

CURRICULUM VITAE

Graham Anthony James Worthy

Chairman – Department of Biology and Director – Sustainable Coastal Systems Cluster

UCF Pegasus Professor, Provost's Distinguished Research Professor of Biology, Hubbs-SeaWorld Professor of Marine Mammalogy, and Director, Physiological Ecology and Bioenergetics Laboratory

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Date and Place of Birth: September 13, 1956 Bournemouth, Dorset, England
Citizenship: United States, Canada, and United Kingdom

Education History:

Ph.D. (Environmental Physiology) - University of Guelph, Guelph, ON, Canada (1986)
M.Sc. (Environmental Physiology) - University of Guelph, Guelph, ON, Canada (1982)
B.Sc. (Zoology) - University of Guelph, Guelph, ON, Canada (1979)

Current and Past Professional Affiliations:

Department Chairman, Department of Biology, University of Central Florida. (2014-present)
Director, Sustainable Coastal Systems Cluster. University of Central Florida. (2015-present)
Provost's Distinguished Research Professor, University of Central Florida (2001-present)
Hubbs-SeaWorld Professor of Marine Mammalogy, University of Central Florida (2001-present)
Research Affiliate, Florida Climate Institute (2013-present)
Adjunct Marine Scientist, Mote Marine Laboratory, Sarasota, FL (2000-present)
Senior Research Biologist, Hubbs-Sea World Research Institute, Orlando, FL (1999-2008)
Department Head, Department of Marine Biology, Texas A&M University, Galveston, TX (2000-2001)
Professor, Department of Marine Biology, Texas A&M University, Galveston, TX (1999-2001)
Senior Research Associate, Mote Marine Laboratory, Sarasota, FL (1998-2001)
Associate Professor, Texas A&M University, Galveston, TX (1994-1999)
Assistant Professor, Texas A&M University, Galveston, TX (1990-1994)
State Director, Texas Marine Mammal Stranding Network, Galveston, TX (1990-2000)
President, Texas Marine Mammal Stranding Network, Galveston, TX (1990-2000)
Lecturer in Marine Science, University of California, Santa Cruz, CA (1987-1990)
Office of Naval Research Postdoctoral Researcher, Institute of Marine Sciences, University of California, Santa Cruz, CA (1987-90)
Postdoctoral Research Biologist, Department of Zoology, University of Guelph, Guelph, ON, Canada (1986-87)

Research Interests:

The ultimate goal of the Physiological Ecology and Bioenergetics Lab (PEBL) is to better understand marine ecosystem function, and ultimately ocean health, by examining the interrelationships between different species and how those species respond to natural and anthropogenic perturbations. PEBL is actively engaged in the emerging field of Conservation Physiology which explores how species respond to natural and anthropogenic perturbations and attempts to determine the ecophysiological constraints dictated by current conditions and future environmental change. Employing ecological and physiological theory, Conservation Physiology takes a multidisciplinary and integrative approach that incorporates both field and laboratory based research and ultimately explores the linkage between environmental change and ecological success. It aims to determine and assess the proximate abiotic factors that impose fitness consequences upon organisms as a result of anthropogenic threats and allows us to forecast likely responses of organisms to environmental change. For conservation strategies to be successful it is important to understand the physiological responses of organisms to their changing environment and to develop an understanding of what causes conservation problems in order to suggest potential solutions.

PEBL has been involved in investigations into the life history and physiological ecology of manatees, cetaceans, and pinnipeds at study sites around the world through studies of their metabolism and feeding ecology. I have over 35 years of experience examining the metabolic needs and feeding ecology of a variety of wide marine mammal species including cetaceans, sirenians, and pinnipeds. We employ techniques such as indirect calorimetry, proximate composition analysis of prey, doubly-labeled water energetics, stable isotope analysis, and fatty acid signature analysis. Many of these studies were facilitated by partnerships with organizations such as Sarasota Dolphin Research Program, Sea World, Disney's Animal Kingdom, Vancouver Aquarium, National Marine Fisheries Service, Florida Fish and Wildlife Conservation Commission, Harbor Branch Oceanographic Institution, Florida Marine Research Institute, National Zoological Park, Centre for Dolphin Studies (South Africa), National Taiwan University (Taiwan), and U.S. Fish and Wildlife Service.

Academic Awards and Honors:

Chairs Leadership Circle, Office of Faculty Excellence, University of Central Florida. (2016-present) (Chairs selected for their leadership potential)

UCF Pegasus Professor, University of Central Florida. (2016-present) (highest academic honor at UCF)

Excellence in Undergraduate Teaching Award. College of Sciences, University of Central Florida (2012-2013)

Teaching Incentive Program Award for Excellence in Teaching. University of Central Florida (2011-2012)

Listed in "Who's Who in America" (2009)

Invited Visiting Research Scientist, Centre for Dolphin Studies, Plettenberg Bay, South Africa. (March 1 - 31, 2008)

Listed in "Who's Who in Sciences and Higher Education" (2004)

Outstanding 10 Year Service Award, Texas Marine Mammal Stranding Network (2001)

Listed in “Who’s Who in the 21st Century” (2001)
Outstanding 10 Year Service Award, Texas A&M University - Galveston (2000)
Marine Education Award, Texas Marine Education Association (1996)
Visiting Research Scientist, University of Port Elizabeth and Port Elizabeth Museum, Port Elizabeth, South Africa. (February 11 - March 18, 1996)
Visiting Research Scientist, Nutrition Research Lab., Department of Zoological Research, National Zoological Park, Washington, DC. (April 24 - May 31, 1996)
Listed in “Who’s Who Among America’s Teachers” (1996)
Outstanding 5 Year Service Award, Texas A&M University - Galveston (1995)
Neches-Gulf Marine Outstanding Teaching Award, Texas A&M University - Galveston (1993-1994)
Invited Visiting Research Scientist. Ocean Sciences Centre, Memorial University of Newfoundland, St. John's, Newfoundland, Canada. (July 22 - August 18, 1991)
Listed in “American Men and Women of Science” (1991)
Norman James Aquatic Mammals Fellowship (1984)
Ontario Graduate Scholarship (1983)
Canadian National Sportsmen's Show Fellowship (1982)

Program Management Awards:

Sustainable Coastal Systems cluster. Provost’s Faculty Cluster Initiative, University of Central Florida. (\$2.1M) (2015-present)
Disney’s Animal Kingdom (DAK) and UCF pre-doctoral and post-doctoral fellowships for students undertaking research projects at DAK. (\$1.8M) (2006-2010)

Research Awards:

Application of DNA barcoding methodologies to assess feeding habits of *ex situ* giraffes: A pilot study. Disney’s Animal Kingdom. (\$5K) (2014)
Population structure of estuarine bottlenose dolphin populations in the West Florida Panhandle. Private donations. \$40K. (2013-ongoing)
Mosquito and Indian River Lagoon Fisheries Monitoring. Florida Fish and Wildlife Conservation Commission. \$38K. (2013-2016)
Research Development Award. College of Science and Office of Research and Commercialization, UCF. \$30K. (2013)
Impacts of the 2010 Deep Water Horizon oil spill on estuarine bottlenose dolphin populations in the West Florida Panhandle. Florida Institute of Oceanography. \$205K. (2010-2012)
Variability in feeding habits of bottlenose dolphins (*Tursiops truncatus*) in the IRL and potential linkages with dolphin health. Harbor Branch Oceanographic Institute. \$30K (2011-2012)
Measuring carbon and nitrogen isotope turnover rates and fractionation values in captive delphinids to apply to the assessment of feeding habits and habitat selection in free-ranging Chinese white dolphins off the western coast of Taiwan. Ocean Park Hong Kong Conservation Fund. \$23K. (2010-2012)
Assessing the isotopic signatures of potential prey for *Sousa chinensis* in the Strait of Taiwan. National Sun Yat-sen University, Taiwan. \$5K (2010-2011)
Physiological ecology of wild and captive dugongs: a study examining metabolism,

thermoregulation, and osmoregulation. Winifred Violet Scott Foundation. \$25K. (2009-2010)

Assessment of depredation by bottlenose dolphins in the Northwest Florida and Alabama sport fishery. Mississippi-Alabama Sea Grant Consortium. \$80K. (2008-2010)

Changes in habitat use and distribution of bottlenose dolphins in the Choctawhatchee Bay estuary following recent red tide episodes. SeaWorld and Busch Gardens Conservation Fund. \$22K. (2008-2010)

Feeding ecology and habitat utilization of humpback, common, and bottlenose dolphins off the central South African coast. National Geographic Society. \$25K (2007-2009)

Basic research by Physiological Ecology and Bioenergetics Lab. Hubbs-SeaWorld Research Institute. \$28K. (2007)

Killer whale energetics – how much food do they need? SeaWorld and Busch Gardens Conservation Fund. \$25K (2006-2010)

Dietary assessment and an evaluation of ultrasound technologies in assessing body condition of the West Indian manatee. U.S. Fish and Wildlife Service. \$5K (2007-2008)

Basic research by the Physiological Ecology and Bioenergetics Lab. Hubbs-SeaWorld Research Institute. \$70K. (2006)

A comparison of bottlenose dolphin foraging ecology between transitional temperate and tropical ecosystems. Marine Science Network, Smithsonian Institution. \$100K (2005-2006)

Operation of the Physiological Ecology and Bioenergetics Lab. Hubbs-SeaWorld Research Institute. \$30K. (2005)

Metabolic capabilities and limits to thermoneutrality in juvenile Steller sea lions. North Pacific Universities Marine Mammal Research Consortium. \$55K. (2004-2006).

Operation of the Physiological Ecology and Bioenergetics Lab. Hubbs-SeaWorld Research Institute. \$30K. (2004)

Assessing the feasibility of applying fatty acid signature analysis to understanding the feeding habits of bottlenose dolphins (*Tursiops truncatus*). Protect Wild Dolphins License Plate Program. \$100K (2003-2006)

Thermoregulation in foraging Steller sea lions: A comprehensive approach. Part II. North Pacific Universities Marine Mammal Research Consortium. \$15K (2003-2004)

Operation of the Physiological Ecology and Bioenergetics Lab. Hubbs-SeaWorld Research Institute. \$30K. (2003)

Physiological Ecology and Bioenergetics of Marine Vertebrates. Research Enhancement Award. Office of the Provost, University of Central Florida. \$475K. (2002-2006)

Thermoregulation in Foraging Steller Sea Lions: A Comprehensive Approach Research. North Pacific Universities Marine Mammal Research Consortium. \$90K (2002-2003)

Feeding ecology of bottlenose dolphins (*Tursiops truncatus*) in the Indian River Lagoon, FL. Protect Wild Dolphins License Plate Program. \$75K (2002-2003)

Conservation of endangered dugongs and humpback dolphins in East Africa. Disney Conservation Fund. \$20K (2002-2003)

Operation of the Physiological Ecology and Bioenergetics Lab. Hubbs-SeaWorld Research Institute. \$53K. (2002)

Abundance, distribution, and group composition of the Indian River Lagoon bottlenose dolphin population using an aerial survey. Protect Wild Dolphins License Plate Program. \$50K (2001-2002).

Acquisition of an IRMS for application in anthropology, ecology, and conservation biology.

National Science Foundation DBI 0115837. 2001-2004. \$315K. (2001-2004)

Students as Lab and Field Physiologists: Start to Finish. National Science Foundation. DUE 0088390 \$101K (plus \$102K UCF match). (2000-2004)

Endowment for the creation of the Hubbs-SeaWorld Professor of Marine Biology, Department of Biology, University of Central Florida. \$150K (2001-ongoing)

Operation of the Physiological Ecology and Bioenergetics Lab. Hubbs-SeaWorld Research Institute. \$33K. (2001).

Start-up funds for Relocation of the Physiological Ecology and Bioenergetics Laboratory to the University of Central Florida and Hubbs-SeaWorld Research Institute. \$165K (2001-2002)

An investigation into the possible relationship between killer whale (*Orcinus orca*) predation and the continuing decline of the Steller sea lion (*Eumetopias jubatus*) population. Pollock Conservation Cooperative Research Center. \$27K (2001-2002)

Research Program Development Equipment Grant, Texas A&M University at Galveston. \$4K. (2000)

Physiological mechanisms underlying interrupted lactation and growth in the northern fur seal, *Callorhinus ursinus*. Texas A&M University Faculty Mini-Grant Program. \$2K. (2000).

A preliminary study of the fatty acid signatures of potential prey species for bottlenose dolphins in the Indian River Lagoon FL. Hubbs-SeaWorld Research Institute, Orlando, FL. \$14K. (2000-2001)

Operation of the Texas Marine Mammal Stranding Network. Private donations. \$100K (2000)

Optimal foraging experiments on captive Steller sea lions: A feasibility study. National Fish and Wildlife Federation. \$43K (1999-2000)

Thermoregulatory capabilities of the West Indian manatee. Hubbs-SeaWorld Research Institute, Orlando, FL. \$19K (1999-2000)

Operation of the Texas Marine Mammal Stranding Network. Private donations. \$100K (1999)

An assessment of the use of leptin to determine body condition in recently released manatees. Save the Manatee Club. \$6K. (1999)

Faculty Mini-Grant Program. FMG-99-049. \$1K (1999)

Body condition assessment of manatees through the use of leptin. Texas A&M University Optimal foraging experiments on captive Steller sea lions: A feasibility study. National Fish and Wildlife Federation. \$24K (1998)

Thermoregulatory capabilities of the West Indian manatee (*Trichechus manatus*). Mote Marine Laboratory. \$29K (1998-1999)

Operation of the Texas Marine Mammal Stranding Network. Private donations. \$90 K (1998)

Analyzing the dietary history of marine mammals using blubber/skin samples. National Marine Fisheries Service, La Jolla, CA. \$31K (1998-1999)

The use of stable isotope tracers and fatty acid signatures to determine diet in marine mammals. Texas Higher Education Coordinating Board. Advanced Research Program. \$144K (1998-1999)

Metabolism and thermoregulation of the West Indian manatee. Hubbs-SeaWorld Research Institute, Orlando, FL. \$16K (1997-1998)

Equipment grant for purchase of gas chromatograph. Texas A&M University at Galveston PUF Funding. \$40K (1997)

Stable isotope and fatty acid signature analysis of killer whale tissues obtained from Prince William Sound, Alaska. National Marine Fisheries Service, Seattle WA. \$45K (1995-1997)

Stable isotope and fatty acid signature analysis of killer whale tissues obtained from Southeast Alaska. National Marine Fisheries Service, Seattle WA. \$10K (1995-1997)

Operation of the Texas Marine Mammal Stranding Network. Private donations. \$75K (1997)

Fatty acid analysis of selected forage fish species in Prince William Sound, Alaska. National Oceanic and Atmospheric Administration, Auke Bay AK. \$25K (1995-1997)

Assessment of heavy metal contamination in bottlenose dolphins which strand along the Texas coast. National Marine Fisheries Service, Seattle, WA. \$16K (1995-1996)

The use of stable isotope tracers and fatty acid signatures to determine tissue turnover rates and diets of marine mammals. Interdisciplinary Research Initiatives Program, Texas A&M University. \$35K (1995-1996)

Operation of the Texas Marine Mammal Stranding Network. Private donations. \$50K (1996)

Enhancement of Animal Rehabilitation Capabilities of the Texas Marine Mammal Stranding Network. Texas A&M University at Galveston PUF Funding. \$20K (1996)

