

**Gregory L. Fulling, Ph.D.**  
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**EDUCATION:**

Ph.D., 2001, Marine Biology, The University of Southern Mississippi

M.S., 1993, Biology, Angelo State University

B.S., 1986, Biology, Eastern Washington University

**SUMMARY OF EXPERIENCE:**

I have over 20 years of experience addressing research questions in a comprehensive ecological ecosystem approach. My previous research experience has been obtained in both marine and freshwater habitats and my interests include: applying new technologies to address diversity, distribution, and abundance/density estimation of marine resources (including marine mammals and sea turtles) in areas where survey data is lacking; studying foraging ecology and interactions of predators and their prey sources; evaluating the impact of anthropogenic activities on marine resources and ensuring that these activities occur in such a manner to minimize impacts to protected and commercial marine resources of interest; and working closely with agencies charged with environmental stewardship and protection of marine resources. My work has been conducted in the U.S. Atlantic, Gulf of Mexico, Caribbean, and Western North Pacific including Guam, Hawaii, Alaska, and the U.S. west coast.

**Areas of expertise include:**

- Design, implementation, management, and analyses of small and large-scale ecological assessment surveys including:
  - Shipboard and aerial surveys to estimate the abundance of marine mammals, sea turtles and pelagic seabirds
  - Essential Fish Habitat
  - Coral assessment
- Abundance estimation (traditional and spatial modeling techniques) using program DISTANCE for marine mammals, sea turtles and fishes.
- Management of multi-disciplinary scientific research teams in both field and office settings.
- Recruitment, leadership, and mentoring of staff with a variety of backgrounds and experience.
- Management of large, multi-year projects with budgets in excess of \$4 million.
- Visual observer for marine mammals and sea turtles on both ship and aerial surveys.
- Preparation/publication of scientific publications in peer-reviewed journals.
- Principal/Co-Investigator on several marine mammal permits.
- Public presentations (speaker and moderator).
- Educational outreach.
- Close working relationships with clients including the U.S. Navy (Pacific, Southern California, Washington, and Virginia), U.S. Coast Guard (West Coast) and agency contacts in NOAA/NMFS, USFWS, and MMS.
- Business development and marketing experience to obtain outside funding from other agencies (i.e., U.S. Navy projects).
- Excellent oral and written communication skills.
- Strong proficiency in visual dbase, SAS, SPSS, Access, ArcView, Microsoft Word, and Excel.

- Design, management, implementation, and analysis of field and laboratory research projects focusing on the interaction of marine/estuarine fishes and their natural environments.
- Proposal and Grant writing

**TEACHING EXPERIENCE:**

Summer 2000 – USM/GCRL – Ocean Springs, Mississippi

- Marine Ecology/Biology Instructor of record – five week compressed course – 35 graduate and undergraduate students – four hours of daily lecture and four hours of field and laboratory instruction

Summer 1997 and 1999 – USM Gulf Coast Research Laboratory (GCRL) – Ocean Springs, Mississippi

- Ichthyology Laboratory Instructor – five week compressed course – 45 graduate and undergraduate students – four hours of field and laboratory instruction

Fall 1996 – University of Southern Mississippi (USM) – Hattiesburg, Mississippi

- Introduction to Biology – Laboratory Instructor – three classes – 40 undergraduate students per class

Summer 1993 – Mississippi County Community College (now Arkansas Northeastern College) – Blytheville, Arkansas

- Biology – Instructor of Record – six week compressed course – 45 undergraduate students
- Chemistry – Instructor of Record – six week compressed course – 45 undergraduate students
- Microbiology Laboratory Instructor – six week compressed course – 45 undergraduate students

Spring 1992 – Angelo State University – San Angelo, Texas

- Zoology Laboratory Teaching Assistant – three classes 35 undergraduate students per class

**COURSES QUALIFIED FOR INSTRUCTION:**

- General Biology
- Ecology
- Ichthyology
- Evolution
- Fish Ecology
- Marine Mammal Biology
- Biometrics and Experimental Design
- Marine Biology/Ecology
- National Environmental Policy Act
- Endangered Species Act
- Essential Fish Habitat

**SUCCESSFUL GRANTS/PROPOSALS:**

2010 – U.S. Navy Marine Species Monitoring, U.S. Waters (April 2010-September 2011 – \$50 M Indefinite-Delivery/Indefinite-Quantity – Technical Lead on the Proposal and Lead Scientist of Record.

2006 – New Jersey Department of Environmental Quality -Ocean/Wind Power Ecological Baseline Surveys – \$4.5M – Technical Lead on the Proposal.

