Mammal Ecology class/Ecology of Birds and Mammals in Elkhorn Slough, CA
- 1992-1995 **NATURALIST/TOUR GUIDE/KAYAK INSTRUCTOR:** Monterey Bay Kayaks, Monterey, California

GRANTS & FELLOWSHIPS

- 2004 Northwest Fish and Wildlife Federation. Co-investigator with K.D. Hyrenbach, M. Hester, J. Adams and K. Keiper. Exploring Albatross Movements: Coupling Highly Mobile Predators and Productive Bathymetric Habitats. \$60,000
- 2004 Oiled Wildlife Care Network, University of California at Davis. Co-investigator with J. Adams, J.T. Harvey, and K.D. Hyrenbach. 'Body condition and oceanographic determinants of Sooty Shearwater movements: a model for post-release survival studies in seabirds'. \$50,000
- 2003 Keck Faculty Research Grant, Joint Science Department, The Claremont Colleges, \$15,000
- 2003 Mellon Foundation Research Grant, \$5,000
- 2002 Pitzer College Faculty Research Grant \$1500
- 2001 Keck Research Grant, Joint Science Department, The Claremont Colleges, \$1500

ACADEMIC & PROFESSIONAL ACTIVITIES

Professional Memberships

American Ornithologists Union
American Society of Limnology and Oceanography
Audubon Society
Pacific Seabird Group
Sigma Xi

University Service

1. Pomona Valley Audubon Association-Invited speaker, 7 February 2002, 1 April 2004
2. Judicial Council-Pitzer College-Academic Year, 2002/ 2003
3. Bernard Field Station-Scientific Advisory Board, Fall 2002-current
4. Pomona Catholic High School –Judge for Poster Session-Annual Science Fair, 12th March, 2003, March 2004
5. Scripps Board of Trustees Retreat, March 2003
6. Faculty Search Committee-Temporary Sabbatical Replacements (2), Spring 2003
7. Faculty Search Committee-Assistant Professor of Biology (Ecologist), Fall 2003
8. Faculty Search Committee-Assistant Professor of Biology (Community Ecologist) for Biology Department at Pomona College, Fall 2003
9. Organizer-Joint Science Department Wednesday Seminar Series-2003/2004

PRESENTATIONS

Invited presentations and Contributed Papers at Scientific Meetings and Symposia

- Baduini, C.L., and K.I. Warheit. 2005. Analysis of population structure among Sooty Shearwater (*Puffinus griseus*) populations from the eastern and western Pacific Ocean using mitochondrial DNA. Oral Presentation at the 32nd Annual Meeting of the Pacific Seabird Group (held jointly with the Waterbird Society), Portland, Oregon, 19-23 January 2005.
- Adams, J. K.D. Hyrenbach, C.L. Baduini, J.T. Harvey. 2005. Tracking the movements and trans-Pacific migration of sooty shearwaters captured off central California. Oral Presentation at the 32nd Annual Meeting of the Pacific Seabird Group (held jointly with the Waterbird Society), Portland, Oregon, 19-23 January 2005.
- Baduini, C.L., and K.I. Warheit. 2004. Analysis of population structure among Sooty Shearwater (*Puffinus griseus*) populations from the eastern and western Pacific Ocean using mitochondrial cyt b and control regions. Oral Presentation at the Third International Albatross and Petrel Conference, IAPC, August 2004. Montevideo, Uruguay. South America.
- Hyrenbach, K.D., C.L. Baduini, M. Hester, C. Keiper, and J. Adams. 2004. Post breeding movements and habitats of the Black-Footed Albatross and Sooty Shearwater. Poster Presentation at the Third International Albatross and Petrel Conference, IAPC, August 2004. Montevideo, Uruguay. South America
- Baduini, C.L. 2003. Biogeography of foraging strategies among Procellariiform seabirds: How productivity in surrounding waters influences provisioning. Oral Presentation at the 30th Annual Meeting of the Pacific Seabird Group, Parksville, British Columbia, Canada 19-22 February 2003.
- Baduini, C.L., and K.I. Warheit. 2002. Analysis of the geographic structure of Sooty Shearwater populations from the eastern and western Pacific Ocean using mitochondrial DNA. Oral

Presentation at the 29th Annual Meeting of the Pacific Seabird Group, Santa Barbara, California, 20-23 February 2002.

Jahncke, J., K.D. Hyrenbach, C.L. Baduini, K.O. Coyle, and G.L. Hunt, Jr. 2002. Distribution of foraging shearwaters with respect to the inner front of the Southeastern Bering Sea. Poster Presentation at the 29th Annual Meeting of the Pacific Seabird Group, Santa Barbara, California, 20-23 February 2002.