Faculty Development Leave Travel Award. College of Geosciences and Maritime Studies, Texas A&M University. \$6K (1996)

Metabolism, thermoregulation, and assimilation efficiency of the West Indian manatee. Florida Department of Environmental Protection, St Petersburg, FL. \$70K (1994-1996)

Operation of the Texas Marine Mammal Stranding Network. Private donations. \$50K (1995)

Physiological ecology of the West Indian manatee. Hubbs-SeaWorld Research Institute, Orlando, FL. \$40K (1994-1996)

Water flux and osmoregulatory responses of captive West Indian manatees to a strictly marine habitat. Save the Manatee Club, Maitland, FL. \$13K (1994-1995)

Insulation in small odontocetes: Seasonal qualitative and quantitative changes. Office of Naval Research, Washington DC. \$50K (1994-1995)

Operation of the Texas Marine Mammal Stranding Network. \$50K (1994)

Analysis of elephant seal blood and tissues for organochlorine, PCB, IL-2 expression, and lymphocyte expression. U.S. Environmental Protection Agency, Gulf Breeze, FL. \$15K (1994-1995)

Feeding ecology of the West Indian manatee using carbon and nitrogen stable isotope tracers. Research Enhancement Program, Texas A&M University at Galveston. \$2K (1993-1994)

Thyroid function and metabolic costs of growth and thermoregulation in the West Indian manatee. Save the Manatee Club, Maitland, FL. \$7K (1993-1994)

Bottlenose dolphins as environmental monitors. Texas Sea Grant Program. \$175K (1993-1995)

Operation of the Texas Marine Mammal Stranding Network. \$50K (1993)

Assimilation efficiency of the West Indian manatee. Research Enhancement Program, Texas A&M University at Galveston. \$2K (1992-1993)

Metabolism, thermoregulation, and assimilation efficiency of the West Indian manatee. Florida Department of Natural Resources, St Petersburg, FL. \$81K (1992-1994)

Equipment grant for purchase of bomb calorimeter and oxygen analyzer. Texas A&M University at Galveston PUF Funding. \$30K (1993)

Water balance of the West Indian manatee. Save the Manatee Club, Maitland, FL. \$9K (1992-93)

Operation of the Texas Marine Mammal Stranding Network. Anheuser-Busch Foundation. \$50K (1992-1993)

Body condition of the West Indian manatee. Research Enhancement Program, Texas A&M University at Galveston. \$2K (1991-1992)

Bioelectrical Impedance Analysis of California sea lions. National Marine Fisheries Service,

Southwest Fisheries Science Center, La Jolla, CA. \$5K (1991-1992)
Lactation energetics of the West Indian manatee. Marine Mammal Commission, Washington DC. \$4K (1991-1992)
Lactation energetics of the West Indian manatee. EPCOT Center, Walt Disney Imagineering, Orlando, FL. \$68K (1991-1993)
Operation of the Texas Marine Mammal Stranding Network. Environmental Protection Agency, Dallas TX. \$30K (1991-1992)
Aging of marine mammals in the Gulf of Mexico. National Marine Fisheries Service, Northwest Fisheries Science Center, Seattle, WA. \$2K (1991-1992)
Gulf of Mexico marine mammal contaminants monitoring program. National Marine Fisheries Service, Northwest Fisheries Science Center, Seattle, WA. \$17K (1991-1993)
Free-ranging energetics of bottlenose dolphins. National Science Foundation. OCE-9018626/9019962. \$205K (1991-1993)
Development grant for the Physiological Ecology component of the Marine Mammal Research Program at TAMUG. Texas Sea Grant "Enhancement of Excellence in Research" Program. \$55K (1990-1991)
Feasibility study for the application of bioelectrical impedance analysis for the determination of body condition in California sea lions. National Marine Fisheries Service, Northwest Fisheries Science Center, Seattle, WA. \$15K (1990-1991)
Research in marine mammal behavior, cognition, and physiology. Center for Field Research, Boston MA. \$198K (1988-1991)
Nutritional and thermal requirements of marine mammals. Office of Naval Research, Washington DC. \$485K (1987-1990)
Bioenergetics of the harbour porpoise, *Phocoena phocoena* in the Bay of Fundy. Department of Supply and Services, Ottawa, ON, Canada. \$60K (1985-1986)

Visiting Research Scientists:

Florence Evacitas, University of the Philippines – Cebu College and National Taiwan University, Taipei, Taiwan. 2013.
Yu Jiang Hao, Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan, China. 2013.
Victor Cockcroft, Centre for Dolphin Studies, Plettenberg Bay, South Africa. 2010.
Lien-Siang Chou, National Taiwan University, Taipei, Taiwan. 2008.
Leslie Cornick, Alaska Pacific University, Anchorage, AK. 2007.
Janet Lanyon, University of Queensland, Brisbane, Australia. 2006.
Victor Cockcroft, Centre for Dolphin Studies, Plettenberg Bay, South Africa. 2006.
Lorrie Rea, Alaska Department of Fish and Game, Anchorage AK. 2005.
Olav Oftedal, National Zoological Park, Smithsonian Institution, Washington DC. 2006.
Lien-Siang Chou, National Taiwan University, Taipei, Taiwan. 2004.
Olav Oftedal, National Zoological Park, Smithsonian Institution, Washington DC. 2002.
Sara Iverson, Dalhousie University, Halifax, Canada. 1996.

Conference/Symposium/Workshop Organizational Committees:

Gulf of Mexico Marine Mammal Research and Monitoring Meeting. Marine Mammal Commission. Organizing Committee Member. New Orleans, LA. April 7-8, 2015.
Tenth Biennial Symposium of the Comparative Nutrition Society. Organizing Committee

Member. Flat Rock, NC. August 1-5 2014.

20th Annual Southeast and Mid-Atlantic Marine Mammal Symposium. Scientific Review Committee Member. Jacksonville, FL. March 22-24, 2013

Eighteenth Biennial Conference on the Biology of Marine Mammals. Scientific Review Committee Member, Society for Marine Mammalogy. Québec City, Canada. October 12-16, 2009.

Sixteenth Biennial Conference on the Biology of Marine Mammals. Scientific Review Committee Member, Society for Marine Mammalogy. San Diego, California. December 12-16, 2005.

Fifteenth Biennial Conference on the Biology of Marine Mammals. Conference Committee Member, Society for Marine Mammalogy. Greensboro, North Carolina. December 14-19, 2003.

Fourth Biennial Symposium of the Comparative Nutrition Society, with the European Society of Veterinary Comparative Nutrition and European Zoo Nutrition Research Group. Organizing Committee Co-Chair. Antwerp, Belgium. August 21-25, 2002.

Third Biennial Symposium of the Comparative Nutrition Society. Organizing Committee Member. Pacific Grove, CA. August 4-9, 2000.

Second Biennial Symposium of the Comparative Nutrition Society. Organizing Committee Member. Banff, Alberta, Canada. August 14-19, 1998.

Captive Manatee Reintroduction Workshop. Organizing Committee Member. St. Petersburg, FL. May 26-27, 1998.

First Biennial Symposium of the Comparative Nutrition Society. Organizing Committee Member. Leesburg, VA. August 2-6, 1996.

Eleventh Biennial Conference on the Biology of Marine Mammals. Conference Committee Member, Society for Marine Mammalogy. Orlando, FL. December 14-18, 1995.

First Annual Conference of the Nutrition Advisory Group, American Zoo and Aquarium Association. Awards Committee Member. Toronto, Ontario, Canada. May 1-2, 1995.

Tenth Biennial Conference on the Biology of Marine Mammals. Conference Chairman, Society for Marine Mammalogy. Galveston, TX. November 11-15, 1993.

Dolphin Population Health Assessment Workshop. Committee member. Sarasota, FL. October 6-10, 1993.

Dolphin Mortality Conference. Sampling and Research Logistics Working Group Chairman. Pensacola, FL. December 1-3, 1992.

Ninth Biennial Conference on the Biology of Marine Mammals. Program Committee Member, Society for Marine Mammalogy. Chicago, IL. December 5- 9, 1991.

Cetacean Live-Stranding Workshop. Workshop Coordinator. California Marine Mammal Stranding Network. Long Marine Laboratory, University of California, Santa Cruz, CA. April 26, 1989.

Eighth Biennial Conference on the Biology of Marine Mammals. Co-Chairman, Society for Marine Mammalogy. Pacific Grove, CA. December 7-12, 1989.

Professional Organizations or Advisory Boards:

Member, Council of Environmental Deans and Directors, National Council for Science and the Environment (2015-present)

Member, Board of Oceans, Atmosphere, and Climate, Marine Sciences Representative.

Association of Public and Land-Grant Universities. (2015-present)
Member, Indian River Lagoon National Estuary Program Technical Advisory Committee (2013-present)
Member, Executive Committee, IUCN - Sirenian Specialist Group (2012-present)
Co-Chairman, IUCN - Sirenian Specialist Group, North American Region (2012-present)
Member, Board of Editors, Caribbean Naturalist (2013-present)
Member, Review Editorial Board, Frontiers in Aquatic Physiology (2010-present)
Member, Board of Editors, Southeastern Naturalist (2010-present)
Ad hoc Assigning Editor, Conservation Biology (2006-present)
Member, Executive Board, Piedmont-South Atlantic Cooperative Ecosystem Study Unit (2000-2008)
Member, Scientific Advisory Board, Florida Center for Environmental Studies (2005-2010)
Member, Disney's Animal Care and Welfare Committee. (2003-2015)
Member, Manatee Rehabilitation Partnership (2002-2007)
President, Comparative Nutrition Society, Board of Directors (2002-2004)
Member, Scientific Advisory Board, Texas Marine Mammal Stranding Network, Galveston, TX. (2000-2010)
Vice-President, Comparative Nutrition Society, Board of Directors (2000-2002)
Member, Sirenian International Scientific Advisory Board. (2000-present)
Member-At-Large, Comparative Nutrition Society, Board of Directors. (1996-2000)
Co-Founder, Comparative Nutrition Society (1995)
Member, Research Advisory Committee, John G. Shedd Aquarium, Chicago, IL (1995-1998)
Chairman, Awards/Scholarships Committee, Society for Marine Mammalogy. (1994-1995)
Member, Board of Governors, Society for Marine Mammalogy (1992-1995)
State Director, Texas Marine Mammal Stranding Network, Galveston, TX. (1990- 2000)
President, Board of Directors, Texas Marine Mammal Stranding Network, Galveston, TX. (1990-2000)
Regional Coordinator, California Marine Mammal Stranding Network, Santa Cruz, CA. (1988-1990)
Charter Member, Society for Marine Mammalogy (1981)
President, College of Biological Science Student's Council, University of Guelph, ON, Canada. (1977-78)

University Service:

Member, University Master Planning Committee (2016-present)
Director, Sustainable Coastal Systems Initiative (2015-present)
Chair, Department of Chemistry Chairman search committee (2015-2016)
Chairman, Department of Biology (2014-present)
Member, Research Advisory Committee, College of Sciences (2013-2015)
Member, Graduate Curriculum and Standards Committee, College of Sciences (2011-2014)
Member, Academic Promotion and Tenure Committee, College of Sciences (2013-2014)
Member, University Lab Safety Advisory Committee (2012-present)
Chair, Promotion and Tenure Committee, Department of Biology (2010-2014)
Chairman, Membership Committee, Florida Institute of Oceanography Council (2012-2014)
Member, Dean's By-Law Revision Committee, College of Sciences (2012)

Member, TIP Criteria and Procedures Committee, College of Sciences (2012-2013)
Chair, New Members Committee, Florida Institute of Oceanography Academic Infrastructure and Support Organization (2012-2015)
Member, Board of Directors (representing UCF), Southeast Coastal Ocean Observing Regional Association (2011-present)
Member, University Commencement, Convocation and Recognitions Committee (2011-present)
Member, Graduate Studies and Research Committee, College of Sciences (2011-2013)
Member, Dean's Research Advisory Committee, College of Sciences (2011-2013)
Faculty Advisor, Knights for Marine and Wildlife Conservation Student Organization (an officially recognized student organization at UCF) (2010-present)
Member, Membership Committee, Florida Institute of Oceanography Council (2010-2012)
Member, Academic Promotion and Tenure Committee, College of Sciences, UCF (2010-2011)
Member, Department of Physics Chair Evaluation Committee (2010)
Alternate Voting Member, Institutional Animal Care and Use Committee, UCF (2009-2013)
Coordinator, Professional Science Masters in Conservation Biology program, Department of Biology, UCF (2009-2011)
Member, Board of Directors FIO Council (representing UCF), Florida Institute of Oceanography Academic Infrastructure and Support Organization (2009-present)
Member, Graduate Committee, Department of Biology, UCF (2009-2012)
Invited Panelist, "Career Pathways in Research: Life's Many Directions", Student Research Week, UCF (March 30 2009)
Member, Department of Psychology Annual Evaluation & Standards Revision Committee (2009)
Member, Curriculum Committee, Department of Biology, UCF (2008-2010)
Member, Policies and Procedures Committee, Department of Biology, UCF (2007-2010)
Member, Management Committee (representing UCF), Florida Coastal Ocean Observing Systems Consortium (2007-2011)
Reviewer, Journal of Fish Physiology and Biochemistry (2007-2008)
Member, College of Sciences Research Advisory Group (2007-2010)
Graduate Program Coordinator, Department of Biology, UCF (2006-2009)
Chair, Graduate Committee, Department of Biology, UCF (2006-2009)
Participant, Summer Research Academy, UCF (June 2006)
Member, Procedures and Safety Review Committee, UCF (2006)
Member, Board of Directors (representing UCF), Florida Institute of Oceanography Council (2006-present)
University of Central Florida Liaison to the UCF-HSWRI Marine and Coastal Research Center (2006-2008) (appointed by Provost Hickey)
Member, Search Committee, Biology Department Chair, College of Sciences, UCF (2006-2007)
Member, Feller House Oversight Committee, Department of Biology (2005-2009)
Chair, Faculty Search Committee, Department of Biology (December 2005-2006)
Department of Biology Liaison to Disney's Animal Kingdom (2005-present)
Department of Biology Liaison to SeaWorld of Florida (2005-present)
Member, Curriculum Committee, Department of Biology (2005-2008)
Participant, Summer Research Academy, UCF (June 2005)
Member, Search Committee, Physics Department Chair, UCF (2005-2006)

