

CURRICULUM VITAE

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EDUCATION

B.A., Aquatic Biology; University of California Santa Barbara, 1988
M.S., Biology, California State University Northridge, 1994
Ph.M., Coastal Oceanography, Marine Sciences Research Center, State University of New York at Stony Brook, 1997
Ph.D., Coastal Oceanography, Marine Sciences Research Center, State University of New York at Stony Brook, 1999

WORK AND RESEARCH EXPERIENCE

2009-present Associate Research Professor, Rutgers University
2006-2012 Science Director, National Undersea Research Program, Middle Atlantic Bight Regional Center
2001-2009 Assistant Research Professor, Rutgers University
1999-2001 Post-doctoral Research Associate, Rutgers University
1996-1998 New York Sea Grant Scholar
1990-1994 Graduate Research Coordinator, Research Assistant: Bay Estuary Nearshore Ecological Study, California State University, 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. California
1989 Field Research Assistant: Catalina Island Marine Science Center, California

PUBLICATIONS

Able, K. W., J. L. Valenti, and **T. M. Grothues**. 2017. Fish larval supply to and within a lagoonal estuary: Multiple sources for Barnegat Bay, New Jersey. *Environmental Biology of Fishes*. OnLine First view doi: 10.1007/s10641-017-0595-0

Grothues T. M., A. E. Newhall, J. Lynch, G. Gawarkiewicz, and K. Vogal. 2017. High Frequency Side Scan Sonar Fish Reconnaissance by Autonomous Underwater Vehicle. *Canadian Journal of Fisheries and Aquatic Sciences*. 74(2): 141-146 DOI 10.1139/cjfas-2015-0301

Newhall, A.E., Y. T. Lin, **T. M. Grothues**, J. Lynch and G. G. Gawarkiewicz. 2016. A method of observing acoustic scattering from fish schools using autonomous underwater vehicles. *IEEE Journal of Oceanic Engineering*. DOI 10.1109/JOE.2016.2552878

- Grothues, T. M.**, J. L. Rackovan, and K.W. Able. 2016. Modification of nektonic fish distribution by piers and pile fields in an urban estuary. *Journal of Experimental Marine Biology and Ecology* 485:47-56.
- Turnure, J. T., K. W. Able, and **T. M. Grothues**. 2015. Patterns of intra-estuarine movement in adult weakfish (*Cynoscion regalis*): evidence of site-affinity at seasonal and diel scales. *Fishery Bulletin* 113:167-179.
- Turnure, J. T., **T. M. Grothues**, and K. W. Able. 2015. Seasonal residency of adult weakfish (*Cynoscion regalis*) in a small temperate estuary based on acoustic telemetry: A local perspective of a coast wide phenomenon. *Environmental Biology of Fishes* 98:1207-1221.
- Reiss, P., and **T. M. Grothues**. 2015. Geometric morphometric analysis of cyclical body shape changes in color pattern variants of *Cichla temensis* Humboldt, 1821 (Perciformes: Cichlidae) demonstrates reproductive energy allocation. *Neotropical Ichthyology* 13(1): 103-112.
- Able, K. W., **T. M. Grothues**, J. Morson, K. E. Coleman. 2014. Temporal variation in winter flounder recruitment at the southern margin of their range: Is the decline due to increasing temperatures? *In* Browman, H. Hjort Memorial Issue, *ICES Journal of Marine Science*. 12 pages.
- Able, K.W. **T.M. Grothues**, J. Turnure, M. Malone, G. Henkes. 2014. Dynamics of residency and egress in selected estuarine fishes: evidence from acoustic telemetry. *Environmental Biology of Fishes* 97(1): 91-102.
- Eiler, J. H., **T. M. Grothues**, J. A. Dobarro, and M. M. Masuda. 2014. Comparing autonomous underwater vehicle (AUV) and vessel-based tracking performance for locating acoustically-tagged fish. *Marine Fisheries Review* 75(4):27-42
- Able, K.W., **T. M. Grothues**, J. L. Rackovan, and F. E. Buderman. 2014. Application of Dual Frequency Identification Sonar (DIDSON) in an urban estuary: An approach for identifying fish species, schools, and behavior. *Northeastern Naturalist*. 21(2):192-209
- Grothues, T. M.** and W. C. Davis. 2013. Sound Pressure Level Weighting of the Center of Activity Method to Approximate Sequential Fish Positions from Acoustic Telemetry. *Canadian Journal of Fisheries and Aquatic Sciences*. 70(9): 1359-1371(13)
- Biesinger, Z, B. M. Bolker, D. Marcinek, **T. M. Grothues**, J. A. Dobarro, W. J. Lindberg. 2013. Testing an autonomous acoustic telemetry positioning system. *Limnology and Oceanography: Methods* 448:46-56
- Able, K. W., M. Wuenschel, **T. M. Grothues**, J. Vassilides, and P. Rowe. 2013. Do surf zones in New Jersey provide "nursery" habitat for southern fishes? *Marine and Coastal Fisheries*. 96(5):661-665
- Able, K. W., **T. M. Grothues**, and I. M. Kemp. 2013. Fine-scale distribution of nektonic fishes relative to a large urban pier. *Marine Ecology Progress Series*. 476: 185-198
- Grothues, T. M.**, K. W. Able, and J. A. Pravatiner. 2012. Winter flounder (*Pseudopleuronectes americanus* Walbaum) burial in estuaries: acoustic telemetry triumphs and tribulations. *Journal of Experimental Marine Biology and Ecology* 438:125-136
- Able, K.W. **T. M. Grothues**, Turnure, J. Byrne, D. and P. Clerkin, 2012. Distribution, movements, and habitat use of juvenile striped bass across multiple spatial scales: *Fishery Bulletin*. 110:176–192
- Yergey, M. E., **T. M. Grothues**, K. W. Able, C. Crawford and K. DeCristofer. 2012. Evaluating discard mortality of summer flounder (*Paralichthys dentatus*) in the commercial trawl fishery: Developing acoustic telemetry techniques. *Fisheries Research* 115-116:72-81.
- Able, K. W., **T. M. Grothues**, P. M. Rowe, M. J. Wuenschel, J. M. Vassilides. 2011. Near - Surface larval and juvenile fish in coastal habitats: comparisons between the inner shelf and an estuary in the New York Bight during summer and fall. *Estuaries and Coasts*. 34(4):726-738
- Grothues, T. M.** J. Dobarro and J. Eiler. 2010. Collecting, interpreting, and merging fish telemetry data from an AUV: Remote sensing from an already remote platform. *Proceedings of AUV 2010*, Monterey Bay, CA. *Autonomous Underwater Vehicles (AUV)*, 2010 IEEE/OES.9 pages
- Grothues, T. M.**, J. Dobarro. 2010. Fish telemetry and positioning from an autonomous underwater

