

## CURRICULUM VITAE

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### Education

B.A. 1963 Andrews University, Berrien Springs, Michigan, Majors: Physics and Mathematics  
M.S. 1965 University of Illinois, Urbana, Illinois, Major: Physics  
Ph.D. 1971 Johns Hopkins University, Baltimore, Maryland, Major: Biophysics (Neurophysiology)

### Employment

1971-1972 Postdoctoral Fellow, Department of Pathobiology, Johns Hopkins University  
1972-1978 Assistant Professor, Department of Pathobiology, Johns Hopkins University  
1978-1982 Associate Professor, Department of Pathobiology, Johns Hopkins University  
1979-1982 Director, Division of Ecology and Comparative Behavior, Department of Pathobiology, Johns Hopkins University  
1982-1983 Associate Professor, Department of Psychology (joint appointment), Johns Hopkins University  
1982-1984 Associate Professor, Department of Immunology and Infectious Diseases, Johns Hopkins University  
1983-1991 Professor and Chairman, Department of Biological Sciences, Indiana University - Purdue University, Fort Wayne, Indiana  
1991-2001 Associate Vice Chancellor for Research and Dean of the Graduate School, University of Missouri-St. Louis, St. Louis, Missouri  
2001-2005 Vice Provost for Academic Affairs and Dean of the University Graduate School, Florida International University (FIU), Miami, Florida  
2003-2004 Interim Vice President for Research, FIU, Miami, Florida  
2005-2007 Executive Vice Provost, FIU, Miami, Florida  
2007-2009 Vice President for Academic Affairs, FIU, Miami, Florida  
2009-2010 Interim Provost, Executive Vice President, Chief Operating Officer, FIU  
2010-2014 Provost, Executive Vice President, Chief Operating Officer, FIU, Miami, FL  
2014-2015 Visiting Scholar, Macquarie University, Sydney, Australia  
2014-2017 Provost Emeritus, Professor of Biology, FIU, Miami, Florida  
2017- Provost Emeritus, Professor Emeritus Biological Sciences, FIU, Miami, FL

## Grants and Contracts

1973-1979	\$453,000	National Aeronautics and Space Administration
1973-1982	\$450,000	Office of Naval Research
1975-1976	\$12,000	Bureau of Land Management
1975-1978	\$21,000	Marine Mammal Commission
1978-1979	\$1,800	Baltimore Zoological Society
1979-1982	\$15,000	Human Biology Program
1980-1982	\$22,000	National Marine Fisheries Service
1982-1984	\$7,000	National Science Foundation, Sensory Physiology
1986-1987	\$40,000	National Science Foundation, Polar Biology and Medicine
1987-1999	\$1,221,137	Society for Marine Mammalogy
1987-1990	\$364,805	National Science Foundation, Polar Biology and Medicine
1988-1990	\$1,496,615	Amoco Production Company
1991-1993	\$125,856	Minerals Management Service
1991-1994	\$201,240	National Science Foundation, Polar Biology and Medicine
1993-1994	\$20,000	Office of Naval Research
1994-2000	\$2,499,448	Missouri Department of Economic Development
1995-2000	\$5,452,982	National Institute for Standards and Technology
1996-2000	\$218,810	Office of Naval Research