2000 – University of Southern Mississippi – Continuing research grant – Study of otolith asymmetry in larval fishes - \$5,000

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2000 – University of Southern Mississippi and Mississippi/Alabama Sea Grant – Research Grant – Plankton Patchiness and Associated Distribution and Growth of Larval Anchovies (*Anchoa mitchilli*) within Mississippi Sound - \$5,000.

### **PROTECTED SPECIES EXPERIENCE:**

I have spent the past 15 years working on protected species survey design, implementation, and abundance/density estimation. My work with abundance estimation has afforded me the opportunity to develop a strong working relationship with other international colleagues, including the scientists at the University of St. Andrews Centre for Environmental and Ecological Modelling (CREEM).

While working with the NMFS-SEFSC (2000-2004), I was actively involved in shipboard and aerial line-transect surveys in the Gulf of Mexico, western North Atlantic, and the Caribbean Sea. My responsibilities included survey design and data analysis to calculate abundance/density estimates for cetaceans/sea turtles in compliance with the Marine Mammal Protection Act and Endangered Species Act. Results of these analyses were later included as part of the Atlantic and Gulf of Mexico Stock Assessment Reports. While with NMFS, I became proficient in the preparation and maintenance of Marine Mammal Take permits, biopsy of cetaceans, photo-identification, and operating small research vessels. My experience with NOAA and the relationships created have proven invaluable and have allowed me to effectively interact with state and federal agencies.

My previous position as a senior marine biologist with HDR gave me additional experience in supervising and directing multifaceted research teams and managing large contracts. I effectively directed and coordinated the work of an interdisciplinary team of as many as 15 marine scientists, with a total annual budget (personnel and project) exceeding \$12 million while operating simultaneously in the western Pacific and U.S. Atlantic oceans. Those experiences refined my ability to manage several large-scale (multi-year/large budget projects) and meet project deadlines effectively, profitably, and with a high quality product.

Furthermore, my work in the consulting field provided me numerous opportunities to effectively market large clients, hone my proposal and grant writing skills, increase my ability to multi-task, and fine-tune my ability to work efficiently and profitably under strict deadlines.

### **Owl Ridge NRC Project Experience**

**Chief Scientist, Buccaneer Oil Co. Drilling Project within Cook Inlet: Steller's Eider/Sea Otter Study (October 2013 – January 2014).** This project focused on detection and quantification of Steller's eider and sea otter distribution and abundance in anticipation of commencement of drilling activities. These monthly vessel-based surveys were conducted using line-transect techniques within the Anchor Point region of Cook Inlet. Abundance estimates were estimated using program Distance.

### **HDR Project Experience**

**Chief Scientist, Field Operations: Beluga Whale Visual and Acoustic Monitoring Study for the Knik Arm Crossing Project, Knik Arm Bridge and Toll Authority, AK (August – September 2011) (\$300K).** This three-week study focused on visual and acoustic detection of Cook Inlet beluga whales within the footprint of the proposed Knik Arm Bridge. A combination of fixed-acoustic detection and visual observations were used to monitor Cook Inlet beluga whale movement. Acoustic monitoring was conducted from a vessel anchored in the middle of Knik Arm and visual observers were stationed near the Port of Anchorage. Visual detections were made using high power "big-eye" binoculars, hand-held binoculars and a surveyor's theodolite for documenting the occurrence of the belugas. These data are

required as baseline information for documenting the occurrence of Cook Inlet beluga whales before, during, and after potential construction of the Knik Arm Bridge.

**Chief Scientist, Field Operations: U.S. Navy Marine Species Monitoring, U.S. Waters (April 2010-September 2011) (\$50M IDIQ).** This indefinite-delivery/indefinite-quantity multi-year contract provides marine and biological resources monitoring and management services for the U.S. Navy. Marine species monitoring, evaluations, and/or assessments are conducted at various locations within the Naval Facilities Engineering Command (NAVFAC) Atlantic (including Gulf of Mexico) and Pacific areas of responsibility. Specific tasks conducted under this contract included aerial and shipboard surveys; passive acoustic monitoring; behavioral studies; and management and coordination of complex projects. I served as Chief Scientist for Field Operations, which included the oversight of Safety Operations Officers for both shipboard and aerial surveys.

**Chief Scientist, Field Operations: U.S. Navy Marine Species Monitoring, RIMPAC Exercise in the Hawaii Range Complex (July 2010) (\$250K).** Small, vessel-based, line-transect surveys were conducted for the Rim of the Pacific (RIMPAC 2010) exercise in the Hawaii Range Complex (HRC). I was responsible for survey design and implementation, data analysis, and report preparation. I also served as chief scientist for the survey and as one of the marine mammal observers.

