

KIMBERLY S. DIETRICH
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EDUCATION:

University of Pennsylvania, Philadelphia, Pennsylvania

Bachelor of Arts, 1992 - Majors: **Biology** and **Environmental Studies** (with Distinction)

University of Washington, Seattle, Washington

Master of Science, 2003, University of Washington, School of Aquatic and Fishery Sciences

WORK EXPERIENCE:

Consultant, Self-employed

Projects:

- Supplemental fisheries observer training and observer program support follow-up in Liberia. Client: International Commission for the Convention of Atlantic Tunas (ICCAT) and NOAA Fisheries (2012)
- Develop training material that harmonizes current Taiwan observer data collection protocols with NOAA Fisheries data needs for circle hook experiment to reduce sea turtle bycatch on pelagic longline vessels. Perform training in Kaohsiung. Client: NOAA Fisheries (2012)
- Update West African fisheries observer training materials. Client: ICCAT and NOAA Fisheries (2011)
- Perform comprehensive fisheries observer training in Liberia and Gabon. Client: ICCAT and NOAA Fisheries (2011)
- Compile regional fisheries observer manual and develop training materials for West African fisheries observers. Phase I (of III) was specific to Cameroon. Client: ICCAT and NOAA Fisheries (2009-10)
- Pilot project investigating seabird interactions with trawl paravane cables and analysis of seabird bycatch in Alaska groundfish trawl fisheries. Client: National Marine Fisheries Service (2009-11).
- Vessel-specific analysis of seabird bycatch in Alaska groundfish demersal longline fisheries. Client: National Marine Fisheries Service (2008)
- Seabird identification training presentation and sampling protocols/materials for fisheries observers in Ghana. Client: National Marine Fisheries Service (December 2007)
- Assisted with organization of a workshop to develop best practices for the collection of longline data to facilitate research and analysis to reduce bycatch. Provide written report of workshop findings. Client: National Marine Fisheries Service (November, 2004 - April, 2005)
- Writing and editing of a contract proposal to supply observers to NMFS Southwest Region. Client: Alaskan Observers, Inc. (April 1997)

Marine Fisheries Specialist, WASHINGTON SEA GRANT, University of Washington, Seattle, WA

April, 2003 – October, 2004; May 2005 to December 2007

Supervisor / Phone: Ed Melvin, Marine Fisheries Specialist / (206) 543-9968

- Organized field project on two longline fishing vessels to test integrated weight longline gear as a seabird deterrent.
- Performed data analysis on several projects focused on reducing seabird bycatch in longline and trawl fisheries (see Publications).

Research Assistant, WASHINGTON SEA GRANT, University of Washington, Seattle, WA

April-October, 1999; January, 2000-September, 2000

Supervisor / Phone: Ed Melvin, Marine Fisheries Specialist / (206) 543-9968

- Prepared seabird project sampling manual for data collectors, designed forms and provisioned five vessels with necessary equipment.

- Collected data on seabird abundance, interaction and mortality associated with longline fishing operations.
- Assisted with data analysis and presentation.

Zooplankton Technician, U.S. ANTARCTIC MARINE LIVING RESOURCES PROGRAM, Southwest Fisheries Science Center, La Jolla, CA

February-March, 1998; January-March, 1999; February-March, 2000; February-March, 2003; January-March, 2005; January-March 2006; January-February 2007; January-March 2008; January-March 2009; January-March 2010; January-March 2011, August 2012

Supervisor: Christian Reiss (zooplankton) / Christopher Jones (fish)

- Monitored IKMT zooplankton net during deployment and retrieval from *R/V Yuzhmorgeologiya*, *Moana Wave* and *Nathaniel B. Palmer*.
- Identified and enumerated all zooplankton (>50 species) caught during large-area krill survey.
- Identified and weighed all vertebrate species caught during Elephant Island bottom trawl survey.
- Designed and maintained a database for invertebrate CPUE by species or major group caught during trawl survey.
- Collected length-frequency data and age structures from more than 20 Antarctic fish species.
- Maintained sampling equipment and inventory.
- Assisted with zodiac operations to supply equipment and personnel to land-based field camps.