## Professional Activities

1975	Chairman, Summary Session, Workshop on Remote Sensing of Wildlife
1975	Chairman, First Contributed Paper Session, First Biennial Conference on the Biology and Conservation of Marine Mammals
1977	Deputy Chief Scientist, Marine Mammal Cruise in Bering and Chukchi Seas, U.S. Coast Guard Icebreaker <b>Glacier</b>
1981	Invited Expert, 69 <sup>th</sup> Statutory Meeting of the International Council for the Exploration of the Sea, Woods Hole, Mass.
1983	Visiting Professor, Institute of Marine Science, University of Alaska
1983	Invited Plenary Session Lecture, Fifth Biennial Conference on the Biology of Marine Mammals
1984-2007	Member, Board of Editors, <i>Marine Mammal Science</i>
1987-1996	Chairman, Board of Editors, <i>Marine Mammal Science</i>
1987-1996	Member, Board of Governors, The Society for Marine Mammalogy
1987-1996	Editor-in-Chief, <i>Marine Mammal Science</i>
1987-2007	Editor, <i>Special Publications of the Society for Marine Mammalogy</i>
1987	Advisory Panel, Office of Naval Technology Postdoctoral Program
1990-1991	Antarctic Panel, Division of Polar Programs, National Science Foundation
1994	External Scientific Review of National Oceanographic and Atmospheric Administration Programs on Protected Species
1995	External Presenter, National Academy of Sciences, National Research Council, Ocean Studies Board on the need for an Arctic Research Vessel
1995-2001	Scientific Advisory Committee, Environmental Studies Program, Minerals Management Service

1996-1998-2016	Editor Emeritus, <i>Marine Mammal Science</i> Member, Committee of Scientific Advisors, U.S. Marine Mammal Commission
2001-2003	Member, Committee on Assessing Ambient Noise in the Ocean with regard to Potential Impacts on Marine Mammals, National Academy of Sciences, National Research Council, Ocean Studies Board
2002	Member, Indirect Effects Expert Review Panel to advise the Secretary of Commerce on the “Dolphin Safe” tuna labeling issue
2003-2005	Chair of the Committee on Describing Biologically Significant Marine Mammal Behavior, National Academy of Sciences, National Research Council, Ocean Studies Board
2005-2008	Member, Scientific Review Board, Sperm Whale Seismic Study (SWSS), Gulf of Mexico
2007-2008	Member, Scientific Review Board, Behavioral Response Study, Beaked whales and naval mid-frequency sonar, AUTECH Weapons Testing Range, Andros Island, Bahamas.
2008	Moderator, Center for Independent Experts Committee to Evaluate Naval Acoustic Models to Determine Impact of Antisubmarine Warfare Training Activities on Marine Mammals
2010-2021	Chairman, Committee of Scientific Advisors, Society for Marine Mammalogy
2012-2014	Chairman, Committee of Scientific Advisors, U.S. Marine Mammal Commission
2014-2019	Member, Ocean Studies Board, National Academies of Science, Engineering and Medicine
2015-2016	Member, Committee on Cumulative Effects of Human Activities on Marine Mammal Populations, Ocean Studies Board, National Academies of Sciences, Engineering and Medicine
2017-2018	President, Sigma Xi, The Scientific Research Honors Society, Florida International University Chapter
2018-	President, Emeritus Circle, Florida International University
2019-	Chair, Ad-hoc Archives Committee, Society for Marine Mammalogy

#### Doctoral Student Advisees:

John Beier, Epidemiology of Avian Malaria in African Penguins at the Baltimore Zoo  
 David Campbell, Epizootiology of *Paramoeba* Infection in Blue Crabs of Chincoteague Bay  
 Janet Gailey-Phipps, Vocalizations, Behavior, and Sex Hormones in Captive Spotted Seals  
 Brendan Kelly, Ringed Seal Under-ice Movements, Behavior and Habitat Utilization  
 Darlene Ketten, Comparisons of Peripheral Auditory Structures in Odontocetes: Implications for High Frequency Hearing Strategies  
 George Korch, Ecology of the Tick Vectors of Rocky Mountain Spotted Fever in Maryland  
 Molly Whitworth, Maternal Care, Infant Development, and Ontogeny of Social Behavior in Pika

Laura May-Collado, Phylogenetic and Ecological Significance in the Evolution of Cetacean Tonal Sounds