**Chief Scientist, Field Operations: U.S. Navy Marine Species Monitoring, Passive Acoustic Monitoring in the Hawaii Range Complex (July-December 2010) (\$100K).** Passive acoustic monitors (PAMs) were deployed and retrieved in waters off Ni'ihau in the U.S. Navy's HRC. I was involved in the deployment of the PAMs and managed the task order.

**Chief Scientist, Field Operations: U.S. Navy Marine Species Monitoring, MAVEX Exercise in the Jacksonville Range Complex (August 2010) (\$150K).** An aerial survey was conducted for the Maverick Missile Exercise (MAVEX) VP-30 in the Jacksonville Range Complex (JAX). I was responsible for survey design and implementation, as well as data analysis. I also served as one of the marine mammal observers during this survey and was involved in report preparation.

**Chief Scientist, Field Operations: U.S. Navy Marine Species Monitoring, Monitoring During IMPASS Exercise in the Virginia Capes Range Complex (August 2010) (\$150K).** An aerial monitoring survey was conducted for an Integrated Maritime Portable Acoustic Scoring and Simulator (IMPASS) Gunnery Exercise and Anti-Submarine Warfare (ASW) exercise that occurred in the Virginia Capes Range Complex (VACAPES). I oversaw the survey efforts and was involved in survey design and report preparation.

**Chief Scientist, Field Operations: U.S. Navy Marine Species Monitoring, Monitoring During Koa Kai-11 Exercise in the Hawaii Range Complex (November 2010) (\$275K).** A small vessel survey was conducted for the Koa Kai-11 training exercise in the HRC. I designed and implemented the survey and analyzed data, which included behavioral and photo-identification data. I served as chief scientist for the survey.

**Chief Scientist, Field Operations: U.S. Navy Marine Species Monitoring, SEASWITI Exercise in Jacksonville Range Complex (December 2010) (\$200K).** A large vessel survey was conducted in for the Southeast Anti-Submarine Warfare Integration Training Initiative (SEASWITI) exercise in JAX. I was responsible for oversight of the design and implementation the survey, as well as the data analyses, which included behavioral and photo-identification data.

**Chief Scientist, Field Operations: U.S. Navy Marine Species Monitoring, SEASWITI Exercise in Jacksonville Range Complex (December 2010) (\$120K).** An aerial survey was conducted for the

Southeast Anti-Submarine Warfare Integration Training Initiative (SEASWITI) exercise in JAX. I was responsible for oversight of the design and implementation the survey, as well as the data analyses.

**Chief Scientist, U.S. Navy Marine Species Monitoring, 2011 Guam Marine Species Monitoring Survey (February - March 2011) (\$200K).** A small vessel survey for baseline assessment of marine mammal and sea turtle distribution off Guam was conducted. This survey was designed to observe animals within 10 nm of shore and was focused on the western side of the island. Photographs were taken of all cetaceans encountered to provide basic photo-id of animals in the area. I was responsible for oversight of the design and implementation the survey, as well as the data analyses.

**Point Thomson Project Third-Party EIS (August 2010 – September 2011) (\$120K).** Our firm prepared a third-party EIS for the Point Thomson Project on the North Slope of Alaska. As the lead of HDR's Marine Sciences Team, I oversaw Team efforts to review available data for marine ambient noise levels off the North Slope and assisted in review of impact analyses prepared for marine mammals in the EIS. Project infrastructure was proposed to be located on land adjacent to the coast, east of Prudhoe Bay and adjacent to the Arctic National Wildlife Refuge boundary..

**KABATA – Knik Arm Bridge and Toll Authority – Knik Arm Crossing, (August 2009 – September 2011) (\$500K).** Marine Science Manager. I led the Marine Science Team and provided regulatory compliance support to the Knik Arm Bridge and Toll Authority (KABATA) in its proposed construction of the Knik Arm Crossing (KAC) Project in Upper Cook Inlet. A Biological Assessment (BA) for the recently-listed Cook Inlet beluga whale and marine mammal permit application (Letter of Authorization [LOA]) were prepared. Work on these two deliverables included estimating beluga whale densities in the Knik Arm and calculating takes associated with the construction. The project required interface with the Client and regulatory agencies (e.g., the National Marine Fisheries Service [NMFS] and Federal Highway Administration) on a continual basis, as well as client support for Section 7 Consultation with the NMFS.

