

## MICHAEL MOORE

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### EXPERIENCE

- 1991 to present **Senior Scientist** (2016 to present) Senior Research Specialist (2006 to 2016), **Director** Marine Mammal Center (2011 to present), Research Specialist (1995 to 2006), Visiting Investigator (1993 to 1995), Postdoctoral Investigator, (1991 to 1993): Biology Department, Woods Hole Oceanographic Institution.
- 1998 to present **Program Director** (1998 to 2000), **Veterinarian** (2001 to 2005), Cape Cod Stranding Network. Now International Fund for Animal Welfare, Marine Mammal Rescue Research (2005 to present).
- 1997 to 2006 Lecturer, Boston University Marine Program.
- 1985 to 1986 **Veterinarian**, Laboratory for Marine Animal Health (Marine Biological Laboratory), Dept. Avian & Aquatic Animal Medicine, N.Y.S. College Veterinary Medicine.
- 1983 to 1985 **Associate Veterinarian**, 1983 to 1985, Bulger Animal Hospital, N. Andover, MA Veterinarian.
- 1983 International Whaling Commission, Hvalfjordur, Iceland.
- 1979 to 1980 **Assistant Scientist**, Ocean Research and Education Society (R/V Regina Maris).
- 1979 to 1982 Field Research Assistant, Zoology Department, Cambridge University, England.

### DEGREES

- 1986 to 1991 PhD WHOI/MIT Joint Program in Biological Oceanography.
- 1979 to 1983 Vet MB Department of Clinical Veterinary Medicine, University of Cambridge, England.
- 1975 to 1979 B.A. Pembroke College, University of Cambridge, England.

### ACADEMIC AND PROFESSIONAL HONORS

- 2003 Outstanding Service Award, Cape Cod Stranding Network.
- 1983 Sismey Prize in Medicine & Surgery.
- 1981 Glaxovet Parasitology Prize.
- 1977 University of Cambridge, Foundation Scholar.
- 1976 Foundress Memorial Prize, Pembroke College, University of Cambridge.
- 1975 Exhibition - Pembroke College, University of Cambridge.

## LICENSURE

National: Certified A.V.M.A. Educational Commission for Foreign Veterinary Graduates.

State Veterinary License: Massachusetts.

DEA and Comm. Mass. Controlled Substance Registration.

Northeast Region, National Marine Fisheries Service Authorization to maintain tissue parts from stranded marine mammals.