Jennifer Lewis, Leadership in bottlenose dolphins, *Tursiops truncatus*

#### Refereed Journal Publications

- 1973 Wartzok, D. and W.B. Marks. Directionally selective visual units recorded in optic tectum of the goldfish. *Journal of Neurophysiology* 36:588-604.
- 1975 Wartzok, D., G.C. Ray and H.B. Martin. A recording instrument package designed for use with marine mammals. *Rapp. P. -v. Cons. Int. Explor. Mer.* 169:445-450.
- 1976 Wartzok, D., and G.C. Ray. A verification of Weber's Law for visual discrimination of disc sizes in the Bering Sea spotted seal, *Phoca largha*. *Vision Research* 16:819-822.
- 1978 Ray, G.C., E.D. Mitchell, D. Wartzok, V.M. Kozicki and R. Maiefski. Radio tracking of a fin whale (*Balaenoptera physalus*). *Science* 202:521-524.
- 1978 Wartzok, D., and M.G. McCormick. Color discrimination by a Bering Sea spotted seal, *Phoca largha*. *Vision Research* 18:781-785.
- 1979 Beier, J.C., and D. Wartzok. Mating behaviour of captive spotted seals (*Phoca largha*). *Animal Behaviour* 27:772-781.
- 1981 Watkins, W.A., K.E. Moore, D. Wartzok and J.H. Johnson. Radio tracking of finback (*Balaenoptera physalus*) and humpback (*Megaptera novaeangliae*) whales in Prince William Sound, Alaska. *Deep-Sea Research* 28A:577-588.
- 1982 Gibbs, C.J., Jr., A. Takenaka, M. Franko, C.D. Gajdusek, M.D. Griffin, J. Childs, G.W. Korch and D. Wartzok. Seroepidemiology of Hantaan virus. *Lancet* 8312:1405.
- 1983 Smith, A.W., D.G. Ritter, G.C. Ray, D.E. Skilling and D. Wartzok. New calicivirus isolates from walrus (*Odobenus rosmarus*). *Journal of Wildlife Management* 19:86-89.
- 1984 Ray, G.C., D. Wartzok and G. Taylor. Productivity and behavior of bowheads, *Balaena mysticetus*, and white whales, *Delphinapterus leucas*, as determined from remote sensing. *Reports of the International Whaling Commission (Special Issue 6)*:199-209.
- 1984 Wartzok, D., R.J. Schusterman and J. Gailey-Phipps. Seal Echolocation? *Nature* 308:753.
- 1984 Watkins, W.A., K.E. Moore, J. Sigurjonsson, D. Wartzok and G.N. di Sciara. Fin whale (*Balaenoptera physalus*) tracked by radio in the Irminger Sea. *Rit Fiskideildar* 8:1-14.

- 1985 Watkins, W.A., and D. Wartzok. Sensory biophysics of marine mammals. *Marine Mammal Science* 1:219-260.
- 1986 Ashwell-Erickson, S., F.H. Fay, R. Elsner and D. Wartzok. Metabolic and hormonal correlates of molting and regeneration of pelage in Alaskan harbor and spotted seals (*Phoca vitulina* and *P. largha*). *Canadian Journal of Zoology* 64:1086-1094.
- 1989 Elsner, R., D. Wartzok, N.B. Sonafrank and B. Kelly. Behavioral and physiological reactions of Arctic seals during under-ice pilotage. *Canadian Journal of Zoology* 67:2506-2513.
- 1989 Wartzok, D., R. Elsner, R. Davis and G. Mimken. Under-ice movements of Weddell seals. *Antarctic Journal* 24:205-206.
- 1992 Wartzok, D., R. Elsner, H. Stone, B.P. Kelly and R.W. Davis. Under-ice movements and the sensory basis of hole-finding by ringed and Weddell seals. *Canadian Journal of Zoology* 70:1712-1722.
- 1992 Wartzok, D., S. Sayegh, H. Stone, J. Barchak and W. Barnes. Acoustic tracking system for monitoring under-ice movements of polar seals. *Journal of the Acoustical Society of America* 92:682-687.
- 1996 Kelly, B.P., and D. Wartzok. Ringed seal diving behavior in the breeding season. *Canadian Journal of Zoology* 74:1547-1555.
- 1996 Watkins, W.A., J. Sigurjonsson, D. Wartzok, R.R. Maiefski, P.W. Howey and M.A. Daher. Fin whale tracked by satellite off Iceland. *Marine Mammal Science* 12:564-569.
- 1998 Ray, G.C., W.A. Watkins and D. Wartzok. Underwater world of marine mammals. *Science* 280:499 (letter to the editor - not peer reviewed)
- 1999 Watkins, W.A., M.A. Daher, N.A. Dimarzio, A. Samuels, D. Wartzok, K.M. Fistrup, D.P. Gannon, P.W. Howey, R.R. Maiefski, and T.R. Spradlin. Sperm whale surface activity from tracking by radio and satellite tags. *Marine Mammal Science* 15:1158-1180.
- 2001 Simpkins, M.A., B.P. Kelly and D. Wartzok. Three dimensional analysis of search behaviour by ringed seals. *Animal Behaviour* 62:67-72.
- 2001 Simpkins, M.A., B.P. Kelly and D. Wartzok. Three-dimensional diving behaviors of ringed seals (*Phoca hispida*). *Marine Mammal Science* 17:925-941.