Member, Search Committee, Biology Department Chair, UCF (2004-2005)
Member, Strategic Planning Committee, Department of Biology, UCF (2004-2010)
Chair, Tenure Appraisal Committee, Department of Biology, UCF (2003-2009)
University of Central Florida representative, Coastal Research Committee, Southeastern Universities Research Association (2003-2006)
University of Central Florida Liaison to the Gulf Coast Cooperative Ecosystems Study Unit (2002-present)
University of Central Florida Liaison to the Piedmont-South Atlantic Cooperative Ecosystems Study Unit (2002-present)
Member, University Research Council, UCF (2002-2007)
Member, Graduate Admissions Committee, Department of Biology, UCF (2004-2005)
Member, Graduate Studies Strategic Planning Committee, UCF (2004-2005)
Chair, Conservation Biology Ph.D. Policies and Procedures Committee, Department of Biology, UCF (2003-2004)
Member, Search Committee, Biology Department Chair, UCF (2003-2004)
Member, Internet2 Committee, UCF (2003-2005)
Member, Institutional Animal Care and Use Committee, UCF (2002-2006)
Member, faculty search committees (n=3) in conservation biology, UCF. (2002-2003)
Member, Strategic Planning Committee, Department of Biology, UCF (2001-2004)
Member, Tenure Appraisal Committee, Department of Biology, UCF (2001-2003)
Member, Conservation Biology Ph.D. Planning Committee, UCF (2001-2003)
Chair, Conservation Biology Ph.D. Curriculum Committee, UCF (2001-2003)
Member, Campus Space Committee, TAMUG (2000-2001)
Member, Academic Advisory Council, TAMUG (2000-2001)
Member, Graduate Instruction Committee, TAMUG (2000-2001)
Member, Computing and Information Services Task Force, TAMUG (2000-2001)
Member, Faculty Search Committee for Marine Mammalogist, TAMUG (2001)
Department Head, Department of Marine Biology, TAMUG (2000-2001)
Member, Computing and Information Sciences Advisory Committee, TAMUG (1998-1999)
Assistant Department Head, Department of Marine Biology, TAMUG (1998-2000)
Member, Interdisciplinary Planning and Oversight Committee, Office of Research and Graduate Affairs, TAMU (1998-2000)
Member, Galveston Graduate Advisory Council, TAMUG (1998-1999)
Member, Moody Aquarium Scientific Advisory Panel, Galveston TX (1998-2000)
Author, Department of Marine Biology's Five-Year Strategic Plan, TAMUG (1997-1998)
Member, Texas A&M University at Galveston Program Council (1997-1999)
Member, Texas A&M University at Galveston Space Committee (1996-1998)
Member, Wildlife and Fisheries Sciences Graduate Program Enhancement Fund Committee, Texas A&M University, College Station, TX (1995-present)
Chair, Department Head Search Committee, Department of Marine Biology (1999-2000)
Member, Texas A&M University Administrative Search Committees:
Associate Campus Dean for Academics and Administration, TAMUG (1995)
Superintendent, Texas State Maritime Program, TAMUG (1995)
Director, Sea Grant Program, TAMU (1995)

Vice-President TAMU and CEO Galveston Campus (1996-1997)
Member, Texas A&M University Safety Compliance Committee, Office of the Associate Provost for Research and Graduate Affairs, Texas A&M University, College Station, TX (1994-1997)
Chairman, University Library Committee, Texas A&M University at Galveston (1995-1996)
Member, College of Geosciences and Maritime Studies Advisory Council, Texas A&M University, College Station, TX (1994-1996)
Senator, Faculty Senate - Texas A&M University, College Station, TX (1994-1997)
Member - Planning Committee, (1994-1995), Member - Elections Committee, (1994-1995), Member - Academic Affairs Committee (1995-1997), Member - Research Committee (1995-1997), Member - Policy and Ethics Subcommittee (1996-1997)
Member, Dean's Task Force for a Discrimination Free Campus, Texas A&M University, Galveston, TX (1994-1996)
Co-Chairman, Committee on Interdisciplinary Programs, College of Geosciences and Maritime Studies, Texas A&M University, College Station, TX. (1991-1993)
Member, Faculty Advisory Committee, Texas A&M University at Galveston (1991-1993)
Member, Curriculum Review Committee, Department of Marine Biology, Texas A&M University at Galveston, Galveston, TX (1990-2001)
Member, University Library Committee, Texas A&M University at Galveston (1990-1995)
Member, Chancellor's Animal Research Committee, University of California, Santa Cruz, CA (1988-1990)
Curator, Institute of Marine Sciences Vertebrate Collection, University of California, Santa Cruz, CA (1988-1990)

Appointments to Government Committees, Task Forces or Working Groups:

Member, Gulf of Mexico Marine Mammal Research Planning Committee. Marine Mammal Commission. (2014-2015)
Invited Delegate, Indian River Lagoon Action Assembly, Florida Institute of Technology and Marine Resources Council, Melbourne, FL. May 15-17, 2014.
Invited Panelist, Oil/Dispersant Impacts and Mitigation of Living Marine Resources. National Science and Technology Council's Joint Sub-Committee on Ocean Science and Technology (JSOST) Conference on the Deep Water Horizon Oil Spill. St. Petersburg FL. October 5-6, 2010.
Chairman and Organizer. Principal Investigator Coordination Workshop for Deepwater Horizon Oil Spill Research. Florida Institute of Oceanography. Orlando FL. September 15-16 2010.
Invited Symposium Participant, Developing Conservation Strategies for *Sousa chinensis* in Taiwan. National Taiwan University, Taipei, Taiwan. July 20-21 2009.
Invited Participant, "Interagency Meeting Regarding Impacts to Manatees during Cape Canaveral and Riviera Power Plant Conversion Projects", Jupiter Beach FL (August 2008)
Invited Reviewer, Rufford Innovation Award, Centre for African Conservation Ecology (ACE) at the Nelson Mandela Metropolitan University (Port Elizabeth, South Africa) (2008)
Member, Manatee Catastrophic Event Contingency Team. Florida Fish and Wildlife Conservation Commission (2006-2012)
Member, Blue Spring Minimum Flows and Levels Manatee Monitoring Assessment Team. St John's River Water Management District (2006-2012)

Invited Member, American Institute of Biological Sciences, Scientific Peer, Advisory and Review Panel to review Alaska Sea Life Center Steller Sea Lion Research Program (2005)

Invited Member, National Zoo Peer Review Committee (2005)

Science Coordinator, Hubbs-SeaWorld Research Institute. (2004-2009)

Member, "Task Force on Warm Water Sources and Manatee Conservation", U.S. Fish and Wildlife Service. (2003-2007)

Member, Interagency-Oceanaria Working Group. U.S. Fish and Wildlife Service. (2003-2011)

Invited Participant, "The Manatee Population Ecology and Management Workshop". U.S. Fish and Wildlife Service, Gainesville, FL. (April 1-4 2002)

Member, Federal Review Panel on "Release of Stranded Marine Mammals to the Wild: Background, Preparation, and Release Criteria", National Marine Fisheries Service, Silver Spring, MD (1998)

Member, Federal Review Panel assessing the "Marine Mammal Health and Stranding Response Act" and the "National Contingency Plan for Unusual Marine Mammal Mortality Events", National Marine Fisheries Service, Silver Spring, MD (1997)

Member, Federal Review Panel on "Measuring Physiological Stress in Eastern Tropical Pacific Dolphins", National Marine Fisheries Service, La Jolla, CA (1997)

Member, Atlantic Region Scientific Review Group, National Marine Fisheries Service (1996-2000)

Member, Federal Review Panel assessing the "Scientific Research Permit System and Amendments to the Marine Mammal Protection Act". Marine Mammal Commission, Washington, DC (1993)

Community Service:

Elected community representative, Evans Elementary School Advisory Council (2014-2016)

Professional Society Memberships:

American Cetacean Society (1990-1995)

American Society of Zoologists (1988-1995)

American Society of Mammalogists (1982-present)

American Zoo and Aquarium Association, Nutrition Advisory Group (1995-1998)

Canadian Society of Zoologists (1979-1987)

Comparative Nutrition Society - Co-Founder (Member 1996-present, Vice-President 2000-2002, President 2002-2004)

International Association for Aquatic Animal Medicine (1990-1999)

National Geographic Society (1978-2005)

Sigma Xi (1997-1999)

Society for Marine Mammalogy - Charter Member (1984-present)

Texas Academy of Science (1994-1999)

Professional Publications and Presentations:

Thesis/Dissertation:

Thermoregulation of young phocid seals. Ph.D. dissertation, University of Guelph, Guelph, Ontario, Canada. 254 p. 1986.

Energy sources of harp seals, *Phoca groenlandica*, during the post-weaning period. M.Sc. thesis, University of Guelph, Guelph, Ontario, Canada. 94 p. 1982.

Peer Reviewed Journals and Books:

- Worthy, G.A.J. and T.A.M. Worthy. **In final prep.** Metabolic capabilities and the limits to thermoneutrality in juvenile and adult West Indian manatees (*Trichechus manatus*).
- Browning, N.E., S. McCulloch, and G.A.J. Worthy. **In final prep.** Feeding ecology of bottlenose dolphins (*Tursiops truncatus*) in the Indian River Lagoon, FL.
- Worthy, G.A.J., T.A.M. Worthy and R.J. Paperno. **In final prep.** Seasonal variability in food web structure of the Indian River Lagoon, FL as revealed by stable isotope ratios and fatty acid signature analysis.
- Evacitas, F.C., G.A.J. Worthy, and L.-S. Chou. **Submitted.** Age-specific variations in $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ and weaning age in the pantropical spotted dolphins (*Stenella attenuata*) off Taiwan.
- Evacitas, F.C., W.-Y. Kao, G.A.J. Worthy, L.-S. Chou. **In press.** Annual variability in dentin $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ ratios reveal sex differences in weaning age and feeding habits in Risso's dolphins (*Grampus griseus*). Marine Mammal Science.
- Evacitas, F.C., G.A.J. Worthy, and L.-S. Chou. 2016. An alternative method for subsampling annual dentin layers in Risso's dolphin (*Grampus griseus*) teeth for stable isotope analysis. Journal of Archaeological Science 66:112-119.
- Litz, J., M. Baran, R. Carmichael, K. Colegrove, S. Fire, E. Fougères, R. Hardy, S. Holmes, W. Jones, B. Mase-Guthrie, D. Odell, D. Shannon, J. Saliki, S. Shippee, S. Smith, E. Stratton, S. Bowen-Stevens, M. Tumlin, H. Whitehead, G.A.J. Worthy, S. Venn-Watson, and T. Rowles. 2014. Review of historical unusual mortality events (UMEs) in the Gulf of Mexico (1990-2009): providing context for the multi-year northern Gulf of Mexico cetacean UME declared in 2010. Diseases of Aquatic Organisms 112:161-175. doi:10.3354/dao02807.
- Browning, N.E., V.C. Cockcroft and G.A.J. Worthy. 2014. Resource partitioning among South African delphinids. Journal of Experimental Marine Biology and Ecology 457:15-21. doi:10.1016/j.jembe.2014.03.016
- Browning, N.E., S. McCulloch, G.D. Bossart and G.A.J. Worthy. 2014. Fine-scale population structure of estuarine bottlenose dolphins (*Tursiops truncatus*) assessed using stable isotope ratios and fatty acid signature analyses. Marine Biology 161:1307-1317.
- Browning, N.E., C. Dold, J. I-Fan and G.A.J. Worthy. 2014. Isotope turnover rates and diet-tissue discrimination in skin of *ex situ* bottlenose dolphins (*Tursiops truncatus*). Journal of Experimental Biology 217: 214-221. doi:10.1242/jeb.093963
- Hoopes, L.A., L.D. Rea, A. Christ and G.A.J. Worthy. 2014. No evidence of metabolic depression in Western Alaskan juvenile Steller sea lions (*Eumetopias jubatus*). PLoS ONE 9(1): e85339. doi:10.1371/journal.pone.0085339.
- Worthy, G.A.J. and T.A.M. Worthy. 2014. Digestive efficiencies of *ex situ* and *in situ* West Indian manatees (*Trichechus manatus latirostris*). Physiological and Biochemical Zoology 87:77-91. doi: 10.1086/673545
- Worthy, G.A.J., T.A.M. Worthy, P.K. Yochem and C. Dold. 2014. Basal metabolism of an adult male killer whale (*Orcinus orca*). Marine Mammal Science 30:1229-1237. doi:10.1111/mms.12091
- Carmichael, R.H., M. Graham, A. Aven, G.A.J. Worthy and S. Howden. 2012. Were multiple stressors a 'perfect storm' for Northern Gulf of Mexico bottlenose dolphins (*Tursiops truncatus*) in 2011? PLoS ONE 7(7):e41155. doi:10.1371/journal.pone.

- Witteveen, B.H., G.A.J. Worthy, K.M. Wynne, A.C. Hirons, A.G. Andrews, and R.W. Markel. 2011. Trophic levels of North Pacific humpback whales (*Megaptera novaeangliae*) through analysis of stable isotopes: implications on prey and resource quality. *Aquatic Mammals* 37:101-110.
- Witteveen, B.H., G.A.J. Worthy, R.J. Foy, and K.M. Wynne. 2011. Modeling the diet of humpback whales: an approach using stable carbon and nitrogen isotopes in a Bayesian mixing model. *Marine Mammal Science* 28:E233-E250. doi: 10.1111/j.1748-7692.2011.00508.x
- Alves-Stanley, C.D., G.A.J. Worthy and R.K. Bonde. 2010. Feeding preferences of West Indian manatees in Florida, Belize, and Puerto Rico as indicated by stable isotope analysis. *Marine Ecology Progress Series* 402:255-267.
- Witteveen, B.H., G.A.J. Worthy, K.M. Wynn, and J.D. Roth. 2009. Population structure of North Pacific humpback whales on their feeding grounds revealed by stable carbon and nitrogen isotope ratios. *Marine Ecology Progress Series* 379:299-310.
- Alves-Stanley, C.D. and G.A.J. Worthy. 2009. Carbon and nitrogen stable isotope turnover rates and diet-tissue discrimination in Florida manatees (*Trichechus manatus latirostris*). *Journal of Experimental Biology* 212:2349-2355.
- Witteveen, B.H., G.A.J. Worthy, and J.D. Roth. 2009. Tracing migratory movements of breeding North Pacific humpback whales using stable isotope analysis. *Marine Ecology Progress Series* 393:173-183.
- Worthy, G.A.J. 2008. Manatees. *World Book Encyclopedia*.
- Turner, J.P., L.S. Clark, E.M. Haubold, G.A.J. Worthy, and D.F. Cowan. 2006. Organ weights and growth profiles in bottlenose dolphins, *Tursiops truncatus*, from the Northwestern Gulf of Mexico. *Aquatic Mammals* 32:46-57.
- Ortiz, R.M. and G.A.J. Worthy. 2006. Body composition and water turnover rates of bottle-fed West Indian manatee (*Trichechus manatus*) calves. *Aquatic Mammals* 32:41-45.
- McFadden, K.M., G.A.J. Worthy, and T. Lacher. 2006. Photogrammetric estimates of size and mass in Hawaiian monk seals (*Monachus schauinslandi*). *Aquatic Mammals* 32:31-40.
- Smith, H.S. and G.A.J. Worthy. 2006. Stratification and intra- and inter-specific differences in fatty acid composition in common dolphin (*Delphinus* sp.) blubber. *Comparative Biochemistry and Physiology, Part B* 143: 486-499.
- Worthy, G.A.J., Samuel, A.M. and T.A.M. Worthy. 2006. Feeding habits of Indian River Lagoon bottlenose dolphins assessed using stable isotope and fatty acid signature analysis. Pages 27-28 in: Bossart, G.D., J.D. Goldstein, M.E. Murdoch, P.A. Fair and S.D. McCulloch (eds). *Health Assessment of Bottlenose Dolphins in the Indian River Lagoon, Florida and Charleston, South Carolina*. Harbor Branch Oceanographic Institution Technical Report No. 93. 36 p.
- Reich, K. and G.A.J. Worthy. 2006. An isotopic assessment of the feeding habits of free-ranging manatees. *Marine Ecology Progress Series* 322:303-309.
- Fertl, D., A.J. Schiro, G.T. Regan, C.A. Beck, N. Adimey, L. Price-May, A. Amos, G.A.J. Worthy, and R. Crossland. 2005. Manatee occurrence in the northern Gulf of Mexico, west of Florida. *Gulf and Caribbean Research* 17:69-94.
- Worthy, G.A.J., Samuel, A.M. and T.A.M. Worthy. 2005. An exploration into the feeding ecology of bottlenose dolphins and their potential prey using fatty acids and stable isotopes. Pages 22-26 in: Fair, P.A. and G.D. Bossart. 2005. *Synopsis of Researcher Meeting* –



