

Nicholas M. Whitney

University of Hawai'i • Zoology Department • Hawai'i Institute of Marine Biology
2538 McCarthy Mall • Honolulu, HI 96822 • (808) 497-4321 • email: nwhitney@hawaii.edu

Professional Preparation

- Ph.D. Student UNIVERSITY OF HAWAII AT MANOA, Honolulu, HI** est. grad. date 11/08
Department of Zoology **GPA 3.9**
Committee: *Dr. Kim Holland (Chair), Dr. Brian Bowen, Dr. Jeffrey Drazen, Dr. James Parrish, and Dr. Timothy Tricas.*
Title: Movements and reproductive behavior of the whitetip reef shark, *Triaenodon obesus*.
- M.S. UNIVERSITY OF HAWAII AT MANOA, Honolulu, HI** 2007
Department of Zoology **GPA 3.9**
- B.A. ALBION COLLEGE, Albion, MI** 2000
Department of Biology **GPA 3.7**
Summa Cum Laude

Appointments

- HAWAII INSTITUTE OF MARINE BIOLOGY EDUCATION PROGRAM: GRADUATE ASSISTANT 02/07-present**
Researching, writing, editing and testing marine science curriculum for high school students
Field testing of a remotely controlled (via internet) submersible for utilization in marine science education
- HAWAII COOPERATIVE FISHERIES RESEARCH UNIT: GRADUATE ASSISTANT 05/06-01/07**
Boat and trailer technician, scientific diver, and laboratory assistant in the study of the distribution and life history of four parrotfish species in coastal Hawaiian waters
- NSF GRADUATE RESEARCH FELLOWSHIP: University of Hawaii 05/03-04/06**
Movements and genetic population structure of whitetip reef sharks (*Triaenodon obesus*) over multiple scales of time and space
- HAWAII INSTITUTE OF MARINE BIOLOGY: GRADUATE ASSISTANT 05/02-05/03**
Boat technician and boating instructor/coordinator in charge of training and certification
- TUTOR OF HIGH SCHOOL AND MIDDLE SCHOOL STUDENTS 08/01-present**
Tutored students in various subjects as well as study skills, organization, and homework management. Specialized in students with learning disabilities and/or Attention Deficit Hyperactivity Disorder. Students tutored 1-2 times per week for at least one semester include: Hae-Won Chong, Jack McMillan, Peter Kowen, Dayton Uchiyama, Ethan Fukuda, Jess Savusa, Kennison Cheong, Reyn Yonashiro, and Ari Wolff.
- TEACHING ASSISTANT: University of Hawaii 08/00-05/02**
Zoology 306 (Animal Behavior) Laboratory (under Dr. Ernst Reese)
Biology 171 Laboratory (under Dr. Agnes Fok)
Biology 101 Laboratory (under Dr. Jean Kenyon)
- UNDERGRADUATE RESEARCH ASSISTANT: Albion College, MI 05/98-07/00**
Mating behavior, movements, and age and growth of a population of nurse sharks (*Ginglymostoma cirratum*) in the Dry Tortugas National Park, Florida Keys.

Scientific Publications

- Meyer CG, Clark TB, Papastamatiou YP, **Whitney NM**. *In Review*. Retaining the element of surprise: Tiger shark (*Galeocerdo cuvier*) movement patterns and prey management strategies. Marine Ecology Progress Series.
- Meyer CG, Dale JJ, Papastamatiou YP, **Whitney NM**, and KN Holland. *In Review*. Seasonal variation in abundance and species composition of sharks associated with cage diving ecotourism activities in Hawaii. Marine Biology.
- Whitney NM, Motta PJ. *In Press*. Cleaner host posing behavior of whitetip reef sharks (*Triaenodon obesus*) in a swarm of hyperiid amphipods. Coral Reefs. DOI: 10.1007/s00338-007-0345-4
- Whitney NM, Papastamatiou YP, Holland KN, Lowe CG. *In Press*. Use of an acceleration data logger to measure diel activity patterns in captive whitetip reef sharks, *Triaenodon obesus*. Aquatic Living Resources. DOI: 10.1051/alr:2008006
- Whitney NM, and GC Crow. 2007. Reproductive biology of the tiger shark (*Galeocerdo cuvier*) in Hawaii. Marine Biology. 151: 63-70.
- Whitney NM, Pratt HL, and JC Carrier. 2004. Group courtship, mating behaviour, and siphon sac function in the whitetip reef shark, *Triaenodon obesus*. Animal Behaviour 68: 1435-1442.

Popular Literature Publications

- Whitney NM, 2007. Debunking the myth of territoriality in sharks. Hawaii Skin Diver 33: 41-42.
- Whitney NM, 2006. A deeper shade of blue: going deep, spitting blood, and blacking out with the world's best free-diving instructors. Hawaii Skin Diver 29: 21-24.
- Whitney NM, 2005. Tax collectors: underwater identification of carcharhinid sharks in Hawaii. Hawaii Skin Diver 27: 43-45.