- 2001 Simpkins, M.A., B.P. Kelly and D. Wartzok. Three-dimensional movements within individual dives by ringed seals (*Phoca hispida*). *Canadian Journal of Zoology* 79:1455-1464.
- 2002 Watkins, W.A., M.A. Daher, N.A. DiMarzio, A. Samuels, D. Wartzok, K.M. Fristrup, P.W. Howey, and R.R. Maiefski. Sperm whale tracked by radio tag telemetry. *Marine Mammal Science* 18:55-68.
- 2004 Wartzok, D., A.N. Popper, J. Gordon and J. Merrill. Factors affecting the responses of marine mammals to acoustic disturbance. *Marine Technology Society Journal* 37(4):6-15.
- 2005 Boebel, O., P. Clarkson, R. Coates, R. Larter, P.E. O'Brien, J. Ploetz, C. Summerhayes, P. Tyack, D.W.H. Walton, and D. Wartzok. Risks posed to the Antarctic marine environment by acoustic instruments: a structured analysis. *Antarctic Science* 17:533-540.
- 2005 Wartzok, D., P.L. Tyack, and G. C. Ray. In Memorium: William A. Watkins 1926-2004. *Marine Mammal Science* 21:284-288.
- 2006 Cox, T.M., T.J. Ragen, A.J. Read, E. Vos, R.W. Baird, K. Balcomb, J. Barlow, J. Caldwell, T. Cranford, L. Crum, A. D'Amico, G. D'Spain, A. Fernández, J. Finneran, R. Gentry, W. Gerth, F. Gulland, J. Hildebrand, D. Houser, T. Hullar, P.D. Jepson, D. Ketten, C.D. Macleod, P. Miller, S. Moore, D. Mountain, D. Palka, P. Ponganis, S. Rommel, T. Rowles, B. Taylor, P. Tyack, D. Wartzok, R. Gisiner, J. Mead, L. Benner. Understanding the impacts of anthropogenic sound on beaked whales. *Journal of Cetacean Research Management* 7:177-187.
- 2007 May-Collado, L.J., and D. Wartzok. The freshwater dolphin *Inia geoffrensis geoffrensis* produces high frequency whistles. *Journal of the Acoustical Society of America* 121:1203-1212.
- 2007 May-Collado, L. J., I. Agnarsson, and D. Wartzok. 2007. Phylogenetic review of tonal sound production in whales in relation to sociality. *Evolutionary Biology*. 7(136).
- 2007 May-Collado, L. J., I. Agnarsson, and D. Wartzok. 2007. Reexamining the relationship between body size and tonal signals frequency in whales: a phylogenetic comparative approach. *Marine Mammal Science*. 23 (3): 524-552.
- 2008 May-Collado, L.J., and D. Wartzok. A comparison of bottlenose dolphin whistles in the Atlantic Ocean: factors promoting whistle variation. *Journal of Mammalogy* 89:205-216.
- 2008 Southall, B., I. Boyd, P. Tyack, and D. Wartzok. Deep-diving odontocetes Behavioural-Response Study (BRS). *Bioacoustics: The International Journal of Animal Sound and its Recording* 17:186-188.

