

# Joseph D. Warren

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**Scientific Interests** Acoustic scattering from biological and physical processes in the water column. Zooplankton and nekton behavior and ecology. Foraging behavior of marine mammals and seabirds. Passive acoustic monitoring of coastal habitats and organisms. Survey design and technology. Application of underwater acoustics to oceanographic problems. Use of sound by marine animals.

**Education** **Massachusetts Institute of Technology (MIT) & Woods Hole Oceanographic Institution (WHOI)** Cambridge, MA  
Woods Hole, MA  
Ph.D. in Applied Ocean Sciences from the Joint Program in Oceanography and Ocean Engineering. February 2001. Thesis advisers : Drs. Timothy K. Stanton (Applied Ocean Physics and Engineering Dept.) and Peter H. Wiebe (Biology Dept.)  
**Harvey Mudd College** Claremont, CA  
B.S. in Engineering (General) with Distinction. May 1994.

**Experience** **Associate Professor** Sep 2011 - Present  
School of Marine and Atmospheric Sciences, Stony Brook University  
**Visiting Researcher** Sep 2015 - Aug 2016  
Florida International University [sabbatical position]  
**Assistant Professor** Sep 2005 - Aug 2011  
School of Marine and Atmospheric Sciences, Stony Brook University  
**Guest Investigator** Oct 2003 - Present  
Biology Dept., Woods Hole Oceanographic Institution  
**Assistant Professor of Marine Science and Physics** Sep 2002 - Aug 2005  
Southampton College, Long Island University  
**Office of Naval Research Postdoctoral Fellow** Oct 2000 - Aug 2002  
Southwest Fisheries Science Center (SWFSC) and WHOI  
**Oceanography Faculty & Chief Scientist** Dec 2000 - Mar 2001  
Sea Education Association, Woods Hole, MA  
**Research Assistant** 1994 - Oct 2000  
Applied Ocean Physics & Engineering Dept., WHOI

**Publications** *S.S. Urmy* and **J.D. Warren** (in revision) "Indirect calibration of hull-mounted ADCPs to measure Antarctic krill biomass: procedures, limitations, and potential benefits." *ICES Student Journal of Marine Science*.  
*co-author*

*M. Niemisto* and **J.D. Warren** (in revision) "Seasonal and annual patterns in fish and crab abundance, assemblage, and distribution in the Hudson River Estuary from 1999 to 2015." *Estuaries and Coasts*.

C. Wirth and **J.D. Warren**. (in revision) “Temporal patterns of biologic and anthropogenic noise on a coral reef in Discovery Bay, Jamaica.” *Journal of the Acoustical Society of America*.

A.N. Rice, S.A. Sethi, **J.D. Warren**, J. Ingles, J. Flores, C. Cusack, and R. Fujita. (in revision) “Site Fidelity of Tropical Herring Drives Ecotourism in a Philippines Coral Reef Marine Reserve” *Coral Reefs*.

C.G. Easson, K.M. Boswell, N. Tucker, **J.D. Warren**, C. Gorbea, A. Lobato, P. Maul, T.T. Sutton, J.V. Lopez. (submitted) “Combined Acoustics and E-DNA Analysis Reflects Diel Vertical Migration of Mixed Consortia in the Gulf of Mexico.” *Frontiers in Marine Science*.

S.S. Urmy and **J.D. Warren** (submitted) “Evaluating the target-tracking performance of scanning avian radars by augmenting data with simulated echoes.” *Methods in Ecology and Evolution*.

G. Rieucou, M.D’Elia, **J.D. Warren**, T.T. Sutton, and K.M. Boswell. (submitted) “Complex vertical commuting of mesopelagic scattering layers: Implications of taxonomic-based migration decisions on global biogeochemical fluxes.” *Frontiers in Marine Science*.

S.S. Urmy and **J.D. Warren** (2019) “Seasonal changes in the biomass, distribution, and patchiness of zooplankton and fish in four lakes in the Sierra Nevada, California.” *Freshwater Biology*. doi:10.1111/fwb.13362

B.M. Lucca and **J.D. Warren**. (2019) “Fishery-independent observations of Atlantic menhaden abundance in the coastal waters south of New York” *Fisheries Research* 218: 229-236. doi:10.1016/j.fishres.2019.05.016

C. Wirth and **J.D. Warren**. (2019) “Overlapping use of an artificial reef by humans and an apex predator (*Tursiops truncatus*) in the New York Bight.” *Marine Mammal Science* 35(1): 271-283. doi:10.1111/mms.12515 [first published online: May 2018]

C. Wirth and **J.D. Warren**. (2018) “Spatial and temporal variation in toadfish (*Opsanus tau*) and cusk eel (*Ophidion marginatum*) mating choruses in eelgrass (*Zostera marina*) beds in a shallow, temperate estuary.” *Bioacoustics*. doi: 10.1080/09524622.2018.1542631

P.S. Segre, A. Bocconcelli, L.S. Hickmott, G. Howes, **J.D. Warren**, and G. Chiang. (2018) “Offshore hummingbird sightings in Chilean Patagonia.” *The Wilson Journal of Ornithology*, 130(3): 796-799. doi: 10.1676/17-066.1

B.M. Lucca and **J.D. Warren**. (2018) “Acoustically-measured distribution and abundance of Atlantic menhaden (*Brevoortia tyrannus*) in a shallow estuary in Long Island, NY” *Estuaries and Coasts*. doi:10.1007/s12237-018-0367-x

S.S. Urmy and **J.D. Warren** (2018) “Foraging hotspots of common and roseate terns: the influence of tidal currents, bathymetry, and prey density.” *Marine Ecology Progress Series*. **590**: 227-245. doi:10.3354/meps12451

K. Owen, A.S. Kavanagh, **J.D. Warren**, M.J. Noad, D. Donnelly, A.W. Goldizen, and R.A. Dunlop. (2017) “Potential energy gain by whales outside of the Antarctic: prey preferences and consumption rates of migrating humpback whales.” *Polar Biology*. **40**: 277-289. doi: 10.1007/s00300-016-1951-9

S.S. Urmy and **J.D. Warren** (2016) “Quantitative ornithology with a commercial marine radar: standard-target calibration, target detection and tracking, and measurement

of echoes from individuals and flocks.” *Methods in Ecology and Evolution*. doi:10.1111/2041-210X.12699

M.D. Elia, **J.D. Warren**, I. Rodriguez-Pinto, T.T. Sutton, A. Cook, and K.M. Boswell. (2016) “Short-term temporal variations in the vertical distribution of deep-water scattering layers in the Gulf of Mexico.” *Deep-Sea Research Part I*. **115**: 91-102. doi:10.1016/j.dsr.2016.05.014

S.S. Urmy, C.E. Williamson, T.H. Leach, S.G. Schladow, E.P. Overholt, and **J.D. Warren**. (2016) “Wildfire smoke changes the vertical distribution of zooplankton in an oligotrophic lake by reducing ultraviolet radiation.” *Geophysical Research Letters*. **43**: 3746-3753. doi:10.1002/2016GL068533

C.E. Williamson, E.P. Overholt, J.A. Brentrup, R.M. Pilla, T.H. Leach, S.G. Schladow, **J.D. Warren**, S.S. Urmy, S. Sadro, S. Chandra, P.J. Neale. (2016) “Sentinel responses to droughts, wildfires, and floods: Ultraviolet radiation and the consequences for lakes and their ecosystem services.” *Frontiers in Ecology and Environment*, **14**(2): 102-109. doi:10.1002/fee.1228

**J.D. Warren**, T.H. Leach, and C.E. Williamson. (2016) “Measuring the distribution, abundance, and biovolume of zooplankton in an oligotrophic freshwater lake with a 710 kHz scientific echosounder.” *Limnology & Oceanography: Methods*. **14**: 231-244. doi:10.1002/lom3.10084

K. Owen, **J.D. Warren**, M.J. Noad, D. Donnelly, A.W. Goldizen, and R.A. Dunlop. (2015) “The effect of prey type on the fine-scale feeding behaviour of migrating east Australian humpback whales.” *Marine Ecology Progress Series* **541**: 231-244. doi:10.3354/meps11551

K.N. Becker and **J.D. Warren** (2015) “Material properties of Pacific hake, Humboldt squid, and two species of myctophids in the California Current.” *Journal of the Acoustical Society of America* **137**(5): 2522-2532. doi: 10.1121/1.4919308

K.N. Becker and **J.D. Warren** (2014) “Material properties of Northeast Pacific zooplankton.” *ICES Journal of Marine Science* **71**(9): 2550-2563. doi: 10.1093/icesjms/fsu109

J.L. Miksis-Olds, P.J. Stabeno, J.M. Napp, A. Pinchuk, J.A. Nystuen, **J.D. Warren**, S.L. Denes (2013) “Ecosystem response to a temporary sea ice retreat in the Bering Sea: Winter 2009.” *Progress in Oceanography* **111**: 38-51. doi:10.1016/j.pocean.2012.10.010

J.N. Smith, P.H. Ressler, and **J.D. Warren** (2013) “A distorted wave Born approximation target strength model for Bering Sea euphausiids.” *ICES Journal of Marine Science* **70**(1): 204-214. doi:10.1093/icesjms/fss140

**J.D. Warren** (2012) “Counting critters in the sea using active acoustics.” *Acoustics Today* Volume 8. Issue 3. 25-34. doi: 10.1121/1.4753914 [lay-language article]