Sea Sampler, INTERNATIONAL PACIFIC HALIBUT COMMISSION, Seattle, WA

June, 1997; May-August, 1998; May-July, 2009

Supervisor: Calvin Blood/Laurie Sadorus/Tracee Gearhart

- Performed all sampling procedures as prescribed by the IPHC during halibut longline stock assessment survey.
- Collected length, sex, maturity, and prior hook injury information from all halibut caught.
- Confirmed number of hooks and hook spacing on each skate used during survey operations.
- Monitored offload and recorded scale weights.
- Supervised various state agency staff in their performance of IPHC duties.
- Edited data to ensure readiness for data entry.

Seabird Observer, WASHINGTON SEA GRANT, University of Washington, Seattle, WA

August, 1996

Supervisor: Ed Melvin

- Observed and recorded seabird and marine mammal interactions with fishing vessels and gear during Puget Sound salmon gillnet fishery. Contracted vessels were required to follow a specific research protocol.
- Recorded the number of salmon taken and the amount of bycatch discarded.
- Collected and prepared marine mammal and seabird specimens fatally taken in gillnets.
- Assisted with necropsies of seabirds.

Field Supervisor, ALASKAN OBSERVERS, INC., Dutch Harbor, Alaska

September, 1994-April, 1996

Supervisor: David Edick, General Manager

- Provided 24-hour logistical support to fisheries biologists traveling to and from vessel assignments.
- Oriented biologists to unique sampling situations on over 80 fishing vessels and assisted in developing appropriate sampling strategies.
- Introduced biologists to primary personnel on assigned fishing vessels and processing plants.
- Assisted vessels with compliance of fishery regulations.
- Tracked vessels in port for location, length of trips, and length of time in port.
- Motivated employees to collect high quality data.
- Mediated conflicts between on-board biologists and vessel personnel.
- Planned and organized bird watching field trips and community beach clean-ups for employees during non-working hours.

Debriefing Supervisor, ALASKAN OBSERVERS, INC., Seattle, WA

April, 1993-April, 1996

Supervisor: David Edick, General Manager

- Performed extensive quality control checks on data collected by over 150 fisheries biologists.
- Evaluated work performance through review of data for more than 150 contracted biologists.
- Developed sampling performance standards for biologists by vessel and fishing gear type.
- Revised reference manual used for performing quality control checks on biological data.
- Reviewed and organized scientific publications and developed a bibliography on North Pacific fishery resources.
- Dedicated significant personal time to complete duties as necessary.

North Pacific Groundfish Observer, ALASKAN OBSERVERS, INC., Seattle, WA

December, 1990-March, 1993; May, 1996; October, 1996, August/October, 1997; September-November, 1998; August, 1999

Supervisor: David Edick, General Manager

- Recorded fishing effort and estimated total catch on board commercial fishing vessels in the Bering Sea.
- Collected random samples from total catch for species composition and prohibited species bycatch.
- Sexed and measured a subsample of target species daily to determine age composition of target fish.
- Obtained biological information from all prohibited species bycatch in samples.
- Submitted weekly data to the National Marine Fisheries Service for the management of the Bering Sea and Gulf of Alaska groundfish resources.

Marine Mammal Observer, SALTWATER, INC., Anchorage, AK

May, 1991-September, 1991

Supervisor: Mandy Merklein, Field Supervisor

- Observed and recorded marine mammal and seabird interactions with fishing gear during Prince William Sound commercial salmon gillnet fishery.
- Recorded the number of salmon taken and the amount of bycatch discarded.
- Collected and prepared marine mammal and seabird specimens fatally taken in gillnets.
- Edited biological data for quality and accuracy.

Field Assistant, NATIONAL AUDUBON SOCIETY, Tavernier, Florida

June, 1990- September, 1990

Supervisor: Tom Bancroft, Al Strong

- Trapped white-crowned pigeons and gathered biological information.
- Fitted pigeons with radio transmitters and flew aerial telemetry flights for foraging range study.
- Conducted biweekly nest checks on pigeon nesting islands.
- Performed routine maintenance checks on small boats and motor vehicles and maintained all telemetry equipment.