- 2008 Wartzok, D., and P. Tyack. Elaboration of the NRC Population Consequences of Acoustic Disturbance (PCAD) model. *Bioacoustics: The International Journal of Animal Sound and its Recording* 17:286-288.
- 2009 May-Collado, L.J., and D. Wartzok. A characterization of Guyana dolphin (*Sotalia guianensis*) whistles from Costa Rica: the importance of broadband recording systems. *Journal of the Acoustical Society of America* 125:1202-1213.
- 2011 Lewis, J.S., D. Wartzok and M.R. Heithaus. Highly dynamic fission–fusion species can exhibit leadership when traveling. *Behavioral Ecology and Sociobiology* 65:1061-1069.
- 2012 Wartzok, D., C. Erbe, W.M. Getz, J.A. Thomas. Marine Mammal Acoustics Exposure Analysis Models Used in US Navy Environmental Impact Statements. *The Effects of Noise on Aquatic Life, Advances in Experimental Medicine and Biology* 730:551-556.
- 2013 Lewis, J.S., D. Wartzok and M.R. Heithaus. Individuals as information sources: Could followers benefit from leaders' knowledge? *Behaviour* 150:635–657
- 2013 Lewis, J.S., D. Wartzok, M. Heithaus and M. Krützen. Could relatedness help explain why individuals lead in bottlenose dolphin groups? *PLoS ONE* 8(3): e58162. doi:10.1371/journal.pone.0058162
- 2015 May-Collado, L.J. and D. Wartzok. The effect of dolphin watching boat noise levels on the whistle acoustic structure of dolphins in Bocas del Toro, Panama. *International Whaling Commission SC/66a/ww/5*.
- 2015 Wartzok, D. *Marine Mammals and Ocean Noise*. in Reference Module in Earth Systems and Environmental Sciences, Elsevier <http://dx.doi.org/10.1016/B978-0-12-409548-9.09333-7>
- 2015 Wartzok, D. Review of Wilson, D.E. and R.A. Mittermeier, eds. 2014. *Handbook of the Mammals of the World, Volume 4. Sea Mammals*. Lynx Ediciones, Barcelona, 614 pp. *Journal of Mammalogy*.
- 2018 Harris, C.M., L. Thomas, E.A. Falcone, J. Hildebrand, D. Houser, P.H. Kvadsheim, F.-P. A. Lam, P.J.O. Miller, D.J. Moretti, A.J. Read, H. Slabbekoorn, B.L. Southall, P.L. Tyack, D. Wartzok, V.M. Janik. Marine mammals and sonar: dose-response studies, the risk-disturbance hypothesis and the role of exposure context. *Journal of Applied Ecology* 55:396–404. <https://doi.org/10.1111/1365-2664.12955>

#### Refereed Book Chapters

- 1979 Ashwell-Erickson, S., R. Elsner and D. Wartzok. Metabolism and nutrition of Bering Sea harbor and spotted seals. Pages 651-665 in B.R. Melteff, ed. *Alaska fisheries: 200 years and 200 miles of change*. University of Alaska, Fairbanks.