**Senior Marine Mammal Biologist: Acoustic Monitoring Studies for the Knik Arm Crossing Project, Knik Arm Bridge and Toll Authority, AK (May 2010 - September 2011) (\$250K).** Acoustic monitoring was conducted during summer 2010 to collect baseline ambient noise data for the proposed KAC project area. Measurements of an oscillator being used for pile-placement of the Gilmerton Bridge replacement project in Chesapeake, Virginia, were recorded in January 2011 to provide baseline noise data for applicability to the proposed KAC project. My responsibilities included field work and report preparation for the ambient noise monitoring study and field work and report preparation for the oscillator study.

**Beluga Whale Proposed Critical Habitat Consultation with Knik Arm Crossing Project, Knik Arm Bridge and Toll Authority, AK, January – March 2010. (\$50K).** I led the Marine Sciences Team in conducting an assessment for KABATA regarding the NMFS' proposed designation of critical habitat for the Cook Inlet beluga whale. The Team reviewed pertinent background information on the distribution, ecology, and behavioral biology of the Cook Inlet beluga whale. Recommendations for how to respond to the published proposed critical habitat were provided. This information assisted KABATA in providing informed responses to the proposed designation, which in turn could assist the NMFS in their final determination of critical habitat.

**Beluga Whale Proposed Critical Habitat Consultation with ConocoPhillips Alaska, Inc., December 2009 – March 2010. (\$30K).** As Project Manager, I led the Marine Sciences Team in conducting an assessment for ConocoPhillips Alaska, Inc. (CPAI) regarding the NMFS' proposed designation of critical habitat for the beluga whale. The Team reviewed pertinent background information on the distribution, biology, and behavioral biology of the beluga whale in Alaska. The focus of the work was an evaluation of NMFS' habitat delineation; beluga occurrence in CPAI's operating area within Cook Inlet; as well as CPAI's current best management practices for the beluga whales. Recommendations for how to respond to the published proposed critical habitat were provided. This information assisted CPAI in providing informed responses to the proposed designation, which in turn could assist the NMFS in their final

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determination of critical habitat. Work products included a written report and compiled literature submitted in PDF format to CPAI.

**Polar Bear Proposed Critical Habitat Consultation with ConocoPhillips Alaska, Inc., October 2009 – December 2009. (\$30K).** As Project Manager, I led the Marine Sciences Team in conducting an assessment for CPAI regarding the USFWS's proposed designation of critical habitat for the polar bear. The Team reviewed pertinent background information on the distribution, biology, and behavioral biology of the polar bear in Alaska. The focus of the work was evaluation of maternal denning distribution by the species in CPAI's operating area (North Slope), as well as CPAI's current best management practices for the polar bear. Recommendations for how to respond to the published proposed critical habitat were provided. This information assisted CPAI in providing informed responses to the proposed designation. Work products included a written report and compiled literature submitted in PDF format to CPAI.

## **HDR|e<sup>2</sup>M Project Experience**

**Guam and CNMI SUA Feasibility Assessment. SunTemple Helgren and WWB Consultants for Naval Facilities Engineering Command Pacific (NAVFAC PAC) and Marine Forces Pacific (MARFOR PAC) (2010-2011).** This Feasibility Assessment (FA) was conducted primarily to support preliminary decisions by the U.S. Marine Corps (USMC) as they transition from bases in Okinawa to Guam. The FA was for the allocation of necessary Special Use Airspace (SUA) to support the USMC as well as other necessary Department of Defense (DoD) airspace restrictions at Guam and the Commonwealth of the Northern Marianas Islands (CNMI). My responsibilities included technical peer review of marine mammal and sea turtle information collected for the region to determine whether it was adequate for impact analysis and provided suggestions for how USMC/FAA might acquire data adequate for sufficient analysis.

**Northwest Training Range Complex (NWTRC) Encroachment Action Plan (March 2009 - July 2009) (\$75K).** As team leader, I was responsible for the overall technical accuracy of all documents provided by our firm on this project. This project was designed to provide input on threatened and endangered species and regulatory coordination with respect to encroachment impacts to future Navy interests.

**Safe Harbor Energy License Application EIS, USCG, NY, (2009 – 2010) (\$1.2 M).** Atlantic Sea Island Group LLC proposed to construct a deepwater port (Safe Harbor Energy) that included an island approximately 13.5 miles south of the City of Long Beach, New York, on Long Island and 23 miles southeast of the New York Harbor entrance; a liquefied natural gas (LNG) receiving, storage, and regasification facility; and a subsea pipeline that would transport the natural gas to a connection with an offshore natural gas pipeline (Transco Pipeline). My responsibilities included technical editor for the Ichthyoplankton Assessment and Essential Fish Habitat section; coordination of all aspects of the biological sections; and the editorial review for the Marine Mammal and Sea Turtle sections of the EIS and BA.