## EDUCATION

### GRADUATE STUDENTS

#### ADVISED

WHOI/ MIT Joint PhD Program in Biological Oceanography

Julie van der Hoop 2011 to 2016 - PhD

Regina Campbell-Malone – 2001 to 2007 - PhD

Boston University Marine Program

Nadine Lysiak 2003 to 2008 – PhD

Carolyn Miller 1998 to 2005 - PhD

Melinda Sweeny 2000 to 2003 – MA

Stefani Valentini 1997 to 1998 – MA

University of Massachusetts Dartmouth

Michael Morss 1996 to 1998 – MA

College of the Atlantic

Colby Moore – MA 2007 to 2009

Royal Veterinary College

Ashley Barratclough – MS 2013

European University Institute of Sea, Brest France

Perrine LeFaou – MS 2007 to 2008

#### COMMITTEE

WHOI/ MIT Joint PhD Program in Biological Oceanography

Nicholas MacFarlane 2010 to 2015 –PhD

Max Kaplan 2014 to Present PhD

University of Connecticut

Andrea Bogomolni to 2009 to 2014 – PhD

Duke University Marine Lab

Rachel Cassoff 2013 to present – PhD

U Maine Orono

Becky Woodward 2005 to 2009 – PhD

Jeremy Winn 2009 to 2011 – MA

#### DEFENSE CHAIR (WHOI/ MIT)

Susan Parks 2003 PhD

Maya Yamato 2013 PhD

#### POST DOCTORAL SCHOLAR

Becky Woodward 2010 to 2012

#### POST DOCTORAL INVESTIGATORS

Julie van der Hoop 2016 to 2017

Yara Bernaldo de Quiros 2013 to 2015

Alex Shorter 2011 to 2013

## **GUEST STUDENTS**

Duke University Marine Lab

Samantha Emmert – 2014 Summer Fellow Undergraduate

Jessica Richardson – 2011 to 2012 Duke/ WHOI Fellow

U Pennsylvania

Rachel Cassoff 2010 DVM candidate

College of Charleston

Carmen Wiegandt 2013 Undergraduate

Tufts University School of Vet Med

Melissa Joblon 2014 – DVM candidate

Stephanie Levesque 2014 – MA

Meghan Hartwick 2011 to 2012 - MA

UCLA

Eden Maloney – 2010 Undergraduate

Cornell University

Karen Tracy – 2010 Undergraduate

University of Tolima, Colombia

Carolina Gutierrez – 2007 Summer Fellow

Smith College

Caroline Kerouack – 2012 Undergraduate

## **COURSES TAUGHT**

WHOI/MIT Joint PhD Program in Biological Oceanography

Fall 1999 – Topics in Behavior - Marine Mammal Anatomy

Spring 2003 – Topics in Behavior – Comparative Anatomy of Air-Breathing Marine Vertebrates

Spring 2004 – Marine Mammal Toxicology

Spring 2010 - Gast JP topics course - Ocean and Human Health

Boston University Marine Program

Oct 1997 - Marine Mammals – Anatomy section

Oct 1998 - Marine Mammals – Anatomy section

Feb 1999 – Marine Mammal Anatomy

U Penn/ Cornell Aquavet Program 1989 to present

U Chicago – Whales course 2015

## **MAJOR CRUISES**

Winter flounder survey for Massachusetts Water Resources Authority – annual April cruise, 1990 to present (**Chief Scientist**)

Large whale survey and biopsy – RV Abel J. Falkland Islands to South Georgia 4 weeks Jan Feb 1997 (**Chief Scientist**)

Right whale body condition surveys – Bay of Fundy – August 1995 to 2002 (**Chief Scientist**)

North Atlantic historic right whaling habitat survey 15 months, 18,000 miles, 2001/2002 (Skipper)

Survey of Basque whaling sites in Labrador Straits July 2004 and Lower N Shore Quebec July 2005 (Skipper)  
Field studies, Dolphin Quest, Honolulu 2014  
Field studies, Chicago Zoological Society dolphin health assessments, Sarasota, FL 2011 to present  
Field studies, UBC open water facility, Vancouver, BC (**PI**) 2012, 2013  
Acoustic behavioral studies Bay of Fundy August 2004 (Skipper)  
Sperm whale physiology – RV Alucia, Kaikoura New Zealand, March 2013 (**Chief scientist**).  
Blue whale photogrammetry, Gulf of Corcovado, Chile RV Centinella, Feb/Mar 2015 (**PI**)  
Humpback whale photogrammetry and blow sampling – Stelwagen Bank – July 2015 (**PI**)  
Right whale photogrammetry and blow sampling – East of Amelia Island, FL Feb 2016 (**PI**)

#### **NECROPSIES UNDERTAKEN**

39 right whales, 12 humpback whales, 6 minke whales, 1 fin whale, 1 blue whale, 1 sperm whale, and numerous smaller species. With substantial local student involvement (FL to Quebec, and Argentina).

#### **SOCIETY MEMBERSHIP**

Society for Marine Mammalogy  
American Veterinary Medical Association

#### **COMMITTEE/ PANEL/ TASKFORCE MEMBERSHIP**

##### **WHOI**

Marine Mammal Center **Director** since 2011  
Staff Committee 2006 to 2008  
Sea Water Users Committee 1988 to present, **Chair** since 2011.  
Information Systems Council 1995 to 1997  
Institutional Animal Care and Use Committee Veterinarian 1987 to present