Grants and Awards

PADI Project A.W.A.R.E. grant, \$1431	2007
Lerner-Gray Marine Research Grant, American Museum of Natural History, \$1000	2004
University of Hawaii Seagrant Project Development Funds, \$8,500	2004
PADI Project A.W.A.R.E. grant, \$1200	2004
University of Hawaii Arts and Science Advisory Council Award, \$900	2004
Budweiser Conservation Scholarship, National Fish and Wildlife Foundation, \$10,000	2003
National Science Foundation Pre-Doctoral Fellowship, 3 yr tuition and stipend	2003
PADI Project A.W.A.R.E. grant, \$1000	2003
Sigma Xi Grant in Aid of Research, \$300	2002
PADI Project A.W.A.R.E. grant, \$1000	2002
Ralph S. Wadley Memorial Scholarship in the Biological Sciences	1997 - 2000
Upjohn Stipend for Undergraduate Research	1998
Albion College Presidential Scholarship	1996

Invited Presentations

- Whitney N. M. 2007. Photo-identification of the whitetip reef shark in Hawaii and underwater identification of Hawaiian shark species. Sea Lancers Dive Club. Honolulu, Hawaii.
- Whitney N. M. 2007. Photo-identification of the whitetip reef shark in Hawaii and underwater identification of Hawaiian shark species. Sea Lancers Dive Club. Honolulu, Hawaii.
- Whitney N. M. 2006. Underwater species identification of sharks in Hawaii. Sea Lancers Dive Club. Honolulu, Hawaii.
- Whitney N. M. 2005. Photo-identification of the whitetip reef shark in Hawaii. Kona Underwater Photographic Society. Kona, Hawaii.
- Whitney N. M. 2004. Behavioral and morphological adaptations for reproductive success in elasmobranchs. Friends of Hanauma Bay Year-End Holiday Meeting. Hanauma Bay, Hawaii.
- Whitney N. M. 2004. Behavioral and morphological adaptations for reproductive success in elasmobranchs. Maui Ocean Center, Maalea, Maui.
- Whitney N. M. 2003. Whitetip reef shark movements, reproduction, and mating behavior. Maui Ocean Center. Maalea, Maui.
- Whitney N. M and K. N. Holland. 2003. Movements of tiger sharks in coastal Hawaiian waters. Hawaiian Malacological Society. Honolulu, HI.
- Whitney N. M. 2003. Mating behavior and movement patterns of the whitetip reef shark, *Triaenodon obesus*. Summer Course in Elasmobranch Biology. Waikiki Aquarium, Hawaii.
- Whitney N. M. 2002. Movement patterns, biogeography, and photo-identification of whitetip reef sharks (*Triaenodon obesus*). Honolulu Underwater Photography Society. Waikiki Aquarium, Hawaii.
- Whitney N. M. 2002. So you want to be a marine biologist; the pros and cons, and what it takes to make it. Washington Middle School. Honolulu, HI.

Scientific Presentations

- Whitney N. M., Taquet M., Girard C., Brill R., Holland K. N. and L. Dagorn. 2005. Swimming depth of the dolphinfish (*Coryphaena hippurus*) from active and passive telemetry. American Society of Ichthyologists and Herpetologists. July 10, 2005. Tampa, Florida.
- Whitney N. M., Taquet M., Dagorn L., Girard C., Brill R. and K. N. Holland. 2005. Swimming depth of the dolphinfish (*Coryphaena hippurus*) from active and passive telemetry. 6th Conference on Fish Telemetry. June 5-11, 2005. Sesimbra, Portugal.
- Whitney N. M, Pratt H. L., and J. C. Carrier. 2004. Group courtship, mating behaviour, and siphon sac function in the whitetip reef shark, *Triaenodon obesus*. Annual Meeting of the American Elasmobranch Society. Norman, Oklahoma. (Poster)

- Whitney N. M. 2004. Behavioral and morphological adaptations for reproductive success in elasmobranchs. Hawaii High School Teachers Shark Conference. Hawaii Institute of Marine Biology.
- Whitney N. M., Pratt H. L., and Carrier J. C. 2003. Group courtship behavior and siphon sac function in the whitetip reef shark, *Triaenodon obesus*. 28th Annual Albert L. Tester Symposium. University of Hawaii at Manoa.
- Whitney N. M. 2003. Movement patterns, biogeography, and photo-identification of whitetip reef sharks (*Triaenodon obesus*). 28th Annual Albert L. Tester Symposium. University of Hawaii at Manoa. (Poster)
- Whitney N. M. 2002. Philopatry in the whitetip reef shark, *Triaenodon obesus*. Hawaii Institute of Marine Biology graduate research Symposium. University of Hawaii.
- Whitney N. M. 2001. Reproductive behavior of free-living nurse sharks (*Ginglymostoma cirratum*) in the Florida Keys. Hawaii Institute of Marine Biology graduate research Symposium. University of Hawaii.
- Carrier J.C., Pratt H. L., **Whitney N. M.**, and J. Beck. 2000. GPS-supplemented tracking and plotting of the movement of reproductively active male nurse sharks, *Ginglymostoma cirratum*. American Society of Ichthyologists & Herpetologists and American Elasmobranch Society. Penn State, Pennsylvania.
- Whitney N. M. 2000. Applications of ultrasonic telemetry to the study of reproduction behavior in nurse sharks, *Ginglymostoma cirratum*. The Elkin R. Isaac Student Research Symposium. Albion College, Michigan.