**Programmatic Environmental Assessment of Nationwide Use of High Frequency (HF) and Ultra High Frequency (UHF) Active Sonar Technology (SONAR PEA), USCG, Nationwide, (2008 – 2010) (\$90K).** Technical Reviewer. The USCG was considering the nationwide use of active SONAR technologies that operate from mobile platforms at frequencies of 50 kiloHertz (kHz) and higher. My responsibilities included technical review of the marine mammal sections for the project and technical review of the Biological Resources section.

**Port Dolphin Liquefied Natural Gas (LNG) Deepwater Port License Application Environmental Impact Statement (EIS), USCG, FL, September 2007 – August 2009. (\$1.2 Million).** The Applicant proposed constructing and operating a LNG receiving deepwater port 45 km southwest of Tampa, FL in the Gulf of Mexico, in water with a bottom depth of approximately 30.5 m (100 feet). I worked as technical editor for the Ichthyoplankton Assessment and coordinated the editorial review for the marine mammal and sea turtle sections of the EIS and Biological Assessment.

**Marine Mammal Monitoring in the Gulf of Alaska in Relation to Navy Operating Areas, April 2009 (\$15K).** I was contracted by Cascadia Research Collective, to participate as a senior marine mammal observer for the Gulf of Alaska Line-transect Survey (GOALS) 2009. GOALS was conducted as a baseline marine mammal assessment survey of the US navy maritime training area within the Gulf of Alaska. This survey included both line-transect and passive acoustics methodology. Over the survey period observers searched 1,396 km of trackline, while a towed acoustic array was monitored 24 hours a day, covering about 3,518 km of trackline. My additional duties included participation in passive acoustic monitoring.

**Visual Observer for Aerial Surveys of North Pacific Right Whales (*Eubalaena japonica*) in the Bering Sea, PRIEST (Pacific Right Whale Evaluation Study). NOAA/NMFS/ Alaska Fisheries Science Center. Sand Point, AK, July - August 2008.** I was one of three scientists involved in aerial surveys to locate right whales in the Bering Sea. My responsibilities included collecting marine mammal sightings data using standard line transect methods, identifying species, data recording, data error-checking nightly, communicating and coordinating with the field leader, assisting with summarizing sightings/effort data, and assisting with the collection of photographs and video of right whales for photo-identification and group size verification.

## **GMI**

**Chief Scientist/Principal Investigator/Technical Lead/Visual Observer. New Jersey Department of Environmental Protection: Ocean/Wind Power Ecological Baseline Surveys (October 2007 – July 2008) (\$4.5M).** The objective of this project was to establish baseline information on the occurrence of marine mammal, sea turtle, and pelagic seabird resources using visual line-transect methods off the coast of New Jersey. I was responsible for the design and implementation of this 18-month survey, which included aerial and shipboard platforms. I was the chief scientist on both survey platforms, in addition to being visual observer and data manager. I also served as the technical lead for estimating the abundance of the resources through spatial modeling of the occurrence data. My other responsibilities included the preparation and maintenance of a marine mammal take permit for the State of New Jersey and close interactions with Federal and State officials (NOAA/NMFS/NEFSC, NOAA protected resources division, and New Jersey Department of Environmental Protection).

**Chief Scientist. Mariana Islands Sea Turtle Cetacean Survey (MISTCS) (January 2007 – April 2007) (\$3.2M).** The primary objective of this survey was to estimate the diversity, distribution, and abundance of cetaceans and sea turtles in the waters around Guam and the Northern Mariana Islands (western North Pacific). I was contracted by the U.S Navy Pacific Fleet through SRS, Inc. and my responsibilities required that I design and implement this 93-day visual line-transect ship survey. I participated as the chief scientist and managed nine other scientists including visual observers and acousticians. I worked closely with the ship's captain to ensure survey objectives were accomplished on time and in a safe, effective manner. While in Guam, I worked closely with the US Navy, SRS, and local state, federal, and university officials to ensure adequate communication throughout all parties. Once the survey was completed, I was responsible for all visual data analysis and worked closely with the scientists at CREEM to ensure analyses were technically accurate. This project required multiple reports including: leg summaries, a final trip report, and draft abundance analysis. I worked very closely with SRS and the Navy to prepare the final report and conducted follow-up discussions with NMFS-PIFSC.

