

Curriculum Vitae

Anne Wesley Simpson

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Education

Ph.D. Student in Marine Biology, University of Maine, in progress
Master of Science in Oceanography, University of Maine, 2003
Bachelor of Science in Biology, Mary Washington College, 1997

Professional Experience

2004-present: Ph.D. Graduate Student Research Assistant, University of Maine
1999-2003: M.S. Graduate Student Research Assistant, University of Maine
1997-1999: Laboratory Analyst, Environmental Systems Service, Ltd., Culpeper, VA
1997-1999: Exhibit Staff, National Museum of Natural History, Smithsonian Institution, DC
1997-1998: Research Assistant, Meadowview Biological Research Station, Bowing Green, VA
1995-1997: Student Lab Manager, York River Model Ecosystem, Mary Washington College
1995-1996: Park Intern, Fredericksburg/Spotsylvania National Park, Spotsylvania, VA
1995-1996: Teaching Assistant, Plant Ecology Lab, Mary Washington College, VA

Research Interests

Reproduction of cold water octocorals; Phylogenetic and taxonomic studies of Octocorallia;
Impact of fishing gear on benthic habitats

Teaching Experience

University of Maine, Teaching Assistant, Semester by the Sea – Darling Marine Center, Fall 2004
Gulf of Maine Foundation, Instructor for marine education programs, 2002 – present
University of Maine, Darling Marine Center, Marine Science Instructor for visiting elementary,
high school and college groups, 2003-present
University of Maine, National Science Foundation GK-12 Graduate Teaching Fellow, 2001-2002
University of Maine, Darling Marine Center, supervised summer undergraduate student research,
Summers 1999 - 2005

Relevant Coursework

Biological Oceanography, Chemical Oceanography, Physical Oceanography, Marine Geology,
Ecology of Sediments, Coral Reef Ecology, Evolution, Electron Microscopy, Developmental
Biology, Geographic Information Systems, Marine Invertebrate Zoology

Field Experience

Research Cruises

1999: R/V Ferrell, Graduate Student Research Assistant. Dredge collection of benthic samples in Stellwagen Bank National Marine Sanctuary. Research funded by Stellwagen Bank National Marine Sanctuary.

2001: R/V Atlantis and DSV Alvin, Graduate Student Research Assistant. Exploration, mapping and collection of deep-water coral communities on continental slope south of Georges Bank and inner New England Seamount Chain. Research funded by NOAA Ocean Exploration program.

2002: R/V Connecticut and ROV Kraken MaxRov, Graduate Student Research Assistant. Mapping and collection of cold water octocoral habitats in the Gulf of Maine. Research funded by National Undersea Research Program.

R/V Velero IV and manned submersible DELTA, Graduate Student Research Assistant. Mapping and collection of coral water coral habitats in the Aleutian Island Archipelago. Research funded by a grant to National Marine Fisheries Service, Auke Bay Laboratory, Juneau, Alaska.

2003: R/V Atlantis and DSV Alvin, Graduate Research Assistant. Exploration, mapping and collection of deep-water coral communities and associated fauna on the New England Seamount Chain. Research funded by NOAA Ocean Exploration program.

R/V Connecticut and ROV Kraken MaxRov, Graduate Student Research Assistant. Mapping and collection of cold water octocoral habitats in the Gulf of Maine. Research funded by National Undersea Research Program.

R/V Pelican, LUMCON. Graduate Student Research Assistant. Collection of sediment cores for biogeochemical studies in the Gulf of Mexico. Research grant to Dr. L. Mayer University of Maine, Darling Marine Center.

2004: R/V Delaware II, Graduate Student Research Assistant. Collection of sediment cores for biogeochemical studies in the Gulf of Maine. Research grant to Dr. L. Mayer University of Maine, Darling Marine Center.

R/V Ronald H. Brown and Institute for Exploration Hercules/Argus ROV system, Graduate Student Research Assistant. Exploration, mapping and collection of deep-water coral communities and associated fauna on the New England Seamount Chain. Research funded by NOAA Ocean Exploration program.

R/V Velero IV and manned submersible DELTA, Graduate Student Research Assistant. Mapping and collection of coral water coral habitats in the Aleutian Island Archipelago. Research funded by a grant to National Marine Fisheries Service, Auke Bay Laboratory, Juneau, Alaska.

2005: R/V Ronald H. Brown and Institute for Exploration Hercules/Argus ROV system, Graduate Student Research Assistant. Exploration, mapping and collection of deep-water coral communities and associated fauna on the Corner Rise Seamount group and the New England Seamount Chain. Research funded by NOAA Ocean Exploration program.