P.H. Ressler, A. De Robertis, **J.D. Warren**, J.N. Smith, and S. Kotwicki (2012) “Developing an acoustic survey of euphausiids to understand trophic interactions in the Bering Sea ecosystem.” *Deep Sea Research II*. **65-70**: 184-195. doi: 10.1016/j.dsr2.2012.02.015

S.E. Parks, **J.D. Warren**, K. Stamieszkin, C.A. Mayo, D. Wiley (2012) “Dangerous dining: surface foraging of North Atlantic right whales increases risk of vessel collisions.” *Biology Letters* **8**(1): 57-60. doi:10.1098/rsbl.2011.0578

J.N. Smith, P.H. Ressler, and **J.D. Warren** (2010) “Material properties of Bering Sea euphausiids and other zooplankton.” *Journal of the Acoustical Society of America*. **128**(5):2664-2680. doi: 10.1121/1.3488673

**J.D. Warren** and D.A. Demer (2010) “Abundance and Distribution of Antarctic krill (*Euphausia superba*) nearshore of Cape Shirreff, Livingston Island, Antarctica during six Austral summers between 2000-2007.” *Canadian Journal of Fisheries and Aquatic Sciences* **67**(7):1159-1170. doi: 10.1139/F10-042

K.A. Forman and **J. D. Warren** (2010) “Variability in the density and sound speed of coastal zooplankton and nekton.” *ICES Journal of Marine Science* **67**(1):10-18. doi: 10.1093/icesjms/fsp217

M.J. Cox, **J.D. Warren**, D.A. Demer, G.R. Cutter, and A.S. Brierley (2010) “Three dimensional observations of Antarctic krill (*Euphausia superba*) swarms using a multi-beam echosounder.” *Deep Sea Res. II* **57**:508-518. doi: 10.1016/j.dsr2.2009.10.003

M.J. Cox, D.A. Demer, **J.D. Warren**, G.R. Cutter, and A.S. Brierley (2009) “Multibeam echosounder observations of Antarctic krill (*Euphausia superba*) swarms and interactions between krill and air breathing predators.” *Marine Ecology Progress Series* **378**: 199-209. doi: 10.3354/meps07795

**J.D. Warren**, J. A. Santora and D. A. Demer (2009) “Submesoscale distribution of Antarctic krill and its avian and pinniped predators before and after a near gale.” *Marine Biology* **156**, 479-491. doi: 10.1007/s00227-008-1102-0

**J. D. Warren** and P. H. Wiebe (2008) “Accounting for biological and physical sources of acoustic scattering improves estimates of zooplankton biomass” *Canadian Journal of Fisheries and Aquatic Sciences* **65**, 1321-1333. doi:10.1139/F08-047

**J. D. Warren** and J. N. Smith (2007) “Density and sound speed of two gelatinous zooplankton: ctenophore (*Mnemiopsis leidyi*) and lion’s mane jellyfish (*Cyanea capillata*)” *Journal of the Acoustical Society of America* **122**(1), 574-580.

**J. D. Warren** and B. J. Peterson (2007) “Use of a 600 kHz Acoustic Doppler Current Profiler to measure estuarine bottom type, relative abundance of submerged aquatic vegetation, and eelgrass canopy height” *Estuarine, Coastal and Shelf Science* **72**, 53-62.

E. E. Peacock, R. K. Nelson, A. R. Solow, **J. D. Warren**, J. L. Baker, and C. M. Reddy (2005) “The West Falmouth oil spill: ~ 100 Kg of oil found to persist decades later” *Environmental Forensics* **6**, 273-281.

G.L. Lawson, P. H. Wiebe, C. J. Ashjian, S. M. Gallager, C. S. Davis, and **J. D. Warren** (2004) “Acoustically-inferred zooplankton distribution in relation to hydrography west of the Antarctic peninsula” *Deep Sea Research II* **51**, 2041-2072.

**J. D. Warren**, D. A. Demer, D. E. McGehee, R. Di Mento, and J. F. Borsani (2004) “Zooplankton in the Ligurian Sea: Part II. Exploration of their physical and biological forcing functions during summer 2000” *Journal of Plankton Research* **26**, 1419-1427.

D.E. McGehee, D.A. Demer, and **J.D. Warren** (2004) “Zooplankton in the Ligurian Sea: Part I. Characterization of their dispersion, relative abundance, and environment during summer 1999” *Journal of Plankton Research* **26**, 1409-1418.

**J. D. Warren**, T. K. Stanton, P. H. Wiebe, and H. E. Seim (2003) “Inference of biological and physical parameters in an internal wave using multiple frequency acoustic scattering data” *ICES Journal of Marine Science* **60**, 1033-1046.

P.H. Wiebe, T. K. Stanton, C. H. Greene, M. C. Benfield, H. M. Sosik, T. C. Austin, **J. D. Warren**, and T. Hammer (2002) “BIOMAPER-II: an integrated instrument platform

for coupled biological and physical measurements in coastal and oceanic regimes.” *IEEE Journal of Oceanic Engineering* **27**(3), 700-716.

**J.D. Warren**, T. K. Stanton, D. E. McGehee, and D. Chu (2002) “Effect of animal orientation on acoustic estimates of zooplankton properties.” *IEEE Journal of Oceanic Engineering* **27**(1), 130-138.

**J.D. Warren**, T. K. Stanton, M. C. Benfield, P. H. Wiebe, D. Chu, and M. Sutor (2001) “*In situ* measurements of acoustic target strengths of gas-bearing siphonophores.” *ICES Journal of Marine Science* **58**(4), 740-749.

T.K. Stanton, D. Chu, P. H. Wiebe, R. L. Eastwood, and **J. D. Warren** (2000) “Acoustic scattering by benthic and planktonic shelled animals.” *Journal of the Acoustical Society of America* **108**, 535-550.

J.F. Lynch, J. D. Irish, T. F. Gross, P. L. Wiberg, A. E. Newhall, P. A. Traykovski and **J. D. Warren** (1997) “Acoustic measurements of the spatial and temporal structure of near-bottom boundary layer in the 1990-1991 STRESS experiment.” *Continental Shelf Research* **17**, 1271-1295.

## Current Funding

NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION \$11,174,968  
L. Thorne, J. Nye, C. Flag, **J.D. Warren**, “Development and implementation of an ocean ecosystem monitoring program for New York Bight.” Oct 2017 - Sep 2026.

NOAA OCEAN EXPLORATION \$290,621 (total) \$29,012 (SBU share)  
C. Roman (URI), B. Seibal (URI), **J.D. Warren**, “Integration of acoustic echosounding into the Wire Flyer profiling vehicle to investigate scattering layer distribution and oxygen coupling.” Sep 2017 - Aug 2019.

NATIONAL OCEAN PARTNERSHIP PROGRAM \$6,500,000 (total) \$559,316 (SBU share)  
J.L. Miksis-Olds (UNH), B. Martin (JASCO), **J. Warren**, K.D. Heaney (OASIS Inc.), A.P. Lyons (UNH), M.A. Ainslie (TNO), E. Hazen (NOAA), C. Ware (UNH), T. Butkiewicz (UNH), T.S. Moore (UNH), “Atlantic Deepwater Ecosystem Observing Network.” Oct 2016 - Sep 2021.

NORTH PACIFIC RESEARCH BOARD \$342,587 (total) \$247,787 (SBU share)  
**J. Warren**, P. Ressler (NOAA), G. Gibson (U. Alaska-Fairbanks), R. Harvey (Old Dominion Univ.), “How many krill are there in the Bering Sea and the Gulf of Alaska ? Quantitative acoustic assessment of euphausiid abundance and their role in these ecosystems.” Jul 2015 - Dec 2019.

## Previous Funding

SEATUCK ENVIRONMENTAL ASSOCIATION \$4,912  
**J. Warren**, “Seafloor habitat characterization around Montauk Point.” May 2017 - Apr 2018.

NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION \$175,000  
**J. Warren**, B.J. Peterson, and D. Chapman, “Assess the most cost effective, repeatable and appropriate biological assessment methods and sampling procedures to monitor Fishes, Crustaceans, and Epibenthic Organisms on Artificial Reefs on the Atlantic Beach and Hempstead Reefs” Jul 2014 - May 2017.

OFFICE OF NAVAL RESEARCH \$1,334,567 (total) \$342,295 (SBU Share)  
 K. Benoit-Bird (OSU), **J. Warren**, D. Chu (NOAA). “Acoustical scattering, propagation, and attenuation caused by two abundant Pacific schooling species: Humboldt squid and hake,” Oct 2010 - Nov 2016.

UNIVERSITY OF ALASKA FOUNDATION \$8,878  
 H. Pearson, T. Haynes, J. Roman, and **J. Warren**, “The Role of Avian Predators in Nutrient Transport in a Glacially Fed Southeast Alaska Estuarine Ecosystem.” Mar 2015 - Feb 2016.

NATIONAL SCIENCE FOUNDATION - DIVISION OF ENVIRONMENTAL BIOLOGY \$140,000  
 PIs: C.E. Williamson and S.G. Schladow [Senior Personnel: **J. Warren**], “RAPID: Assessing Sentinel Responses of Lake Ecosystems to the Rim Wildfire” Nov 2013 - Oct 2014.

HUDSON RIVER FOUNDATION \$2,769  
**J. Warren**, “Purchase of a multiple frequency acoustic transducer to be mounted on the SV Clearwater for surveys of biological organisms throughout the Hudson River Estuary.” Aug 2013 - Dec 2014.