##### **EXTERNAL**

NOAA Working Group Unusual Marine Mammal Mortality Events  
2012 to Present, **Chair** since 2015  
NOAA Atlantic Scientific Review Group 2012 to present  
NOAA Right whale/fishery gear interaction workshops 2008 to 2014  
MWRA Outfall Monitoring Science Assessment Panel – Periodically in past decade  
South Georgia Heritage Trust Trustee 2005 to 2015  
National Institute of Environmental Health Sciences Site Review Team 6/98, 6/03  
New Bedford Whaling Museum – Trustee 2005 to 2011, 2015 to present.  
Right Whale Consortium – Board Member 1999 to present,  
**Vice President** 2002 to 2004, **President** 2004 to 2007  
Barnstable County MMR Scientific Advisory Panel 1996 to 1997

Various regional panel discussions on MWRA issues 1993 to 1995  
Sippican Lands Trust: Trustee 1993 to 2003  
Mass Water Resources Authority Outfall Monitoring Taskforce 1992 to 1993  
Annual presentations to MWRA Science Review meetings 1992 to present.  
Island Foundation Inc: Corporator 1984 to present. **President** 2003 to 2007

## **JOURNAL REVIEW**

### **EDITOR**

Diseases of Aquatic Organisms (Aquatic Mammals **Subject Editor** - 2006 to 2015)  
Endangered Species Research **Special Issue Editor** 2016

### **REVIEWER**

Marine Pollution Bulletin, ICES Journal of Marine Science, Marine Environmental Research, Aquatic Toxicology, Science, Nature, Marine Mammal Science, J Mammalogy, J Cetacean Research and Management, Endangered Species Research, Aquatic Mammals, J Wildlife Disease.

## **WORKSHOPS and PRESENTATIONS (Recent)**

### **INVITED PRESENTATIONS**

Biennial Marine Mammal Society Meeting San Francisco Unmanned Aerial Systems workshop - **Invited** presenter 2015  
U Mass Dartmouth Art Department, **Invited** Lecture Feb 2015 Woods Hole Film Festival, Aug 2015 **Invited** Panel discussion of Chasing Bayla (Boston Globe)  
Global Whale Entanglement Response Network Workshop, Provincetown, MA **invited** presenter 2015  
Marion Natural History Society, **Invited** Lecture, Feb 2015 Feb 2016  
NOAA Serious Injury Workshop, Seattle, **Invited** participant 2014  
Taught a day long workshop by **invitation** for International Whaling Commission (IWC) on large whale necropsy technique in La Paz Mexico 2013 and then in St Maarten in 2014  
Biennial Marine Mammal Society Meeting Dunedin, NZ, Right whale workshop **invited** - Dec 2013  
Marine mammal forensics **invited** lecture at Tufts Vet School. 2013  
IWC Large Whale Euthanasia Workshop in London. **Invited participant** 2013  
Stelwagen Bank National Marine Sanctuary Advisory Council - Science Alternate 2013  
**Invited** seminar, Sea Mammals Research Unit, St Andrew's University, Scotland 2013  
WSPA Marine Debris Workshop - Miami FL **Invited participant 2013**  
IWC Marine Debris Workshop, **Invited participant**, Hosted at WHOI 2013  
Population Consequences of Disturbance Workshop - New England Aquarium **Invited** participant 2013  
WHOI Summer Student Fellow Orientation on IACUC, Annually 2010 to present  
Marine mammal forensics **invited** lecture Aquavet 2 at WHOI 2013 to present  
**Invited** talk on Marine Mammal Forensics to IWC Scientific Committee in Jeju Korea. 2013