Other Field Experience

2000-2001: F/V Avalon, Primary scientific collaborator in cooperative fisheries research. Collection of box core samples for assessment of the impact of shrimp trawling on habitat and macrofaunal community structure on fishing grounds in the Gulf of Maine

2001: R/V Ira C and Phantom ROV. Graduate Student Research Assistant. ROV video transect of benthic habitats in the Gulf of Maine.

2002: F/V Adventurer and Phantom ROV. Primary scientific collaborator in cooperative fisheries research. ROV video transects of benthic habitats in the Gulf of Maine.

Bonaire National Marine Park. Scientific Diver and Research Assistant. Assessment of the status of coral reefs in Bonaire, Netherlands Antilles. Research funded by Bonaire National Marine Park.

Awards

Nancy Morse Dysert Student Travel Award (2004)

National Science Foundation Teaching Fellowship (2001-2002)

Graduate Research Grant, Association of Graduate Students, University of Maine (2000)

Travel Fund Award, Association of Graduate Students, University of Maine (2003)

Professional Associations

American Microscopical Society

Scientific Talks/Abstracts

January 2006: "Some Aspects of the Reproductive Biology of *Paramuricea placomus* (Alcyonacea: Octocorallia) from the Gulf of Maine." Society for Integrative and Comparative Biology Annual Meeting, Orlando, FL.

December 2005: "Reproductive Morphology of *Metallogorgia melanotrichos* (Chrysogorgiidae) and *Paramuricea placomus* (Plexauridae)." Third International Symposium on Deep-Sea Corals, Miami, FL.

- May 2005: "Growth-related changes in the morphology of *Metallogorgia melanotrichos* (Wright & Studer 1889) from the New England Seamount Chain." Graduate Student Symposium, School of Marine Sciences, University of Maine.
- April 2004: "Effects of Commercial Shrimp Trawling on Mud Bottom Fishing Grounds in the Gulf of Maine." Graduate Student Expo. University of Maine.
- March 2004: "An investigation of the cumulative impacts of shrimp trawling on mud bottom fishing grounds in the Gulf of Maine: Effects on habitat and macrofaunal community structure." Benthic Ecology Meeting, Mobile, AL.
- February 2004: "Distribution of Deep-Water Alcyonaceans off the Northeastern Coast of the United States." American Association for Advancement of Science, Seattle, WA.
- September 2003: "Alcyonacea of Kelvin and Manning Seamounts." Second International Symposium on Deep-Sea Corals. Erlangen, Germany.
- November 2002: "Physical and Biological Effects of Shrimp Trawling on Soft Sediment Habitats in the Gulf of Maine." Symposium on Effects of Fishing Activities on Benthic Habitats: Linking Geology, Biology, Socioeconomics, and Management. Tampa, FL.
- May 2000: "Impact of Shrimp Trawling on Sediment Structure and Mud Bottom Communities." Graduate Student Symposium, School of Marine Sciences, University of Maine.
- April 2000: "Tidal Flat Habitat". Clam (*Mya arenaria*) Long Term Research Planning Meeting. Maine Department of Marine Resources, Boothbay Harbor, ME.
- May 1999: "Shrimp Trawling on Marine Mud Bottoms: Effects on Sediment Structure and Resident Infauna." Graduate Student Symposium. School of Marine Sciences, University of Maine.
- May 1998: "A Census of Longleaf Pine (*Pinus palustris*) in Virginia." Proceedings of the Virginia Academy of Sciences. Fairfax, VA.
- May 1997: "A Comparison of Trace Metal Uptake in *Ulva lactuca* at a site in the York River, Virginia and in a novel model ecosystem." Proceedings of the Virginia Academy of Sciences. Blacksburg, VA.

Publications

- Simpson, A. and L. Watling. (In review). An investigation of the cumulative impacts of shrimp trawling on mud bottom fishing grounds in the Gulf of Maine: Effects on habitat and macrofaunal community structure.
- Simpson, A. 2004. Effects of shrimp trawling on mud bottom habitat and animal communities on fishing grounds in the Gulf of Maine. *Marine Research in Focus* (Vol. 1.) Maine Sea Grant.
- Simpson, A. and R.S. Steneck. 2003. Patterns of abundance: coral, sea fans, seaweed and sea urchins. A report on the status of the coral reefs of Bonaire with advice on the establishment of fish protection areas. Steneck, R.S., C.B. Begin, J. Brown, M. Paddock, S. Slingsby (eds.) Pp.15-21