NATIONAL SCIENCE FOUNDATION - OFFICE OF POLAR PROGRAMS \$205,191  
**J. Warren** “Acoustic Assessment of Southern Ocean Salps and Their Ecosystem Impact,” Sep 2010 - Aug 2013.

OFFICE OF NAVAL RESEARCH \$220,985  
**J. Warren** “Fine-scale Survey of Right and Humpback Whale Prey Abundance and Distribution,” Feb 2009 - Aug 2011.

NATIONAL MARINE FISHERIES SERVICE, ALASKA FISHERIES SCIENCE CENTER \$85,099  
**J. Warren** “Modeling the Target Strength of Bering Sea euphausiids,” June 2008 - Jan 2010.

NATIONAL SCIENCE FOUNDATION OFFICE OF POLAR PROGRAMS #06-33939 \$440,000  
**J. Warren** and D. Demer (Southwest Fisheries Science Center) “Improving acoustic estimates of Antarctic krill populations,” Oct 2004 - Sep 2007.

NEW YORK SEA GRANT \$50,000  
**J. Warren** and R. Turner (Southampton College). “Physical, Sedimentary, and Hydrologic Impacts of Barrier Island Breach Events on Long Island Estuaries,” Mar 2004 - Sep 2005.

UNIVERSITY OF NEW HAMPSHIRE CICEET PROGRAM \$19,890  
**J. Warren** and B. Peterson (Southampton College). “Use of Acoustic Backscatter Surveys to Measure Changes in Submerged Aquatic Vegetation and Habitat in a Shallow-water Estuary,” Apr 2003 - Nov 2004.

OFFICE OF NAVAL RESEARCH POSTDOCTORAL FELLOWSHIP \$74,000  
**J.D. Warren** and R. W. Schmitt (WHOI) “Discrimination of Biological and Physical Sources of Acoustic Scattering in Shallow-Water Regions by Multiple Frequency Acoustic Data,” Oct 2000 - Aug 2002.

OFFICE OF NAVAL RESEARCH GRADUATE FELLOWSHIP \$77,000  
**J.D. Warren**. “Estimating the Zooplankton and Turbulence in a Shallow Water Coastal Region from High Frequency Acoustic, Video, and Environmental Data,” 1997 - 1999.

**Conference  
 Presentations**  
*Student  
 co-author*

*B. Lucca*, **J.D. Warren**. “Measuring abundance, biomass, and distribution of fish using active acoustics in the coastal waters of Long Island, New York.” Northeast Regional Environmental Acoustics Symposium, Brown University, Providence, RI. May 2019.

*H. Blair*, **J.D. Warren**, J. Miksis-Olds. “Measuring spatial variability in shelf-break mesopelagic ecosystems using active acoustics.” Northeast Regional Environmental Acoustics Symposium, Brown University, Providence, RI. May 2019.

**J.D. Warren**. “Echosounder measurements of krill abundance provide information on potential energy gain by foraging baleen whales.” Northeast Regional Environmental Acoustics Symposium, Brown University, Providence, RI. May 2019.

J.L. Miksis-Olds, M.A. Ainslie, B. Martin, **J.D. Warren**, A. Lyons, and K.D. Heaney. “Atlantic Deepwater Ecosystem Observatory Network (ADEON): An integrated acoustic observation system on the U.S. Southeastern Atlantic Outer Continental Shelf.” Northeast Regional Environmental Acoustics Symposium, Brown University, Providence, RI. May 2019.

P.H. Ressler, **J.D. Warren**, *B. Lucca*, H.R. Harvey, G.A. Gibson. “How many krill are there in the eastern Bering Sea and Gulf of Alaska ?” ICES Working Group on Fisheries Acoustics, Science, and Technology. Galway, Ireland. May 2019.

P.H. Ressler, **J.D. Warren** [presenter], *B. Lucca*, H.R. Harvey, G.A. Gibson. “How many krill are there in the Bering Sea and Gulf of Alaska ?” Alaska Marine Science Symposium, Anchorage, AK. Jan 2019.

*B. Lucca*, **J.D. Warren**, P.H. Ressler, H.R. Harvey, G.A. Gibson. “An improved Target Strength model for sub-Arctic krill validated by ship-board backscatter and material property measurements from individual animals.” Alaska Marine Science Symposium, Anchorage, AK. Jan 2019.

H.R. Harvey, **J.D. Warren**, P.H. Ressler, G.A. Gibson, *B. Lucca*, R. McMahon, R. Pleuthner. “How many krill are there in the Bering Sea and Gulf of Alaska? Target Strength Calibration through Parallel Measures of Intact Lipid Classes and Acoustic Profiles of Individual Euphausiids.” Alaska Marine Science Symposium, Anchorage, AK. Jan 2019.

A. Širović, S. Baumann-Pickering, **J.D. Warren**. “Predator-prey Interactions in the Southern California Bight.” 176th Meeting of the Acoustical Society of America, Victoria, Canada. Nov 2018.

A. Bocconcelli, F. Caruso, L. Sayigh, R. Landea, G. Chiang, P. Bahamonde, G. Howes, P. Segre, **J. Warren**, and L. Hickmott. “Ship strike risk for blue whales (*Balaenoptera musculus*) in northern Chilean Patagonia is a growing concern.” 32nd Annual Conference of the European Cetacean Society, La Spezia, Italy. Apr 2018.

P.H. Ressler, **J.D. Warren**, *B.M. Lucca*, H.R. Harvey, and G.A. Gibson. “How many krill are there in the eastern Bering Sea and Gulf of Alaska ?” ICES Working Group of Fisheries Acoustics, Science, and Technology, Seattle, WA. Mar 2018.

*S.S. Urmey* and **J.D. Warren**. “Individual and Collective Foraging Behaviors of Common Terns: New Insights from Habitat Models and High-Resolution Radar.” 2018 Ocean Sciences Meeting, Portland, OR. Feb 2018.

**J.D. Warren**, *B.M. Lucca*, P.H. Ressler, H.R. Harvey, and G.A. Gibson. “How many krill are there in the Bering Sea and Gulf of Alaska ? Field observations and acoustic calibration of

krill and their composition in 2016 and 2017.” Alaska Marine Science Symposium, Anchorage, AK. Jan 2018.

**J. D. Warren**, G. Chiang, P. Segre, L. Hickmott, A. Bocconcelli, G. Howes, P. Bahamonde, and J. Goldbogen. “Blue whale (*Balaenoptera musculus*) foraging movements in the Gulf of Corcovado, Chile are closely related to the distribution and abundance of krill.” 22nd Biennial Conference on the Biology of Marine Mammals. Halifax, Canada. Oct 2017.

A. Bocconcelli, F. Caruso, L. Sayigh, R. Landea-Briones, G. Chiang, P. Bahamonde, G. Howes, P. Segre, **J.D. Warren**, and L. Hickmott. “Day and night diving behavior of blue whales (*Balaenoptera musculus*) in the Chiloense Ecoregion of southern Chile.” 22nd Biennial Conference on the Biology of Marine Mammals. Halifax, Canada. Oct 2017.

**J.D. Warren** and G. Chiang[presenter]. “A cost-effective, non-invasive method for identification of critical habitats of pelagic organisms (foraging “hot spots”) in the Golfo de Corcovado and Golfo de Ancud, Chile using fisheries echosounders.” 4th International Marine Protected Areas Congress (IMPAC4). La Serena-Coquimbo, Chile. Sep 2017.

C. Wirth and **J.D. Warren**. “Passive acoustic monitoring finds concurrent use of an artificial reef in the New York Bight by foraging humans and odontocetes (*Tursiops truncatus*).” Acoustics ‘17 – The 3rd Joint Meeting of the Acoustical Society of America and the European Acoustics Association. Boston, MA. Jun 2017.

**J.D. Warren**, K. Hartigan, and C. Wirth. “Not all snaps are from shrimp: Broadband, impulsive sounds from different benthic organisms can provide information on animal presence and behavior.” Acoustics ‘17 – The 3rd Joint Meeting of the Acoustical Society of America and the European Acoustics Association. Boston, MA. Jun 2017.

B. M. Lucca, H. Blair, and **J.D. Warren**. “Acoustic quantification of abundance, biomass, and size class of Atlantic menhaden (*Brevoortia tyrannus*) in a shallow estuary in Long Island, New York.” Acoustics ‘17 – The 3rd Joint Meeting of the Acoustical Society of America and the European Acoustics Association. Boston, MA. Jun 2017.

**J.D. Warren**. “Not all krill are “superb”: Variability in Antarctic, sub-Arctic, and temperate krill material properties can cause erroneous acoustic estimates of krill biomass.” 3rd International Symposium on Krill. St. Andrews, Scotland. Jun 2017.

K.M. Boswell, G. Rieucan, M. D’Elia, **J.D. Warren**, and T.T. Sutton. “Examining complex vertical movements of mesopelagic scattering layers: From Taxonomic-based migration decisions to global biological fluxes.” Association for the Sciences of Limnology and Oceanography, Honolulu, HI. Feb 2017.

G. Rieucan, M. D’Elia, **J.D. Warren**, T.T. Sutton, and K.M. Boswell. “DEEPEND: Complex vertical movements of mesopelagic scattering layers: from taxonomic-based migration decisions to global biological fluxes.” Gulf of Mexico Oil Spill and Ecosystem Science Conference, New Orleans, LA. Feb 2017.