**Convened and chaired** workshop in Anchorage, Alaska. Implications of Arctic industrial growth and strategies to mitigate future vessel and fishing gear impacts  
NOAA CINAR workshop - Defining criteria for diagnosing human interaction in marine mammals. **Convened, chaired and lead** resulting monograph publication. Woods Hole. 2012  
**Invited** Lecture on right whale conservation via Skype to Huntsman Aquarium in St Andrews NB, Canada 2012  
NOAA Marine Mammal Breath Analysis Workshop SWFSC La Jolla, CA **Invited** participant 2012  
**Invited** Presentation at NOAA Large whale euthanasia workshop in Virginia Beach. 2011  
**Invited** presentation at workshop on large whale disentanglement – Provincetown 2011  
**Invited** seminar at UBC, Vancouver: 'Large Whale Forensics: A Management Tool' 2011  
NEAq Reverse Engineering Workshop, **Invited Participant**, hosted at WHOI. 2011  
**Invited speaker** World Society Protection of Animals Conference in UK 2011  
IWC Southern right whale die off workshop - Puerto Madryn, Argentina **Invited paper** 2010  
IWC Large Whale Entanglement Workshop, Maui, HI **Invited paper** 2010  
National Stranding Conference, Shepherdstown, WV April 5-9 2010 **Invited paper** Forensics Workshop  
Gas Kinetics Workshop WHOI **Invited** participant 2010  
**Convened and chaired** 3 workshops on large whale medical intervention at sea – Woods Hole 2000, 2002, 2007.

## **WORKSHOPS AND MEETING PRESENTATIONS**

Biennial Marine Mammal Society Meeting San Francisco 2015  
N Atlantic Seal Research Consortium, Salem State U, participant, May 2015  
NOAA Unmanned Aerial Systems Workshop, Pittsburgh, PA as part of Wildlife Society Annual Meeting. Participant, 2014  
Biennial Marine Mammal Society Meeting Dunedin, NZ, spoken presentation, Dec 2013  
Right Whale Consortium, New Bedford, Nov 2013  
Right Whale Consortium New Bedford 2011  
Workshop on the impact of gillnets on marine mammals – WHOI 2010  
NOAA Gear Innovations Workshop - New Bedford 2010  
Right Whale Consortium- New Bedford 2010  
NOAA National Working Group on Unusual Marine Mammal Mortalities 2011  
PCAD workshop, Boston 2010  
Right Whale Consortium New Bedford 2010  
Right Whale Consortium, New Bedford MA 2009 Presentation  
Marine Mammal Society Biennial Meeting, Quebec City, Two talks 2009  
Ocean Human Health Gordon Conference, Biddeford ME Talk 2010

**Publications (117 total) (\* denotes student, postdoc or technician from my laboratory, # denotes equal contributions). Since 2008 my contribution has been annotated for all manuscripts where I am not the sole first author.**

**2016**

1. Shorter, K.A., Shao, Y., Ojeda, L., Barton, K, Rocho-Levine, J, van der Hoop, J, and Moore, M. A day in the life of a dolphin: Using bio-logging tags for improved animal health and well-being. (In press) Marine Mammal Science.
2. Asmutis-Silvia, R., S. Barco, T. Cole, A. Henry, A. Johnson, A. Knowlton, S. Landry, D. Mattila, M. **Moore**, J. Robbins, J. van der Hoop. Rebuttal to published article "A review of ghost gear entanglement amongst marine mammals, reptiles and elasmobranchs" by M. Stelfox, J. Hudgins, and M. Sweet. Marine Pollution Bulletin.
3. van der Hoop, J.M., P. Corkeron, A.G. Henry, A.R. Knowlton and M.J. **Moore**. Predicting lethal entanglements as a consequence of drag from fishing gear. Marine Pollution Bulletin. 10.1016/j.marpolbul.2016.11.060
4. van der Hoop, J.M., P. Corkeron, M.J. **Moore**. Energetic impacts of entanglement in North Atlantic right whales (*Eubalaena glacialis*). Ecology and Evolution. DOI: 10.1002/ece3.2615
5. van der Hoop, J.M., D.P. Nowacek, M.J. **Moore**, M. Triantafyllou. Swimming kinematics and efficiency of entangled North Atlantic right whales. Endangered Species Research. doi: 10.3354/esr00781
6. Wiley, D., Mayo, C, Maloney, E, and **Moore** M. (In press). Vessel Strike Mitigation Lessons from Direct Observations Involving Two Collisions between Non-Commercial Vessels and North Atlantic Right Whales (*Eubalaena glacialis*). Marine Mammal Science
7. Durban, J, **Moore**, M, Chiang, Ghickmott, L, Bocconcelli, A., Howes, G., Bahamonde, P.A., Perryman, W.L., LeRoi, D.J., 2016. Photogrammetry of blue whales with an unmanned hexacopter. Marine Mammal Science DOI: 10.1111/mms.12328
8. Fahlman, A., van der Hoop, J., Moore, M.J., Levine, G., Rocho-Levine, J., Brodsky, M..In Press. Estimating energetics in cetaceans from 1 respiratory frequency: why we need to understand physiology. Open Biology. *Contribution: assisted with manuscript.*
9. Hunt, K., N. Lysiak, M. **Moore** and R. Rolland. In Press. Longitudinal progesterone profiles in baleen from female North Atlantic right whales (*Eubalaena glacialis*) match known calving history. Conservation Physiology. *Contribution: collected a major time series of right whale baleen for this study. Assisted with data interpretation and manuscript.*
10. Fahlman, A., M. **Moore**#, A. Trites, D.Rosen, M. Haulena, N. Waller, T. Neale, Y Ming, S. Thom (In Press). Dive, food, and exercise effects on blood microparticles in Steller sea lions (*Eumetopias jubatus*): exploring a biomarker for decompression sickness. American Journal of Physiology. *Contribution: secured ONR support, PI, planned experiment, undertook fieldwork, contributed to data analysis and*

