



Smultea Environmental Sciences, LLC

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Mari Smultea

Founder/President/  
Chief Scientist

#### SUMMARY

Mari Smultea has over 29 years of experience studying effects of human-related activities primarily on marine mammals/sea turtle ecology and behavior, but also other marine and terrestrial animals, particularly endangered species. She has managed her own environmental consulting business, Smultea Environmental Sciences, LLC, since 2000. She has approximately 18,000 hours of field experience designing/conducting/analyzing aerial/vessel/passive acoustic monitoring and land-based surveys. Thoroughly covering the northern Pacific Ocean, she has also worked in the Atlantic, Gulf of Mexico, and Caribbean specializing in assessing effects of underwater sound on marine animal behavior and ecology.

She has been Project Manager, Assist. Project Manager, Task Manager, and/or Field Director of wildlife studies for Navy exercises/activities, marine academic seismic geophysical studies, offshore natural gas/oil exploration/operations, energy licensing/permitting/ development, marine hazardous waste clean-up, pier construction, coastal development, marine/riverine transportation, etc.

Mari's extensive experience includes permitting, NEPA, ESA and MMPA regulations, agency consultation, habitat management/enhancement, and mitigation/monitoring. Mari has developed/written/reviewed and implemented marine mammal Mitigation and Monitoring Programs/Plans/Reports; Incidental Take Permits/IHAs/LOAs; Habitat Conservation Plans; FERC, BOEM, EPA, NMFS, NSF, ACOE and Navy regulatory reports; EISs, EAs, Biological Assessments/Evaluations, Environmental Reports.

She has published 19 scientific articles, presented numerous papers at conferences, and served on various management boards and committees involving marine mammal management.

#### EDUCATION

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| Current | <b>Ph.D. candidate</b> , Texas A&M University at Galveston, Dept. Marine Biology, Marine Mammal Behavioral Ecology Group                          |
| 1991    | <b>M.Sc., Wildlife &amp; Fisheries Sciences</b> , Texas A&M University. Thesis: Habitat Selection of Humpback Whales off the Big Island of Hawaii |
| 1985    | <b>B.A. Human Ecology &amp; American Politics</b> , Connecticut College   |

#### TRAINING/ CERTIFICATES

- Trainer/SES Marine Mammal Observer Training (2009-present)
- NMFS/SWFSC Observer Training, San Diego, CA (1991)

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- Aviation Safety & Egress Dunker Training/NOAA/NMFS (2009)
  - Marine Cold Water; Outdoor Survival Training (2006, 2009, 2014)
  - Introductory Flight Course for Pilots (2009)
  - Wilderness First Aid (2009)
  - Certified Habitat Evaluation Procedure, U.S. Fish and Wildlife Service
  - Certified Marbled Murrelet and Gray Wolf Surveyor
  - Certified SCUBA
  - Mysticetus Observation Platform Training (Annually 2011-2014)
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MARINE  
MAMMAL  
PROJECT  
EXPERIENCE

**Undisclosed Client (January 2015-present).** Managed probability analysis and reporting to assess potential marine mammal impacts of falling debris associated with unmanned rocket explosions over Pacific Ocean on 20+ species of marine mammals to address MMPA and ESA permitting and mitigation requirements.

**Undisclosed Client (April 2014-present).** Contracted to write an Incidental Harassment Authorization application and associated Marine Mammal Mitigation and Monitoring Plan for 55,512 km of seismic operations proposed to occur in the BOEM mid- and South Atlantic Offshore Continental Shelf Planning Areas involving assessment of impacts of underwater seismic noise on marine mammals. Includes agency (e.g., NMFS, BOEM) consultations.

**Undisclosed Client (April 2014-present).** Contracted to write an Incidental Harassment Authorization application and associated Marine Mammal Mitigation and Monitoring Plan for 26,641 km of seismic operations proposed to occur in the BOEM mid- and South Atlantic Offshore Continental Shelf Planning Areas involving assessment of impacts of underwater seismic noise on marine mammals. Utilizing Mysticetes™ software for take-estimate analysis. Includes agency (e.g., NMFS, BOEM) consultations.

**Undisclosed Client (April 2014-present).** Contracted provide advice to client on Incidental Harassment Authorization application and associated Marine Mammal Mitigation and Monitoring Plan for seismic operations proposed to occur in the BOEM mid- and South Atlantic Offshore Continental Shelf Planning Areas involving assessment of impacts of underwater seismic noise on marine mammals.

**TGS 2-D Seismic Program, Chukchi Sea, Alaska 2013/ASRC Energy Services, AES, Anchorage, AK. (Oct 2012-present).** As Arctic marine mammal specialist, wrote Incidental Harassment Authorization (IHA) application to NMFS on behalf of clients addressing potential impacts to marine mammals, including bowhead, beluga and gray whales and ringed, bearded and spotted seals. Reviewed/assisted in Letter of Authorization (LOA) submission to US FWS addressing potential impacts to polar bears and walruses. Included Marine Mammal Monitoring and Mitigation Plan. Presented related information at 8 Inupiat North Slope communities, to the NMFS Open Water Panel, and at the 2013 NMFS Annual Open Water Meeting. Involved assessing and implementing effective mitigation and monitoring options, including passive acoustic monitoring and custom-made observation and mapping software.