**J.D. Warren**, P.H. Ressler, H.R. Harvey, G.A. Gibson, and B.M. Lucca. “How many krill are there in the Bering Sea and Gulf of Alaska ? Preliminary field observations from summer 2016 and implications for ecosystem-wide measurements.” Alaska Marine Science Symposium, Anchorage, AK. Jan 2017.

S.S. Urmay and **J.D. Warren**. “The influence of tidal currents, bathymetry, and prey density on the feeding hotspots of common and roseate terns (*Sterna hirundo* and *S. dougallii*).” Ecological Society of America annual meeting, Fort Lauderdale, FL. Aug 2016.



*S.S. Urmy* and **J.D. Warren**. “Confronting models of central-place foraging in seabirds with data from a high-resolution radar.” North American Ornithological Conference, Washington, DC. Aug 2016.

*S.S. Urmy*, C.W. Williamson, T.D. Leach, S.G. Schladow, E.P. Overholt, and **J.D. Warren**. “Wildfire smoke changes the vertical distribution of zooplankton in an oligotrophic lake by reducing ultraviolet radiation.” Association for the Sciences of Limnology and Oceanography Summer Meeting, Santa Fe, NM. Jun 2016.

**J.D. Warren**, B.J. Peterson, J.M. Carroll, and A.D. Stubler. “Recovery, Resiliency, and Reggae: Is the Discovery Bay, Jamaica coral reef ecosystem recovered and able to withstand natural perturbations ?” 45th annual Benthic Ecology Meeting, Portland, ME. Mar 2016.

*M. Niemisto* and **J.D. Warren**. “Spatial and temporal variability in acoustic backscatter from fish and zooplankton in the Hudson River estuary from August 2013 to October 2015.” 50th Annual Meeting New York Chapter of American Fisheries Society. Cooperstown, NY. Feb 2016.

*B.M. Lucca* and **J.D. Warren**. “Acoustic measurements of the distribution and abundance of Atlantic menhaden (*Brevoortia tyrannus*) in the Peconic River and Estuary in Long Island, NY.” 50th Annual Meeting New York Chapter of American Fisheries Society. Cooperstown, NY. Feb 2016.

**J.D. Warren**, K. M. Boswell, and T. E. Sutton. “Using multiple-frequency, broadband acoustic backscatter to identify and quantify the organisms composing the deep sea mesopelagic scattering layers in the Gulf of Mexico.” Gulf of Mexico Oil Spill and Ecosystem Science Conference. Tampa, FL. Feb 2016.

**J.D. Warren**, M. D’elia [presenting author], K. Boswell. “Acoustic measurement and classification of migrating epipelagic and mesopelagic scattering layers in the Gulf of Mexico.” ICES Symposium on Marine Ecosystem Acoustics. Nantes, France. May 2015.

**J.D. Warren**, *E. McCauley*, A.D. Stubler, B.J. Peterson, and J.M. Carroll. “What’s making all that racket ? Pairing video and passive acoustic monitoring to identify coral reef fish sounds and feeding behaviors.” 44th annual Benthic Ecology Meeting, Quebec City, Canada. Mar 2015.

K.M. Boswell, M. D’Elia, **J.D. Warren**, and T. Sutton. “Temporal variations in the vertical distribution of deep scattering layers in the Gulf of Mexico.” 2015 Gulf of Mexico Oil Spill and Ecosystem Science Conference. Houston, TX. Feb 2015.

**J.D. Warren**, K.M. Boswell, and M. D’Elia. “Looking into the DEEPEND with sound: Acoustic Surveys of Marine Organisms.” DEEPEND Consortium Meeting. Ft. Lauderdale, FL. Feb 2015.

**J.D. Warren** and S.E. Parks. “Right whale feeding behavior provides information about their prey detection capabilities (and method?).” North Atlantic Right Whale Consortium Annual Meeting. New Bedford, MA. Nov 2014.

T.H. Leach, **J.D. Warren**, J.A. Brenttrup, and C. E. Williamson. “High-resolution acoustic and environmental data provide insight into vertical distributions and diel migrations of zooplankton.” Global Lake Ecological Observatory Network XVI meeting. Orford, Canada. Oct 2014.

- J.D. Warren**, S.E. Parks, H. Pearson, and K. Owen. “Follow the food: Effects of fish and zooplankton on the behavioral ecology of baleen whales.” 168th Meeting of the Acoustical Society of America. Indianapolis, IN. Oct 2014. **Invited Talk**
- S.S. Urmy and **J.D. Warren**. “Indirect calibration of backscatter measurements from acoustic Doppler current profilers, with application to Antarctic krill biomass estimation.” ICES Working Group on Fisheries Acoustics, Science, and Technology. New Bedford, Massachusetts. May 2014.
- J.D. Warren** and K.N. Becker. “A tale of two coasts: Material properties of North Pacific nekton and zooplankton and coastal Atlantic forage fish.” ICES Working Group on Fisheries Acoustics, Science, and Technology. New Bedford, Massachusetts. May 2014.
- S.S. Urmy and **J.D. Warren**. “Model-based and in-situ observations of high-frequency (10s–100s kHz) acoustic scattering from multiple targets.” 167th Meeting of the Acoustical Society of America. Providence, Rhode Island. May 2014.
- K.N. Becker and **J.D. Warren**. “Material properties of Pacific hake, Humboldt squid, and two species of myctophids in the California Current.” 167th Meeting of the Acoustical Society of America. Providence, Rhode Island. May 2014.
- J.D. Warren**, K.N. Becker, D. Chu, K. Benoit-Bird. “Acoustic scattering characteristics of pelagic and coastal nekton.” 167th Meeting of the Acoustical Society of America. Providence, Rhode Island. May 2014.
- P.H. Ressler, A.I. Pinchuk, G.A. Gibson, and **J.D. Warren**. “How many euphausiids are there (really) in the eastern Bering Sea ?” Bering Sea Open Science Meeting. Honolulu, Hawaii. February 2014.
- J.D. Warren** and S. E. Parks. “Right whales at a buffet go back for seconds: Fine-scale foraging behavior of North Atlantic Right Whales relative to prey abundance.” 20th Biennial Conference on the Biology of Marine Mammals. Dunedin, New Zealand. 9-13 Dec 2013.
- Tyson, R. B., Friedlaender, A. S., Ware, C., Stimpert, A. K., Hazen, E., **Warren, J.D.**, Curtice, C., and Nowacek, D. P. “Do optimal foraging theory and prey densities predict the fine-scale foraging behaviors of humpback whales in the Western Antarctic Peninsula ?” 20th Biennial Conference on the Biology of Marine Mammals. Dunedin, New Zealand. 9-13 Dec 2013.
- K. Owen, M. Noad, A. Goldizen, D. Donnelly, **J. Warren**, R. Dunlop. “Fast food not so appealing for migrating cetaceans? The impact of prey species on migratory feeding behaviour.” 20th Biennial Conference on the Biology of Marine Mammals. Dunedin, New Zealand. 9-13 Dec 2013.
- T.H. Leach, **J.D. Warren**, and C. E. Williamson. “Acoustic detection of diel vertical migration of freshwater zooplankton: Integrating automated acoustic technology with current buoy platforms.” Global Lake Ecological Observatory Network XIV meeting. Mulranny, Ireland. Oct 2012.
- J.L. Miksis-Olds, S.L. Denes, and **J.D. Warren** (2012) “A comparison of community structure from the southeastern and central Bering Sea shelf: Insights gained from acoustic backscatter.” Acoustics 2012 Meeting, Hong Kong, May 2012.
- J.D. Warren** (2012) “Fine-Scale Survey of Right and Humpback Whale Prey Abundance and Distribution.” Office of Naval Research Marine Mammal Program Review, Washington, DC. April 2012.