**Project Manager, Technical Lead. Navy OPAREA Density Estimation (NODEs) Reports (3 projects); Marine Mammal and Sea Turtle Density Estimation for U.S. Navy OPAREA/ Testing and Training Areas (August 2004 – September 2007) (\$450K).** The purpose of these projects was to generate density estimates of protected species with possible occurrence in the U.S. Navy operating areas. Estimates were generated for OPAREAs in the Boston, Narragansett Bay, and Atlantic City, Chesapeake Bay, Maryland south to Jupiter, Florida and into the Northern Gulf of Mexico regions. Data were obtained from NMFS/SEFSC and NEFSC to generate density estimates using traditional and spatial modeling techniques in DISTANCE. I served as the project manager and technical expert responsible for all density estimation and worked closely with the data providers to acquire all pertinent data for analysis, coordinated their input on the output and involved NMFS and University scientists in a workshop to improve the final product. My other tasks included personnel management, technical review and editing of all associated report documents.

**Co-/Project Manager, Principal Investigator. Marine Resources Assessment (MRA) for PACNAVFACENCOM (3 projects), Hawaiian Islands, Southern California and Pacific Northwest/Gulf of Alaska OPAREAs (October 2004 – November 2006) (\$2.4M).** These documents were a comprehensive compilation, assessment, and interpretation of the best available data and information on protected and commercial marine species, marine habitats, and oceanographic features present in the OPAREA of interest. My responsibilities were to interact with federal agencies (including NMFS) to obtain data and to involve government scientists in the analysis of that data for the Navy products. This also allowed me to identify data gaps and prioritized recommendations for future research which was included in the resulting project report.

**Project Manager. U.S. Coast Guard Feasibility and Environmental Assessments for Water Training Areas (WTAs) along the U.S. Pacific Coastline (September 2007 – July 2008) (\$350K).** These three projects are to assist the USCG in establishing a series of WTAs in California, Oregon, Washington and Alaska, thereby meeting their environmental compliance measures. GMI was contracted by Baker Environmental, Inc., to assist in the biological portion of the Environmental Assessment for the WTAs located in waters 3 nm from the coastline to 12 nm offshore. Additionally, GMI produced a Feasibility document to provide guidance for USCG training operations in waters outside of 12 nm. I was responsible for coordination of the scientists and ensuring that the documents met necessary NEPA standards.

**Principal Investigator. Marine Resources Assessment (MRA) for PACNAVFACENCOM (2 projects), Japan and Okinawa Complexes and the Marianas Operating Areas (May 2004 – June 2005).** I was the lead fisheries biologist and technical reviewer for these projects.

### **NMFS/SEFSC**

**Co-Principal Investigator. Mid-Atlantic *Tursiops* Survey (MATS) (July – August 2004).** I assisted with the design and implementation of this aerial line-transect survey to assess bottlenose dolphin distribution and abundance from Jupiter, Florida to Atlantic City, New Jersey. My primary role was team leader/observer responsible for four other observers and two pilots, in addition to all aspects of data management and survey protocols.

**Field Party Chief. More North Atlantic Humpbacks (MoNAH) Silver Bank Humpback Whale Survey, Silver Bank Sanctuary, Dominican Republic (January – April 2004).** The primary objective of this survey was to collect photo-identification and biopsy data of humpback whales using small boats. I was the primary point of contact for this cruise, which was a joint venture between the NEFSC and

SEFSC. I was responsible for the pre-cruise planning, ship coordination, day-to-day operations and management of 15 scientists. I also ensured that daily small boat operations were conducted safely and efficiently and assisted the other scientists as needed.

**Field Party Chief/Co-Principal Investigator. NOAA Ship *Gordon Gunter* Cruise GU-03-02(23) (June – August 2003).** This survey was designed to estimate the distribution and abundance of cetaceans in the oceanic waters of the Northern Gulf of Mexico. For this cruise my duties included pre-cruise planning (assisted with design), ship liaison, cruise reports, data management. While on the ship I was responsible for all of the scientific party, daily shipboard visual observations and assisted with photo-identification, biopsy and acoustic operations.

**Visual Observer. Shipboard – NMFS/SEFSC and NEFSC Visual Line-transect Surveys. NOAA Ship *Gordon Gunter* Cruises GU-01-02(12) (April – May 2001); GU-01-05(14) (August -September 2001); NOAA Ship *Delaware II* Cruise DE-03-08 (August 2003).** My duties on these cruises were visual observer, driving a small boat, photo-identification, data management, lead cetacean observer (SEFSC) and biopsy.

**Visual Observer. Mid-Atlantic *Tursiops* Survey (MATS) (January – March and June – August 2002).** These aerial line-transect surveys were designed to assess distribution and abundance of bottlenose dolphins along the U.S. Atlantic Coast from Jupiter, Florida to Atlantic City, New Jersey.