- Bottlenose dolphin health and risk assessment project. February 22-24, 2005. NOAA Technical Memorandum NOS NCCOS 10. 93 p.
- Rosen, D.A.S., A.W. Trites, G.A.J. Worthy, and A.J. Winship. 2005. Thermal and digestive constraints to foraging in an aquatic carnivore. *Comparative Biochemistry and Physiology* 141A:S169.
- Ortiz, R.M. and G.A.J. Worthy. 2004. Could lower body fat mass contribute to cold-water susceptibility in calves of the West Indian manatee (*Trichechus manatus*)? *Marine Mammal Science* 20:176-183.
- Samuel, A.M. and G.A.J. Worthy. 2004. Variability in fatty acid composition of bottlenose dolphin (*Tursiops truncatus*) blubber as a function of body site, season, and reproductive status. *Canadian Journal of Zoology* 82:1933-1942.
- Stein, J.E., K.L. Tilbury, J.P. Meador, J. Gorzelany, G.A.J. Worthy, and M.M. Krahn. 2003. Ecotoxicologic investigations of bottlenose dolphin (*Tursiops truncatus*) strandings: Accumulation of persistent organic chemicals and metals. Chapter 17. J. Vos, G. Bossart, M. Fournier, and T. O'Shea (eds.). In: *Toxicology of Marine Mammals*. CRC Press, Boca Raton FL. 656 p.
- Worthy, G.A.J. 2003. A review of "Body composition analysis of animals: A handbook of non-destructive methods." *Ecoscience* 10:124.
- Courbis, S.S. and G.A.J. Worthy. 2003. Opportunistic rather than incidental carnivory by Florida manatees (*Trichechus manatus latirostris*)? *Aquatic Mammals* 29:104-107.
- Turner, J.P. and G.A.J. Worthy. 2003. Skull morphometry of bottlenose dolphins (*Tursiops truncatus*) from the Gulf of Mexico. *Journal of Mammalogy* 84:665-672.
- Williams, T.M. and G.A.J. Worthy. 2002. Anatomy and physiology: The challenge of aquatic performance. Pages 73-97 in *Marine Mammal Biology: An Evolutionary Approach*. Chapter 3. R. Hoelzel (ed). Blackwell Science Publications, Oxford, UK. 432 p.
- Clark, L.S., D.F. Cowan, G.A.J. Worthy, and E.M. Haubold. 2002. An anatomical and pathological examination of the first recorded stranding of a Fraser's dolphin (*Lagenodelphis hosei*) in the Northwestern Gulf of Mexico. *Gulf of Mexico Science* 2002:38-43.
- Kurle, C.M. and G.A.J. Worthy. 2002. Variations in stable carbon and nitrogen isotope ratios in northern fur seal (*Callorhinus ursinus*) tissues: Implications for dietary and migratory reconstructions. *Marine Ecology Progress Series* 236:289-300.
- Kurle, C.M. and G.A.J. Worthy. 2001. Stable isotope assessment of temporal and geographic differences in the feeding ecology of northern fur seals (*Callorhinus ursinus*) and their prey. *Oecologia* 126:254-265.
- Worthy, G.A.J. 2001. Nutrition and energetics. Pages 791-818 in *Handbook of Marine Mammal Medicine*. Chapter 36. 2nd Edition. L. Dierauf and F. Gulland (eds.). CRC Press, Boca Raton, FL. 1063 p.
- Ortiz, R.M. and G.A.J. Worthy. 2000. Effects of capture on adrenal steroid and vasopressin concentrations in free-ranging bottlenose dolphins (*Tursiops truncatus*). *Comparative Biochemistry and Physiology* 125A: 317-324.
- Wardle, W.J., T.A. Haney, and G.A.J. Worthy. 2000. New host record for the whale louse *Isocyamus delphinii* (Amphipoda, Cyamidae). *Crustaceana* 73:639-641.
- Ortiz, R.M., D.S. MacKenzie, and G.A.J. Worthy. 2000. Thyroid hormone concentrations in captive and free-ranging West Indian manatees (*Trichechus manatus*). *Journal of Experimental Biology* 203: 3631-3637.

- Worthy, G.A.J., T.A. Miculka, and S.D. Wright. 2000. Manatee response to cold: How cold is too cold? U.S. Fish and Wildlife Service. Florida Manatees and Warm Water: Proceedings of the Warm Water Workshop, Jupiter, FL. August 24-25, 1999.
- Ortiz, R. M., G.A.J. Worthy, and F.M. Byers. 1999. Estimation of water turnover rates of captive West Indian manatees (*Trichechus manatus*) held in fresh and salt water. *Journal of Experimental Biology* 202:33-38.
- Meador, J.P., D. Ernest, A.A. Hohn, K. Tilbury, J. Gorzelany, G.A.J. Worthy, and J.E. Stein. 1999. Comparison of elements in bottlenose dolphins stranded on the beaches of Texas and Florida in the Gulf of Mexico over a one-year period. *Archives of Environmental Contaminants and Toxicology* 36: 87-98.
- Wilkinson, D. and G.A.J. Worthy. 1999. Marine Mammal Stranding Networks. Pages 396-411 in *Conservation and Management of Marine Mammals. Volume 2.* Twiss, J.R. and R.R. Reeves (eds.). Smithsonian Institution Press. Washington DC. 496 p.
- Turner, J. P. and G.A.J. Worthy 1999. Differentiating populations of bottlenose dolphins (*Tursiops truncatus*) in the Gulf of Mexico using skull morphometrics. *Gulf Research Reports*. Vol. 10, 83 p
- Ortiz, R.M., G.A.J. Worthy, and D.S. MacKenzie. 1998. Osmoregulation in wild and captive West Indian manatees (*Trichechus manatus*). *Physiological Zoology* 71: 449-457.
- Worthy, G.A.J. 1998. Patterns of bottlenose dolphin (*Tursiops truncatus*) strandings in Texas. Pages 47-55 in NOAA Technical Report 143, Characteristics and causes of Texas strandings, R. Zimmerman (ed.). National Marine Fisheries Service.
- Fertl, D., A.J. Schiro, S. Collier, and G.A.J. Worthy. 1997. Stranding of a Cuvier's beaked whale (*Ziphius cavirostris*) in southern Texas, with comments on stomach contents. *Gulf of Mexico Science* 1997: 92-93.
- Lipscomb, T.P., S. Kennedy, D. Moffett, A. Krafft, B.A. Klaunburg, J.H. Lichy, G.T. Regan, G.A.J. Worthy, and J.K. Taubenberger. 1996. Morbilliviral epizootic in bottlenose dolphins of the Gulf of Mexico. *Journal of Veterinary Diagnostic Medicine* 8:283-290.
- Davis, R.W., G.A.J. Worthy, B. Würsig, and S.K. Lynn. 1996. Diving behavior and at-sea movements of an Atlantic spotted dolphin (*Stenella frontalis*). *Marine Mammal Science* 12:569-581.
- Gales, R., D. Renouf and G.A.J. Worthy. 1994. Use of bioelectrical impedance analysis to assess body composition of seals. *Marine Mammal Science*.10:1-12.
- Worthy, G.A.J., D. Casper, H. Rhinehart and M. Moser. 1993. First record of a live-stranded pantropical spotted dolphin (*Stenella attenuata graffmanni*) in central California, USA. *Marine Mammal Science* 9:316-319.
- Bossart, G., D. Busbee, G. Lahvis and G.A.J. Worthy. 1993. Research perspectives for dolphin mortalities in North America. U.S. E.P.A. Report No. EPA/600/R-93/217.
- Stern S.J. Hoelzel, A.R. and Worthy, G.A.J. 1993. Non-lethal Alternatives to the Norwegian Proposal. *Reports of the International Whaling Commission* 43: 189-191.
- Worthy, G.A.J., P.A. Morris, D.P. Costa and B.J. Le Boeuf. 1992. Moulting energetics of the northern elephant seal. *Journal of Zoology, London* 227:257-265.
- Worthy, G.A.J. 1991. Insulation and thermal balance of fasting harp and grey seal pups. *Comparative Biochemistry and Physiology* 100A:845-851.
- Worthy, G.A.J. and E.F. Edwards. 1990. Morphometric and biochemical factors affecting heat loss in a small temperate cetacean (*Phocoena phocoena*) and a small tropical cetacean (*Stenella attenuata*). *Physiological Zoology* 63:432-442.

- Fadely, B.S., G.A.J. Worthy and D.P. Costa. 1990. Assimilation efficiency of marine mammals determined using dietary manganese. *Journal of Wildlife Management* 54:246-251.
- Worthy, G.A.J. 1990. Nutritional energetics for marine mammals. Pages 489-520 *in Handbook of Marine Mammal Medicine: Health, disease and rehabilitation*. L. Dierauf (ed.). CRC Press, Boca Raton, FL. 735 pp.
- Worthy, G.A.J., P.A. Morris, D.P. Costa and B.J. Le Boeuf. 1990. Molt energetics of the northern elephant seal. *Physiologist* 33:A87.
- Lavigne, D.M., S. Innes, G.A.J. Worthy and E.F. Edwards. 1990. Lower critical temperatures of blue whales, *Balaenoptera musculus*. *Journal of theoretical Biology* 144:249-257.
- Innes, S., G.A.J. Worthy, D.M. Lavigne and K. Ronald. 1990. Surface areas of phocid seals. *Canadian Journal of Zoology* 68:2531-2538.
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- Worthy, G.A.J., J. Rose and F. Stormshak. 1988. Anatomy and physiology of fur growth: The pelage priming process. Pages 827-841 *in Wild Furbearer Management and Conservation in North America*. M. Novak, J.A. Baker, M.E. Obbard and B. Malloch (eds.). Ontario Trappers Association, North Bay, Ontario. 1168 pp.
- Hicks, B. and G.A.J. Worthy. 1987. Seal pox in young grey seals (*Halichoerus grypus*) and their handlers. *Journal of Wildlife Diseases* 23:1-6.
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- Worthy, G.A.J. 1987. Metabolism and growth of young harp and grey seals. *Canadian Journal of Zoology* 65:1377-1382.
- Huntley, A.C., D.P. Costa, G.A.J. Worthy and M.A. Castellini (eds.). 1987. *Approaches to Marine Mammal Energetics*. The Society for Marine Mammalogy, Special Publication Number 1. 253 p.
- Worthy, G.A.J., S. Innes, B.M. Braune and R.E.A. Stewart. 1987. Rapid acclimation of cetaceans to an open-system respirometer. Pages 113-124 *in Approaches to Marine Mammal Energetics*. A.C. Huntley, D.P. Costa, G.A.J. Worthy and M.A. Castellini (eds.). The Society for Marine Mammalogy, Special Publication Number 1. 253 pp.
- Worthy, G.A.J. 1987. Ecological energetics of harp and grey seals: Implications from a simulation model. Pages 227- 246 *in Approaches to Marine Mammal Energetics*. A.C. Huntley, D.P. Costa, G.A.J. Worthy and M.A. Castellini (eds.). The Society for Marine Mammalogy, Special Publication Number 1. 253 pp.
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- Worthy, G.A.J. and J.P. Hickie. 1986. Relative brain size in marine mammals. *American Naturalist* 128:445-459.
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- Lavigne, D.M., S. Innes, R.E.A. Stewart and G.A.J. Worthy. 1985. An annual energy budget for Northwest Atlantic harp seals. Pages 319-336 *in Interactions Between Marine Mammals and Fisheries*. J.R. Beddington, R.J.H. Beverton and D.M. Lavigne (eds.). George Allen and Unwin Publishers, London. 343 pp.

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Reports and Briefs:

- Worthy, G.A.J., R.S. Wells, S. Martin and S. Shippee. 2013. Impacts of the 2010 Deepwater Horizon Oil Spill on Estuarine Bottlenose Dolphin populations in the West Florida Panhandle. Final Report to Florida Institute of Oceanography, project number 4710-1101-00-D.
- Worthy, G.A.J., T.A.M. Worthy, N. Browning. 2011. Seasonal variability in the trophic ecology of bottlenose dolphins and their potential prey in the Indian River Lagoon, FL. Final Report to Harbor Branch Oceanographic Institute, project number PO 0012407.
- Worthy, G.A.J. 2008. Assimilation efficiencies of captive West Indian manatees consuming seagrass. Final report to USFWS for contract number 401816G070.
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- Worthy, G.A.J. 2008. An investigation into the possible relationship between killer whale (*Orcinus orca*) predation and the continuing decline of the Steller sea lion (*Eumetopias jubatus*) population. Final report to the Pollock Conservation Cooperative Research Center, project number FP204077.
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- Worthy, G.A.J. and A. Abend. 1998. Impact of killer whale predation on harbor seals in Prince William Sound: A preliminary assessment of diet using stable isotopes and fatty acid signature analysis on blubber biopsies. Northwest Fisheries Science Center Final Report for NOAA contract 96012A-2.
- Worthy, G.A.J. and T.A. Miculka. 1997. Fatty acid signatures and proximate composition of selected forage fish species in Prince William Sound, AK. *Exxon Valdez Oil Spill Restoration Council Final Report*. Northwest Fisheries Science Center Final Report for NOAA contract 95121.
- Worthy, G.A.J. 1992. Body condition of free-ranging bottlenose dolphins (*Tursiops truncatus*) in the vicinity of Port O'Connor, TX - July 1992. Southeast Fisheries Center Final Report for contract No. 40-WCNF-202-988.
- Worthy, G.A.J. 1991. Validation of Bioelectrical Impedance Analysis for assessing body composition of California sea lions. Southwest Fisheries Science Center Administrative Report for LJ-91-44.

- Lavigne, D.M., S. Innes, G.A.J. Worthy, K.M. Kovacs, O.J. Schmitz and J.P. Hickie. 1985. Marine mammal metabolic rates. A brief prepared for The Royal Commission on Seals and the Sealing Industry in Canada.
- Worthy, G.A.J., B.M. Braune and S. Innes. 1985. Bioenergetics of the harbour porpoise, *Phocoena phocoena*, in the Bay of Fundy. Final Report for Department of Supply and Services Contract No. 01SF.FP430-5-S9044.
- Lavigne, D.M., S. Innes, K.M. Kovacs, D.J. Murie, R.E.A. Stewart and G.A.J. Worthy. 1984. Contributed papers. Canadian Atlantic Fisheries Scientific Advisory Committee, Marine Mammals Sub-committee. Bedford Institute, Dartmouth, Nova Scotia. 19-21 November, 1984.
- Worthy, G.A.J. and D.M. Lavigne. 1984. Metabolism and energy requirements of grey seals. Canadian Atlantic Fisheries Scientific Advisory Committee, Marine Mammals Sub-committee. Bedford Institute, Dartmouth, Nova Scotia. 19-21 November, 1984.
- Worthy, G.A.J. and D.M. Lavigne. 1981. Changes in blood properties of fasting and feeding harp seal pups, *Phoca groenlandica*, after weaning. NAFO SCR Doc. 81/XI/159.
- Worthy, G.A.J. and D.M. Lavigne. 1981. Changes in energy stores during neonatal development in the harp seal, *Phoca groenlandica*. NAFO SCR Doc. 81/XI/162.
- Worthy, G.A.J., D.M. Lavigne and W.D. Bowen. 1981. Post-weaning growth of the harp seal, *Phoca groenlandica*. NAFO SCR Doc. 81/XI/163.
- Worthy, G.A.J. and D.M. Lavigne. 1981. Energy utilization of harp seals, *Phoca groenlandica*, during the post- weaning fast. NAFO SCR Doc. 81/XI/164.