ADDITIONAL QUALIFICATIONS/EXPERIENCE:

- **Alaska Marine Safety Education Association** – Marine Safety Instructor Training – 2009
- U.S. Coast Guard Auxiliary – Boating Safety & Seamanship course - 2009
- Experienced with the following computer applications: MS Word, Access, Excel, Word Perfect, SPSS, SPlus, EndNote, ArcGIS.
- **Association for Professional Observers**, Board and Treasurer, 1996-2007. The APO is a non-profit, non-governmental organization whose mission is to strengthen observer programs through advocacy and education.
- **Observer Advisory Committee (OAC)** member, 1997-2005. The OAC provides input to the North Pacific Fishery Management Council regarding observer programs in the North Pacific. Membership includes industry, contractors, agency staff and observer representatives.
- **Women's Fisheries Network (WFN)**, Board Member, 1997-98. WFN organizes monthly dinner lectures/discussion to educate industry on various fishery-related issues.
- Participant in Wildlife Management Project, Kenya, 1988 and Tropical Field Ecology Seminar, Costa Rica, 1990.

PUBLICATIONS

- Fitzgerald, S.M., **K.S. Dietrich**, and A. Wicklund. In Prep. Seabird bycatch in Alaskan trawl fisheries – an evaluation of observer sampling protocols.
- Reiss, C. S. and **K.S. Dietrich**. In Prep. Comparison of two plankton net types for the capture Antarctic krill and associated zooplankton in the Southern Ocean.
- V. Siegel, Reiss C.S., **Dietrich K.**, Haraldsson M., Rohardt G. Submitted. Distribution and abundance of Antarctic krill (*Euphausia superba*) along the Antarctic Peninsula.
- Yeh, Y.-M., H.-W. Huang, **K. S. Dietrich**, and E. Melvin. 2012. Estimates of seabird incidental catch by pelagic longline fisheries in the South Atlantic Ocean. Animal Conservation doi:10.1111/j.1469-1795.2012.00588.x.
- Melvin, E. F., **K. S. Dietrich**, S. Fitzgerald, and T. Cardoso. 2010. Reducing seabird strikes with trawl cables in the pollock catcher-processor fleet in the eastern Bering Sea. Polar Biology DOI 10.1007/s00300-010-0873-1.
- Santora, J. A., **K. S. Dietrich**, and D. Lombard. 2009. Fishing activity and seabird vessel attendance near the northern Antarctic Peninsula. Marine Ornithology 37:241-244.
- Dietrich, K. S.**, E. Melvin, and J. K. Parrish. 2009. Understanding and addressing seabird bycatch in Alaska demersal longline fisheries. Biological Conservation 142:2642–2656.
- Dietrich, K. S.**, E. F. Melvin, and L. Conquest. 2008. Integrated weight longlines with paired streamer lines – Best practice to prevent seabird bycatch in demersal longline fisheries. Biological Conservation 141:1793-1805.
- Suryan, R. M., **K. S. Dietrich**, E. F. Melvin, G. R. Balogh, F. Sato, and K. Ozaki. 2007. Migratory routes of short-tailed albatrosses: Time spent among exclusive economic zones of North Pacific Rim countries and spatial overlap with commercial fisheries in Alaska. Biological Conservation 137: 450-460.

REPORTS (by year)

2011

- Dietrich, K.**, C. Brooks, I. Bystrom, R. Driscoll, N. Ferm, J. Hinke, M. Janssen, D. Lombard, A. Pesce, S. Romain, L. Thoresen, A. Van Cise. In press. Distribution and Catch Rates of Zooplankton around the South Shetland Islands, Antarctica. NOAA-TM-NMFS-SWFSC-XXX.
- Fitzgerald, S.M., **K.S. Dietrich**, T. L. Loomis, and J.A. Pesta. In Prep. A pilot study to evaluate seabird interactions and mitigation methods for trawl paravane gear. AFSC Processed Report
- Jones, C., P. Koubbi, B. Catalano, **K.S. Dietrich**, and N. Ferm. In press. Mesopelagic and Larval Fish Survey During Leg II. 2010-2011 Field Season Report, Antarctic Marine Living Resources Program, NOAA-TM-NMFS-SWFSC-XXX.
- Yeh, Y.-M., H.-W. Huang, K. S. Dietrich, and E. Melvin. 2011. Estimates of seabird incidental catch by pelagic longline fisheries in the South Atlantic Ocean. Submitted to ICCAT - SCRS/2011/201.