- J.D. Warren** and S.E. Parks. (2012) “Quantification of zooplankton prey abundance and the behavior of North Atlantic Right Whales in Cape Cod Bay.” TOS/ASLO/AGU 2012 Ocean Sciences Meeting. Salt Lake City, Utah. February 2012.
- J.L. Miksis-Olds, S.L. Denes, J. A. Nystuen, and **J.D. Warren**. (2011). “Ecosystem monitoring: Providing the proper context for interpreting behavioral responses of marine mammals.” 19th Biennial Conference on the Biology of Marine Mammals. Tampa, FL. Nov 2011.
- J.D. Warren** (presenting for T. Ross) (2011). “Building a sound and breaking it down.” 161st Meeting of the Acoustical Society of America. Education in Acoustics and Committee on Women in Acoustics: Listen Up and Get Involved educational session for local Girl Scouts. Seattle, WA. May 2011.
- J.L. Miksis-Olds and **J.D. Warren** (2011). “Characterizing biological scatter before, during, and after a temporary ice retreat in the Bering Sea.” 161st Meeting of the Acoustical Society of America. Seattle, WA. May 2011.
- J.D. Warren** and M. Patrician (2011). “Multiple frequency acoustic backscatter discrimination of zooplankton and fish scatterers in Cape Cod Bay in Spring 2010.” Acoustic Challenges in Aquatic Ecosystem Assessment, a Joint Special Workshop of the Acoustical Society of America and the American Fisheries Society. Seattle, WA. May 2011.
- J.D. Warren**, S.E. Parks, D.P. Nowacek, and A.S. Friedlaender. (2011). “Interactions between nekton and zooplankton aggregations and individual baleen whale predators in temperate and polar environments.” ICES-FAO Working Group on Fisheries Acoustics Science and Technology. Reykjavik, Iceland. May 2011.
- J.D. Warren**, S.E. Parks, D. Wiley, D.P. Nowacek, and A.S. Friedlaender. (2011). “Measurements of zooplankton preyfield densities over small spatial and temporal scales and their effect on the behavior of individual baleen whale predators.” 5th International Zooplankton Production Symposium. Pucon, Chile. Mar 2011.
- P.H. Ressler, A. De Robertis, P.J. Stabeno, **J.D. Warren**, J.N. Smith, and S. Kotwicki. (2011). “Using an Acoustic Index of Euphausiid Abundance to Understand the Impact of Fish Predation and the Climate Conditions on the Euphausiid Standing Stock of the Bering Sea Shelf.” 5th International Zooplankton Production Symposium. Pucon, Chile. Mar 2011. [JDW poster presenter]
- J.D. Warren**, S.E. Parks, and J. Miksis-Olds. (2010). “Distribution and spatial characteristics of zooplankton and nekton aggregations in Cape Cod Bay during the spring of 2010.” 160th meeting of the Acoustical Society of America. Cancun, Mexico. Nov 2010.
- J. L. Miksis-Olds and **J.D. Warren** (2010). “Characterizing biological scatter before, during, and after a temporary ice retreat in the Bering Sea.” 160th meeting of the Acoustical Society of America. Cancun, Mexico. Nov 2010.
- J.D. Warren**, S.E. Parks, M. Patrician, A. Bocconcelli, and D. Wiley. (2010). “Correlation of Zooplankton Prey Abundance and Distribution with the Behavior of Tagged Right Whales in Cape Cod Bay During Spring 2010.” North Atlantic Right Whale Consortium Meeting. New Bedford, MA. Nov 2010.
- S.E. Parks, D. Wiley, **J.D. Warren**, M. Weinrich, and A. Bocconcelli. (2010). “Behavioral Differences of Foraging North Atlantic Right and Humpback Whales in April 2009 and 2010.” North Atlantic Right Whale Consortium Meeting. New Bedford, MA. Nov 2010.

P.H. Ressler, A. De Robertis, **J.D. Warren**, J.N. Smith, and S. Kotwicki. (2010). "Using an acoustic index of euphausiid abundance to understand trophic interactions in the Bering Sea ecosystem." ICES Working Group on Fisheries Acoustics, Science, and Technology Meeting. San Diego, CA. Apr 2010.

**J.D. Warren**, J.N. Smith, and P.H. Ressler (2010). "Measurements of physical properties of Bering Sea zooplankton and their use to improve estimates of euphausiid Target Strength." ICES Working Group on Fisheries Acoustics, Science, and Technology Meeting. San Diego, CA. Apr 2010.

**J.D. Warren**, J.N. Smith, P.H. Ressler, and D.A. Demer (2010). "Improved Assessment of Arctic and Antarctic Zooplankton: From Acoustic Scattering Models to a Better Understanding of Polar Ecosystems." 159th meeting of the Acoustical Society of America, Baltimore, MD. Apr 2010. [Invited Presentation]

**J.D. Warren**, J.N. Smith, and P.H. Ressler (2010). "Are fat krill "loud": Effect of food availability on the acoustic scattering properties of krill and implications for acoustic assessment of zooplankton biomass." 2010 AGU/ASLO/TOS Ocean Sciences Meeting, Portland, OR. Feb 2010.

**J.D. Warren** (2009) "Fine-scale survey of right and humpback whale prey abundance and distribution." Marine Mammals and Biological Oceanography Program Review, Office of Naval Research, Alexandria, Virginia, December 2009.

**J.D. Warren**, M. J. Cox, D. A. Demer, G. R. Cutter, and A. S. Brierley (2009). "Single- and multi-beam echosounder assessment of Antarctic krill aggregations." 158th Meeting of the Acoustical Society of America. San Antonio, TX, October 2009.

**J.D. Warren**, J.A. Santora, D.A. Demer, and S.E. Parks (2009). "Active acoustic assessment of zooplankton prey abundance and distribution relative to the presence and behavior of cetacean, pinniped, or other predators in polar and temperate coastal waters." 18th Biennial Conference on the Biology of Marine Mammals, Quebec, Canada, October 2009.

**J.D. Warren**, J.N. Smith, and P.H. Ressler (2009). "Density and soundspeed measurements of various Bering Sea zooplankton." 157th Meeting of the Acoustical Society of America, Portland, OR. May 2009.

J.N. Smith, P.H. Ressler, and **J.D. Warren** (2009). "Assessing the Variability in the Material Properties of Bering Sea Euphausiids to Improve Acoustic Scattering Models," Alaska Marine Science Symposium, Anchorage, AK, January 2009.

**J.D. Warren**, J.N. Smith, and P.H. Ressler (2009). "Improving Acoustic Scattering Models for Various Bering Sea Zooplankton." Alaska Marine Science Symposium, Anchorage, AK, January 2009.

J.N. Smith and **J.D. Warren** (2007). "Measurement of material properties of two gelatinous coastal zooplankton." 154th Meeting of the Acoustical Society of America, New Orleans, LA, November 2007. Awarded Best Student Paper (J.N. Smith).

M.J. Cox, D.A. Demer, **J. Warren**, G. Cutter and A.S. Brierley (2007). "Characterising the three dimensional structure of Antarctic krill (*Euphausia superba*) swarms." 4th International Zooplankton Production Symposium, Hiroshima, Japan, June 2007.

**J.D. Warren** and D.A. Demer (2007). "Small vessel surveys of krill populations near Livingston Island." ICES Working Group on Fisheries Acoustics, Science and Technology, Dublin, Ireland, April 2007.

J.A. Santora, W.Z. Trivelpiece, and **J.D. Warren** (2006). "Corroboration of simultaneous satellite tracking and ship-based surveys for estimating chinstrap penguin (*Pygoscelis antarctica*) distribution and correlation with Antarctic krill." SCAR XXIX, Hobart, Tasmania, July 2006.

**J.D. Warren**, J. Santora, and D.A. Demer (2006) "Predator and prey interactions in the Antarctic krill ecosystem." Ocean Sciences Meeting, Honolulu, Hawaii, February 2006.

**J.D. Warren**, J. Santora, and D.A. Demer (2005) "Where should we eat?: Predator and prey spatial relationships in the Antarctic krill ecosystem." 150th Meeting of the Acoustical Society of America, Minneapolis, Oct 2005.

Y. Tremblay, M.E. Goebel, B. L. McDonald, D. P. Costa, **J. D. Warren**, C. Reiss, J. Santora, and D. A. Demer (2005) "Antarctic fur seals foraging at the southern limit of their range: A study combining behavior and oceanography." 9th SCAR International Biology Symposium, Curitiba, Brazil, July 2005.

**J. D. Warren** and D. A. Demer (2005) "A nearshore observatory for Antarctic krill: Analysis of the spatial variability in their distribution and abundance." 149th Meeting of the Acoustical Society of America, Vancouver, May 2005.

**J. D. Warren** and B. J. Peterson (2004) "Use of a 600-kHz ADCP to characterize submerged aquatic vegetation in a very shallow estuary." 148th Meeting of the Acoustical Society of America, San Diego, Nov 2004.

**J. D. Warren** and D. A. Demer (2004) "Nearshore krill distribution around Livingston Island, Antarctica." 147th Meeting of the Acoustical Society of America, New York City, May 2004.

**J. D. Warren** and D. A. Demer (2003) "Factors controlling krill distributions in the nearshore waters of Livingston Island, Antarctica." Third International Zooplankton Production Symposium, May 2003, Gijon, Spain.

G.L. Lawson, P.H. Wiebe, C.J. Ashjian, S.M. Gallager, C.S. Davis, and **J.D. Warren**. (2003) "Distribution, composition, and patch structure of zooplankton on the Western Antarctic Peninsula continental shelf, with emphasis on Antarctic krill." Third International Zooplankton Production Symposium, May 2003, Gijon, Spain.

**J. D. Warren**, D. A. Demer, D. E. McGehee, R. Di Mento, and J. F. Borsani. (2002) "Biological and physical factors affecting the distribution of *Meganctiphanes norvegica* and other zooplankton in the Ligurian Sea in late summer 2000." ICES Symposium on Acoustics in Fisheries and Aquatic Ecology, June 2002, Montpellier, France.

G. L. Lawson, P.H. Wiebe, C.J. Ashjian, S.M. Gallager, C.S. Davis, and **J.D. Warren**. (2002) "Broad-scale distribution of zooplankton acoustic backscattering in relation to hydrography west of the Antarctic Peninsula." ICES Symposium on Acoustics in Fisheries and Aquatic Ecology, June 2002, Montpellier, France.

G.L. Lawson, P.H. Wiebe, C.J. Ashjian, S.M. Gallager, C.S. Davis, and **J.D. Warren**. (2002) "Acoustically inferred zooplankton distribution in relation to hydrography." Fourth U.S. Southern Ocean GLOBEC Science Investigator Meeting, Arlington, Virginia.