Invited Plenary Presentations and Briefings:

- Impacts of the 2010 Deep Water Horizon Oil Spill on Estuarine Bottlenose Dolphin Populations in the West Florida Panhandle. Principal Investigator Coordination Workshop for Deepwater Horizon Oil Spill Research. Florida Institute of Oceanography. University of Central Florida. September 15-16 2010.
- The application of stable isotope and fatty acid signature analysis to assessing habitat utilization and feeding habits of *Sousa* in Taiwan. Developing Conservation Strategies for *Sousa chinensis* in Taiwan. National Taiwan University. Taipei, Taiwan. July 20, 2009.
- Feeding Ecology of Marine Mammals. You are what you eat and where you've been! National Taiwan University. Taipei, Taiwan. July 22, 2009.
- Solving the Mystery of Cetacean Feeding Habits. Far Glory Oceanarium, Hualien, Taiwan. July 24 2009.
- Manatees and cold: Why isn't Florida warm enough? Florida Marine Mammal Health Conference III. April 22-25, 2008. St. Augustine, Florida.
- Impacts of long-term environmental change on the conservation of marine mammals. The 12th Annual Symposium on Cetacean Ecology and Conservation. Threats and Strategies. October 7-13, 2007, Taipei, Taiwan.
- Marine mammal research in the field and laboratory. Florida Branch, American Association for Laboratory Animal Science, Annual Meeting. Lake Buena Vista, FL. July 21-23, 2006.
- Keynote Presidential Address to the 5th Biennial Symposium of the Comparative Nutrition Society. Hickory Corners, MI. July 10-15, 2004.

Marine mammal field research isn't always fun in the sun. Florida Branch, American Association for Laboratory Animal Science Annual meeting. Clearwater Beach, FL. August 11-17, 2003.

Food web dynamics: Approaches to understanding top-down control. 16th Biennial Conference of the Estuarine Research Federation. St Petersburg Beach, Florida, November 4-8, 2001.

Natural history of marine mammals. Keynote Address. 17th Annual Texas Sea Grant Marine Education Symposium. Corpus Christi, Texas. April 1, 2000.

Worthy, G.A.J. 1999. Marine mammal thermoregulation: Not all blubber is created equal. Thirteenth Biennial Conference on the Biology of Marine Mammals. Maui, Hawaii. November 28 - December 3, 1999.

Physiological time versus real time: Ramifications for how large marine mammals view the world. In Scale Issues in Marine Mammals: Concepts and Applications. World Marine Mammal Conference. Monte Carlo, Principality of Monaco. January 20-24, 1998.

The functional significance of neonatal lipid deposition among marine mammals. American Institute of Nutrition. Federation of American Societies of Experimental Biology. San Francisco, California. April 18-22, 1998.

Physiological ecology of the West Indian manatee: Ramifications for the potential release of long-term captives. Florida Department of Environmental Protection. St. Petersburg FL. May 27-28, 1998.

Marine mammal strandings in Texas: Causes and concerns. Sharing our Gulf: A challenge for us all. Bush Presidential Library Conference Center, College Station, Texas. June 10-12, 1998.

Approaches to the immediate and long-term care and rehabilitation of live-stranded marine mammals. The Fifth Symposium on Cetacean Ecology and Conservation. A series of four lectures sponsored by the National Taiwan University held in Taipei City, I-Lan, Tai-Chung, and Kao-Hsung, Taiwan, Republic of China. February 24-March 1, 1997.

Marine mammal strandings in Texas: Historical trends, present problems, and future issues. Texas Academy of Sciences, Galveston, Texas. February 28 - March 2, 1996.

Marine mammal strandings in Texas - Present problems and future issues. Sea Space Annual Meeting, Houston, Texas. June 8-9, 1996.

Marine mammal strandings: What do they tell us about our coastal environment? The Third Symposium on Cetacean Ecology and Conservation, National Taiwan University, Taipei, Taiwan, Republic of China. June 14-21, 1995.

Approaches to the quantification of the energetic requirements of marine mammal populations and their impact on marine ecosystems. The Role of Marine Mammals in the Ecosystem. Northwest Atlantic Fisheries Organization and International Council for the Exploration of the Sea. Dartmouth, Nova Scotia, Canada. September 6-8, 1995.

Insulative capabilities and the problem of thermoregulation in the West Indian manatee. Recent Advances in Marine Mammal Science. The Zoological Society of London. London, England. April 9-10, 1992.

Field measures of marine mammal body composition using Bioelectrical Impedance Analysis. Field Physiology: Expanding our laboratory horizons. American Physiological Society Annual Meeting. Orlando, Florida. October 6-10, 1990.

Conference Presentations:

- Costa D.P., G.A.J. Worthy, R.S. Wells, A.J. Read, D. Waples and M.D. Scott. 2013. Patterns of seasonal metabolic rate variation for bottlenose dolphins in Sarasota Bay, Florida. Twentieth Biennial Conference on the Biology of Marine Mammals. Dunedin, New Zealand. December 9-13, 2013.
- Worthy, G.A.J. S.F. Shippee, R.S. Wells, A. Barleycorn, J.B. Allen and P. Ostrom. 2013. An isotopic assessment of bottlenose dolphin stock structure in the Pensacola–Choctawhatchee Bay estuary complex. 20th Annual Southeast and Mid-Atlantic Marine Mammal Symposium, Jacksonville, FL. March 22-24, 2013.
- Carmichael, R.H. A. Allen, M. Graham, and G.A.J. Worthy. 2011. Were multiple stressors a ‘perfect storm’ for northern Gulf of Mexico bottlenose dolphins in 2011? Nineteenth Biennial Conference on the Biology of Marine Mammals. Tampa, FL. November 27 – December 2, 2011.
- Worthy, G.A.J., S.F. Shippee, P. Ostrom, R.S. Wells, J. Allen, and A. Barleycorn. 2011. Fine scale feeding habits of bottlenose dolphins in the western Florida panhandle as assessed by stable isotope signature analysis. Nineteenth Biennial Conference on the Biology of Marine Mammals. Tampa, FL. November 27 – December 2, 2011.
- Browning, N.E., G.A.J. Worthy, and C. Dold. 2010. A novel approach for assessing stable isotope diet-tissue discrimination factors in cetacean skin. Ninth Biennial Conference of the Comparative Nutrition Society. Tucson, Arizona. August 6-10, 2010.
- Worthy, G.A.J. 2009. Feeding ecology of the bottlenose dolphin (*Tursiops truncatus*) in the Indian River Lagoon, Florida. Eighteenth Biennial Conference on the Biology of Marine Mammals. Québec City, QC, Canada. October 12-16, 2009.
- Witteveen, B.H., G.A.J. Worthy, K.M. Wynne, A.C. Hirons, A.G. Andrews, and R. Markel. 2009. Exploration of trophic levels of North Pacific humpback whales through analysis of stable isotopes: implications on prey selection and resource quality. Eighteenth Biennial Conference on the Biology of Marine Mammals. Québec City, QC, Canada. October 12-16, 2009.
- Worthy, G.A.J. 2008. Assimilation efficiencies of captive West Indian manatees consuming seagrass. Seventh Biennial Conference of the Comparative Nutrition Society. Liscombe Lodge, Liscomb Mills, Nova Scotia Canada. August 8-13, 2008.
- Worthy, G.A.J. 2007. Feeding ecology of the bottlenose dolphin (*Tursiops truncatus*) in the Indian River Lagoon, Florida, USA as assessed by stable isotopes and fatty acid signatures. Seventeenth Biennial Conference on the Biology of Marine Mammals. Capetown, South Africa. November 29 – December 3, 2007.
- Worthy, G.A.J., A.M. Samuel, and T.A.M. Worthy. 2005. An exploration into the feeding ecology of bottlenose dolphins and their potential prey using stable isotopes and fatty acid signature analysis. HERA Workshop, Charleston SC. February 21, 2005.
- Rosen, D.A.S., A.W. Trites, G.A.J. Worthy, and A.J. Winship. 2005. Thermal and digestive constraints to foraging in an aquatic carnivore. Society for Experimental Biology. Barcelona Spain. July 11-15, 2005.
- Samuel, A.M. and G.A.J. Worthy. 2005. Fatty acid signature analysis of spotted and spinner dolphins from the Eastern Tropical Pacific. Sixteenth Biennial Conference on the Biology of Marine Mammals. San Diego, California. December 12-16, 2005.

- Worthy, G.A.J., Samuel, A.M. and T.A.M. Worthy. 2005. Feeding habits of Indian River Lagoon bottlenose dolphins assessed using stable isotope and fatty acid signature analysis. Sixteenth Biennial Conference on the Biology of Marine Mammals. San Diego, California. December 12-16, 2005
- Worthy, G.A.J., A.M. Samuel, and T.A.M. Worthy. 2004. An exploration into the feeding ecology of bottlenose dolphins and their potential prey using stable isotopes and fatty acid signature analysis. Fifth Biennial Conference of the Comparative Nutrition Society. Hickory Corners, Michigan. July 14-19 2004.
- Samuel, A.M., T.A.M. Worthy, and G.A.J. Worthy. 2004. Using stable isotopes and fatty acids to interpret feeding ecology: a cautionary note. Fifth Biennial Conference of the Comparative Nutrition Society. Hickory Corners, Michigan. July 14-19 2004.
- Samuel, A.M., G.A.J. Worthy, T.A.M. Worthy. 2003. Lipid composition of killer whale (*Orcinus orca*) blubber: Implications for fatty acid signature analysis. Fourth Biennial Conference of the Comparative Nutrition Society. Antwerp, Belgium. August 21-25, 2002.
- Samuel, A.M., G.A.J. Worthy, and T.A.M. Worthy. 2003. Changes in lipid composition of killer whale (*Orcinus orca*) skin and blubber. Florida Academy of Sciences. Orlando FL. March 20-22, 2003.
- Samuel, A.M., G.A.J. Worthy, and T.A.M. Worthy. 2003. Assessing dietary preferences of free-ranging bottlenose dolphins (*Tursiops truncatus*) using fatty acid signature analysis. Fifteenth Biennial Conference on the Biology of Marine Mammals. Greensboro, North Carolina. December 14-20, 2003.
- Worthy, G.A.J., A.M. Samuel, and T.A.M. Worthy. 2003. Composition of killer whale (*Orcinus orca*) skin and blubber: Implications for fatty acid signature analysis. Fifteenth Biennial Conference on the Biology of Marine Mammals. Greensboro, North Carolina. December 14-20, 2003.
- Miculka, T.A. and G.A.J. Worthy. 2000. Metabolism of the West Indian manatee (*Trichechus manatus*) – what would Kleiber think? Third Biennial Meeting of the Comparative Nutrition Society Symposium, Pacific Grove CA. August 4 - 9, 2000.
- Miculka, T.A., A.M. Samuel, and G.A.J. Worthy. 1999. An interspecific comparison of insulation in ten species of odontocetes. Thirteenth Biennial Conference on the Biology of Marine Mammals. Maui, Hawaii. November 28 - December 3, 1999.
- Soliz, M.Y., N.R. LeBoeuf, M.J. Keogh, D.J. Medford, A.E. Bull, and G.A.J. Worthy. 1996. Training a juvenile bottlenose dolphin how to eat. Texas Academy of Sciences, Galveston, Texas. February 28 - March 2, 1996.
- Walsh, M.T., O.T. Oftedal, G.A.J. Worthy, Q.R. Rodgers,, S.M. Innes, and T.W. Campbell. 1996. Manatee milk analysis: changes throughout nursing. Annual Conference of the International Association of Aquatic Animal Medicine. Baltimore, MD. May 6-10, 1996.
- Worthy, G.A.J. and O.T. Oftedal. 1996. Metabolism, growth, and milk composition of a suckling West Indian manatee (*Trichechus manatus*). First Biennial meeting of the Comparative Nutrition Society Symposium, Leesburg, Virginia. August 2-6, 1996.
- Clark, L.S., E.M. Haubold, and G.A.J. Worthy. 1995. The use of dermestid beetles in the cleaning of cetacean skeletal remains. Texas Academy of Science, Baylor University, Waco Texas. March 12, 1995.

- LeBoeuf, N.R., G.A.J. Worthy, and E.M. Haubold. 1995. Educational programs of the Texas Marine Mammal Stranding Network. Texas Academy of Science, Baylor University, Waco Texas. March 12, 1995.
- Worthy, G.A.J. and R.W. Davis. 1995. Diving behavior and movement patterns of an Atlantic spotted dolphin (*Stenella frontalis*) obtained by satellite telemetry. Eleventh Biennial Conference on the Biology of Marine Mammals. Orlando, Florida. December 14-18, 1995.
- Costa, D.P., R.S. Wells, G.A.J. Worthy, and A.J. Read. 1995. Free-ranging energetics of the bottlenose dolphin. Eleventh Biennial Conference on the Biology of Marine Mammals. Orlando, Florida. December 14-18, 1995.
- Bull, A.E. and G.A.J. Worthy. 1995. Food intake and blood chemistry response to antibiotic regimes in successfully rehabilitated stranded cetaceans. Eleventh Biennial Conference on the Biology of Marine Mammals. Orlando, Florida. December 14-18, 1995.
- Mate, B.R. and G.A.J. Worthy. 1995. Tracking the fate of rehabilitated dolphins. Eleventh Biennial Conference on the Biology of Marine Mammals. Orlando, Florida. December 14-18, 1995.
- Miculka, T.A. and G.A.J. Worthy. 1995. Metabolic capabilities and the limits to thermoneutrality in juvenile and adult West Indian manatees (*Trichechus manatus*). Eleventh Biennial Conference on the Biology of Marine Mammals. Orlando, Florida. December 14-18, 1995.
- Price-May, Linda, A. Amos, A.E. Bull, E.M. Haubold, A. Wickham-Rowe, and G.A.J. Worthy. 1995. An assessment of the retrieval, rehabilitation, and release of ten odontocetes stranded on the Texas coast. Eleventh Biennial Conference on the Biology of Marine Mammals. Orlando, Florida. December 14-18, 1995.
- Worthy, G.A.J. 1994. Physiological ecology of the West Indian manatee. First International Manatee and Dugong Research Conference. University of Florida, Gainesville, Florida. March 11-13, 1994.
- Miculka, T.A. and G.A.J. Worthy. 1994. Peripheral tissue composition and its impact on heat loss in the West Indian manatee (*Trichechus manatus*). First International Manatee and Dugong Research Conference. University of Florida, Gainesville, Florida. March 11-13, 1994.
- Ortiz, R.M., G.A.J. Worthy and D. Mackenzie. 1994. A comparison of thyroid hormone levels in captive and free-ranging West Indian manatees (*Trichechus manatus*). First International Manatee and Dugong Research Conference. University of Florida, Gainesville, Florida. March 11-13, 1994.
- Haubold, E.M., G.A.J. Worthy, and R.J. Tarpley. 1994. Incidence of human interaction in marine mammal strandings along the Texas coast from 1980-1993. International Association of Aquatic Animal Medicine. Vallejo, California. May 11-14, 1994.
- Worthy, G.A.J. and E.M. Haubold. 1994. Dolphin mortalities in the Western Gulf of Mexico, 1994. 1994 Texas Mortalities Workshop, Galveston, Texas. August 10-11, 1994.
- Costa, D.P., G.A.J. Worthy, R.S. Wells, A.J. Read, M. Scott, B. Irvine, and D. Waples. 1993. Seasonal changes in the field metabolic rate of bottlenose dolphins (*Tursiops truncatus*). Tenth Biennial Conference on the Biology of Marine Mammals. Galveston, Texas. November 11-15, 1993.
- Miculka, T.A. and G.A.J. Worthy. 1993. Peripheral tissue composition and its impact on heat loss in the West Indian manatee (*Trichechus manatus*). Tenth Biennial Conference on the Biology of Marine Mammals. Galveston, Texas. November 11-15, 1993.