- 1980 Watkins, W.A., D. Wartzok, H.B. Martin, and R. Maiefski. A radio whale tag. Pages 227-241 in F.P. Diemer, F.J. Vernberg and D.Z. Mirkes, eds. Advanced concepts in ocean measurements. Belle W. Baruch Library in Marine Science, Number 10. University of South Carolina Press.
- 1990 Ketten, D.R., and D. Wartzok. Three-dimensional reconstructions of the dolphin ear. Pages 81-105 in J.A. Thomas and R.A. Kastelein, eds. Sensory abilities of cetaceans. Plenum Press, New York.
- 1991 Wartzok, D. 1991. Physiology of behaviour in pinnipeds. Pages 236-299 in D. Renouf, ed. The behavior of pinnipeds. Chapman & Hall Ltd., London.
- 1992 Davis, R.W., D. Wartzok, R. Elsner and H. Stone. Attaching a small video camera to a Weddell seal: a new way to observe diving behavior. Pages 631-642 in J. Thomas and R. Kastelein, eds. Sensory abilities of aquatic mammals. Plenum Publishing Corp., New York.
- 1999 Wartzok, D., and D.R. Ketten. Marine mammal sensory systems. in J.R. Reynolds, III and S. Rommel, eds. Marine mammals. Smithsonian Institution Press, Washington, D.C.
- 2002 Wartzok, D. Breathing. in W.F. Perrin, Bernd Würsig, and J.G.M. Thewissen, eds. Encyclopedia of Marine Mammals. Academic Press, San Diego, CA.
- 2003 Ocean Noise and Marine Mammals. Committee on Potential Impacts of Ambient Noise in the Ocean on Marine Mammals. National Research Council, National Academy Press. (I was lead author on Chapter 3 and the section on Natural Sources of Ocean Noise in Chapter 2 and a major contributor to Chapter 5.)
- 2005 Marine Mammal Populations and Ocean Noise: Determining When Noise Causes Biologically Significant Effects. National Research Council, National Academy Press. (I chaired the committee and wrote major portions of all four chapters.)
- 2017 Approaches to Understanding the Cumulative Effects of Stressors on Marine Mammals. National Academy Press. (I was the lead author on Chapter 2 and Appendix B.)
- 2019 Wartzok, D. Marine Mammals and Ocean Noise. In Cochran, J. K., Bokuniewicz, J. H., and Yager, L. P. (Eds.) *Encyclopedia of Ocean Sciences*, 3rd Edition. vol. 2, pp. 595-600, Elsevier.
- 2019 Wartzok, D. Radio and Satellite tagging of whales. In *The Voices of Whales* (Ed. C C. Brophy), pp. 41-56. Old Dartmouth Historical Society/New Bedford Whaling Museum, New Bedford, Massachusetts.



## Reports and Proceedings

- 1963 Wartzok, D. Application of Schlumberger Model 104 nuclear magnetic resonance analyzer to broad line problems. Dow Chemical Company Report Number SL 151755.
- 1974 Ray, G.C., and D. Wartzok. Bering Sea Marine Mammal Experiment (BESMEX) NASA/Ames Research Center Publication TM X-62-399, iv+51 pp.
- 1975 Ray, G.C., and D. Wartzok. Synergistic use of aerial photography and infrared scanning for remote sensing of walruses. Proceedings of the Workshop on Remote Sensing of Wildlife, Quebec, 1975, pp. 145-150.
- 1975 Wartzok, D., and G.C. Ray. A comparison of the accuracy and precision of visual and photographic aerial censuses of ice-inhabiting marine mammals. Proceedings of the Workshop on Remote Sensing of Wildlife, Quebec, 1975, pp. 151-171.
- 1978 Watkins, W.A., J.H. Johnson and D. Wartzok. Radio tagging report of finback and humpback whales. Woods Hole Oceanographic Institution Technical Report WHOI-78-51.
- 1980 Ray, G.C., and D. Wartzok. Remote sensing of marine mammals of Beringea. Results of BESMEX: The Bering Sea Marine Mammal Experiment. Final Report NAS2-9300. National Aeronautics and Space Administration, 77 pp.
- 1980 Wartzok, D., and G.C. Ray. Hauling-out behavior of the Pacific walrus. Final Report MM5ACO28. Marine Mammal Commission, v+46 pp.
- 1981 Watkins, W.A., K.E. Moore, J. Sigurjonsson, D. Wartzok and G.N. di Sciara. Finback whale, *Balaenoptera physalus*, tracked by radio from Iceland to Greenland waters. International Council for the Exploration of the Sea. Marine Mammals Committee. Paper C.M./1981/ N:16, 11 pp.
- 1989 Wartzok, D., W.A. Watkins, B. Würsig and C.I. Malme. Movements and behaviors of bowhead whales in response to repeated exposures to noise associated with industrial activities in the Beaufort Sea. Report from Purdue University for Amoco Production Company, 228 pp.
- 1990 Wartzok, D., W.A. Watkins, B. Würsig, J. Guerrero and J. Schoenherr. Movements and behaviors of bowhead whales. Report to Amoco Production Company, Denver, CO., x+197 pp.

