

## DOUGLAS PAUL NOWACEK

### PROFESSIONAL PREPARATION

- 1991 B.A. in Zoology, Ohio Wesleyan University; *summa cum laude*
- 1999 Ph.D. in Biological Oceanography, Woods Hole Oceanographic Institution & Massachusetts Institute of Technology

### APPOINTMENTS

- June 2008 - **University Associate Professor**, Nicholas School of Environment and Pratt School of Engineering, Duke University
- 2003-2008 **Assistant Professor**, Department of Oceanography, Florida State University, Tallahassee, Florida, 32306 AND  
**Adjunct Scientist**, Mote Marine Laboratory, Sarasota, FL
- 2002-2003 **Staff Scientist**, Sensory Biology and Behavior Program, Center for Marine Mammal and Sea Turtle Research, Mote Marine Laboratory, Sarasota, FL 34236 AND  
**Guest Investigator**, Woods Hole Oceanographic Institution, Woods Hole, MA 02543
- 2000-2002 **Postdoctoral Research Associate**, National Research Council / National Oceanic and Atmospheric Administration, Northeast Fisheries Science Center, Woods Hole, MA 02543
- 1999-2002 **Postdoctoral Fellow**, Department of Biology, Woods Hole Oceanographic Institution, Woods Hole, MA 02543 AND  
**Postdoctoral Scientist**, Sensory Biology and Behavior Program, Center for Marine Mammal and Sea Turtle Research, Mote Marine Laboratory, Sarasota, FL 34236

### RELEVANT PUBLICATIONS

- Wilson, R.M., Nelson, J.A., Balmer, B.C., Nowacek, D.P. & J. P. Chanton. 2013. Stable isotope variation in the northern Gulf of Mexico constrains bottlenose dolphin (*Tursiops truncatus*) foraging ranges. *Mar Biol* DOI 10.1007/s00227-013-2287-4
- Tyson, R.B., Friedlaender, A.S., Ware, C., Stimpert, A.K. and Nowacek, D.P. 2012. Synchronous mother and calf foraging behaviour in humpback whales *Megaptera novaeangliae*: insights from multi-sensor suction cup tags. *Marine Ecology Progress Series* 457:209-220 doi: 10.3354/meps09708
- Johnston, D.W., Friedlaender, A.S., Read, A.J., and Nowacek, D.P. 2012. Initial density estimates of humpback whales (*Megaptera novaeangliae*) in the inshore waters of the Western Antarctic Peninsula during the late autumn. *Endangered Species Research* 18: 63–71
- Hazen E.L., Nowacek D.P., St. Laurent L., Halpin P.N., and Moretti D.J. 2011. The Relationship among Oceanography, Prey Fields, and Beaked Whale Foraging Habitat in the Tongue of the Ocean. *PLoS ONE* 6(4): e19269. doi:10.1371/journal.pone.0019269
- Nowacek D.P., Friedlaender A.S., Halpin P.N., Hazen E.L., Johnston D.W., et al. 2011. Super-Aggregations of krill and humpback whales in Wilhelmina Bay, Antarctic Peninsula. *PLoS ONE* 6(4): e19173. doi:10.1371/journal.pone.0019173

### OTHER PUBLICATIONS

- Rolland, R.M., Parks, S.E., Hunt, K.E., Castellote, M., Corkeron, P.J., Nowacek, D.P., Wasser, S.K., and Kraus, S.D. 2012. Evidence that ship noise increases stress in right whales. *Proceedings of the Royal Society B: Biological Sciences*. 279(1737): 2363-2368, doi: 10.1098/rspb.2011.2429.
- Friedlaender, A.S., Nowacek, D.P., Johnston, D.W., Read, A.J., Tyson, R.B., Peavey, L., and E.M.S. Revelli. 2010. Multiple sightings of large groups of Arnoux's beaked whales (*Berardius arnouxii*) in the Gerlache Strait, Antarctica. *Marine Mammal Science* 26(1): 246-250.