- Worthy, G.A.J. and B.E. Curry. 1993. Metabolism and growth of a nursing West Indian manatee (*Trichechus manatus*). Tenth Biennial Conference on the Biology of Marine Mammals. Galveston, Texas. November 11-15, 1993.
- Worthy, G.A.J. 1991. Thermoregulatory implications of the interspecific variation in blubber composition of odontocete cetaceans. Ninth Biennial Conference on the Biology of Marine Mammals. Chicago, Illinois. December 5-9, 1991.
- Cowan, D.F. and G.A.J. Worthy. 1991. Body site variations in the structure of the blubber in *Tursiops truncatus*. Ninth Biennial Conference on the Biology of Marine Mammals. Chicago, Illinois. December 5-9, 1991.
- Worthy, G.A.J., P.A. Morris, D.P. Costa, and B.J. Le Boeuf. 1990. Molt energetics of northern elephant seals. American Physiological Society Annual Meeting. Orlando, Florida. October 6-10, 1990.
- Casper, D., H. Rhinehart, D.P. Costa, and G.A.J. Worthy. 1990. Monitoring heat flow in dolphins: A new method for assessing optimal water temperature. International Association of Aquatic Animal Medicine. Chicago, Illinois. October, 1990.
- Worthy, G.A.J., R.S. Wells, A.J. Read and D.P. Costa. 1990. Seasonal and annual trends in body condition of free-ranging bottlenose dolphins in Sarasota Bay, Florida. 4th Biennial Conference of the American Cetacean Society. Monterey, California. November 9-11, 1990.
- Worthy, G.A.J. 1990. The elucidation of the behavioral and physiological ecology of bottlenose dolphins through studies by the Texas Marine Mammal Stranding Network. 1st Annual Conference on Texas Bottlenose Dolphin Research. Galveston, Texas, October 27-28, 1990.
- Worthy, G.A.J. 1989. Seasonal and annual variation in body condition of bottlenose dolphins (*Tursiops truncatus*). Sixth Annual Physiological Ecology Meeting. University of California - White Mountain Research Station, Bishop, California. June 2-4, 1989.
- Worthy, G.A.J. 1989. Use of bioelectrical impedance methodology in assessing body composition of marine mammals. 69th Annual Meeting of the American Society of Mammalogists. University of Alaska, Fairbanks, Alaska. June 9-16, 1989.
- Costa, D.P., G.A.J. Worthy, R.S. Wells, and K.S. Norris. 1989. Seawater drinking in bottlenose dolphins *Tursiops truncatus*. International Union of Physiological Sciences, Helsinki, Finland. July 9-14, 1989.
- Rhinehart, H., D. Casper, G.A.J. Worthy, and M. Wells. 1989. Initial care and stabilization of a stranded pygmy sperm whale, *Kogia breviceps*: A team approach. International Association of Aquatic Animal Medicine. Amsterdam, The Netherlands. October 29-November 3, 1989.
- Worthy, G.A.J. 1989. Use of bioelectrical impedance methodology in assessing body composition of marine mammals. Eighth Biennial Conference on the Biology of Marine Mammals. Pacific Grove, California. December 7- 11, 1989.
- Rhinehart, H., D. Casper, G.A.J. Worthy, and M. Wells. 1989. Initial care and stabilization of a stranded pygmy sperm whale, *Kogia breviceps*: A team approach. Eighth Biennial Conference on the Biology of Marine Mammals. Pacific Grove, California. December 7-11, 1989.
- Worthy, G.A.J. and D.P. Costa. 1988. Seasonal and annual trends in body condition of California sea lions. 5th Biennial Mugu Lagoon/San Nicolas Island Ecological Research Symposium, Pacific Missile Test Center, Naval Air Station, Point Mugu, California. October 23, 1988.

- Worthy, G.A.J. and B.S. Fadely. 1987. A new method for the determination of assimilation efficiency in free-ranging marine mammals. Second Workshop on the Energetics of Marine Mammals. Miami, Florida. December 5, 1987.
- Worthy, G.A.J. and E.F. Vetter. 1987. Morphometric and biochemical factors affecting heat loss in a small temperate and a small tropical cetacean. Seventh Biennial Conference on the Biology of Marine Mammals. Miami, Florida. December 6-9, 1987.
- Worthy, G.A.J. 1985. An indirect calorimeter for use with short term captive cetaceans. Marine Mammal Bioenergetics Symposium. Vancouver Aquarium, Vancouver, British Columbia. November 21-22, 1985.
- Worthy, G.A.J. 1985. Insulation and peripheral heat exchange in young phocid seals. Sixth Biennial Conference on the Biology of Marine Mammals. Vancouver, British Columbia. November 22-26, 1985.
- Worthy, G.A.J., D.M. Lavigne, S. Innes and R.E.A. Stewart. 1984. An annual energy budget for Northwest Atlantic harp seals. Annual meeting of the Canadian Society of Zoologists, Acadia University, Wolfville, Nova Scotia. May 20-23, 1984.
- Worthy, G.A.J. 1983. Metabolic rate and thermoregulation of weaned grey seal pups. Annual meeting of the Canadian Society of Zoologists, University of Ottawa, Ottawa, Ontario. May 15-19, 1983.
- Worthy, G.A.J. 1983. Metabolic rate and thermoregulation of young grey seal pups. Fifth Biennial Conference on the Biology of Marine Mammals. Boston, Massachusetts. November 27 - December 1, 1983.
- Worthy, G.A.J., D.M. Lavigne, and W.D. Bowen. 1981. Post-weaning growth in the harp seal (*Phoca groenlandica*). Annual meeting of the Canadian Society of Zoologists, University of Waterloo, Waterloo, Ontario. May 10-13, 1981.
- Worthy, G.A.J. 1981. Body size and composition of harp seals, *Phoca groenlandica*, during the post-weaning period. Fourth Biennial Conference on the Biology of Marine Mammals. San Francisco, California, December 14-18, 1981.

Invited Lectures and Seminars:

- The Sustainable Coastal Systems Initiative at the University of Central Florida. Space Life Sciences Laboratory, Kennedy Space Center. July 13, 2016.
- Marine Mammals in Florida – Then and Now. Orlando Science Center. April 19, 2014.
- Marine Mammal Mortalities in the Indian River Lagoon and the Relationship with Recent Algal Blooms. Orange County Library System Science Café. February 11, 2014.
- Global Climate Change: Implications for the future of Sirenians. College of Veterinary Medicine, Marine Animal Health Program. University of Florida. Gainesville, FL. February 20, 2012.
- Sirenian Metabolism and Thermoregulation. College of Veterinary Medicine, Marine Animal Health Program. University of Florida. Gainesville, FL. April 12, 2010.
- Adaptive Anatomy and Physiology of marine mammals. Envirovet Summer Institute. Harbor Branch Oceanographic Institution. Fort Pierce, FL. July 13, 2008.
- Physiological adaptations of marine mammals. Envirovet Summer Institute. Harbor Branch Oceanographic Institution. Fort Pierce, FL. July 23, 2007.

New methodologies for exploring the feeding ecology and physiology of free-ranging marine mammals. College of Veterinary Medicine, Marine Animal Health Program. University of Florida. Gainesville, FL. March 2, 2006.

You are what you eat and where you've been. Florida Museum of Natural History. Gainesville, FL. March 2, 2006.

Anatomy and physiology: Adaptations for aquatic living. Envirovet Summer Institute. Harbor Branch Oceanographic Institution. Fort Pierce, FL. July 15, 2006.

Anatomy and physiology: Adaptations for aquatic living. Envirovet Summer Institute. Harbor Branch Oceanographic Institution. Fort Pierce, FL. July 18, 2005.

Physiological Adaptations to the Aquatic Environment. Envirovet Summer Institute. Harbor Branch Oceanographic Institution. Fort Pierce, FL. July 12, 2004.

Understanding manatee temperature requirements: Some like it hot. Manatee Habitat Workshop. U.S. Fish and Wildlife Service. Jupiter Beach FL. September 27-29, 2004.

How marine mammals make a living in the real world. Orlando Science Center. Orlando FL. May 16, 2003.

Anatomy and physiology: Adaptations for aquatic living. Envirovet Summer Institute. Harbor Branch Oceanographic Institution. Fort Pierce, FL. July 13, 2003.

Exploring the feeding ecology of marine mammals: You are what you eat and where you've been. Inaugural Presentation for the 40th Anniversary Seminar Series. Hubbs-SeaWorld Research Institute. San Diego CA. August 14, 2003.

An assessment of manatee metabolism, body condition and feeding ecology in rehabilitated and released West Indian manatees. Interagency-Oceanaria Working Group. Orlando FL. October 2, 2003.

Research of the Physiological Ecology and Bioenergetics Lab – explaining how animals live in the real world. Biology Department, Florida Institute of Technology, Melbourne FL. October 23, 2001

Physiological ecology and the conservation of endangered species. University of Central Florida, Orlando, Florida. November 2, 2000.

Manatee thermoregulation: How cold is too cold? US Fish and Wildlife Service Warm Water Workshop. Jupiter Beach, Florida. August 24-26, 1999.

Physiological capabilities of the Florida manatee: Ramifications for the recovery of an endangered species. University of Central Florida, Orlando, Florida. October 4, 1999.

Physiological constraints on the ecology of the West Indian manatee. University of South Florida, St. Petersburg, Florida. March 27, 1998.

The Texas Marine Mammal Stranding Network: Its operation and function. Texas A&M University at Galveston, Galveston Texas. April 12, 1997.

Physiological ecology of manatees: Implications for the management of an endangered species. University of Port Elizabeth, Port Elizabeth, South Africa. February 22, 1996.

Marine mammal strandings - what we can learn from them. Port Elizabeth Museum, Port Elizabeth, South Africa. March 14, 1996.

Marine mammal strandings: What do they tell us about our coastal environment? Texas A&M University - Corpus Christi, Corpus Christi, Texas. October 23, 1996.

Physiological ecology of an endangered species: The West Indian manatee. Department of Wildlife and Fisheries Sciences. Texas A&M University, College Station, Texas. April 21, 1995.

The West Indian manatee - a tropical species living in the "cold" waters of Florida. Memorial University of Newfoundland, St. John's, Newfoundland, Canada. December 1, 1995.

Natural history of marine mammals. 15th Annual Marine Education Symposium. Texas A&M University - Corpus Christi. April 9, 1994.

The energetics and life history of free-ranging marine mammals and what we can learn from them to improve their care in captivity. International Association of Aquatic Animal Medicine. Student Chapter, Texas A&M University, College Station. February 24, 1993.

Manatees - a group in peril. Endangered Species Club, Texas A&M University at Galveston. March 25, 1992.

Marine mammal strandings: What do they tell us about our coastal environment? President's Lecture Series. Texas Institute of Oceanography, Texas A&M University at Galveston. April 28, 1992.

Manatees - our endangered sirens. Endangered Species Club, Texas A&M University at Galveston. October 12, 1992.

Marine mammals and commercial fisheries. Endangered Species Club, Texas A&M University at Galveston. January 23, 1991.

Seasonal variation in body condition and energetics of marine mammals. Memorial University of Newfoundland, St. John's, Newfoundland. August 5, 1991.

Manatee physiological ecology: Lactation, assimilation efficiency, metabolism and thermoregulation. The Living Seas, EPCOT Center, Orlando, FL. November 7, 1991.

Physiological ecology of manatees. Endangered Species Club, Texas A&M University at Galveston. November 13, 1991.

Physiological ecology of marine mammals. International Association of Aquatic Animal Medicine, Student Chapter, Texas A&M University, College Station, TX, November 20, 1991.

Physiological ecology: Implications for the care of captive marine mammals. Brookfield Zoo, Brookfield, Illinois. March 28, 1990.

Physiological ecology of marine mammals: novel techniques and their field application. National Zoological Park, Washington, D.C. March 29, 1990.

Patterns of commercial exploitation in the fisheries of the Northwest Atlantic Ocean. Scripps Institution of Oceanography, La Jolla, California. May 9, 1990.

Approaches to the study of cetacean energetics. Department of Biology, Texas A&M University, College Station, Texas. September 18, 1990.

Cetacean energetics: the state of the "art". Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, Texas. September 28, 1990.

Physiological ecology of bottlenose dolphins in Sarasota Bay, Florida. American Cetacean Society, Galveston Chapter. Galveston, Texas. October 2, 1990.

Strandings and the physiological ecology of cetaceans. Texas Marine Mammal Stranding Network, Galveston Region. October 4, 1990.

Application of bioelectrical impedance methodology to the assessment of body condition in marine mammals. National Zoological Park, Washington, D.C. March 8, 1989.

Cetacean bioenergetics: how to make a living in the sea. Texas A&M University at Galveston, Galveston, Texas. August 4, 1989.

An Earthwatch perspective on research into marine mammal behavior, cognition and physiology at Long Marine Laboratory. University of California, Los Angeles, California. September 26, 1989.

Application of bioelectrical impedance methodology to the assessment of body condition in marine mammals. Southwest Fisheries Center, La Jolla, California. September 27, 1989.

Energy storage and thermoregulation of marine mammals. Texas A & M University at Galveston, Galveston, Texas. October 19, 1989.

Cetacean energetics. Texas A&M University at Galveston, Galveston, Texas. October 21, 1989.

Marine mammal energetics: Is fat all there is? University of California, Santa Cruz, Santa Cruz, California. November 15, 1989. (Interview for faculty position)

Characterization of population condition in marine mammals. Southwest Fisheries Center, La Jolla, California. February 29, 1988.

Are there evolutionary advantages to being stupid? California State University, Hayward, California. May 14, 1988.

Environmental and morphological constraints on body fat distribution in marine mammals. University of Toronto, Toronto, Ontario, Canada. June 6, 1988.

Thermoregulation of marine mammals. Moss Landing Marine Laboratories, Moss Landing, California. February 20, 1987.

Fasting energetics of some northern phocid seals: ice versus terrestrial breeding. University of California, Santa Cruz, California. February 28, 1986.

Interactions between harp seals and commercial fisheries: biology and politics. Southwest Fisheries Center, La Jolla, California. March 6, 1986.

Bioenergetics of the harbor porpoise in the Bay of Fundy. Scripps Institution of Oceanography, University of California, San Diego, California. March 8, 1986.

Training of Graduate Students and Postdoctoral Fellows:

I. Postdoctoral Fellows:

Dr. Barbara Curry (Ph.D. Texas A&M University) – 2011-2014
Dr. Lisa A. Hoopes (Ph.D. Texas A&M University) – 2007-2008
Dr. Jo Ann Mellish (Ph.D. Dalhousie University) – 1999-2001
Dr. Jonathan Stern (Ph.D. Texas A&M University) – 1998-2000

II. Past and Present Graduate Students:

a) Completed Students:

Julia Behler, M.S. 2016. Fish ecology in the IRL using stable isotopes. University of Central Florida, Orlando FL. 58 p.