**SAE Exploration, Seismic Survey Support in Beaufort Sea, Anchorage, AK. (June 2014-January 2015).** Contracted to manage,

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oversee, and implement several marine mammal monitoring programs relative to seismic exploration activities for projects in the Beaufort Sea for BP Oil and Fugro. Included overseeing and participation in management of over 40 personnel, data, logistics, training, finances, and client and agency interactions. Monitoring conducted daily from up to three vessels using Mysticetus software.

**Cetos Research Organization, Underwater Studies of Humpbacks Whales Maui, HI (2003-present).** Volunteer Marine Mammal Scientist for the non-profit Cetos Research Organization ([www.cetosresearch.org](http://www.cetosresearch.org)). Conducted field studies from a large sailboat and from a small vessel under a scientific permit off Maui and Kauai, HI. Involved underwater videography including use of a hand-held underwater acoustic array to record humpback whale cow and calf behavior and vocalizations. Analyzed associated data and video and wrote field reports. Presented data at various conferences. Journal manuscript published in 2007

**NMSF / NMML Marine Mammal Aerial Density Surveys Conducted in the San Juan Islands, Strait of Juan de Fuca and Adjacent Canadian Waters, (April 2015–August 2015).** Project Manager, designer, and surveyor in systematic line transect aerial surveys for marine mammals in northern waters of Washington State and British Columbia, Canada. Focused on obtaining data to estimate density, abundance, and distribution of harbor porpoise. Analyzed and reported data using DISTANCE sampling and software, and produced Final Report.

**Marine Mammal Monitoring, WindFloat Pacific OSW Demonstration Study Geophysical Survey/Principle Power Inc./Pacific NW National Labs/Coos Bay, OR. (June 2014-August 2015).** Project Manager, managed/designed NMFS LOC marine mammal mitigation/monitoring plan/data analyses/report. Client relations.

**US Navy NAVFAC NW/HDR Marine Mammal Aerial Density Surveys Conducted in the Pacific Northwest Inland Puget Sound Waters, Seattle, WA (August 2013-June 2015).** Managed, directed, co-designed and participated in systematic line transect aerial surveys for marine mammals in southern Puget Sound over four seasons and three years. Focused on obtaining data to estimate density and abundance, distribution and behavior of harbor porpoise and harbor seals in Navy training areas. Included analyzing and reporting data using DISTANCE sampling and software. Prepared Final Report with density estimates for combined surveys.

**Apache Alaska Corporation, Cook Inlet Seismic Survey Support, Anchorage, AK. (March 2014-January 2015).** Directed, designed and managed marine mammal mitigation and monitoring program for seismic exploration operations in Cook Inlet, Alaska. Included overseeing and participation in management of over 40 personnel, data, logistics, training, finances, and client and agency interactions. Monitoring conducted daily from two vessels, two shore-based stations with theodolite, and a fixed-wing aircraft in aerial surveys using Mysticetus software.

**Aerial Survey Monitoring of Marine Mammals in Conjunction with US Navy Major Training Exercise, Southern California Range Complex,**

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**San Diego, CA, US Navy, for NAVFAC Pacific, Pearl Harbor, HI and NAVFAC Southwest, San Diego, CA. (October 2008-2014).** Contracted by the U.S. Navy, Univ. Calif. San Diego/Scripps' Institute of Oceanography, Marine Mammal Research Consultants and/or HDR, Inc., to design, direct and implement 18 aerial surveys (3 per year) to monitor marine mammal behavior, occurrence and distribution for baseline data and relative to naval training exercise involving mid-frequency active sonar use. Managed entire project, staff, budget, data analyses, and reports. Navy has used database format SES developed as protocol for all other vessel & aerial monitoring surveys in US Navy ranges. Designed and presented/involved with >20 related poster/spoken presentations at Society for Marine Mammalogy and Southern California Marine Mammal Workshop Conferences.

**Estimating Density and Abundance of Marine Mammals during 2008-2013 Aerial Survey Monitoring of Marine Mammals on Behalf of the US Navy, Southern California Range Complex, San Diego, CA. (2010-2013).** As result of unsolicited proposal from M. Smultea to the US Navy, as contractor to HDR, Inc., managed and lead team of scientists in data analyses and journal manuscript preparation to estimate density and abundance of marine mammals based on data from 18 line-transect aerial surveys in the Southern California Range Complex during 2008-2013.

