

Curriculum Vitae

Name: Thomas M. Grothues
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Professional Preparation

B.A., Aquatic Biology; University of California, Santa Barbara 1988
M.S., Biology, California State University, Northridge; 1994
M.Phil., Coastal Oceanography, Marine Sciences Research Center, SUNY at Stony Brook; 1997
Ph.D., Coastal Oceanography, Marine Sciences Research Center, SUNY at Stony Brook, August, 1999
Postdoctoral Research Associate, Rutgers University 1999-2001

Appointments

2006-present. Acting Science Director. National Undersea Research Program, Middle Atlantic Bight Regional Center
2001-present. Assistant Research Professor, Rutgers University
1999-2001 Postdoctoral Research Associate, Rutgers University
1996-1998 New York Sea Grant Scholar
1990-1994 Graduate Research Coordinator, Research Assistant: Bay Estuary Nearshore Ecological Study, Cal State Univ., Northridge
1993 Graduate Assistant: Advanced Ichthyology, Cal State Univ., Northridge
1992 Assistant Coordinator: State Resources Intertidal Baseline Study, Leo Carrillo State Beach. California State Resources Agency
1998-1993 Marine Scientist, crew: University of Southern California Marine Support Facility, Terminal Island, CA 90731
1989-1990 Aquaculture Technician: Gregorio Aquatech, Terminal Is. CA 90731
1989 Field Research Assistant: Catalina Island Marine Science Center, CA

Publications (Most Recent of 18)

1. Grothues, T. M., J. Dobarro, A. Higgs, J. Ladd, G. Niezgoda, D. Miller. *In press*. Use of a multi-sensored AUV to telemeter tagged Atlantic sturgeon and map their spawning habitat in the Hudson River, USA. Proceedings of the 2008 Autonomous Underwater Vehicle (AUV) workshop. Woods Hole Oceanographic Institute, Woods Hole, Massachusetts
2. Kimball M. E., K. W. Able, and T. M. Grothues. *In press*. Evaluation of long-term response of intertidal creek nekton to *Phragmites* removal in oligohaline Delaware Bay salt marshes. *Restoration Ecology*
3. Grothues, T. M. *In press*. A review of acoustic telemetry technology and a perspective on diversification in coastal tracking arrays. *Review Methods in Fish Biology and Fisheries*
4. Mann, D. and T. M. Grothues. *In press*. Short-term upwelling events modulate fish sound production at a Mid-Atlantic observatory. *Marine Ecology Progress Series*
5. Grothues, T. M., K. W. Able, J. Carter, T. Arienti. *In press*. Migration patterns of striped bass (*Morone saxatilis*) through non-natal estuaries of the U.S. Atlantic Coast. *Transactions of the American Fisheries Society*.
6. Sackett, D. K., K.W. Able, T.M. Grothues. 2008. Habitat dynamics of summer flounder, *Paralichthys dentatus*, based on multiple approaches with acoustic telemetry. *Marine Ecology Progress Series*

Synergistic Activities

Mentoring/REU RIOS Intern Advisor to: Marcus Kwasek, Brian Reckenbei, Francis Buderman, Jessica Hoffman, Jaime C. Tirado, (M.S.) Caitlin Kennedy, Margeret Malone, Greg Henkes, Paul Clerkin, Alicia Manoski, Paige Roberts, Fernando Fuentes, Anya Watson, Katherine Seebald, Christian Gruber, David Hutnick,

NURP AUV Demonstration Projects

1. Sand Wave Mapping with an AUV in Eastern Long Island Sound, May 21-22, 2008
Demonstration Partners: Undersea Research Center of the North Atlantic and Great Lakes University of Connecticut
2. Shallow water benthic mapping in Chesapeake Bay with an AUV, June 9-10, 2008
Demonstration Partners: NOAA Chesapeake Bay Office, Cooperative Oxford Laboratory, MD, North Bay Environmental Center
3. Defining Atlantic sturgeon spawning habitat, Hudson River, Staatsburg, NY, June 11-13, 2008
Demonstration Partners: Hudson River National Estuarine Research Reserve, NYS DEC Hudson River Research Reserve, NYS DEC, Hudson River Fisheries Unit, New England Interstate Water Pollution Control Commission, Lotek Wireless, Inc.
4. Pilot Study to Expand Ongoing Efforts to Explain Coastal Hypoxia in Long Bay, SC using a REMUS AUV, July 11-13
Demonstration Partners: South Carolina Sea Grant Consortium, Coastal Carolina University, South Carolina Department of Health and Environmental Control's Office of Ocean and Coastal Resource Management, University of South Carolina, North Inlet Bay Winyah Bay National Estuarine Research Reserve, Southeast and Gulf of Mexico National Undersea Research Center
5. Survey of weakfish estuarine habitat, Mullica River, NJ August 6 2008
Demonstration Partners: National Science Foundation Research Experience for Undergraduates, Rutgers University Research Internships in Ocean Science
6. Mapping mussel reef boundaries in seasonally hypoxic water, Lake Erie, OH, September 15-19, 2008, Demonstration Partners: Great Lakes Ecological Research Laboratory (NOAA)
7. Mapping gag grouper habitat, Steinhatchee Fishery Area, FL, October 7-8, 2008
Demonstration Partners: School of Forest Resources and Conservation, Institute of Food and Agricultural Sciences (IFAS) at the University of Florida
8. Calibrating Asymmetric Logging Positioning System (ALPS) triangulation with a simulated fish (AUV), Steinhatchee Fishery Area, FL, October 9, 2008, Demonstration Partners: School of Forest Resources and Conservation, Institute of Food and Agricultural Sciences (IFAS) at the University of Florida

Collaborators and Affiliates – Kenneth W. Able, Eleanor A. Bochenek, (Rutgers University), David Nemerson (Baltimore Aquarium), Beth A. Phelan (NOAA), Peter M. Rowe (N.J. Sea Grant), David Mann (USF), Peter Thomas (UTex), Bill Lindberg

Graduate and Post-Doctoral Advisors – Kenneth W. Able (Post doctoral advisor, Rutgers University), Larry Allen (Masters Advisor, California State University Northridge), Robert K. Cowen (Ph.D. Advisor, University of Miami)

Thesis Advisor – Clare, L. Ng (Masters Committee), Dana K. Sackett (Masters Committee)