*manuscript.*

11. Sharp, S. M., C. T. Harry, J. M. Hoppe, K. M. Moore, M. E. Niemeyer, I. Robinson, K. S. Rose, W. B. Sharp, S. Landry, J. Richardson and **Moore**, M. J. (2016). "A comparison of postrelease survival parameters between single and mass stranded delphinids from Cape Cod, Massachusetts, USA." *Marine Mammal Science*. 32: 161–180. doi: 10.1111/mms.12255 *Contribution: established the stranding network and developed the clinical protocols that enabled the study, made the clinical triage decisions, assisted with manuscript, advised the lead author during this her DVM student thesis.*

## 2015

12. van Der Hoop\*, J. M., A. S. M. Vanderlaan, T. V. N. Cole, A. G. Henry, L. Hall, B. Mase-Guthrie, T. Wimmer and M. J. **Moore**. 2015. Vessel Strikes to Large Whales Before and After the 2008 Ship Strike Rule. *Conservation Letters* 8:24-32. *Contribution: conceived of the study, PI of project, advised the student lead author, assisted with manuscript.*
13. van der Hoop\*, J. M., P. Corkeron, J. Kenney, S. Landry, D. Morin, J. Smith and M. J. **Moore** (2015). "Drag from fishing gear entangling North Atlantic right whales." *Marine Mammal Science*. *Contribution: conceived of the study, PI of project, assisted with field work, advised the PhD student lead author, assisted with manuscript.*

## 2014

14. Joblon\*, M. J., M. A. Pokras, B. Morse, C. T. Harry, K. S. Rose, S. M. Sharp, M. E. Niemeyer, K. M. Patchett, W. B. Sharp, and M. J. **Moore**. 2014. Body Condition Scoring System for Delphinids Based on Short-beaked Common Dolphins (*Delphinus delphis*). *Journal of Marine Animals and Their Ecology* 7:5-13. *Contribution: advised the DVM student, conceived of the project, gave veterinary oversight to the case material, assisted with the manuscript.*
15. van Der Hoop\*, J. M., A. Fahlman, T. Hurst, J. Rocho-Levine, K. A. Shorter, V. Petrov and M. J. **Moore**. 2014. Bottlenose dolphins modify behavior to reduce metabolic effect of tag attachment. *Journal of Experimental Biology* 217:4229-4236. *Contribution: PI of project, advised PhD student arranged for experimental opportunity, assisted with field work, contributed to manuscript.*
16. van Der Hoop\*, J., M. **Moore**#, A. Fahlman, A. Bocconcelli, C. George, K. Jackson, C. Miller, D. Morin, T. Pitchford, T. Rowles, J. Smith and B. Zoodsma. 2014. Behavioral impacts of disentanglement of a right whale under sedation and the energetic cost of entanglement. *Marine Mammal Science* 30:282-307. *Contribution: advised student, developed sedation system, PI of project, undertook field work and tag deployment, assisted with manuscript.*
17. Shorter\*, K. A., M. M. Murray, M. Johnson, M. Moore and L. E. Howle. 2014. Drag of suction cup tags on swimming animals: Modeling and measurement. *Marine Mammal Science* 30:726-746. *Contribution: PI of project, assisted with project design*