Baduini, C.L. 2001. Parental Provisioning Patterns in Wedge-tailed Shearwaters and Their Comparison to Foraging Strategies of Other Procellariiform Seabirds. Poster Presentation at the 28th Annual Meeting of the Pacific Seabird Group, Lihue, Kauai, Hawaii, 7-11 February 2001.

Baduini, C.L., and G.L. Hunt, Jr. 2000. The Influence of Weather on Seabird Foraging Conditions. Oral Presentation to the American Society of Limnology and Oceanography, San Antonio, Texas 24-28 January, 2000.

Stabeno, P.J., N.A. Bond, C.L. Baduini, G.L. Hunt, Jr., N.B. Kachel, J.D. Schumacher, and T.E. Whitley. The Significance of Seasonal Wind Patterns in Forcing Biological Processes in the Eastern Bering Sea. Invited Oral Presentation to the American Society of Limnology and Oceanography, San Antonio, Texas 24-28 January, 2000.

Baduini, C.L., K.D. Hyrenbach, and G.L. Hunt, Jr. 1999. Anomalous Weather Events in the Southeastern Bering Sea: the Condition of Short-tailed Shearwaters in 1997 and 1998. Invited Oral Presentation to Symposium on Climate Variability and Seabird Response, Pacific Seabird Group 26th Annual Meeting, Blaine, Washington, 24-28 February, 1999.

Baduini, C.L., and G.L. Hunt, Jr. 1999. Anomalous weather events in the southeastern Bering Sea and the condition of short-tailed shearwaters. Poster presentation at The Oceanographic Society Meetings Symposium on "Extreme and Unexpected Phenomena in the Ocean", Reno, Nevada, 27-30 April 1999.

Hunt, G.L., Jr., C.L. Baduini, R.D. Brodeur, K.O. Coyle, J.M. Napp, J.D. Schumacher, P.J. Stabeno, D.A. Stockwell, T.E. Whitley, and S.I. Zeeman. 1999. Ecosystem Responses of the Southeastern Bering Sea to Abnormal Weather Patterns in 1997 and 1998. Oral Presentation at The Oceanographic Society Meetings Symposium on "Extreme and Unexpected Phenomena in the Ocean", Reno, Nevada, 27-30 April 1999.

Hunt, G.L., C. Baduini, K.O. Coyle. 1999. Effects of Interannual Variation in Weather Patterns on the Foraging Ecology and Survival of Shearwaters in the Southeastern Bering Sea. Oral Presentation to the American Society of Limnology and Oceanography, Santa Fe, New Mexico, 1-5 February, 1999.

Baduini, C.L., G.L. Hunt, Jr, K.O. Coyle, A. Pinchuk, and K.D. Hyrenbach. 1998. Ecosystem Anomalies in the Eastern Bering Sea: Starvation of Short-tailed Shearwaters from an Apparent Lack of Available Euphausiids. Poster Presentation to the American Geophysical Union, 1998 Ocean Sciences Meeting, San Diego, California, 9-13 February, 1998.

Baduini, C.L., G.L. Hunt, Jr. and K.D. Hyrenbach. 1998. Die-off and starvation of short-tailed shearwaters (*Puffinus tenuirostris*) in relation to prey availability in the Eastern Bering Sea. Oral Presentation to the Pacific Seabird Group 25th Annual Meeting, Monterey, California, 21-25 January 1998.

Invited presentations and seminars to the community

- Baduini, C.L. 2004. Analysis of population geographic structure among Sooty Shearwater populations from the eastern and western Pacific Ocean using mitochondrial cytochrome *b* and control regions DNA. Invited speaker for Biology Summer Seminar Series, Pomona College, Harvey Mudd College, Joint Science Department of the Claremont Colleges. July 2004.
- Baduini, C.L. 2004. The Versatile Lifestyle of Sooty Shearwaters: From the Temperate Rainforests to the Pelagic Oceans and Back. Invited Speaker for the Pomona Valley Audubon Association. 1 April 2004.
- Baduini, C.L. 2002. Declines of a transequatorial migrating seabird, the sooty shearwater: Implications for population genetics. Invited Speaker for the Pomona Valley Audubon Association. 7 February 2002.
- Baduini, C.L. 2001. The influence of weather and prey availability to short-tailed shearwaters in the Southeastern Bering Sea. Invited speaker for Biology seminar series, Pomona College, Pomona, CA. January 2001.
- Baduini, C.L. 2000. How weather influences ocean conditions and prey availability to a marine predator in the Bering Sea. Invited speaker for Marine Ecology Lecture Series, Scripps Institution of Oceanography, La Jolla, CA. 1 November 2000.