2010

- Dietrich, K. S.**, and S. Fitzgerald. 2010. Analysis of 2004-2007 seabird catch data in Alaska demersal longline fisheries. Saving North Pacific seabirds: Can Alaska's demersal groundfish longline fishers improve their performance? Alaska Fisheries Science Center Processed Report 2010-04.
- Dietrich, K.S.**, A. Van Cise, R. Driscoll, J. Maurer, N. Sanchez, I. Bystrom, N. Ferm, G. Lemons, A. Maloney, S. Martin and S. Romain. In press. Zooplankton Abundance around the South Shetland Islands, Antarctica. 2009-2010 Field Season Report, Antarctic Marine Living Resources Program, NOAA-TM-NMFS-SWFSC-XXX.

2009

- Cossio, A. M., **K. Dietrich**, R. Driscoll, and C. Jones. 2009. Distribution and Abundance of Krill in the South Orkney Islands. Pages 81-82 in A. M. Van Cise, editor. AMLR 2008/2009 Field Season Report - Objectives, Accomplishments and Tentative Conclusions. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-445.
- Jones, C., M. Damerau, **K. Dietrich**, Ryan, Driscoll, K.-H. Kock, K. Kuhn, J. Moore, Tina, Morgan, T. Near, J. Pennington, and S. Schöling. 2009. Demersal Finfish Survey of the South Orkney Islands. Pages 49-66 in A. M. Van Cise, editor. AMLR 2008/2009 Field Season Report - Objectives, Accomplishments and Tentative Conclusions. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-445.
- Loeb, V., **K. Dietrich**, R. Driscoll, J. Fry, D. Krause, J. Sweeney, N. S. Puerto, M. A. Martinez, I. Ligon, and A. M. Van Cise. 2009. Distribution, Abundance and Demography of Krill. Pages 17-24 in A. M. Van Cise, editor.

AMLR 2008/2009 Field Season Report - Objectives, Accomplishments and Tentative Conclusions. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-445.

Loeb, V., **K. Dietrich**, R. Driscoll, J. Fry, D. Krause, J. Sweeney, N. S. Puerto, M. A. Martinez, I. Ligon, and A. M. Van Cise. 2009. Distribution and Abundance of Zooplankton. Pages 25-33 in A. M. Van Cise, editor. AMLR 2008/2009 Field Season Report - Objectives, Accomplishments and Tentative Conclusions. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-445.

2008

Dietrich, K. S., and E. F. Melvin. 2008. Alaska Trawl Fisheries: Potential Interactions with North Pacific Albatrosses. WSG-TR-01, Washington Sea Grant, Seattle, WA.

<http://wsg.washington.edu/communications/online/TrawlAlbaInterLR.pdf>

Loeb, V., C. Brooks, **K. Dietrich**, R. Driscoll, D. Lombard, L. Protopapadakis, N. Sanchez, and K. Zaret. 2008. Net sampling. Pages 59-113 in A. M. Van Cise, editor. AMLR 2007/2008 Field Season Report: Objectives Accomplishments and Tentative Conclusions. U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-SWFSC-427. <http://swfsc.noaa.gov/textblock.aspx?Division=AERD&id=3154&ParentMenuId=42>

2007

Dietrich, K. S., V. R. Cornish, K. S. Rivera, and T. A. Conant. 2007. Best practices for the collection of longline data to facilitate research and analysis to reduce bycatch of protected species. Report of a workshop held at the International Fisheries Observer Conference, Sydney, Australia, November 8, 2004. NOAA Tech. Memo. NMFS-OPR-35. <http://www.fakr.noaa.gov/protectedresources/seabirds/llreport0307.pdf>.