**Apache Alaska Corporation, Cook Inlet Beluga Habitat Analysis Study, Anchorage, AK. (May 2013–Oct 2014).** Directed, designed and participated in aerial surveys for the Endangered Cook Inlet beluga whale and other marine mammals in central and upper Cook Inlet spring-fall 2013, using Mysticetus software. In cooperation with Alaska Pacific University, analyze habitat-use patterns of belugas and marine mammals using data collected during 2012 Apache marine mammal monitoring program during seismic and 2013 aerial data. Presented results at NMFS Cook Inlet Beluga Whale Workshop, April 2014 upon NMFS invitation.

**2013 Chukchi Sea Environmental Studies Program, LAMA Ecological Consulting, Anchorage, AK. (Summer 2013).** Contracted to provide objective outside review of draft report summarizing 2014 baseline field monitoring of marine mammal distribution, occurrence and behavior in the Chukchi Sea, with comparisons to 2011-2012 data.

**Marine Mammal Monitoring for the U.S. Navy's Hawaii Range Complex and Southern California Range Complex- Annual Reports , Department of the Navy, U.S. Pacific Fleet. (2011).** As part-time employee to HDR, Inc., served as lead scientist and editor on compilation of all US Navy-funded marine mammal and sea turtle monitoring activities conducted on the Hawaiian and Southern California Range complexes during Fiscal Year 2011, including passive acoustic monitoring and aerial and vessel-based surveys. Involved managing staff assigned with gathering and synthesizing reports and data from multiple scientific institutions and scientists and compiling them into an annual report the National Marine Fisheries Service on behalf of the US Navy.

**Estimating Density and Abundance and Quantifying Behavior of Marine Mammals during 2008-2010 Aerial Survey Monitoring of Marine Mammals on Behalf of the US Navy, Southern California Range Complex, San Diego, CA. (2010-2011).** M Smultea/SES

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submitted to and was awarded an unsolicited proposal from the US Navy to (1) estimate abundance and density based on 8 aerial surveys directed by SES/M. Smultea off San Diego 2008-2010; included preparation of draft journal manuscript (2) quantify and present in draft manuscript a summary of marine mammal behavior as observed from aerial survey aircraft; (3) organize, format and upload data from the 8 aerial surveys to publicly accessed database, OBIS-SEAMAP (<http://seamap.env.duke.edu/>); (4) prepare and submit journal manuscript on rare sightings of Bryde's whales off Southern California; manuscript accepted for publication October 2011. All 3 manuscripts included in Navy's 2011 Annual Report to the National Marine Fisheries Service (available at NMFS OPR website).

**Marine Mammal and Sea Turtle Monitoring Video During Navy Training Events in the US Navy's Hawaiian Range Complex and the Southern California Range Complex, US Navy, NAVFAC Pacific, Pearl Harbor, HI. (2010-2011).** M Smultea/SES submitted to and was awarded an unsolicited proposal from the US Navy to identify, archive, transcribe, summarize, and write summary report video of marine mammals taken during 8 aerial surveys lead by M. Smultea in Hawaii and southern California 2008-2009. These data are planned to be used by Navy personnel for post-survey correlation of animal movements with security-level received sonar level sounds and locations data from the Navy training events. Report included in Navy's 2011 Annual Report to the National Marine Fisheries Service (available at NMFS OPR website in fall 2011).

**Biological Assessment to Evaluate Effects of Wastewater Discharge on the Cook Inlet Beluga Whale, Anchorage Water and Wastewater Utilities, Anchorage, AK. (2009-2011).** Contracted by CH2M Hill as Lead Marine Mammal Specialist/SES to assess potential effects of renewal of EPA 301 wastewater discharge permit on the Cook Inlet endangered beluga whale. Involves development of toxicology model to assess potential effects of contaminants on belugas and their prey and habitat including NMFS-Designated Critical Habitat. Involved consultation with NMFS and EPA.

**Pt. Thompson EIS for Exxon's Proposed Offshore Oil and Gas Exploration Activities in the Beaufort Sea, AK. (2009-2011).** Contracted by HDR/e2m Anchorage as Arctic Marine Mammal Specialist to assist in preparation of an environmental impact assessment to address effects of construction and operation off offshore marine seismic operations on marine mammals near Pt. Thompson, AK. Responsible for analyzing and writing the marine mammal sections, including polar bears.

**Review and Compilation of Systematic Surveys of Bowhead Whales in the Beaufort and Chukchi Seas, National Marine Fisheries Service/National Marine Mammal Laboratory, Seattle, WA. (2008-2011).** Sole-sourced as Director of Smultea Environmental Sciences to conduct extensive review of published and unpublished literature/studies on vessel, aerial and shore-based surveys of bowhead whales in US arctic waters relative to MMS/NOAA Bowhead Feeding Study to assess effects of global warming on bowheads and their habitat. Invited to orally present results at annual Arctic conference and publish in bi-annual program report to MMS by NMML. NMFS POC Dave Rugh. Data to be presented at 2010 Arctic Marine Symposium Conference, Anchorage, AK, Jan 2010.