#### **Graduate Research Assistant**

**Gulf Coast Research Laboratory (GCRL), The University of Southern Mississippi, Ocean Springs, Mississippi (May 1995 – October 2000).**

#### **Laboratory/Field Manager**

While completing my Ph.D., I was the laboratory and field manager for my major professor Dr. Mark Peterson. My duties focused on participation and implementation of field surveys, data management, equipment tracking and maintenance, and staff coordination of up to four other graduate and undergraduate students.

#### **Principal Investigator**

Groundfish Surveys for GCRL and NMFS (October 1996 – October 1999). I was one of the lead investigators for multiple coastal groundfish surveys conducted in the nearshore (within 20 nm) waters of Mississippi, Alabama, Louisiana, and Texas. Duties included species identification, enumeration, measurements, data management, field logistics, and implementation of work.

#### **PROFESSIONAL TRAINING/CERTIFICATIONS**

- Spatial Modeling using Program DISTANCE 6.0 Beta. 2005: University of St. Andrews, St. Andrews, Scotland.
- Spatial Modeling Workshop. 2005. 16th Biennial Conference on the Biology of Marine Mammals, San Diego, CA, 12-16 December.
- Advanced Distance Sampling. 2004. University of St. Andrews, St. Andrews, Scotland.
- Introduction to Distance Sampling. 2002. University of St. Andrews, St. Andrews, Scotland.
- Cetacean Systematics: Approaches in Genetics, Morphology and Behavior 2004: NOAA/NMFS/SWFSC, La Jolla, CA, 28-29 April.

- Guidelines for Assessing Marine Mammal Stocks Workshop. 2004. NOAA/NWFSC/NMML. Seattle, Washington Genetics Workshop. NOAA/NWFSC/NMML. Seattle, Washington.
- SAS Programming II: Manipulating Data with the DATA Step. 2003. Atlanta, Georgia.
- Acoustics/Visual Survey Workshop. 2002. NOAA/NMFS/SWFSC, LaJolla, California.
- Statistical Ecology Workshop. 2001. Bryan F. J. Manly, D. Sc. University of South Alabama, Mobile, Alabama.
- Aircraft Ditching Course (Survival Systems USA, Inc.)
- PADI Advanced Open Water Diver
- Fast Rescue Boat Qualification (rigid hull inflatable boat)

**PROFESSIONAL AFFILIATIONS:**

Society for Marine Mammalogy (2002 – present)

American Society of Ichthyologists and Herpetologists (1991– present)

American Fisheries Society (1996 – present)

**PUBLICATIONS:**

Fulling, G. L., P. H. Thorson, and J. Rivers. 2011. Distribution and Abundance Estimates for Cetaceans in the Waters off Guam and the Commonwealth of the Northern Mariana Islands. *Pacific Science* 65(3):321-343.

Smultea, M.A., J.R. Mobley Jr., D. Fertl, and G.L. Fulling. 2008. Sperm whale reactions to fixed-wing aircraft. *Gulf and Caribbean Research* 20(1) 75-80.

Fulling, G.L., D. Fertl, K. Knight, and W. Hoggard. 2007. Distribution of Molidae in the northern Gulf of Mexico. *Gulf and Caribbean Research* 19(2) 53-67.

Fertl, D., and G.L. Fulling. 2007. Interactions between marine mammals and sea turtles. *Marine Turtle Newsletter* 115:4-8.

Rakocinski, C.F., M.S. Peterson, B.H. Comyns, G.A. Zapfe, and G.L. Fulling. 2006. Do abiotic factors drive the early growth of juvenile spot (*Leiostomus xanthurus*). *Fisheries Research* 82(1-3):186-193.

Mullin, K.D., and G.L. Fulling. 2004. Abundance of cetaceans in the oceanic northern Gulf of Mexico, 1996-2001. *Marine Mammal Science* 20(4):787-807.

Peterson, M.S., B.H. Comyns, C.F. Rakocinski, and G.L. Fulling. 2004. Defining the fundamental physiological niche of young estuarine fishes and its relationship to understanding distribution, vital metrics, and optimal nursery conditions. *Environmental Biology of Fishes* 71(2):143-149.

Fulling, G.L., K.D. Mullin, and C.W. Hubard. 2003. Distribution and abundance of cetaceans in the continental shelf waters of the U.S. Gulf of Mexico. *Fishery Bulletin* 101:923-932.

Mullin, K.D., and G.L. Fulling. 2003. Abundance of cetaceans in the southern U.S. Atlantic Ocean during Summer 1998. *Fishery Bulletin* 101:603-614.

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Peterson, M.S., G.L. Fulling, and C.M. Woodley. 2003. Status and habitat characteristics of the saltmarsh topminnow, *Fundulus jenkinsi* (Evermann) in eastern Mississippi and western Alabama coastal bayous. *Gulf and Caribbean Research* 15:51-59.