Brandon Davis, M.S. 2014. Effects of weaning age on body composition and growth of *ex situ* California sea lion (*Zalophus californianus*) pups. University of Central Florida, Orlando FL. 58 p.

- Ann Spellman. Ph.D. 2014. Physiological constraints on warm-water habitat site selection and utilization by the Florida manatee (*Trichechus manatus latirostris*) in east central Florida. University of Central Florida, Orlando FL. 380 p.
- Steve F. Shippee. Ph.D. 2014. Movements, fishery interactions, and unusual mortalities of bottlenose dolphins. University of Central Florida, Orlando FL. 287 p.
- Nicole E. Browning. Ph.D. 2013. Habitat use and feeding ecology of delphinids inferred from stable isotopes and fatty acid signatures. University of Central Florida, Orlando FL. 168 p.
- Katharine DiSalvo. M.S. 2013. Fractal analysis of manatee behavior and habitat utilization. Final report. University of Central Florida, Orlando FL. 32 p.
- Jennifer Fletcher Odom. M.S. 2012. Fine-scale geographic variation of stable isotope and fatty acid signatures of three fish species in the Indian River Lagoon, Florida. University of Central Florida, Orlando FL. 50 p.
- Brittany Billak. M.S. 2011. Anthropogenic sounds in marine mammal conservation. Final report. University of Central Florida, Orlando FL. 35 p.
- Jennifer Fewster, M.S. 2010. Nutritional ecology of giraffes assessed using dietary alkanes. Final report. University of Central Florida, Orlando FL. 51 p.
- Stacy Knight, M.S. 2009. Population structure and feeding ecology of green sea turtles. Final report. University of Central Florida, Orlando FL. 53 p.
- Terry Williamson, M.S. 2009. Monitoring scarping, erosion, and compaction of beaches in Brevard County FL and their effects on sea turtle nesting success. Final report. University of Central Florida, Orlando FL. 35 p.
- Michelle A. DiPiazza, M.S. 2008. The use of manganese as an inert marker to estimate assimilation efficiency in West Indian manatees (*Trichechus manatus*). Final report. University of Central Florida, Orlando FL. 54 p.
- Briana H. Witteveen, Ph.D. 2008. Using stable isotopes to assess population structure and feeding ecology of North Pacific humpback whales (*Megaptera novaeangliae*). University of Central Florida, Orlando FL. 153 p.
- Lisa A. Hoopes, Ph.D. 2007. Metabolic and thermoregulatory capabilities of juvenile Steller sea lions (*Eumetopias jubatus*). Texas A&M University, College Station TX 157 p.
- Christy D. Alves, M.S. 2006. Isotopic diet-tissue discrimination and turnover rates in West Indian manatees (*Trichechus manatus*): implications for evaluating their feeding ecology and habitat utilization. University of Central Florida, Orlando FL. 119 p.
- Nathalie L.E. Greenwald, M.S. 2005. A theoretical approach to assessing annual energy balance in gray whales (*Eschrichtius robustus*). University of Central Florida, Orlando FL. 111 p.
- Michelle Berman, M.S. 2005. Effects of food deprivation on plasma lipid concentration and composition in Steller sea lions (*Eumetopias jubatus*). University of Central Florida, Orlando FL. 89 p.
- Jason P. Turner, Ph.D. 2003. Utilizing fatty acids as dietary indicators: Lab trials and field applications. Texas A&M University, College Station TX. 169 p.
- Heather R. Smith, M.Sc. 2002. Fatty acid composition of common dolphin blubber. Texas A&M University, College Station TX. 89 p.
- Emma V.H. Roscow, M.Sc. 2001. Thermoregulation in Steller sea lions: A modeling approach. Texas A&M University, College Station TX. 165 p.

- Kimberly J. Reich, M.Sc. 2001. Regional variability in feeding habits of the Florida manatee (*Trichechus manatus latirostris*): a preliminary assessment using ^{15}N and ^{13}C . Texas A&M University, College Station TX. 78 p.
- Leslie A. Cornick, Ph.D. 2001. Optimal foraging theory as a model to examine the relationship between relative prey accessibility and foraging energetics in Steller sea lions (*Eumetopias jubatus*) in the Gulf of Alaska and Bering Sea. Texas A&M University, College Station TX. 100 p.
- Asha M. Samuel, M.Sc. 2000. Fatty acid composition and distribution in the blubber of bottlenose dolphins (*Tursiops truncatus*). Texas A&M University, College Station TX. 128 p.
- Katherine W. McFadden, M.Sc. 1999. Photogrammetry as a tool to estimate body size and condition in three phocid species: the Hawaiian monk seal (*Monachus schauinslandi*), the harbor seal (*Phoca vitulina*), and the northern elephant seal (*Mirounga angustirostris*). Texas A&M University, College Station TX. 106 p.
- Jason P. Turner, M.Sc. 1998. A comparison of the cranial morphology of bottlenose dolphins (*Tursiops truncatus*) in the Gulf of Mexico. Texas A&M University, College Station, TX. 135 p.
- S. Jonathan Stern, Ph.D. 1998. Baleen whales and spatio-temporal scales: Implications of distribution and movement patterns. Texas A&M University, College Station, TX. 258 p.
- Carolyn M. Kurle, M.Sc. 1998. Stable isotope assessment of temporal and geographic differences in feeding ecology of northern fur seals (*Callorhinus ursinus*). Texas A&M University, College Station, TX. 63 p.
- Todd T. TenBrink, M.Sc. 1997. Changes in heavy metal concentrations in stranded decomposing Atlantic bottlenose dolphins, *Tursiops truncatus*, found along the Texas coast. Texas A&M University - Corpus Christi, Corpus Christi, TX. 69 p.
- Barbara E. Curry, Ph.D. 1997. Phylogenetic relationships among bottlenose dolphins (genus: *Tursiops*) in a worldwide context. Texas A&M University, College Station, TX. 136 p.
- Lisl K.M. Shoda, Ph.D. 1997. Organochlorine distribution and immune responses in rehabilitating northern elephant seals. Texas A&M University, College Station, TX. 141 p.
- Kelly A. Waples, Ph.D. 1997. The release of long-term captive dolphins: Planning, implementation, and related research. Texas A&M University, College Station, TX. 211 p.
- Rudy M. Ortiz, M.Sc. 1994. Water balance in free-ranging and captive West Indian manatees (*Trichechus manatus*). Texas A&M University, College Station, TX. 87 p.

b) Current Students:

- Florence Evacitas – Ph.D. student (NTU): application of stable isotopes to Taiwanese dolphins
- Madison Hall – Ph.D. student: manatee landscape genetics throughout the Caribbean basin
- Christina Toms – Ph.D. student: bottlenose dolphin distribution patterns in Pensacola Bay FL

c) Supervision of Outside Graduate Students:

- Sarah Courbis – Link Foundation/Smithsonian Institution Graduate Student Fellow, Fort Pierce Marine Research Station: feeding ecology of manatees in the Indian River Lagoon (2001)

d) Completed Students (Committee Member):

- Lauren Harshaw, Ph.D. 2012. Evaluation of the nutrition of Florida manatees (*Trichechus manatus manatus*). University of Florida. 191 p.
- Robert A. Aldridge, M.S. 2008. Hatching asynchrony occurs as a byproduct of maintaining egg viability in the Florida Scrub Jay. University of Central Florida, Orlando, FL. 79 p
- Monica Ross, M.S. 2007. Seasonal and diel patterns of manatee habitat use. University of Central Florida, Orlando, FL. 55 p.
- Douglas A. Skurski, M.S. 2006. Monitoring a potentially stressful situation in captive Western lowland gorillas (*Gorilla gorilla gorilla*) through analysis of behavior and urinary cortisol. University of Central Florida, Orlando, FL. 70 p.
- Beth A. Pettit, M.S. 2006. Reproductive delay in the female Cape ground squirrel (*Xerus inauris*). University of Central Florida, Orlando, FL. 82 p.
- Mathew J. Scriptor, M.S. 2006. Analysis of fatty acid compositional changes in the Atlantic tarpon (*Megalops atlanticus*) in relation to a changing diet. Florida Institute of Technology, Melbourne, FL. 75 p.
- Lynette Bouchie, M.S. 2004. Ovulation in the cape ground squirrel (*Xerus inauris*). University of Central Florida, Orlando, FL. 53 p.
- Rebecca Sellin, M.S. 2003. The influence of hormones and sexual swellings on social interactions in female mandrills (*Mandrillus spinx*). University of Central Florida, Orlando, FL. 124 p.
- Kate Willis, M.Sc. 2003. Thermoregulation in Steller sea lions: An experimental approach. Texas A&M University, College Station, TX. 151 p.
- Audra L. Ames, Ph.D. 2002. Lipid chemistry of the Florida manatee, *Trichechus manatus manatus*. University of South Florida, St Petersburg FL. 279 p.
- Jennifer Turner, M.Sc. 2001. Characterizing bottlenose dolphin (genus *Tursiops*) stocks in the Gulf of Mexico using hemoglobin, and mtDNA: a comparison with morphometrics. University of Houston - Clear Lake, Houston, TX. 70 p.
- Tammy Adams, Ph.D. 2000. Indices of maternal investment and dietary preferences in adult female Alaskan Steller sea lions (*Eumetopias jubatus*). Texas A&M University, College Station, TX. 143 p.
- Elisif Brandon, Ph.D. 2000. Maternal investment in Steller's sea lions (*Eumetopias jubatus*). Texas A&M University, College Station, TX. 137 p.
- Anna Forrest, M.Sc. 2000. Spinner dolphin (*Stenella longirostris*) behavior: Effects of tourism. Texas A&M University, College Station, TX. 45 p.
- David Weller, Ph.D. 1998. Global and regional variation in the biology and behavior of bottlenose dolphins. Texas A&M University, College Station, TX. 142 p.
- Leslie I. Ward-Geiger, M.Sc. 1997. Blubber depth and body condition indices in the Florida manatee (*Trichechus manatus latirostris*). University of South Florida, St. Petersburg, FL. 119 p.
- Danielle M. Waples, M.Sc. 1995. Activity budgets of free-ranging bottlenose dolphins (*Tursiops truncatus*) in Sarasota Bay, Florida. University of California, Santa Cruz, CA. 61 p.
- Alexis S. Barbour, M.Sc. 1994. Heat increment of feeding in juvenile northern elephant seals. University of California, Santa Cruz, CA. 47 p.
- Gregory G. Salata, M.Sc. 1993. Analysis of Gulf of Mexico marine mammals for organochlorines and PCBs. Texas A&M University, College Station, TX. 134 p.

- Vicky L. Kirby, Ph.D. 1992. The regulation of fuel homeostasis in young northern elephant seals. University of California, Santa Cruz, CA. 157 p.
- Sean H. Adams, M.Sc. 1991. Changes in protein metabolism and water conservation in northern elephant seal pups during the postweaning fast. University of California, Santa Cruz, CA. 71 p.
- John A. Liao, M.Sc. 1990. An investigation of the effect of water temperature on the metabolic rate of the California sea lion (*Zalophus californianus*). University of California, Santa Cruz, CA. 55 p.
- Brian S. Fadely, M.Sc. 1989. Investigations on the water balance and assimilation efficiency of the northern fur seal (*Callorhinus ursinus*). University of California, Santa Cruz, CA. 55 p.

e) Current Students (Committee Member):

- Florence Evacitas – Ph.D. student: application of stable isotopes in the assessment of feeding ecology of small cetaceans in Taiwanese waters (co-Chair - National Taiwan University)
- Amanda Ardente – Ph.D. student: metabolomics analysis of bottlenose dolphins (University of Florida)
- Lenin Oviedo – Ph.D. student: feeding ecology of bottlenose and spotted dolphins in Golfo Dulce, Costa Rica. (The Swire Institute of Marine Science-The University of Hong Kong)
- Ryan Chabot – MS student: isotopic analysis of sea turtles. UCF

f) Invited External Dissertation Examiner

- Crystal Lenky, Ph.D. 2012. Foraging behavior of female Weddell seals (*Leptonychotes weddellii*) during lactation: new insights from dietary biomarkers. University of Canterbury, Christchurch, New Zealand.
- Sophie Hall-Aspland, Ph.D. 2005. Foraging ecology of Antarctic leopard seals. University of Sydney, Sydney, Australia.
- Patrik Börjesson, Ph.D. 2002. Geographical variation and resource use in harbour porpoises. University of Stockholm University, Stockholm, Sweden.
- Monica Muelbert, Ph.D. 1998. The influence of size at weaning on the transition to nutritional independence in the harbour seal: is bigger better? Dalhousie University, Halifax, NS Canada.
- Debbie Young, Ph.D. 1998. Aspects of condition in captive and free-ranging dolphins. Rhodes University, South Africa.
- David Rosen, Ph.D. 1995. Seasonal changes in the energy budgets of captive harbour seals (*Phoca vitulina concolor*). Memorial University, St. Johns NF, Canada.