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**Review of NMFS Letter of Authorization for Proposed Construction of the Knik Arm Bridge Relative to the Endangered Cook Inlet Beluga Whale, Anchorage, AK (2009-2010).** Contracted by HDR/e2m as marine mammal/beluga LOA specialist to review and advise a request for permit to incidentally harass belugas during construction and operation of a proposed bridge across Knik Arm, Anchorage.

**Programmatic EIS/OEIS for National Science Foundation-Funded Marine Seismic Research Program, National Science Foundation. (2005-2010).** Assist. Project Manager and Lead Marine Mammal/ Sea Turtle Biologist for LGL Ltd., responsible for assessing effects of underwater seismic and sonar sounds and related activities for 15 research-related marine seismic programs in all major world oceans. Involves managing all natural resource chapters (invertebrates, fish, seabirds, etc.) and assimilating best available data on marine mammal and sea turtle distribution, occurrence, habitat use, and effects of seismic and sonar sounds. Requires regular involvement in team planning/technical meetings and NSF and NMFS personnel, and public scoping and hearing meetings. Final product is large and complex EIS/OEIS, the first of its kind addressing programmatic and cumulative effects of seismic activities on a long-term global-ocean basis.

**Aerial Survey Monitoring of Marine Mammals and Sea Turtles in Conjunction with US Navy Major Training Exercises, Hawaiian Range Complex, US Navy, NAVFAC Pacific, Pearl Harbor, HI. (August 2008--August 2009).** As co-PI with Dr. Joe Mobley of MMRC, designed, lead, and managed field team, managed all data analyses, and first-or second-authored reports for four aerial surveys to monitor marine mammal and sea turtle behavior, occurrence and distribution relative to naval training exercises involving mid-frequency active sonar near Kauai and Oahu, HI.

**Undisclosed private client, US Gulf of Mexico. (February 2009).** Contracted by LGL Ltd. to conduct feasibility assessment of marine mammal issues and regulations involved with offshore oil exploration activity relative to marine mammal effects in Gulf of Mexico for private client.

**Review of the Effects of Marine Seismic Activities and Other Underwater Sound on Sea Turtles (Spring 2009).** Contracted by LGL, King City, Ontario, Canada, to review, revise and update general appendix on effects of seismic and other underwater sounds on endangered sea turtles. This appendix used for multiple Environmental Assessments and NMFS IHA applications for marine academic seismic surveys throughout the world on behalf of National Science Foundation-funded geophysical research programs conducted from aboard the R/V *Marcus Langseth*.

**Vessel-based Marine Mammal Monitoring during RIMPAC Exercise, NAVFAC Pacific, U.S. Navy, EV3 Environmental Planning, Pearl Harbor, HI. (July 2008).** As Principal Scientist with SES, subcontracted by Marine Mammal Research Consultants to design and lead field project, data analyses, and report writing for vessel-based visual monitoring survey for marine mammals and sea turtles from aboard the M/V *Searcher* near Kauai and Niihau to assess their distribution and behavior relative to potential

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effects of US Navy RIMPAC training exercise involving mid-frequency sonar. Conducted data analyses and wrote report.

**Marine Mammal and Sea Turtle Monitoring and Mitigation Programs for Marine Seismic Studies aboard the R/V Maurice Ewing. (2003-2008).** Field and Report Team Leader for LGL Ltd. for Lamont-Doherty Earth Observatory (L-DEO) and National Science Foundation (NSF), for visual and passive acoustic monitoring of marine mammals and sea turtles. Implemented mitigation measures for 3 academic seismic studies in NE & central tropical Pacific and Caribbean involving projection of seismic and sonar sounds. Prepared associated and 4 additional EAs, Incidental Harassment Authorization (IHA) Applications and 90-day Reports for submission to NMFS.

**CGG Veritas, IHA Application Request for Incidental Taking of Ringed Seals during On-Ice Seismic Operations in the Beaufort Sea, March-May 2009. (Sep 2008).** Conducted literature review and edited and updated IHA application relative to potential impacts on marine mammals during proposed seismic operations in the Beaufort Sea.

**CGGVeritas / ConocoPhillips, Spring and Fall Marine Mammal Monitoring Program for the Conoco-Phillips Beluga River Seismic Operations in Cook Inlet, AK. (Spring and Fall 2007).** For CGGVeritas managed marine mammal observer team, interpreted/implemented IHA permit requiring mitigation/monitoring to assess effects of offshore natural gas exploration on beluga whales, harbor seals, and other marine mammals from two large vessels and a helicopter. Responsible for daily sighting/compliance reports for NMFS and clients.

**Veritas DGC Land & Shell Offshore, Inc., Nuiksut Public Meeting for IHA Application for the Non-lethal Taking of Seals in Conjunction with a Proposed On-ice Marine Geophysical (Seismic) Program in the Beaufort Sea, Alaska, During 2008. (October 2007).**

Subcontracted as Expert Marine Mammal Biologist to attend a public meeting at the native village of Nuiksut on behalf of Shell Offshore Inc., to address public comments on marine mammals relative to proposed on-ice seismic operations in the Beaufort Sea.