Dietrich K. and E. Melvin. 2007. Integrated Weight Longlines: Potential for Reduction of Skate By-Catch in Demersal Longline Fisheries. WG-FSA-07/51, CCAMLR, Hobart.

Loeb, V., **K. Dietrich**, R. Driscoll, A. Jenkins, D. Lombard, K. Green, L. Houser, K. Norton, and K. Zaret. 2007. Net sampling. Pages 54-106 in J. D. Lipsky, editor. AMLR 2006/2007 Field Season Report: Objectives Accomplishments and Tentative Conclusions. U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-SWFSC-409.

2006

Dietrich, K., E. Melvin, and L. Conquest. 2006. Integrated weight longlines with paired streamer lines – Best management practice for demersal longline fisheries: Preliminary results. WG-FSA-06/52, CCAMLR, Hobart.

Jones, C., C. Brooks, B. Detrich, **K. Dietrich**, R. Driscoll, J. Kendrick, K.-H. Kock, D. Lombard, T. Near, and S. Wilhelms. 2006. Demersal finfish survey of the Northern Antarctic Peninsula. Pages 107-134 in J. D. Lipsky, editor. AMLR 2005/2006 Field Season Report: Objectives Accomplishments and Tentative Conclusions. U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-SWFSC-397.

Loeb, V., L. Asato, C. Brooks, **K. Dietrich**, R. Driscoll, A. Jenkins, D. Lombard, and M. Meredith. 2006. Net sampling. Pages 55-106 in J. D. Lipsky, editor. AMLR 2005/2006 Field Season Report: Objectives Accomplishments and Tentative Conclusions. U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-SWFSC-397.

Melvin, E. F., **K. S. Dietrich**, and M. D. Wainstein. 2006. Solving seabird bycatch in Alaskan fisheries: a case study in collaborative research. Washington Sea Grant Program.

<http://wsg.washington.edu/communications/online/seabirds/seabirdsolvinglr.pdf>.

Melvin, E. F., M. D. Wainstein, **K. S. Dietrich**, K. L. Ames, T. O. Geernaert, and L. L. Conquest. 2006. The distribution of seabirds on the Alaskan longline fishing grounds: implication for seabird avoidance regulations. WSG-AS06-01, Washington Sea Grant Program.

<http://wsg.washington.edu/communications/online/seabirds/seabirddistlr.pdf>.

Santora, J. A., M. Force, **K. Dietrich**, D. Lombard, C. Reiss, and A. Cossio. 2006. Distribution, abundance, and behavior of seabirds and mammals at sea. Pages 187-193 in J. D. Lipsky, editor. AMLR 2005/2006 Field Season Report: Objectives Accomplishments and Tentative Conclusions. U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-SWFSC-397.

2005

Loeb, V., **K. Dietrich**, R. Driscoll, D. Lombard, K. Zaret, T. Bentley, M. Force, P. Kappes, Kristy, Kroker, T. Reddy, S. Sessions, J. Warren, and S. Wilson. 2005. Net sampling. Pages 49-107 in J. D. Lipsky, editor. AMLR 2004/2005 Field Season Report: Objectives Accomplishments and Tentative Conclusions. U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-SWFSC-385.

2004

- Dietrich, K. S.**, and E. Melvin. 2004. Annotated bibliography: Seabird interactions with trawl fishing operations and cooperative research. WSG-TA 04-02, Washington Sea Grant, University of Washington, Seattle. <http://wsg.washington.edu/mas/pdfs/seabirdbibliography.pdf>.
- Melvin, E. F., **K. S. Dietrich**, and T. Thomas. 2004. Pilot tests of techniques to mitigate seabird interactions with catcher processor vessels in the Bering Sea pollock trawl fishery: final report. Final Report WSG-AS 05-05, Washington Sea Grant, University of Washington. <http://wsg.washington.edu/mas/pdfs/pilot.pdf>.
- Melvin, E., **K. Dietrich**, K. Van Wormer, and T. Geernaert. 2004. The distribution of seabirds on Alaskan Longline fishing grounds: 2002 Data Report. WSG-TA 04-02, Washington Sea Grant Program. <http://wsg.washington.edu/mas/pdfs/datareport.pdf>.