III. Undergraduate Scholars and Interns:

- Kristen Keefer (2016-2017) Undergraduate Honors Thesis in Biology
- Vanessa McRae (2015-2016) Undergraduate Honors Thesis in Biology
- Serenela Pelier (2014-2015) Undergraduate Honors Thesis in Anthropology
- Alexandra Azcona (2013-2014) Undergraduate Honors Thesis in Biology
- Marie Kasprzyk (2012-2013) Undergraduate Honors Thesis in Engineering
- Caitlin Stevenson (2011-2013) EXCEL in STEM, SURE
- Kelly Halpin (2011-2012)

Davi Foreman (2011-2012)
 Christina Nagy (2011-2012) EXCEL in STEAM (Science, Technology, Engineering, Art and Mathematics)
 Jessica Serrano (2010-2012)
 Christine Hollis (2010-2011) EXCEL in STEM
 Melyssa Allen (2010-2011) RAMP Scholar
 Victoria Davis (2010-2011)
 Manual Del Rio (2009-2011) RAMP Scholar (Research and Mentoring Program)
 Alyssa Blew (2009-2010) EXCEL in STEM (Science, Technology, Engineering and Mathematics)

Graduate Student Scholarship and Awards Recipients:

Brittany Billak	DoD SMART Fellowship (2009-2011)
Stacy Knight	UCF Boyd Lyon Memorial Fellowship (2007-2009)
Ann Spellman	Manatee Conservation Award, U.S. Fish and Wildlife Service (2006)
Nicole Browning	Lerner Gray Fund for Marine Research Award (2006-2007)
Briana Witteveen	UCF Trustees Fellowship (2005-2007)
Jennifer Fewster	UCF Presidential Fellowship (2004-2008)
Michelle DiPiazza	UCF Incentive Fellowship (2003-2004)
Christy Alves	UCF Incentive Fellowship (2002-2003)
Nicole Browning	Florida-Canada Linkage Institute Fellowship (2002-2008)
Kimberley Reich	Link Foundation/Smithsonian Institution Graduate Student Fellow (2001)
Kate Willis	Texas Institute of Oceanography Graduate Fellowship (2000-2001)
Jason Turner	Sea Space Scholarship (2000)
Lisa Hoopes	Texas Institute of Oceanography Graduate Fellowship (2000)
Carolyn Kurle	Texas A&M University Association of Former Students Award for Distinguished Graduate Student (1999)
Leslie Cornick	Texas Institute of Oceanography Graduate Fellowship (1999)
Heather Smith	Texas A&M University Regent's Fellowship (1999-2000)
Lara Hinderstein	Texas A&M University Regent's Fellowship (1998-1999)
Kate McFadden	Sea Space Scholarship (1998 and 1999)
Jonathan Stern	Texas Institute of Oceanography Doctoral Student Fellowship (1998)
Kim Tucker	Texas A&M University Regent's Fellowship (1996-1997)
Alan Abend	Sea Space Scholarship (1995) Fullbright Fellowship (1996 - studied for 6 months in Tromsø, Norway)
Kelly Waples	Texas A&M University Regent's Fellowship (1991-1992) Sea Space Scholarship (1994 and 1995)
Lisl Shoda	Texas Institute of Oceanography Graduate Fellowship (1995) Texas A&M University Regent's Fellowship (1990-1991) International Women's Fishing Association Fellowship (1993) International Women's Fishing Association Fellowship (1994)

V. Graduate Student Conference Presentations:

- Toms, C.N.** and G.A.J. Worthy. 2016. Filling the gaps: Preliminary assessment of seasonal abundance and site fidelity patterns in common bottlenose dolphins (*Tursiops truncatus*) in Pensacola Bay, Florida. 101st Ecological Society of America Annual Meeting. Ft. Lauderdale, FL. August 7-12, 2016.
- Toms, C.N.** and G.A.J. Worthy. 2015. Seasonal movement patterns of bottlenose dolphins (*Tursiops truncatus*) in the Florida Panhandle. Twenty-First Biennial Conference on the Biology of Marine Mammals. San Francisco, CA. December 13-18, 2015.
- Adimey, N., M. Ross, **M. Hall**, J. Reid, M. Barlas, L. Keith-Diagne, and R. Bonde. 2015. An evaluation of twenty-six years of a post-release monitoring program for Florida manatees. Twenty-First Biennial Conference on the Biology of Marine Mammals. San Francisco, CA. December 13-18, 2015.
- Hall, M.** and G.A.J. Worthy. 2015. The seascape and the sirenian niche: connecting environmental data, spatial genetic analysis, and ecological niche modeling of the threatened West Indian manatee (*Trichechus manatus*). Twenty-First Biennial Conference on the Biology of Marine Mammals. San Francisco, CA. December 13-18, 2015.
- Davis, B.T.**, G.A.J. Worthy, and V. Nguyen. 2014. Effects of weaning age on body composition and growth of *ex situ* California sea lion (*Zalophus californianus*) pups. Annual International Marine Animal Trainer's Association Conference, Orlando FL. September 12-18, 2014.
- Toms, C.N., S.F. Shippee**, and G.A.J. Worthy. 2013. Preliminary abundance, distribution and site-fidelity patterns of bottlenose dolphins (*Tursiops truncatus*) in Pensacola Bay, Florida. Twentieth Biennial Conference on the Biology of Marine Mammals. Dunedin, New Zealand. December 9-13, 2013.
- Behler, J.E.**, R. Paperno, and G.A.J. Worthy. 2013. Assessing potential impacts of recent superbloom and brown tide events on bottlenose dolphin prey fish species in Indian River Lagoon, Florida. Twentieth Biennial Conference on the Biology of Marine Mammals. Dunedin, New Zealand. December 9-13, 2013.
- Davis, B.T.** and G.A.J. Worthy. 2013. Effects of age on growth efficiency in nine California sea lion (*Zalophus californianus*) pups artificially weaned in a zoological setting. International Marine Animal Trainers Association. September 8-13, 2013. Las Vegas, NV.
- Toms, C.N., S.F. Shippee**, and G.A.J. Worthy. 2013. Fine scale temporal and spatial assessment of bottlenose dolphin population dynamics and stock structure: A proposal for the novel integration of genetic and isotopic methodologies. 20th Annual Southeast and Mid-Atlantic Marine Mammal Symposium, Jacksonville, FL. March 22-24, 2013.
- Shippee, S.F.**, G.A.J. Worthy and R.S. Wells. 2013. Bottlenose dolphin site fidelity and movement patterns in the Choctawhatchee and Lower Pensacola Bay estuaries in Northwest Florida: importance of continued monitoring for potential impacts of the Deepwater Horizon Oil Spill. 20th Annual Southeast and Mid-Atlantic Marine Mammal Symposium, Jacksonville, FL. March 22-24, 2013.
- Behler, J.E.**, R. Paperno, and G.A.J. Worthy. 2013. Assessing the impact of algal blooms on fish health and trophic structure in Indian River Lagoon, FL. Southeastern Ecology and Evolution Conference. University of Central Florida. Orlando FL. March 2-4, 2013.
- Shippee, S.F.** and G.A.J. Worthy. 2012. Gypsies, Tramps, and Thieves: Bottlenose dolphin site fidelity, habitat use, foraging patterns, and causes of mortality along the Western Florida Panhandle. University of West Florida. September 7, 2012.
- Fletcher, J.M.**, G.A.J. Worthy, and R. Paperno. 2012. The influence of sub-basin residency on the stable isotope and fatty acid signatures of three fish species in the Indian River Lagoon,

- Florida. Indian River Lagoon Symposium, Harbor Branch Oceanographic Institution – Florida Atlantic University, Fort Pierce, FL. February 9, 2012.
- Toms, C.N., S.F. Shippee,** and G.A.J. Worthy. 2011. Potential impacts of the Deep Water Horizon oil spill on bottlenose dolphin reproductive success; Preliminary evidence. Nineteenth Biennial Conference on the Biology of Marine Mammals. Tampa, FL. November 27 – December 2, 2011.
- Shippee, S.F.,** R.S. Wells, J.F. Luebke, and T.K. Kirby. 2011. Evaluation of harmful interactions between bottlenose dolphins and sport fishing in Northwest Florida and Alabama. Nineteenth Biennial Conference on the Biology of Marine Mammals. Tampa, FL. November 27 – December 2, 2011.
- Fletcher, J.M.,** G.A.J. Worthy, and R. Paperno. 2011. Implications of fine-scale regional differentiation of stable isotope and fatty acid signatures of putative prey on interpreting feeding habits of bottlenose dolphins in the Indian River Lagoon, Florida. Nineteenth Biennial Conference on the Biology of Marine Mammals. Tampa, FL. November 27 – December 2, 2011.
- Spellman, A.C.,** L.S. Myers, M.A. Ross and G.A.J. Worthy. 2011. Application of a bioenergetics model to understanding physiological constraints on warm water habitat site selection and utilization by the Florida manatee (*Trichechus manatus latirostris*) in East Central Florida. Nineteenth Biennial Conference on the Biology of Marine Mammals. Tampa, FL. November 27 – December 2, 2011.
- Toms, C.N., S.F. Shippee,** J. Allen, A. Barleycorn, R.S. Wells, and G.A.J. Worthy. 2011. Status of ongoing research on estuarine bottlenose dolphin (*Tursiops truncatus*) populations in the Western Florida Panhandle. Society for Marine Mammalogy Florida Student Chapter Annual Symposium. Gainesville, FL. January 20, 2011.
- Shippee, S.F.** and G.A.J. Worthy. 2011. Impacts of the 2010 Deep Water Horizon oil spill on estuarine bottlenose dolphin populations in the west Florida panhandle. Environmental Planning for the Future in Northwest Florida Symposium, University of West Florida. September 21, 2011.
- Shippee, S.F.,** E. Zolman, F.I. Townsend, and G. Bossart. 2008. High-flyers versus Low-riders: a performance analysis of radio tag attachments on bottlenose dolphins. Southeast and Mid-Atlantic Marine Mammal Symposium. Charleston, South Carolina, March 28 – 30, 2008. (*“Best Ph.D. Student Poster” Award*)
- Spellman, A.C.** 2008. Use of forensics in conserving marine mammals and other marine species. Ocean Discovery Seminar. Eau Gallie High School. February 20, 2008.
- Fewster, J.H.** and G.A.J. Worthy. 2008. Activity budgets of captive giraffe in a large naturalistic enclosure, and comparison to an activity budget of wild giraffe. Seventh Biennial Conference of the Comparative Nutrition Society. Liscomb Mills, Nova Scotia, Canada. August 8 – 13 2008.
- Witteveen, B.H.** and K.M. Wynne. 2008. Consumption and prey removals by humpback whales (*Megaptera novaeangliae*) near Kodiak Island, Alaska: A revision of previous estimates. Poster presentation at The Role of Marine Mammals in the Ecosystem in the 21st Century Symposium, Dartmouth, Nova Scotia, Canada. October 2008.
- Witteveen, B.H.** and K.M. Wynne. 2008. Gray whale feeding off Kodiak, Alaska. Oral presentation at the Gray Whales and Climate Change Symposium, Monterey, CA, November 2008.

- Witteveen, B.**, G.A.J. Worthy, and K.M. Wynn. 2007. Using stable isotopes to assess population structure and feeding ecology of North Pacific humpback whales (*Megaptera novaeangliae*). 2007 Alaska Marine Science Symposium. Anchorage, Alaska. January 21-24, 2007.
- Witteveen, B.H.**, R.J. Foy, K.M. Wynne, and Y. Tremblay. 2007. Investigation of foraging habits and prey selection by humpback whales (*Megaptera novaeangliae*) using acoustic tags and concurrent prey surveys. Oral presentation at the Alaska Marine Science Symposium, Anchorage, Alaska, January 21 – 24, 2007.
- Davis, B.T.** and G.A.J. Worthy. 2007. Effects of age on growth efficiency in California sea lion (*Zalophus californianus*) pups artificially weaned in a zoological setting. Seventeenth Biennial Conference on the Biology of Marine Mammals. Capetown, South Africa. November 29 – December 3, 2007.
- DiPiazza, M.** and G.A.J. Worthy. 2007. The use of manganese as an inert marker to estimate assimilation efficiency for West Indian manatees. Seventeenth Biennial on the Biology of Marine Mammals. Capetown, South Africa. November 29 – December 3, 2007.
- Hoopes, L.A.**, L.D. Rea, and G.A.J. Worthy. 2007. Influence of age, temperature, and location on resting metabolic rate in free-ranging juvenile Steller sea lions (*Eumetopias jubatus*). Seventeenth Biennial Conference on the Biology of Marine Mammals. Capetown, South Africa. November 29 – December 3, 2007.
- Witteveen, B.H.**, G.A.J. Worthy, K.M. Wynne, A.M. Burdin, J. Calambokidis, E.A. Falcone, J. Ford, R. LeDuc, D. Mattila, J.M. Straley, R.J. Urbán, P.R. Wade, D. Weller, and M. Yamaguchi. 2007. Using stable isotopes to assess population structure and feeding ecology of North Pacific humpback whales (*Megaptera novaeangliae*). Seventeenth Biennial Conference on the Biology of Marine Mammals. Capetown, South Africa. November 29 – December 3, 2007.
- Hoopes, L.A.**, L.D. Rea, and G.A.J. Worthy. 2006. Born free: resting metabolic rate in free-ranging Steller sea lions (*Eumetopias jubatus*). Society for Integrative and Comparative Biology Annual Meeting. Orlando, Florida. January 2-6, 2006.
- Shippee, S.F.**, K.D. Knowles, F.L. Deckert, F.I. Townsend, and G.A.J. Worthy. 2005. Strangers in the night: Fine scale overnight observations of radio tagged dolphins. South-East and Mid-Atlantic Marine Mammal Symposium. University of North Carolina, Wilmington. Wilmington NC. March 18 – 20, 2005.
- Hoopes, L.A.**, L.D. Rea, and G.A.J. Worthy. 2005. Resting metabolic rate in free-ranging juvenile Steller sea lions (*Eumetopias jubatus*). Sixteenth Biennial Conference on the Biology of Marine Mammals. San Diego, California. December 12 – 16, 2005.
- Alves, C.D.** and G.A.J. Worthy. 2005. Using stable isotope ratios and turnover rates in the skin of the West Indian manatee (*Trichechus manatus*) to interpret feeding history. Sixteenth Biennial Conference on the Biology of Marine Mammals. San Diego, California. December 12 – 16, 2005.
- Shippee, S.F.**, K.D. Knowles, F.I. Townsend, F.L. Deckert, and G.A.J. Worthy. 2005. When do wild dolphins sleep? Sixteenth Biennial Conference on the Biology of Marine Mammals. San Diego, California. December 12 – 16, 2005.
- Rosen, D.A.S., A.J. Winship, and **L.A. Hoopes**. 2005. Physiological constraints to foraging in marine mammals. Sixteenth Biennial Conference on the Biology of Marine Mammals. San Diego, California. December 12 – 16, 2005.

- Alves, C.D.** and G.A.J. Worthy. 2004. Isotopic ratios and turnover rates in the skin of the West Indian manatee (*Trichechus manatus*): Implications for feeding history. Fifth Biennial Conference of the Comparative Nutrition Society. Hickory Corners, Michigan. July 14 – 19, 2004.
- Hoopes, L.,** L.D. Rea, D.A.S. Rosen, and G.A.J. Worthy. 2004. Resting metabolic rate in captive and free-ranging Steller sea lions (*Eumetopias jubatus*) in water and in air. Fifth Biennial Conference of the Comparative Nutrition Society. Hickory Corners, Michigan. July 14 – 19, 2004.
- Browning, N.E.,** G.A.J. Worthy, and T.A.M. Worthy. 2004. An evaluation of ultrasound technologies in assessing body condition of the West Indian manatee (*Trichechus manatus*). Fifth Biennial Conference of the Comparative Nutrition Society. Hickory Corners, Michigan. July 14 – 19, 2004.
- Alves, C.D.** and G.A.J. Worthy. 2003. Isotopic ratios in the skin of the West Indian manatee (*Trichechus manatus*): Implications for feeding history. Fifteenth Biennial Conference on the Biology of Marine Mammals. Greensboro, North Carolina. December 14 – 20, 2003.
- Browning, N.E.,** G.A.J. Worthy, and T.A.M. Worthy. 2003. An evaluation of ultrasound technologies in assessing body condition of the West Indian manatee (*Trichechus manatus*). Fifteenth Biennial Conference on the Biology of Marine Mammals. Greensboro, North Carolina. December 14 – 20, 2003.
- Hoopes, L.A.,** D.A.S. Rosen, and G.A.J. Worthy. 2003. The relationship between body condition, temperature regulation and convective heat loss in juvenile Steller sea lions (*Eumetopias jubatus*). Fifteenth Biennial Conference on the Biology of Marine Mammals. Greensboro, North Carolina. December 14 – 20, 2003.
- Berman, M.** and K. Fahy. 2003. Dolphins and domoic acid: A deadly combination. Fifteenth Biennial Conference on the Biology of Marine Mammals. Greensboro, North Carolina. December 14 – 20, 2003.
- Greenwald, N.L.E.** and G.A.J. Worthy. 2003. Energy balance of gray whales (*Eschrichtius robustus*) during their annual migration. Fifteenth Biennial Conference on the Biology of Marine Mammals. Greensboro, North Carolina. December 14 – 20, 2003.
- Turner, J.S.,** G.A.J. Worthy, and J. Rooker. 2002. Trophic ecology of fauna associated with Sargassum mats in the Northwest Gulf of Mexico. American Fisheries Society, Texas Chapter. Junction Texas. January 20 – 23, 2002. (**“Best Presentation Award”**)
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