G.L. Lawson, P.H. Wiebe, C.J. Ashjian, S.M. Gallager, C.S. Davis, and **J.D. Warren**. (2002) "Broad-scale distribution of zooplankton acoustic backscattering in continental shelf

waters of the Western Antarctic Peninsula during austral fall and winter 2001.” American Society of Limnology and Oceanography/American Geophysical Union Ocean Sciences Meeting, Honolulu, Hawaii.

**J.D. Warren**, A.C. Lavery, R.W. Schmitt, and T.K. Stanton. (2001) “Laboratory measurements of acoustic scattering from a sharp, double-diffusive temperature and salinity gradient.” 142nd Meeting of the Acoustical Society of America, December 2001, Ft. Lauderdale, FL.

**J.D. Warren**, P.H. Wiebe, H.E. Seim, and T.K. Stanton (2000) “Estimating the scattering contribution from microstructure and marine organisms using multiple-frequency acoustic data collected from a Gulf of Maine internal wave.” 140th Meeting of the Acoustical Society of America, December 2000, Newport Beach, CA.

**J.D. Warren**, P.H. Wiebe, T.K. Stanton, and M.C. Benfield (2000) “Distinguishing zooplankton and microstructure as sources of acoustic scattering within an internal wave.” AGU/ASLO Ocean Sciences Meeting, January 2000, San Antonio, TX

M.Sutor, P.H. Wiebe, M.C. Benfield, T.K. Stanton, D. Chu, and **J.D. Warren** (2000) “Ground-truthing of single-frequency acoustic returns from zooplankton using an ROV-mounted video camera.” AGU/ASLO Ocean Sciences Meeting, January 2000, San Antonio, TX

T.K. Stanton, P.H. Wiebe, M.C. Benfield, C.H. Greene, and **J.D. Warren**. (1998) “Acoustic surveys of zooplankton, internal waves, and suspended sediment over the Georges Bank region and interpretations using acoustic scattering models,” Coastal and Marginal Seas Conference, The Oceanography Society (TOS) and The Intergovernmental Oceanographic Commission (IOC), UNESCO Headquarters, Paris, France.

#### Conference Proceedings & Technical Reports

**J.D. Warren**, M.A. Ainslie, J.L. Miksis-Olds, B. Martin, and K.D. Heaney. (2018) “ADEON Calibration and Deployment Good Practice Guide. Version 1.0. Technical report by Stony Brook University for ADEON Prime Contract No.M16PC00003.” 129pp. doi:10.6084/m9.figshare.6793745

B. Martin, C.A. Hillis, J. Miksis-Olds, M.A. Ainslie, **J.D. Warren**, and K.D. Heaney. (2018) “ADEON Hardware Specification. Document 01412, Version 2.3. Technical report by JASCO Applied Sciences for ADEON.” 56pp. doi:10.6084/m9.figshare.6809711

*S.S. Urmy, B.M. Lucca, H. Blair, and J.D. Warren.* (2017) “Seafloor habitat characterization around Montauk Point,” Technical Report prepared for Seatuck Environmental Associates. 57pp.

**J. Warren.** (2007) “A Study of the Circulation of Orient Harbor and Hallock Bay, Long Island, New York,” submitted to Cornell University Cooperative Extension of Suffolk County, pp. 1-27.

**J. Warren**, M. Cox, S. Sessions, A. Jenkins, D. Needham, and D. Demer. (2007) “Nearshore acoustical survey near Cape Shirreff, Livingston Island,” in AMLR 2006/2007 Field Season Report, Ed. J. Lipsky, NOAA-TM-NMFS-SWFSC-409,107-121.

**J. Warren**, M. Cox, S. Sessions, A. Jenkins, D. Needham, and D. Demer. (2006) “Nearshore acoustical survey near Cape Shirreff, Livingston Island,” in AMLR 2005/2006 Field Season Report, Ed. J. Lipsky, NOAA-TM-NMFS-SWFSC-397,145-159.

**J. Warren**, S. Sessions, M. Patterson, A. Jenkins, D. Needham, and D. Demer. (2005) "Nearshore survey," in AMLR 2004/2005 Field Season Report, Ed. J. Lipsky, NOAA-TM-NMFS-SWFSC-385,108-123.

**J. Warren**, A. Jenkins, D. Needham, M. van den Berg, M. Soule, and D. Demer. (2004) "Nearshore survey," in AMLR 2003/2004 Field Season Report, Ed. J. Lipsky, NOAA-TM-NMFS-SWFSC-367,117-129.

**J. Warren**, A. Jenkins, and D. Demer. (2003) "Near-shore acoustical survey," in AMLR 2001/2002 Field Season Report, Ed. J. Lipsky, NOAA-TM-NMFS-SWFSC-350,153-160.

Above reports available at: <http://swfsc.noaa.gov/textblock.aspx?Division=AERD&id=3154>

T.K. Stanton, T.K., D. Chu, L.V. Martin Traykovski, D.B. Reeder, **J.D. Warren**, and P.H. Wiebe. (2001) "Broadband acoustic classification of individual zooplankton and fish: A review of recent work," in Proceedings of the Institute of Acoustics Conference on Acoustical Oceanography (April), 181-188.

P.H. Wiebe, T.K. Stanton, C.H. Greene, M. Benfield, T. Austin, and **J. Warren**, (1999) "BIOMAPER-II: An integrated instrument platform for coupled biological and physical measurements in coastal and oceanic regimes," ICES Council Meeting Papers, Stockholm, Sweden, CM 1999/M:07.

**J.D. Warren**, T.K. Stanton, M.C. Benfield, P.H. Wiebe, and D. Chu, (1999) "In situ measurements of acoustic target strengths of siphonophores," Proceedings of the 2nd EAA International Symposium on Hydroacoustics, 24-27 May 1999, Gdansk-Jurata, Poland. Stepnowski, A., R. Salamon and E. Kozaczka (eds.), pp. 11-13.

T.K. Stanton, **J.D. Warren**, P.H. Wiebe, M.C. Benfield, and C.H. Greene. (1999) "Contributions of the turbulence field and zooplankton to acoustic backscattering by an internal wave," Proceedings to the 1998 WHOI/IOS/ONR Internal Solitary Wave Workshop (Sydney, B.C.) WHOI Technical Report #99-07.

**J.D. Warren**, T.K. Stanton, D. Chu, D.E. McGehee, and R.L. Eastwood. (1998) "Pulse compression processing of zooplankton echoes," Proceedings of the 16th International Congress on Acoustics and 135th Meeting of the Acoustical Society of America, The Sound of the Future: A Global View of Acoustics in the 21st Century, Seattle, Washington, Volume IV, 2787-2788.

## **Invited Seminars**

New York Department of Environmental Conservation - Region 3 (Hudson Valley), New Paltz, NY. July 2019.

College of Fisheries and Ocean Sciences, University of Alaska, Fairbanks, AK. September 2018.

Biology Department, Syracuse University, Syracuse, NY. April 2018.

Congressional Briefing on Protecting America's Water Amid Growing Threats. Washington, DC. June 2017.

Cornell Biological Field Station, Bridgeport, NY. June 2017.

Rensselaer Polytechnic Institute, Biology Department, Troy, NY. April 2017.

University of New England, Biddeford, ME. March 2017.

Dauphin Island Sea Lab, Dauphin Island, AL. September 2016.

Center for Coastal and Ocean Mapping, University of New Hampshire, Durham, NH. October 2015.

Institute of Marine and Coastal Sciences, Rutgers University, New Brunswick, NJ. October 2014.

University of Rhode Island, Narragansett, RI. March 2014.

Suffolk County Community College, Selden, NY. November 2013.

Syracuse University (Ocean Life guest speaker), Syracuse, NY. September 2013.

East Stroudsburg University of Pennsylvania, East Stroudsburg, PA. April 2013.

University of Connecticut, Marine Sciences Program, Avery Point, CT. March 2012.

Long Island University, Provost Distinguished Lecture Series, C.W. Post Campus, Brookville, NY. November 2010.

Woods Hole Oceanographic Institution, Biology Department, Woods Hole, MA. July 2010.

Oregon State University, College of Oceanic and Atmospheric Sciences, Corvallis, OR. May 2009.

Instituto Antartico Uruguayo, Montevideo, Uruguay. February 2009.

Sea Education Association, Woods Hole, MA. April 2007.

University of New England, Biddeford, ME. May 2006.

Stony Brook University Topics in Atmospheric and Oceanic Sciences, Stony Brook, NY. March 2006.

Coastal Carolina University, Conway, SC, April 2005.

Texas A&M University, College Station, TX, April 2005.

University of South Carolina, Columbia, SC, March 2005.

Gulf of Maine Research Institute, Portland, ME, January 2005.

Stony Brook University, Stony Brook, NY, December 2004.

South Shore Tuna and Marlin Club, Bay Shore, NY, September 2004.

SMAST, Univ. of Massachusetts at Dartmouth, Dartmouth, MA, April 2004.

Stony Brook University, Stony Brook, NY, February 2003.

Harvey Mudd College, Claremont, CA, October 2001.

National Research Institute of Fisheries Engineering, Hasaki, Japan, March 1999.

Tokyo University of Fisheries Engineering, Shinagawa, Japan, March 1999.



Oceans Alive Symposium, Woods Hole Oceanographic Institution, Woods Hole, MA, May 1998.

Bioacoustical Oceanography Workshop, Santa Cruz, CA, August 1997.

**Workshop Participation** Invited Participant. Testing the Feasibility of Acoustic Methods for Estimating the Biomass of Sardines in the Phillipines. Cornell University. 20 December 2017. Ithaca NY, U.S.A.