**NAVFAC Pacific, U.S. Navy, EV3 Environmental Planning, Pearl Harbor, HI. (Fall 2007).**As SES Principal Scientist, contracted by Cetos Research to design and lead field project, data analyses, and report writing for vessel-based visual survey off Oahu to monitor the behavior and distribution of marine mammals and sea turtles relative to Navy exercises involving mid-frequency sonar. Conducted from aboard the *M/V Searcher*.

**USWEX Hawaii Marine Mammal Monitoring Plan, NAVFAC Pacific, U.S. Navy, EV3 Environmental Planning, Pearl Harbor, HI. (2006-2007).** Independent Marine Mammal Expert subcontracted by LGL in SRS contract to review several drafts of NAVFAC US Navy Undersea Warfare Exercise (USWEX) Endangered/Threatened Marine Species Monitoring Plan for the Hawaii Range Complex (HRC).

**NAVFAC Pacific, U.S. Navy, EV3 Environmental Planning, Pearl Harbor, HI. (Winter 2007).** Principal Scientist/SES as subcontractor to Cetos Research, designed and lead field project, data analyses, and report

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writing for vessel-based visual monitoring survey for marine mammals in Alenuihaha Channel and N Island of Hawaii to assess baseline distribution and behavior of marine mammals from aboard the *R/V Dariabar* relative to potential effects of naval exercises involving mid-frequency sonar. Conducted data analyses and wrote reports.

**ESA Seminar Presentation to US Navy, Poulsbo, WA. (2003).** For Foster Wheeler Envtl, managed, designed and implemented seminar presentation to US Navy, EFA Northwest, entitled “Endangered Species Act (ESA): Process and Issues, Emphasizing Listed Salmonids in Puget Sound” to educate project managers on ESA process regarding recently listed salmon species. Received high accolades and spot incentive award.

**US Navy LWAD Tests, Marine Mammal Monitoring and Mitigation Programs. (2001-2002).** For Marine Acoustics, Vessel Team Leader and Observer for visual and acoustics teams conducting ship-based monitoring and mitigation for marine mammals as required for projection of mid- and low-frequency underwater sonar sounds off Okinawa, Japan, Scotland, and N Atlantic for US Navy acoustic tests and exercises.

**US Navy, Biological Assessment, Nearshore Confined Aquatic Disposal, Operable Unit B, Puget Sound Naval Shipyard, Bremerton, WA. (2000-2002).** As task manager for TetraTech Environmental, prepared Biological Assessment evaluating potential impacts on salmonids and marine mammals from remedial action clean-up of shipyard involving construction of nearshore confined aquatic disposal site and shoreline enhancement for salmonids. Developed quantitative habitat model. Consulted with NMFS, FWS, WDFW.

**University of Hawaii-West Oahu. (1993, 1994, 1998, 1999).** Marine mammal observer for line-transect aerial surveys of Hawaiian Islands for Dr. J. Mobley. Surveys designed to assess cetacean abundance/ distribution including relative to US Navy LFA sonar and ATOC sonar sounds for monitoring program.

**ATOC Study, HI. (1993-1994, 1997, 1998).** Field Director and Task Manager for Hubbs-Sea World Research Institute and Cornell University to assess baseline behavior and distribution of humpback whales from shore near Kauai, HI, including relative to vessels. Study designed to monitor humpback whale and other marine mammal the responses to underwater low-frequency sonar sounds of ATOC global warming study conducted by Scripps’ Institute of Oceanography. Conducted associated aerial surveys off Kauai.

**US Navy, Biological Assessment, Construction of Containment Berm, Barrow, AK. (1998).** As task manager for TetraTech Environmental, prepared *Biological Assessment* evaluating potential impacts on *seals, polar bears*, and seabirds/waterfowl from remedial action clean-up and construction of a containment berm in Barrow, Alaska. Consulted with NMFS, FWS, ADFG.

**BP Exploration and Western Geophysical EA for IHAs to Allow Incidental Take of Marine Mammals in Beaufort Sea During Seismic Exploration Programs. (1994-1995).** For LGL, prepared Environmental

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Assessment & IHA Permit for marine mammals for nearshore open-water seismic exploration in Beaufort Sea.

**Study of Acoustic Effects of Oil Production Activities on Bowhead and White Whales near Pt. Barrow, AK. (1989-1994).** For LGL in MMS-funded study, organized, implemented, and analyzed ice-based study to assess acoustic effects of oil production activities by using underwater sound playbacks of icebreaker, offshore drilling noise on bowhead and beluga whales and ringed and bearded seals near Pt. Barrow, AK.

**Western Geophysical Company, Marine Mammal Monitoring Program, Seismic Vessel Operations, Beaufort Sea, AK. (1992).** For Ebasco Environmental, analyzed data and prepared report for NMFS and FWS on marine mammal monitoring program conducted in Beaufort Sea to assess offshore oil drilling effects.