*and field work, assisted with manuscript.*

18. Sharp, S. M., J. S. Knoll, M. J. Moore, K. M. Moore, C. T. Harry, J. M. Hoppe, M. E. Niemeyer, I. Robinson, K. S. Rose, W. B. Sharp and D. Rotstein. 2014. Hematological, biochemical, and morphological parameters as prognostic indicators for stranded common dolphins (*Delphinus delphis*) from Cape Cod, Massachusetts, U.S.A. *Marine Mammal Science* 30:864-887. *Contribution: established the stranding network and developed the clinical protocols that enabled the study, made the clinical triage decisions, assisted with manuscript, advised the lead author during this her DVM student internship.*
19. Nousek-Mcgregor, A. E., C. A. Miller, M. J. **Moore** and D. P. Nowacek. 2014. Effects of body condition on buoyancy in endangered North Atlantic right whales. *Physiological and Biochemical Zoology* 87:160-171. *Contribution: generated some of the data upon which the study was made, assisted with manuscript.*
20. **Moore**, M. J. 2014. How we all kill whales. *Ices Journal of Marine Science* 71:760-763.
21. Moore, C. D., A. Fahlman, M. J. **Moore**, D. Willoughby, K. Robbins and S. J. Trumble. 2014. Significance of Muscle Fiber Type in Biopsied Elephant Seals. *Integrative and Comparative Biology* 54:E144. *Contribution: assisted with laboratory experiments and manuscript preparation*
22. Moore, C. D., D. E. Crocker, A. Fahlman, M. J. Moore, D. S. Willoughby, K. A. Robbins, S. B. Kanatous and S. J. Trumble. 2014. Ontogenetic changes in skeletal muscle fiber type, fiber diameter and myoglobin concentration in the Northern elephant seal (*Mirounga angustirostris*). *Front Physiol* 5. *Contribution: assisted with laboratory experiments and manuscript preparation*
23. Moore, C., M. **Moore**, S. Trumble, M. Niemeyer, B. Lentell, W. Mclellan, A. Costidis and A. Fahlman. 2014. A comparative analysis of marine mammal tracheas. *Journal of Experimental Biology* 217:1154-1166. *Contribution: assisted with laboratory experiments and manuscript preparation*
24. Harms, C. A., W. A. Mclellan, M. J. **Moore**, S. G. Barco, E. O. Clarke, Iii, V. G. Thayer and T. K. Rowles. 2014. Low-residue euthanasia of stranded Mysticetes. *J Wildl Dis* 50:63-73. *Contribution: helped develop study concept, and methods, assist with manuscript.*
25. Garcia-Parraga, D., J. L. Crespo-Picazo, Y. Bernaldo De Quiros, V. Cervera, L. Marti-Bonmati, J. Diaz-Delgado, M. Arbelo, M. J. **Moore**, P. D. Jepson and A. Fernandez. 2014. Decompression sickness ('the bends') in sea turtles. *Diseases of Aquatic Organisms* 111:191-205. *Contribution: contributed earlier observations that lead in part to this study, assisted with data interpretation, and manuscript layout, content and editing.*
26. Barratclough\*, A., P. D. Jepson, P. K. Hamilton, C. A. Miller, K. Wilson and M. J. **Moore**. 2014. How much does a swimming, underweight, entangled right whale (*Eubalaena glacialis*) weigh? Calculating the weight at sea, to facilitate accurate dosing of sedatives to enable disentanglement. *Marine Mammal Science* 30:1589-1599. *Contribution: conceived of the study, advised the student, designed the analysis,*