Invited Participant. Fish Behaviour in Response to E&P Industry Sound Workshop. Organized by the Joint Industry Programme (JIP) on E&P Sound and Marine Life, in association with the Environmental Studies Research Funds (ESRF) and Offshore Energy Environmental Research (OEER). 29-31 March 2011. Halifax, Nova Scotia, Canada.

Invited Participant. New York Marine Endangered Species Workshop, NY Department of Environmental Conservation, 15-17 October 2008, Port Jefferson, NY

Participant in “Teaching About the Ocean System Using New Research Techniques: Data, Models and Visualization” a On the Cutting Edge workshop sponsored by NSF, July 2005.

Panel moderator for “Undergraduate Education” session at the Symposium on the Oceans and Education, Woods Hole Oceanographic Institution, September 2005.

**Teaching Experience** **Stony Brook University:** Introduction to Physical Oceanography and Physical Oceanography Laboratory (undergraduate), Bioacoustics (undergraduate), Utilization of Limited Marine Resources (undergraduate seminar), Zooplankton Ecology (graduate), Spatial and Temporal Data Analysis Methods (graduate), Scientific Communication (graduate), Tropical Marine Ecology (undergraduate and graduate travel course).

**SeaBASS** - BioAcoustics Summer School. 2010, 2012, 2014, 2016, 2018. Invited Lecturer on active acoustic assessment of zooplankton and fish for SeaBASS, a week-long graduate-level course in underwater acoustics sponsored by ONR, NOAA, and other federal agencies.

**Southampton College:** Physical Oceanography, Introductory Physics I (Kinematics) and II (Electricity and Magnetism), The Oceans (non-major course), Estuaries (team taught course). Adviser to several student theses and research projects.

**Sea Education Association:** Practical Oceanography I and II (field-based course), Introduction to Oceanography.

**MIT** - teaching assistant: Ocean and Sea-bed Acoustics, Wave Scattering from Surfaces.

**Student Advising** Current students: Marie Todey (M.S., 2018 - present), Brandyn Lucca (Ph.D., 2016 - present), Hannah Blair (Ph.D., 2015 - present)

Former students: Colin Wirth (M.S., Aug 2018), Samuel Urmy (Ph.D., Dec 2017), Brandyn Lucca (M.S., Aug 2016), Maija Niemisto (M.S., Aug 2016), Kaylyn Becker (M.S., Dec 2013), Joy N. Smith (M.S., Aug 2010), Krissy Forman (M.S., Aug 2007)

Graduate committee member: Marianne McNamara (Ph.D., 2013), Jen Goleski (M.S., 2008)

Employee supervisor: Devan Nichols (research technician, 2019-present), Kayla Hartigan (research assistant, 2014), Hui Sin Tran (research assistant, 2013-2014), Libby Beckman (research assistant, 2005-2006).

Undergraduate research advisor: 2019-2020: Kaitlyn Carr, Corrin Dasilva, Nancy Liang, Kallen Muste, Ana Noel, Sandra Reyes. 2018-2019: Cassidy Bell, Emelie Einhorn, John Maniscalco, Sascha Rosin, Muriel Bingham, Katelyn Castler, Omar Ramzy, Helen Fulham (Harvard), Helene Bartsch (UNH). 2017-2018: Antonio Fanizzi, Elaine Alberts, Jeffrey Rodriguez, Rianna Scanlon, Miranda Meola, Victoria Uthman. 2016-2017: Alexandra Bonecutter, Cassandra Fries, Helena Nierer, Jeffrey Rodriguez, Elizabeth Conley (Northeastern Univ.), Margaret Loncki (Claremont McKenna College). 2015-2016: Shelby Hunter, Emma McCauley, Cailey Treyz. 2014-2015: Kayla Hartigan, Christopher Powers (East Stroudsburg State), Maria Andersen, Michaela Miller, Emma McCauley, Kylie Oradskey, Harrison Andina, Cailey Treyz, Alfredo Esposito. 2013-2014: Farnaz Anwar, Taylor Apter, Salvatore Caldarello, Abby El-Shafei, Emily Markowitz, Amy Marshall, Jenna Schwerzmann, Samantha Silvestri. 2012-2013: Taylor Bouraad, Meaghan Coyne, Kate Dubickas, Katelyn Gilbert, Amanda Lerch, Karen Lohman, Peter Manaridis, Emily Markowitz, Kelly Randall, Samantha Silvestri, Kaitlyn Smith, Alyssa Stevens, Hui Tran, Maria Roe. 2011-12: Melissa Mazzocco, Melissa Bladek, Ayman Haque, Emily Markowitz, Samantha Silvestri, Stephanie Mincieli. 2010-11: Melissa Mazzocco, Haruki Imai, Amanda Lerch, Lisa Jackson, John Tay, Long Ng, Nicole Laible, Kayla Kraker, John Torelli, Ayman Haque. Katharine Wurtzell (Cornell University). 2009-10: Allison Sowa, Eric Braen, Colleen McNamee, Jessica Adamowicz. 2008-09: Melissa Mazzocco and Andrea Tomasso, Lauren Bohrer (Coastal Carolina Univ.). 2007-08: Emily Olesin and Rachel Goodale. 2006-07: Joy Smith (Coastal Carolina University), Jordan Mertes (University of Nebraska, Omaha), Alexandre Nicolas (Lycee Louis le Grand, Paris, France). 2005-06: Elissa Ford (Southampton College), Stephanie Grassia (Southampton College). 2004-05: Jessica Luchini (Southampton College)

## Honors

- Recipient of Antarctic Service Medal awarded by the U.S. Congress
- Invited participant at Dissertation Initiative for the Advancement of Coastal and Estuarine Sciences (DIACES), Puerto Rico (2002)
- Research Release Time Award (2002 - 2004), Southampton College, Long Island University
- Dean's Research Travel Award (2002 - 2004), Southampton College, Long Island University
- Office of Naval Research (ONR) Postdoctoral Fellow in Ocean Acoustics (2000)
- ONR Graduate Traineeship Award in Ocean Acoustics (1999)
- Paul M. Fye Graduate Teaching Fellow (1999)
- Member of Tau Beta Pi National Engineering Honor Society
- Woods Hole Oceanographic Institution Summer Student Fellow (1993)
- National Merit Scholar (1990)

## Professional Activities

Member of: American Geophysical Union (AGU), Acoustical Society of America (ASA), Society for Marine Mammalogy (SMM) and American Society of Limnology and Oceanography (ASLO).

Member of Acoustical Oceanography Technical Committee of the Acoustical Society of America

Member of ICES Working Group on Fisheries Acoustics Science and Technology

Member of New England Regional Environmental Acoustics Education Subgroup

Proposal reviewer and/or panelist for: NSF (Biological Oceanography, Major Research Instrumentation, Ocean Sciences, Ocean Sciences Postdoctoral Fellowship, Ocean Technology and Interdisciplinary Coordination, Office of Polar Programs, and International Research Fellowship Programs), California Sea Grant, Delaware Sea Grant, Deutsche Forschungsgemeinschaft (German Research Foundation), INACH (Chilean federal research foundation), NOAA Saltonstall-Kennedy Program, NOAA Northwest Fisheries Science Center, and 2015 New Generation of Polar Researchers Leadership Symposium for both engineering and biological oceanography applicants.

Reviewer of manuscripts for: Aquaculture; Aquatic Living Resources; Biology Letters; Canadian Journal of Fisheries and Aquatic Sciences; Chinese Journal of Oceanology and Limnology; Continental Shelf Research; Deep-Sea Research I (**Outstanding Reviewer 2015**); Deep-Sea Research II; Estuaries; Estuaries and Coasts; Estuarine, Coastal and Shelf Science; Fisheries Research; Fishery Bulletin; Frontiers in Marine Science; Geophysical Research Letters; Hydrobiologia; ICES Journal of Marine Science; IEEE Sensors; Journal of Atmospheric and Oceanic Technology; Journal of the Acoustical Society of America; Journal of Experimental Marine Biology and Ecology; Journal of Fish Biology; JGR-Oceans; Journal of Marine Systems; Journal of Plankton Research; Knowledge and Management of Aquatic Ecosystems; Limnology & Oceanography; Limnology & Oceanography: Methods; Marine Ecology; Marine Ecology Progress Series; Marine Mammal Science; Nature Scientific Reports; Oceanography; PLOS ONE; Polar Research; and Progress in Oceanography.

Book manuscript reviewer for Blackwell Publishing, Sinauer Associates, and Wiley Publishing.

Session chair for 3rd International Symposium on Krill, June 2017. St. Andrews, Scotland.

Reviewer of 2016 Monterey Bay Aquarium Seafood Watch Antarctic krill report.

Session chair for 147th Acoustical Society of America meeting, May 2004, New York.

Member, Stony Brook University Dive Safety Board.

Rescue Diver certification (PADI), Oxygen Provider certification, Emergency First Responder certification.

## Public Outreach

Moderator and Science Judge for the Bay Scallop Ocean Science Bowl (10+ years).

Featured in Chilean TV program Proyecto Arca. “Ballenas azules en el sur de Chile.” May 2019. [https://www.youtube.com/watch?v=evhHyN\\_wves](https://www.youtube.com/watch?v=evhHyN_wves)

Public presentation on “Whales Around The World: Dining with the Leviathans of the Ocean” as part of the SoMAS Southampton Public Lecture Series. 03 Nov 2017.