**National Marine Fisheries Service/National Marine Mammal Laboratory, Delphinid Aerial Surveys in Oregon and Washington Offshore Waters, OR/WA. (1992-1993).** For Ebasco Envtl, surveyed marine mammals from airplane off OR and WA using line-transect technique to assess density/abundance of dolphins relative to impacts of incidental takes during fishing operations. Involved data analysis and report preparation.

**Oceanic Society, Bahamas Spotted Dolphin Project. (1992).** Assisted Ph.D. graduate student in collection of underwater videography and mobile hydrophone array system to study behavior and vocal communication of wild spotted dolphins near offshore reefs of the Bahamas from aboard a 60-ft live-aboard vessel.

**Shell Western E&P Inc. and Chevron USA. Inc., Marine Mammal Monitoring Program, Chukchi Sea, AK. (1991-1992).** For Ebasco Envtl., observer from airplane & icebreaker vessel to assess distribution/behavior of walruses, polar bears, bowhead whales, and seals relative to offshore oil exploration activities and noise in the Chukchi Sea to meet NMFS and FWS mitigation requirements.

**ATOC Heard Island Feasibility Test, Australian Antarctic. (1991)** For Scripps' Inst. Oceanography (SIO), NMFS, and US. Office of Naval Research, Lead Marine Mammal Behavior Biologist for Texas A&M Marine Mammal Research Program. Designed, implemented, collected, and analyzed vessel-based data on behavioral responses of marine mammals to low-frequency underwater sonar sounds used for ATOC feasibility test near Heard Island. One of the first scientific underwater sound projects required to meet NMFS mitigation requirements. Published results in journal.

**National Marine Fisheries Service, Task Manager (1990).** Jointly implemented, collected, and analyzed data on the behavioral response of bottlenose dolphins in and near the 1991 Mega Borg II oil spill off Galveston, TX, through aerial observations. Information was summarized in a National Marine Fisheries Service Report, presented at the 1990 Annual Information Transfer Meetings of the Minerals Management Service, at the 1991 Ninth Biennial Conference on the Biology of Marine Mammals, and published in a scientific journal.

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**National Marine Fisheries Service, Potential Impacts of Exxon Valdez Oil Spill on Humpback Whales, Southeast AK. Field Research Consultant (1989).**

Subcontracted to assist in population assessment of southeast Alaska humpback whales in response to the 1989 Exxon Valdez oil spill through photo identification. Photographed whales from small vessels, developed and analyzed photographs.

**Marine Mammal Commission (MMC), Principal Investigator, Hawaii. (1988-1989).**

As project manager, determined distribution patterns of humpback whales off the Big Island using land-based theodolite tracking due to concerns of impacts of increasing nearshore development. Results published in journal.

**Pacific Whale Foundation, Research Associate (1985-1987) -**

Conducted and analyzed aerial- (strip transect), land-, and vessel-based research on the behavior and ecology of humpback whales in Australia and Hawaii. Responsible for coordinating daily research activities, supervising and instructing interns, and presenting public lectures and whale watches on the natural history of humpback whales

**Orca Survey/Earthwatch, Field Research Assistant, San Juan Island, WA (Summers 1987-1988) -**

Assisted in long-term photo identification research of killer whales to monitor their individual histories and to detect changes in habitat use in Puget Sound, Washington, with Ken Balcomb, Whale Research Center. Instructed Earthwatch volunteers and operated small research vessels. Processed data and whale identification photographs, including cataloguing of individual whales.

**Texas A&M University, Teaching Assistant/Laboratory Instructor (1988-1991) -**

Organized and lectured laboratory sections of the following courses: Marine Mammal Biology, General Biology, Natural History of Vertebrates, and Fundamentals of Ecology.

**Texas A&M University, Graduate Research Assistant, Marine**

**Mammal Research Program. (1988-1991).** Assisted Dr. Bernd Würsig of the Marine Mammal Research Program in logistics, data collection, analysis, and report writing for various projects involving bottlenose dolphins in the Gulf of Mexico bowhead whales in the Arctic and other projects.

**University of Hawaii/Earthwatch, Volunteer Research Assistant (1985).**

Collected land- and vessel-based data pertaining to differential response of humpback whales to various underwater sounds in Hawaii.

**Ocean Research and Education Society (1983).**

Student Research Assistant - Collected and analyzed data on humpback whale distribution and population ecology off western Greenland to assess viability of population to continued subsistence whaling. Funding for project provided by the International Whaling Commission; results published in journal of the same. Project PIs Ken Balcomb, Judy Perkins, George Nichols.