*and assisted with manuscript.*

27. Apprill, A., J. Robbins, A. M. Eren, A. A. Pack, J. Reveillaud, D. Mattila, M. **Moore**, M. Niemeyer, K. M. T. Moore and T. J. Mincer. 2014. Humpback whale populations share a core skin bacterial community: Towards a health index for marine mammals? PLoS ONE 9. *Contribution: assisted with sample collection and manuscript.*

## 2013

28. van der Hoop\*, J. M., M. J. **Moore**, S. G. Barco, T. V. N. Cole, P.-Y. Daoust, A. G. Henry, D. F. Mcalpine, W. A. Mclellan, T. Wimmer and A. R. Solow. 2013. Assessment of management to mitigate anthropogenic effects on large whales. *Conservation Biology* 27:121-133. *Contribution: conceived of the study, generated good portions of the data over many years of beach necropsy, assisted with analysis and manuscript.*
29. Taylor, J. K. D., J. W. Mandelman, W. A. Mclellan, M. J. **Moore**, G. B. Skomal, D. S. Rotstein and S. D. Kraus. 2013. Shark predation on North Atlantic right whales (*Eubalaena glacialis*) in the southeastern United States calving ground. *Marine Mammal Science* 29:204-212. *Contribution: contributed necropsy cases to the study and assisted with manuscript.*
30. **Moore**, M. J., J. Van Der Hoop, S. G. Barco, A. M. Costidis, F. M. Gulland, P. D. Jepson, K. T. Moore, S. Raverty and W. A. Mclellan. 2013. Criteria and case definitions for serious injury and death of pinnipeds and cetaceans caused by anthropogenic trauma. *Diseases of Aquatic Organisms* 103:229-264. *Contribution: PI of project, chaired the workshop, edited the contributions to this monograph and wrote two sections and the introduction.*
31. **Moore**, M. J. 2013. Welfare of whales by-caught in fishing gear or struck by vessels. *Animal Welfare* 22:117-121.
32. **Moore**, M., R. Andrews, T. Austin, J. Bailey, A. Costidis, C. George, K. Jackson, T. Pitchford, S. Landry, A. Ligon, W. Mclellan, D. Morin, J. Smith, D. Rotstein, T. Rowles, C. Slay and M. Walsh. 2013. Rope trauma, sedation, disentanglement, and monitoring-tag associated lesions in a terminally entangled North Atlantic right whale (*Eubalaena glacialis*). *Marine Mammal Science* 29:E98-E113. *Contribution: project PI, developed and delivered sedation system, undertook necropsy, analyzed data, wrote manuscript.*
33. Moore, C. D., M. **Moore**, A. Fahlman and S. Trumble. 2013. Significance of Type IIb Muscle Fibers in Diving Mammals. *Faseb Journal* 27. *Contribution: assisted with sample collection and manuscript.*
34. Hunt, K. E., M. J. Moore, R. M. Rolland, N. M. Kellar, A. J. Hall, J. Kershaw, S. A. Raverty, C. E. Davis, L. C. Yeates, D. A. Fauquier, T. K. Rowles and S. D. Kraus. 2013. Overcoming the challenges of studying conservation physiology in large whales: a review of available methods. *Conservation Physiology* 1. *Contribution: contributed text to this review.*
35. De Quirós\*, Y. B., J. S. Seewald, S. P. Sylva, B. Greer, M. Niemeyer, A. L. Bogomolni and M. J. **Moore**. 2013. Compositional discrimination of decompression

and decomposition gas bubbles in bycaught seals and dolphins. PLoS ONE 8. E83994  
*Contribution: PI, post doc advisor, generated basis for study, collected case material, participated in case studies, assisted with manuscript.*