2003

- Dietrich, K. S.** 2003. Factors affecting seabird bycatch in Alaska longline fisheries. Master of Science. University of Washington, Seattle. http://www.fish.washington.edu/research/publications/ms_phd/Dietrich_K_MS_A03.pdf.
- Jones, C., J. Ashford, **K. Dietrich**, A. DeVries, S. Hanchet, K.-H. Kock, T. Near, T. Turk, and S. Wilhelms. 2003. Bottom Trawl Survey. Pages 111-143 in J. D. Lipsky, editor. AMLR 2002/2003 Field Season Report: Objectives Accomplishments and Tentative Conclusions. U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-SWFSC-355.
- Loeb, V., **K. Dietrich**, M. Force, N. Gong, A. Jenkins, J. Reum, R. Rowley, C. Ware, and S. Wilson. 2003. Net sampling. Pages 50-110 in J. D. Lipsky, editor. AMLR 2002/2003 Field Season Report: Objectives Accomplishments and Tentative Conclusions. U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-SWFSC-355.

2001

- Loeb, V., R. Rowley, F. Borberg, **K. Dietrich**, N. Gong, A. Jenkins, P. Malan, and D. Stubing. 2001. Net sampling: krill and zooplankton. Pages 46-104 in J. D. Lipsky, editor. AMLR 1999/2000 Field Season Report: Objectives Accomplishments and Tentative Conclusions. U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-SWFSC-302.
- Melvin, E. F., J. K. Parrish, **K. S. Dietrich** and O. S. Hamel. 2001. Solutions to seabird bycatch in Alaska's demersal longline fisheries. Project A/FP-7, WSG-AS 01-01, Washington Sea Grant. <http://wsg.washington.edu/communications/online/seabirds/seabirdpaper.html>.

1999

- Jones, C. D., K.-H. Kock, S. Wilhelms, J. Popp, D. Ramm, **K. Dietrich**, P. Kappes, and D. Lombard. 1999. Bottom trawl survey of the South Orkney Islands. Pages 137-154 in J. Martin, editor. AMLR 1998/1999 Field Season Report: Objectives Accomplishments and Tentative Conclusions. SWFSC Admin. Rep. LJ-99-10.
- Loeb, V., W. A. Armstrong, **K. Dietrich**, M. Force, N. Gong, A. Jenkins, and D. Lombard. 1999. Net sampling: krill and zooplankton. Pages 65-114 in J. Martin, editor. AMLR 1998/1999 Field Season Report: Objectives Accomplishments and Tentative Conclusions. SWFSC Admin. Rep. LJ-99-10.
- Loeb, V., D. Lombard, W. A. Armstrong, **K. Dietrich**, and N. Gong. 1999. Abundance and distribution patterns of copepod species during January –February 1999. Pages 115-120 in J. Martin, editor. AMLR 1998/1999 Field Season Report: Objectives Accomplishments and Tentative Conclusions. SWFSC Admin. Rep. LJ-99-10.

1998

- Loeb, V., W. A. Armstrong, R. Johnson, E. Linen, M. Force, C. F. Phleger, V. Siegel, **K. Dietrich**, and M. M. Nelson. 1998. Direct krill and zooplankton sampling. Pages 61-117 in J. Martin, editor. AMLR 1997/1998 Field Season Report: Objectives Accomplishments and Tentative Conclusions. SWFSC Admin. Rep. LJ-98-07.
- Jones, C. D., K.-H. Kock, S. Wilhelms, **K. Dietrich**, P. Kappes, R. P. Hewitt, J. Popp, and C. Rowe. 1998. Bottom trawl survey of the South Shetland Islands. Pages 140-158 in J. Martin, editor. AMLR 1997/1998 Field Season Report: Objectives Accomplishments and Tentative Conclusions. SWFSC Admin. Rep. LJ-98-07.