- Parks, S.E., Johnson, M., Nowacek, D.P., and Tyack, P.L. 2010. Individual right whales call louder in increased environmental noise. *Biology Letters*, published online doi:10.1098/rsbl.2010.0451
- Espinasse, B. Zhou, M., Zhu, Y., Hazen, E.L., Friedlaender, A.S., Nowacek, D.P., Chu, D., and Carlotti, F. 2012. Austral fall–winter transition of mesozooplankton assemblages and krill aggregations in an embayment west of the Antarctic Peninsula. *Mar Ecol Prog Ser* Vol. 452: 63–80, doi: 10.3354/meps09626
- Gannon, D.P. Barros, N.B., Nowacek, D.P., Read, A.J., Waples, D.M., and Wells, R.S. 2005. Prey detection by bottlenose dolphins (*Tursiops truncatus*): an experimental test of the passive listening hypothesis. *Animal Behaviour* 69(3): 709-720.

**SYNERGISTIC ACTIVITIES**

Nowacek’s activities represent a mixture of research tool development coupled closely with the science driving the need for those tools. Since starting graduate school and continuing to the present, Nowacek has pioneered several marine research tools and methods. Nowacek has worked to apply the tools and teachings of basic science to conservation driven research. Lastly, Nowacek has successfully mentored undergraduates, masters and Ph.D. students through their degree requirements, including advising numerous undergraduates in their independent study projects.

***Collaborators & Other Affiliations***

***(i) Collaborators***

**RECENT COLLABORATORS**

J. Allen, P. Stevick (College of the Atlantic); B. Balmer, R. Wells (Chicago Zoological Society); A. Célérier (Centre d’Ecologie Fonctionnelle et Evolutive, France); J. Chanton, R. Wilson (Florida State University); L. Dalla Rosa, E. Secchi (Universidade Federal do Rio Grande, Brazil); F. Fish (Westchester College); B. Espinasse (Université de la Méditerranée); A. Friedlaender, P. Halpin, L. Howle, D. Johnston, S. Nowacek, L. Peavey, A. Read, R. Tyson (Duke University); L. Hansen, E. Hazen, A. Hohn, J. Litz, P. Rosel, T. Rowles, C. Sinclair (NOAA National Marine Fisheries Service); C. Hogg, T. Rogers (University of South Wales); T. Hurst, M. Moore, E. Revelli, A. Searby, L. St. Laurent (WHOI); M. Johnson, P. Miller, P. Tyack (St. Andrews University); B. Kot (Texas A&M University); G. Lewis (Northwest Florida Water Management District); A. Guichard, J. Kucklick, R. Pugh, J. Yordy (National Institute of Standards and Technology ); D. Mann (University of South Florida, St. Petersburg), D. Mattila (NOAA Hawaiian Islands Humpback Whale National Marine Sanctuary); D. Moretti (Naval Undersea Warfare Center); S. Parks (Syracuse University); J. Robbins (Provincetown Center for Coastal Studies); L. Schwacke, E. Zolman (NOAA National Ocean Service); R. Sears (Mingon Island); A. Shorter (University of Illinois, Urbana-Champaign ); B. Southall (Southall Environmental Associates); D. Steel (Oregon State University); A. Stimpert (Hawai’i Institute of Marine Biology); C. Ware (University of New Hampshire); M. Weinrich (Whale Center of New England); D. Wiley (Stellwagen Bank National Marine Sanctuary); M. Zhou, Y. Zhu (UMass-Boston)

***(ii) Graduate and Postdoctoral Advisors:***

Graduate advisor: Peter L. Tyack (University of St. Andrews)

Postdoctoral advisors: Randall S. Wells (Mote Marine Lab), Phillip J. Clapham (NOAA)

***(iii) Thesis Advisor (7) and Postgraduate-Scholar Sponsor (1):***

<b>FORMER STUDENTS</b>	<b>CURRENT STUDENTS</b>
Anna McGregor (PhD, Baker Consultants Ltd, UK)	Joy Stanistreet (PhD)
Melissa Soldevia (Postdoc, NOAA, Southeast Fisheries Science Center)	Rachel Cassoff (PhD)
Rachel Younge Wilson (PhD, Florida State University)	Matt Bowers (PhD)
	Reny Tyson (PhD)
	Goldie Phillips (PhD)