- Jefferson, T.A., **M. A. Smultea**, C. E Bacon. 2015. Southern California Bight marine mammal density and abundance from aerial surveys, 2008-2013. *Journal of Marine Animals and Their Ecology* 7 (2): 14-30.
- Smultea, M.A.**, and T.A. Jefferson. 2014. Changes in Relative Occurrence of Cetaceans in the Southern California Bight: A Comparison of Recent Aerial Survey Results with Historical Data Sources. *Aquatic Mammals* 40(1): 32-43.
- Smultea, M.A.**, C.E. Bacon, K. Lomac-MacNair, and J. Bredvik. 2014. Observation of inter-species association between Sperm Whales, Risso's and Northern Right Whale Dolphins off San Diego, California. *Northwestern Naturalist* 95(1): 43-49.
- Packard, J.M., K.E. Loonam, C.R. Arkenberg, H.M. Boomstrom, T.L. Cloutir, E.J. Enriquez, A. Eyres, H. Haefeles, T.R. Salzar, **M.A. Smultea** and K. Snoggrass. 2014. Behavioural profiles of African bovinds (*Hippotraginae*). *Journal of Zoo and Aquarium Research* 2(3):82-87.
- Smultea M.A.**, M. Holst, W.R. Koski, S. Stoltz Roi, A.J. Sayegh, C. Fossati, H.H. Goldstein, J.A. Beland, S. MacLean S, and S. Yin. 2013. Visual-Acoustic Survey of Cetaceans during a Seismic Study in the South-east Caribbean Sea, April-June 2004. *Caribbean Journal of Science* 47(2-3):273-283.
- Smultea, M.A.**, A B. Douglas, C.E. Bacon, T.A. Jefferson, and L. Mazzuca. 2012. Bryde's whale (*Balaenoptera brydei/edeni*) sightings in the Southern California Bight. *Aquatic Mammals* 38 (1) 2012.
- Smultea, M.A.**, D. Fertl, D. J. Rugh, and C. E. Bacon. 2012. Summary of Systematic bowhead surveys conducted in the U.S. Beaufort and Chukchi Seas, 1975-2009. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-237, 48 p.
- Smultea, M.A.**, T.A. Jefferson, and A.M. Zoidis. 2010. Rare Sightings of a Bryde's Whale (*Balaenoptera edeni*) and Sei Whales (*B. borealis*) (*Cetacea: Balaenopteridae*) Northeast of Oahu. *Pacific Science* 64(3): 449-457.
- Smultea, M.A.**, J.R. Mobley, G.L. Fulling, and D. Fertl. 2008. An unusual reaction and other observations of sperm whales near fixed-wing aircraft. *Gulf and Caribbean Research* 20:75-80.
- Zoidis, A.M., **M.A. Smultea**, A.S. Frankel, J.L. Hopkins, A.D. Whitt, and D. Fertl. 2008. Vocalizations produced by humpback whale (*Megaptera novaeangliae*) calves recorded in Hawaii. *J. Acoust. Soc. Am.* 123(3):1737-1746.
- Rankin. S., T.F. Norris, **M.A. Smultea**, C. Oedekoven, E. Silva, A.M. Zoidis, and J. Rivers. 2007. A visual sighting and acoustic detections of minke whales, *Balaenoptera acutorostrata*, in nearshore Hawaiian waters. *Pacific Science*.
- Patenaude, N.J., W J. Richardson, **M.A. Smultea**, W.R. Koski, G.W. Miller, B. Würsig, and C.R. Greene, Jr. 2002. Aircraft sounds and disturbance to bowhead and beluga whales during spring migration in the Alaskan Beaufort Sea. *Marine Mammal Science* 18(2):309-335.
- Mobley, J.R., **M. Smultea**, T. Norris, and D. Weller. 1996. Fin whale sighting north of Kauai'i, Hawaii. *Pacific Science* 50(2):230-233.
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CONFERENCE  
PRESENTATIONS  
(Total=60+)

Lomac-MacNair, K., **M.A. Smultea**, M. P. Cotter, C. Thiessen, L. Parker. Socio-sexual and probable mating behavior of Cook Inlet beluga whales observed from and aircraft. Animal Behavior Society Conference, Anchorage, AK. 6/2015.

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**Smultea, M.,** C. Bacon, D. Steckler, M. Cotter, and S. Courbis. 2015. Puget Sound marine mammal aerial surveys 2013-2015. Abstracts of the Puget Sound Ecosystem Monitoring Program Marine Waters Workshop. Seattle, WA.

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Courbis, S., **M. Smultea**, and G. Campbell. 2015 [accepted for presentation]. Navigating the challenging process of permitting for marine seismic exploration. Abstracts of the Society for Exploration Geophysicists International Exposition and 85<sup>th</sup> Annual Meeting. New Orleans, LA.

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**Smultea, M.A.,** M. Blees, M. Larson, J. Cate, and C.E. Bacon. 2014. Visual and passive acoustic marine mammal monitoring in northern U.S. and international Chukchi Sea open waters in summer-fall 2013. Poster presentation, Alaska Marine Science Symposium. 20-24 January 2014. Anchorage, Alaska.