## Abstracts

- 1971 Wartzok, D., and W.B. Marks. Directionally selective visual units recorded in the optic tectum of the goldfish. Society for Neuroscience, October 1971, Washington, D.C.
- 1972 Wartzok, D., and G.C. Ray. A recording instrument package designed for use with marine mammals. Symposium on the Biology of the Seal, August, 1972, Guelph, Canada.
- 1973 Burns, B., J.K. Stene, D. Wartzok and S.A. Weinstein. Effects of CO<sub>2</sub> breathing and hypoxia on venous return in the harbor seal (*Phoca vitulina concolor*). Federation Proceedings 32(3):395.
- 1975 Ray, G.C., and D. Wartzok. Synergistic remote sensing of walrus and walrus habitat. First Biennial Conference on the Biology and Conservation of Marine Mammals, December, 1975, Santa Cruz, CA.
- 1975 Wartzok, D. Satellite data collection measurements: Wildlife ecology (pinnipeds). In: Satellite Data Collection User Requirements Workshop. E.A. Wolff, C.E. Cote and J.E. Pinter, eds. Goddard Space Flight Center, p. 84.
- 1975 Wartzok, D., and M.G. McCormick. Color discrimination by the spotted seal, *Phoca largha*. First Biennial Conference on the Biology and Conservation of Marine Mammals, December, 1975, Santa Cruz, CA.
- 1977 Beier, J.C., and D. Wartzok. Mating behavior of captive spotted seals (*Phoca largha*). Proceedings Second Conference on the Biology of Marine Mammals, December 1997, San Diego, CA.
- 1977 Bishop, L., and D. Wartzok. Necropsy findings in a bearded seal, *Erignathus barbatus*. Proceedings Second Conference on the Biology of Marine Mammals, December 1997, San Diego, CA.
- 1977 Ray, G.C., and D. Wartzok. Insights into the natural history of the Pacific walrus. Proceedings Second Conference on the Biology of Marine Mammals, December 1997, San Diego, CA.
- 1977 Wartzok, D., and G.C. Ray. Agonistic behavior of walrus in the Chukchi Sea in Summer. Proceedings Second Conference on the Biology of Marine Mammals, December 1997, San Diego, CA.
- 1977 Wartzok, D., and G.C. Ray. Thermoregulation of hauled-out walrus in the Chukchi Sea in summer. Proceedings Second Conference on the Biology of Marine Mammals, December 1997, San Diego, CA.