## 2012

36. Hooker, S. K., T. L. Metcalfe, C. D. Metcalfe, C. M. Angell, J. Y. Wilson, M. J. **Moore** and H. Whitehead. 2008. Changes in persistent contaminant concentration and CYP1A1 protein expression in biopsy samples from northern bottlenose whales, *Hyperoodon ampullatus*, following the onset of nearby oil and gas development. *Environmental Pollution* 202:205-216. *Contribution: consulted on study design, assisted with manuscript.*
37. Vacas-Jacques, P., M. Williams, J. Jimenez-Lozano, A. Fahlman, M. Moore, P. Tyack, W. Zapol, R. Anderson and W. Franco. 2012. Development and validation of a physiological tag for monitoring oxygen saturation in muscle of free-diving whales. *Lasers in Surgery and Medicine* 44:30-31. *Contribution: CoPI on study, consulted on study design, assisted with manuscript.*
38. Richardson\*, J., A. G. Wood, A. Neil, D. Nowacek and M. **Moore**. 2012. Changes in distribution, relative abundance, and species composition of large whales around South Georgia from opportunistic sightings: 1992 to 2011. *Endangered Species Research* 19:149-156. *Contribution: conceived of study, designed analysis, and assisted with manuscript, advised WHOI-Duke student.*
39. Reeves, R., C. Rosa, J. C. George, G. Sheffield and M. Moore. 2012. Implications of Arctic industrial growth and strategies to mitigate future vessel and fishing gear impacts on bowhead whales. *Marine Policy* 36:454-462. *Contribution: PI of project, convened and chaired workshop and assisted with resulting manuscript.*
40. **Moore**, M. J. and J. M. van Der Hoop\*. 2012. The painful side of trap and fixed net fisheries: Chronic entanglement of large whales. *Journal of Marine Biology* 2012:Article ID 230653.
41. Miller\*, C. A., P. B. Best, W. L. Perryman, M. F. Baumgartner and M. J. **Moore**. 2012. Body shape changes associated with reproductive status, nutritive condition and growth in right whales *Eubalaena glacialis* and *E. australis*. *Marine Ecology Progress Series* 459:135-156. *Contribution: PI of project, advised student, assisted with study design, field work, data analysis and manuscript.*
42. Fortune, S. M. E., A. W. Trites, W. L. Perryman, M. J. **Moore**, H. M. Pettis and M. S. Lynn. 2012. Growth and rapid early development of North Atlantic right whales (*Eubalaena glacialis*). *Journal of Mammalogy* 93:1342-1354. *Contribution: collected data, assisted with manuscript.*
43. Dennison, S., A. Fahlman and M. **Moore**. 2012. The use of diagnostic imaging for identifying abnormal gas accumulations in cetaceans and pinnipeds. *Front Physiol* 3. *Contribution: PI of project, assisted with manuscript.*
44. Dennison, S., M. J. **Moore**#, A. Fahlman, K. Moore, S. Sharp, C. T. Harry, J. Hoppe, M. Niemeyer, B. Lentell and R. S. Wells. 2012. Bubbles in live-stranded dolphins. *Proceedings of the Royal Society B: Biological Sciences*.

DOI: 10.1098/rspb.2011.1754 *Contribution: PI of project, assisted with data collection, analysis and manuscript..*

## 2011

45. Werner, R., J. Forcada, M. Bertellotti, E. A. Crespo, S. Dans, Y. Degradi, A. Fazio, M. F. Grandi, R. Loizaga, M. Coscarello, L. Bossio, A. Carribero, N. Geremias, M. S. Lindner, E. Romina, C. L. Rosas, M. Sironi, D. Taboada, F. Guiland, R. R. Reeves, K. Groch, S. Krapovickas, D. Conchillo, A. Chirife, V. Rowntree, P. O. Thomas, R. L. Brownell, T. Rowles, G. Harris, D. Mcaloose, M. Uhart, A. Vila, H. Rosenbaum, M. **Moore**, P. Jepson and K. Acevedo-Whitehouse. 2011. Report of the southern right whale die-off workshop. *Journal of Cetacean Research and Management* 12:367-398. *Contribution: attended workshop, assisted with report preparation and editing.*
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