PUBLICATIONS

Peer-reviewed journal publications

- Baduini, C.L. and , K.I. Warheit. (In Prep) Analysis of populationGeographic structure among Sooty Shearwater populations from the eastern and western Pacific Ocean using mitochondrial cytochrome *b* and control regions DNA. *Molecular Ecology*.
- Baduini, C.L., G.L. Hunt, K.O. Coyle, A.I. Pinchuk. (In Prep) Spatial and temporal trends in trophic transfer of nutrients to Short-tailed Shearwaters in the Southeastern Bering Sea Ecosystem using diet, stable isotope, and fatty acid analyses. *Mar. Ecol. Prog. Ser.*
- Baduini, C.L. and K.D. Hyrenbach. 2003. Biogeography of Procellariiform foraging strategies: does ocean productivity influence provisioning? *Marine Ornithology* 31: 101-112.
- Baduini, C.L. 2002. Parental provisioning patterns of Wedge-tailed Shearwaters and their relation to chick body condition. *The Condor* 104: 823-831.
- Baduini, C.L., J.R. Lovvorn, and G.L. Hunt, Jr. 2001. Determining the nutritional condition of short-tailed shearwaters (*Puffinus tenuirostris*): implications for migratory flight ranges and starvation events. *Mar. Ecol. Prog. Ser.* 222: 265-277.
- Baduini, C.L., K.D. Hyrenbach, K.O. Coyle, A. Pinchuk, V. Mendenhall, and G.L. Hunt. 2001. Mass mortality of short-tailed shearwaters in the southeastern Bering Sea during summer 1997. (in series with other papers on the anomalous weather conditions in the southeastern Bering Sea). *Fisheries Oceanography* 10 (1) : 117-130.

- Baduini, C.L. 1997. Spatial and temporal patterns of zooplankton biomass in Monterey Bay, California during the 1991-1993 El Niño and an assessment of the sampling design. California Cooperative Fisheries Investigations (CalCOFI) Rep. 38: 193-198.
- Hunt, G.L., Jr., C.L. Baduini, and J. Jahncke. 2002. Diets of Short-tailed shearwaters in the Southeastern Bering Sea. *Deep Sea Research II* 49 (26): 6147-6156.
- Hunt, G.L., Jr., C.L. Baduini, R.D. Brodeur, K.O. Coyle, N. Kachel, J.M. Napp, S. Salo, J.D. Schumacher, P.J. Stabeno, D.A. Stockwell, T.E. Whitley, and S.I. Zeeman. 1999. The Bering Sea in 1998: The second consecutive year of extreme weather-forced anomalies. *EOS, Transactions, American Geophysical Union* 80 (47): 561-566.
- Lowvorn, J.R., C.L. Baduini, and G. L. Hunt, Jr. 2001. Modeling underwater visual and filter-feeding by planktivorous shearwaters in unusual sea conditions. *Ecology* 82 (8): 2342-2356.
- Hyrenbach, K.D., C.L. Baduini, and G.L. Hunt, Jr. 2001. Line transect estimates of Short-tailed Shearwaters (*Puffinus tenuirostris*) in the Southeastern Bering Sea: 1997-1999. *Marine Ornithology* 29: 27-34.

Other publications

- Baduini, C.L. 2000. The Influence of Anomalous Weather and Ocean Conditions on the Foraging Ecology and Provisioning Patterns in Shearwaters. Ph.D. dissertation. University of California, Irvine, Irvine, CA. 117 pp. June 2000.
- Baduini, C.L. 1995. Feeding Ecology of the Basking Shark (*Cetorhinus maximus*) Relative to Distribution and Abundance of prey. MSc thesis. Moss Landing Marine Laboratories, San Jose State University, Moss Landing, CA. 108 pp. May 1995.
- Hunt, G.L., Jr., C.L. Baduini, R.D. Brodeur, K.O. Coyle, J.M. Napp, J.D. Schumacher, P.J. Stabeno, D.A. Stockwell, T.E. Whitley, and S.I. Zeeman. 1999. Ecosystem Responses of the Southeastern Bering Sea to abnormal weather patterns in 1997 and 1998. Report to the International Council for the Exploration of the Sea (ICES), CM 1999/O:06