- 1979 Wartzok, D. Phocid spectral sensitivity curves. Proceedings of the Third Biennial Conference on the Biology of Marine Mammals, October 1979, Seattle, WA.
- 1981 Ashwell-Erickson, S., F.H. Fay, R. Elsner and D. Wartzok. Nutritional and hormonal aspects of molting in Bering Sea harbor and spotted seals. Alaska Science Conference.
- 1981 Ketten, D.R., and D. Wartzok. Comparative anatomy of the peripheral auditory system of odontocetes. Fourth Biennial Conference on the Biology of Marine Mammals, December 1981, San Francisco, CA.
- 1981 Ray, G.C., and D. Wartzok. Production in cetacean populations as determined from aerial photographs. Conference on Cetacean Reproduction, San Diego, CA.
- 1981 Wartzok, D., and G.C. Ray. Sea ice determinants of walrus hauling-out behavior. Fourth Biennial Conference on the Biology of Marine Mammals, December 1981, San Francisco, CA.
- 1981 Wartzok, D., J. Gailey-Phipps, N. Schultz and J.C. Beier. Vocalizations of captive spotted seals, *Phoca largha*. Fourth Biennial Conference on the Biology of Marine Mammals, December 1981, San Francisco, CA.
- 1983 Ketten, D.R., E. May, D. Meyers and D. Wartzok. Histological analyses of stranded cetacean cochlea. Proceedings of the Fifth Biennial Conference on the Biology and Conservation of Marine Mammals, November 1983, Boston, MA.
- 1983 Ketten, D.R., D. Shirazian and D. Wartzok. Nematode infestation of the acoustic sinuses of *Phocoena*. Proceedings of the Fifth Biennial Conference on the Biology and Conservation of Marine Mammals, November 1983, Boston, MA.
- 1983 Ketten, D.R., F.L. Starr and D. Wartzok. Comparative cochlear morphology in echolocating cetaceans. Journal of the Acoustical Society of America Supplement 1 74:S6-S7.
- 1983 Ketten, D.R., F.L. Starr and D. Wartzok. Comparative cochlear morphology in odontocetes. Proceedings of the Fifth Biennial Conference on the Biology and Conservation of Marine Mammals, November 1983, Boston, MA.
- 1983 Gailey-Phipps, J., D. Wartzok and J. Gibson. Reproductive and vocal behavior of the spotted seal. Proceedings of the Fifth Biennial Conference on the Biology and Conservation of Marine Mammals, November 1983, Boston, MA.
- 1983 Sonafrank, N., R. Elsner and D. Wartzok. The use of acoustic cues in under-ice navigation by a spotted seal (*Phoca largha*). Proceedings of the AAAS Alaska Science Conference.

- 1983 Sonafrank, N., R. Elsner and D. Wartzok. Under-ice navigation by the spotted seal *Phoca largha*. Proceedings of the Fifth Biennial Conference on the Biology and Conservation of Marine Mammals, November 1983, Boston, MA.
- 1987 Wartzok, D., R. Elsner, B. Kelly, G. Mimken and L. Quakenbush. Visual, acoustic and vibrissal contributions to under-ice navigation by ringed seals, *Phoca hispida*. Proceedings of the Seventh Biennial Conference on the Biology of Marine Mammals, December 1987, Miami, FL.
- 1989 Kelly, B.P., D. Wartzok and L.T. Quakenbush. Under-ice ranges of ringed seals in the Beaufort Sea. Proceedings of the Eighth Biennial Conference on the Biology of Marine Mammals, December 1989, Asilomar, CA.
- 1989 Ketten, D.R., and D. Wartzok. Three dimensional reconstruction of the dolphin cochlea. Fifth International Theriological Congress, Rome.
- 1989 Meiselman, H.J., R.W. Davis, R. Elsner, G. Mimken and D. Wartzok. Blood rheology in Weddell seals: hemorheological "abnormalities" in healthy mammals. Clinical Hemorheology 9:500.
- 1989 Wartzok, D., R. Elsner and R. Davis. A comparison of ringed seal (*Phoca hispida*) and Weddell seal (*Leptonychotes weddelli*) under-ice movements and hole-finding behavior. Annual Meeting of the Animal Behavior Society, Highland Heights, KY.
- 1989 Wartzok, D., R. Elsner and R. Davis. Under-ice movements of Weddell Seals. Proceedings of the Eighth Biennial Conference on the Biology of Marine Mammals, December 1989, Asilomar, CA.
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