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- Lomac-MacNair, K., **M.A. Smultea**, and C. Bacon. 2013. 'Observer effect' from an aerial platform during marine mammal focal observations on Risso's dolphins, short-beaked common dolphins and killer whales in the Southern California Bight. 20th Biennial Conference on the Biology of Marine Mammals 9-13 December 2013, Dunedin, New Zealand.
- McDonald, T., **M.A. Smultea**, S. Howlin, and C. Bacon. 2013. Resource Selection Function analyses: Assessing habitat use relative to behavior and resource characteristics/availability for five common marine mammal species in the Southern California Bight. 20th Biennial Conference on the Biology of Marine Mammals 9-13 December 2013, Dunedin, New Zealand.
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- Bacon, C.E., **M.A. Smultea**, B. Würsig, V. James, and M. Moore. 2013. Mixed-species associations seen in the Southern California Bight during aerial surveys 2008-2012. Poster- The Southern California Marine Mammal Workshop. 1-2 February 2013. Newport Beach, California.

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- Norris, T., D. Steckler, **M. Smultea**, B. Würsig, T. Dominelli, C. Hom-Weaver, and C. Bacon. 2013. Sights and Sounds in the Sky: Integrated Acoustic-Visual Aerial Monitoring of Marine Mammal Behaviors Using Sonobuoys and Visual Methods. Poster- The Southern California Marine Mammal Workshop. 1-2 February 2013. Newport Beach, California.
- Smultea, M.A.**, C. Bacon, and B. Würsig. 2012. The Behavioral Ecology of Risso's Dolphins off Southern California. 10th Annual Pathways Student Research Symposium, Galveston, Texas. 9-10 November 2012.
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- James, V., **M. A. Smultea**, A. B. Douglas, C. E. Bacon, T. A. Jefferson and L. Mazucca. 2012. Rare Sightings of Bryde's Whales (*Balaenoptera brydei/edeni*) in the Southern California Bight. Poster presentation, Southern California Marine Mammal Workshop. 3-4 February 2012. Newport Beach, California.
- Lomac-MacNair, K., **M. A. Smultea**, C. E. Bacon, and M. Blees. 2012. Diurnal Behavior and Group Size Patterns of Common Dolphins (*Delphinus* sp.) during 2008-2010 Aerial Surveys off San Diego, California. Poster presentation, Southern California Marine Mammal Workshop. 3-4 February 2012. Newport Beach, California.
- Moore, M., **M. A. Smultea**, C. E. Bacon, B. Würsig, and V. James. 2012. Got Milk? Aircraft Observations Provide Rare Glimpses into Whale Calf Nursing and Back Riding. Poster presentation, Southern California Marine Mammal Workshop. 3-4 February 2012. Newport Beach, California.
- Bacon, C. E., **M. A. Smultea**, B. Würsig, and K. Lomac-MacNair. 2012. Comparison of Blue and Fin Whale Behavior, Headings and Group Characteristics in the Southern California Bight during Summer and Fall 2008-2010. Poster presentation, Southern California Marine Mammal Workshop. 3-4 February 2012. Newport Beach, California.
- Smultea, M. A.**, T. A. Jefferson, J. Black, K. Lomac-MacNair, and C. E. Bacon. 2012. Changes in Abundance, Density and Diversity of Marine Mammals in the Southern California Bight 1998-1999 vs. 2008-2010. Poster presentation, Southern California Marine Mammal Workshop. 3-4 February 2012. Newport Beach, California.
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- Bacon, C. E., **M. A. Smultea**, B. Würsig, and K. Lomac-MacNair. 2011. Comparison of Blue and Fin Whale Behavior, Headings and Group Characteristics in the Southern California Bight during Summer and Fall 2008-2010. Poster presentation, Nineteenth Biennial Conference on the Biology of Marine Mammals. 27 November – 2 December 2011. Tampa, Florida.
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- Smultea, M. A.**, K. Lomac-MacNair, J. R. Mobley, Jr., L. M. Mazucca, C. Bacon, and R. Merizan. 2010. Results of Aerial Surveys Conducted in Conjunction with US Navy Training Exercises off Southern California 2008-2010. Abstracts, The American Cetacean Society's 12th International Conference. 12-14 November 2010. Monterey, California.
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- Smultea, M. A.**, D. Fertl, D. J. Rugh and C. Bacon. 2010. History of Bowhead Surveys in the US Beaufort and Chukchi Seas~ 1975-2009. Poster presentation, Mini- Alaska Marine Science Symposium at the NOAA Alaska Fisheries Science Center. 16-17 February 2010. Seattle, Washington.
- Smultea, M. A.**, J. Brueggeman, D. Fertl, G. A. Green, R. A. Rowlett and C. Bacon. 2010. Polar Bear Reactions to Icebreakers. Poster presentation, Alaska Marine Science Symposium. 18-22 January 2010. Anchorage, Alaska.
- Smultea, M. A.**, D. Fertl, D. J. Rugh and C. Bacon. 2010. History of Bowhead Surveys in the US Beaufort and Chukchi Seas~ 1975-2009. Poster presentation, Alaska Marine Science Symposium. 18-22 January 2010. Anchorage, Alaska.

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