### **PUBLICATIONS IN PREPARATION**

Fulling, G.L. and J.C. Salinas. In prep. An unusual encounter with a sperm whale in the Northern Mariana Islands.

Fulling, G.L. and J.M. Cotton. In prep. Sei (*Balaenoptera borealis*) and Bryde's (*B. edeni/brydei*) Whale Co-occurrence in the Mariana Islands During the Boreal Winter.

### **SELECTED CONFERENCE PRESENTATIONS:**

Fulling, G.L., Fertl, D.C., Ampela, K., Englehaupt, D. 2011. An integrated approach by the U.S. Navy for protected marine species monitoring during military readiness exercises. Conference of the National Association of Environmental Professionals. 26-29 April, Denver, CO. [Oral]

Fulling, G.L., P.H. Thorson, and J. Rivers. 2010. Distribution and abundance estimates for cetaceans in the waters off Guam and the Commonwealth of the Northern Mariana Islands. 140<sup>th</sup> Annual Meeting of the American Fisheries Society. 9-16 September 2011. Pittsburgh, PA. [Oral]

Fulling, G.L. and J.C. Salinas. 2009. An unusual encounter with a sperm whale in the Northern Mariana Islands. 18<sup>th</sup> Biennial Conference on the Biology of Marine Mammals. 12-16 October 2009. Quebec City, Canada. [Poster]

Fulling, G.L., J. Cotton, J. Rivers, and P.H. Thorson. 2007. Sei (*Balaenoptera borealis*) and Bryde's (*B. edeni/brydei*) whale co-occurrence in the Mariana Islands during the boreal winter. 17<sup>th</sup> Biennial Conference on the Biology of Marine Mammals, 29 November - 3 December, Cape Town, South Africa. [Poster]

Norris, T., A. Azzara, L. Morse, G.L. Fulling, T. Yack, P. Thorson, J. Rivers. 2007. Acoustic detections of fourteen species of cetaceans off the Northern Mariana Islands: Results of an acoustic and visual line-transect survey in the western North Pacific. 17<sup>th</sup> Biennial Conference on the Biology of Marine Mammals. 29 November - 3 December, Cape Town, South Africa. [Poster]

Rivers, J., G.L. Fulling, P. Thorson, and C. Oedekoven. 2007. Humpback whale (*Megaptera novaengliae*) fluke photographs from the Northern Mariana Islands compared with other geographic areas. 17<sup>th</sup> Biennial Conference on the Biology of Marine Mammals. 29 November - 3 December, Cape Town, South Africa. [Poster]

Thorson, P.H., G.L. Fulling; J. Rivers; C. Watterson, and K. Sawyer. 2007. Cetacean diversity, distribution and abundance in Marianas waters from a boreal winter survey in 2007. 17<sup>th</sup> Biennial Conference on the Biology of Marine Mammals. 29 November to 3 December, Cape Town, South Africa. [Poster]

Fulling, G.L., W. Hoggard, D. Fertl, K. Knight, C. Watterson, A. Kumar, and K.D. Mullin. 2006. Distribution of molidae in the Northern Gulf of Mexico, with preliminary abundance estimates for the ocean sunfish (*Mola mola*). 59th Annual Meeting of the Gulf and Caribbean Fisheries Institute, 6-11 November, Belize City, Belize. [Invited Speaker]

Fertl, D., and G.L. Fulling. 2005. Interspecific interactions between marine mammals and sea turtles. 33<sup>rd</sup> Conference of the European Association for Aquatic Mammals, 11-14 March, Harderwijk, Netherlands. [Poster]

Fertl, D., and G.L. Fulling. 2005. Interspecific interactions between marine mammals and sea turtles. 16<sup>th</sup> Biennial Conference on the Biology of Marine Mammals, 12-16 December, San Diego, CA. [Poster]

Fulling, G.L., K.D. Mullin, C.W. Hubard, M. Matson, and C. Barry. 2003. Abundance and distribution of cetaceans in outer continental shelf waters of the U.S. Gulf of Mexico. 15th Biennial Conference on the Biology of Marine Mammals, 14-19 December, Greensboro, NC. [Poster]

Mullin, K.D., G.L. Fulling, W. Hoggard, C.L. Roden, C.M. Burks, and C.W. Hubard. 2001. Abundance and distribution of cetaceans in the southern U.S. Atlantic Ocean during Summer 1998. 14<sup>th</sup> Biennial Conference on the Biology of Marine Mammals, 28 November- 3 December, Vancouver, British Columbia. [Poster]

**REFERENCES:** Available upon request.