Synergistic Activities

ASSISTED RESEARCH: University of Hawaii at Manoa **08/00-present**

Vertical movements of dolphinfish, *Coryphaena hippurus*, in Hawaii (PI: Dr. Kim Holland)
 Movements of tiger sharks, *Galeocerdo cuvier*, in coastal Hawaiian waters (PI: Dr. Kim Holland)
 Effectiveness of Marine Reserves, reef fish movement patterns (Dr. Carl Meyer, diss. research)
 Nurse shark (*Ginglymostoma cirratum*) mating behavior and life history (PI: Dr. Jeff Carrier)
 Multiple paternity within broods of nurse sharks, *Ginglymostoma cirratum* (PI: Dr. Ken Saville)

UNIVERSITY SERVICE:

BOAT AND TRAILER TECHNICIAN: Dept. of Zoology, Univ. of Hawaii	2004-present
COMMUNITY SHARK WORKSHOP: Hawaii Institute of Marine Biology (HIMB)	10/04
GRADUATE STUDENT REPRESENTATIVE: Dept. of Zoology, Univ. of Hawaii	06/01-06/02

ADVISOR TO UNDERGRADUATE STUDENT PROJECTS: University of Hawaii at Manoa

Thomas Tinhon (Zoology undergraduate, University of Hawaii at Manoa)	12/06-05/08
Jessica Barcz (Zoology undergraduate, University of Hawaii at Manoa)	01/08-05/08
Jeffrey Milisen (Zoology undergraduate, University of Hawaii at Manoa)	08/07-12/07
Natalie Shellworth (BS in Marine Biology, Humboldt University, 12/06)	05/06-08/06
Kevin O'Brien (grad 05/06; now NOAA NWHI marine debris crew member)	01/06-05/06
Katie Hurd (BS in Biology, University of Hawaii at Manoa, 05/06)	01/05-05/05
Andrea Fiegle (BS in Zoology, University of Hawaii at Manoa, 12/06)	01/05-05/05
Kam Yai Young (BS in Zoology, University of Hawaii at Manoa, 05/07)	08/04-12/04

Nicolas Gioffre (BS in Biology, UH Manoa, 05/07; now Registered Nurse)	08/04-12/04
Morgan Hoesterey (BS in Zoology, University of Hawaii at Manoa, 05/05)	01/03-05/03
Misty Miller (grad. 05/05, now Research Technician at Hawaii Inst. of Mar. Bio.)	01/03-05/03
Elena Millard (grad. 05/05, now veterinary student at Michigan State University)	08/02-12/02
Jennifer Stuart (grad. 05/04, now medical student at Georgetown University)	08/02-12/02

Professional Affiliations

REVIEWER

Marine Biology	2008-present
Florida SeaGrant	2007-present
Journal of Fish Biology	2007-present
Aquatic Biology	2007-present
Marine and Freshwater Research	2006-present
Marine Ecology Progress Series	2004-present
Environmental Biology of Fishes	2004-present

MEMBER

Animal Behaviour Society	2002-present
Academy of Underwater Sciences	2002-present
American Society of Ichthyologists and Herpetologists	2002-present
Sigma Xi Research Society	1998-present
Mortar Board National Academic Honor Society	1999-present
American Elasmobranch Society	1996-present

References

Dr. Brian Bowen 808-236-7410
 Associate Researcher bbowen@hawaii.edu
 Hawaii Institute of Marine Biology
 PO Box 1346, Kaneohe HI 96744

Dr. Timothy Tricas 808-956-8677
 Associate Professor of Zoology tricas@hawaii.edu
 University of Hawai`i
 2538 McCarthy Mall, Edmondson 152
 Honolulu, HI 96822

Dr. James Parrish 808-956-8350
 Director, Hawaii Cooperative Fisheries Research Unit parrishj@hawaii.edu
 2538 The Mall, University of Hawaii, Honolulu, HI 96822

Dr. Malia Rivera 808-236-7401
 Education Specialist maliar@hawaii.edu
 Hawaii Institute of Marine Biology
 PO Box 1346, Kaneohe HI 96744

Dr. Kim Holland 808-236-7410
 Associate Researcher kholland@hawaii.edu

Hawaii Institute of Marine Biology
PO Box 1346, Kaneohe HI 96744

Dr. Jeffrey Carrier
Professor, Department of Biology
Albion College
Albion, MI 49224

517-629-0839
jcarrier@albion.edu