Public presentation on “Dining with the Leviathans of the Ocean” as part of the Nature Talks outreach series at Moustache Brewery, Riverhead, NY. 06 Oct 2017.

Quoted in: Long Island Pulse magazine. “A Whale of an Island.” July 2017. <http://lipulse.com/2017/07/13/long-island-whales/>

Keynote speaker at Hampton Bays High School 4th Annual Science Research Symposium. Hampton Bays, NY. Apr 2017.

Science Judge for the "What is sound?" 2016 Flame Challenge organized by the Alan Alda Center for Communicating Science.

Co-Organizer (with Heather Lynch, Stony Brook University Ecology and Evolution Department) of "Polar Climate Change Research: A Workshop for Educators" and the public with over 200 participants. Stony Brook, NY. April 2012.

J.D. Warren (2012) "Krill and the Animals That Love Them." Polar Climate Change Educational Workshop for Secondary School Educators, Stony Brook University. April 2012.

J.D. Warren (2012) "Watching whales swim through the drive-thru window: Feeding behavior of the Humpback Whale in the North Atlantic, Alaska, and Antarctica." Spring 2012 Public Lecture Series. Stony Brook Southampton. March 2012.

Quoted on krill behavior in article "Cameras Catch Tiny Krill Having Deep-Water Sex" Mar 2011. <http://www.livescience.com/13019-krill-sex-crustacean-antarctic-marine-ecosystem.html> Article ran on thousands of websites including: MSNBC.com and Yahoo! News.

"Research Roundup" (p.16) in Spring 2009 issue of Stony Brook University's "The Brook" highlighted my Antarctic research and results from my Marine Biology publication.

J.D. Warren. Radio Interview, WLIU, 29 May 2008, "Increasing awareness in high school students of marine environmental issues."

"Surfrider Foundation's local chapter to host school team surf contest" by James Haag. Article in the 27 May 2008 issue of the Southampton Press newspaper.

Education coordinator, Surfrider Foundation, Eastern Long Island Chapter, 2003 - present.

Board Member, South Fork Community Health Initiative, 2007 - 2010.

"The Antarctic Ecosystem: Are krill the real reason penguins have 'Happy Feet'?", June 2007, part of the Marine Sciences Research Center Public Lecture Series.

"Scientists keep eye on species" by Emily Stone. Article in The Antarctic Sun newspaper, 13 November 2005.

J.D. Warren and E. Himelblau (2003) "Wave Physics" Educational poster on the physics of near-shore waves for distribution to high school physics classes.

J. D. Warren. Radio Interview, WLIU, 16 Sep 2003, "Effects of Hurricane Isabel on Marine Life."

J.D. Warren and D. Chu (1998) "Sounding out echoes." Special to abcnews.com as part of an "On-Line Expedition" during the July 1998 RV Sea Diver cruise.

**Sea  
Experience**

Date	[Days]	Vessel	Location	Purpose
Jun 1994	[10]	SSV Westward	Northwest Atlantic	General Oceanography
Jul 1997	[3]	RV Diane G	Cape Cod Bay	BIOMAPER II Test Cruise
Aug 1997	[7]	RV Roger Revelle	Monterey Bay	Blue Whale and Zooplankton Study
Oct 1997	[10]	RV Endeavor	Gulf of Maine	GLOBEC Zooplankton Survey
Jul 1998	[9]	RV Sea Diver	Cape Cod Bay	Siphonophore Study
Oct 1998	[10]	RV Oceanus	Gulf of Maine	GLOBEC Zooplankton Survey
Dec 1998	[10]	RV Oceanus	Gulf of Maine	GLOBEC Zooplankton Survey
Aug 1999	[8]	FV Isabel S	Stellwagen Bank	Zooplankton Study
Oct 1999	[10]	RV Endeavor	Gulf of Maine	GLOBEC Zooplankton Survey
Dec 1999	[10]	RV Endeavor	Gulf of Maine	GLOBEC Zooplankton Survey
Aug 2000	[17]	ITS Magnaghi	Ligurian Sea	Zooplankton and Marine Mammal Study
Mar 2001	[39]	<b>SSV Corwith Cramer</b>	Caribbean Sea	General Oceanography
Jun 2001	[42]	RVIB Nathaniel B. Palmer	Southern Ocean	Ecological Survey
Sep 2001	[5]	RV Sproul	Channel Islands	Zooplankton Study
Feb 2002	[32]	RV Yuzhmorgeologiya	Antarctic Peninsula	Acoustic Krill Survey
Jan 2004	[35]	RV Yuzhmorgeologiya	Antarctic Peninsula	Acoustic Krill Survey
Jan 2005	[37]	RV Yuzhmorgeologiya	Antarctic Peninsula	Acoustic Krill Survey
Jan 2006	[35]	RV Yuzhmorgeologiya	Antarctic Peninsula	Acoustic Krill Survey
Jan 2007	[30]	RV Yuzhmorgeologiya	Antarctic Peninsula	Acoustic Krill Survey
Jun 2008	[20]	RV Oscar Dyson	Bering Sea	Pollock and Zooplankton Survey
May 2009	[7]	<b>RVs Auk</b> , Shearwater	Cape Cod Bay	Zooplankton Survey
Apr 2010	[21]	RV Stellwagen	Cape Cod Bay	Zooplankton and Whale Study
May 2010	[36]	RVIB Nathaniel B. Palmer	Antarctic Peninsula	Zooplankton and Whale Study
Nov 2010	[26]	<b>RVIB Laurence M. Gould</b>	Antarctic Peninsula	Zooplankton Study
Aug 2011	[7]	FV Athena Rose	Southeast Alaska	Fish, Zoop., and Humpback whale Study
Aug 2011	[18]	RV Bell M. Shimada	Northeast Pacific	Hake and Zooplankton Survey
Dec 2011	[30]	RVIB Laurence M. Gould	Antarctic Peninsula	Zooplankton Study
Aug 2012	[16]	RV Oceanus	Northeast Pacific	Zooplankton and Nekton Study
Sep 2012	[40]	RV Blackfish	SE Australian Coast	Humpback Whale Foraging Study
Aug 2013	[10]	RV Wicked Whaler	SE Alaska	Humpback Whale Foraging Study
Aug 2014	[8]	RV Alyce C	Molokai	Acoustic Scattering Study
Aug 2014	[3]	<b>RV Paumanok</b>	Coastal Long Island	Artificial Reef Survey
Dec 2014	[31]	RVIB Nathaniel B. Palmer	Antarctic Peninsula	Krill Ecosystem Study
Apr 2015	[2]	<b>RV Paumanok</b>	Coastal Long Island	Artificial Reef Survey
Apr 2015	[10]	RV Wicked Whaler	SE Alaska	Humpback Whale Foraging Study
May 2015	[2]	<b>RV Paumanok</b>	Coastal Long Island	Artificial Reef Survey
Jun 2015	[2]	<b>RV Paumanok</b>	Coastal Long Island	Artificial Reef Survey
Jul 2015	[2]	<b>RV Paumanok</b>	Coastal Long Island	Artificial Reef Survey
Aug 2015	[14]	RV Pt. Sur	Gulf of Mexico	Deep Sea Nekton Study
Sep 2015	[2]	<b>RV Paumanok</b>	Coastal Long Island	Artificial Reef Survey
Feb 2016	[16]	RV Khronos	Gulf of Corcovado, Chile	Blue Whale Foraging Study
May 2016	[16]	RV Pt. Sur	Gulf of Mexico	Deep Sea Nekton Study
Jun 2016	[22]	RV Oscar Dyson	Bering Sea	Pollock and Krill Survey
Aug 2016	[1]	RV Sproul	So. Cal. Bight	Acoustic Mooring Deployment
Dec 2016	[3]	RV Sally Ride	So. Cal. Bight	Acoustic Mooring Recovery
Feb 2017	[18]	RV Khronos	Gulf of Corcovado, Chile	Blue Whale Foraging Study
Jul 2017	[14]	RV Henry Bigelow	NW Atlantic	Sea Turtle and Zoop. Foraging Study
Aug 2017	[21]	RV Oscar Dyson	Gulf of Alaska	Pollock and Krill Survey
Nov 2017	[27]	<b>RV Neil Armstrong</b>	Western North Atlantic	ADEON Project
Feb 2018	[18]	RV Khronos	Gulf of Corcovado, Chile	Blue Whale Foraging Study
Jun 2018	[20]	<b>RV Endeavor</b>	Western North Atlantic	ADEON Project
Jul 2018	[7]	RV Seawolf	New York Bight	Fish and Marine Mammal Survey
Nov 2018	[17]	<b>RV Endeavor</b>	Western North Atlantic	ADEON Project
Feb 2019	[16]	RV Solidaridad	Gulf of Corcovado, Chile	Blue Whale Foraging Study
Mar 2019	[14]	MV Island Sky	Antarctic Peninsula	Humpback Whale Foraging Study
May 2019	[10]	RV Rueben Lasker	Northeast Pacific	Juvenile Rockfish Survey
Jun 2019	[5]	RV Noah	Cape Cod	Humpback Whale Prey Study
Total days at sea	[871]			
	100s	Small boat days		Various Coastal and Estuarine Locations
	250+	Research Dives		Caribbean, Pacific, and NW Atlantic
	12	<b>Chief Scientist</b>	Oceanic cruises	Various Locations