- vehicle (AUV). Proceedings of Martech09, Barcelona, Spain
- Grothues, T. M.**, J. Dobarro, A. Higgs, J. Ladd, G. Niezgod, D. Miller. 2009. 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. *Autonomous Underwater Vehicles*, 2008. AUV 2008. IEEE/OES. 7 pages
- Grothues, T. M.**, K. W. Able, J. Carter, T. Arienti. 2009. Migration patterns of striped bass (*Morone saxatilis*) through non-natal estuaries of the U.S. Atlantic Coast. *Transactions of the American Fisheries Society*. Symposium 69:135-153
- Kimball M. E., K. W. Able, and **T. M. Grothues**. 2009. Evaluation of long-term response of intertidal creek nekton to *Phragmites* removal in oligohaline Delaware Bay salt marshes. *Restoration Ecology*. Early View Online DOI: 10.1111/j.1526-100X.2009.00543.x
- Grothues, T. M.** 2009. A review of acoustic telemetry technology and a perspective on diversification in coastal tracking arrays. pg 77-90 *In*: Nielsen, J.L.; Arrizabalaga, H.; Fragoso, N.; Hobday, A.; Lutcavage, M.; Sibert, J. (Eds.) *Tagging and Tracking of Marine Animals with Electronic Devices*. 400 p. *Reviews: Methods and Technologies in Fish Biology and Fisheries*, Vol. 9
- Mann, D. and **T. M. Grothues**. 2009. Short-term upwelling events modulate fish sound production at a Mid-Atlantic observatory. *Marine Ecology Progress Series* 375:65-76
- 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* 364:199-212
- Able, K. W., **T. M. Grothues**, S. M. Hagan, M. E. Kimball, and D. M. Nemerson. 2008. Long-term response of fishes to restoration of former salt hay farms: Multiple measures of restoration success. *Reviews in Fish Biology and Fisheries*. 18:65-97
- Grothues, T. M.** and K. W. Able. 2007. Acoustic telemetry of bluefish, *Pomatomus saltatrix* in an estuarine observatory: A preliminary study of habitat use and the feasibility of coastal application. *Transactions of the American Fisheries Society* 136: 1511-1519
- Sackett, D. K., K. W. Able, and **T. M. Grothues**. 2007. Dynamics of summer flounder, *Paralichthys dentatus*, seasonal migrations based on ultrasonic telemetry. *Estuarine and Coastal Shelf Science* 74: 119-130
- Able, K. W. and **T. M. Grothues** 2007. Approaches to Understanding Habitat Dynamics of Flatfishes: Advantages of Biotelemetry. *Journal of Sea Research* 58: 1-7
- Able, K. W. and **T. M. Grothues**. 2007. Diversity of striped bass (*Morone saxatilis*) estuarine movements: Synoptic examination in a passive, gated listening array. *Fisheries Bulletin* 105: 426-435
- Ng, C., K. W. Able, and **T. M. Grothues**. 2007. Habitat use, site fidelity, and movement of adult striped bass in a southern New Jersey estuary based on acoustic telemetry. *Transactions of the American Fisheries Society*. 136: 1344-1355
- Grothues, T. M.**, K. W. Able, J. McDonnell, M. Sisak. 2005. An estuarine observatory for real-time telemetry of migrant macrofauna: design, performance, and constraints. *Limnology and Oceanography: Methods* 3: 275-289
- Able, K., D. Nemerson and **T. M. Grothues**. 2004. Evaluating salt marsh restoration in Delaware Bay: Continued analysis of fish response at former salt hay farms. *Estuaries* 27(1): 58-69
- Grothues, T. M.** and K. W. Able. 2003. Discerning vegetation and environmental correlates with subtidal marsh fish assemblage dynamics during *Phragmites* eradication efforts: interannual trend measures. *Estuaries*. 26(2B): 574-586
- Grothues, T. M.** and K. W. Able. 2003. Response of juvenile fish assemblages in tidal marsh creeks during treatment for *Phragmites* removal. *Estuaries*. 26(2B): 563-573

- Grothues, T. M.**, R. K. Cowen, L. J. Pietrafesa, G. Weatherly, F. Bignami and C. Flagg. 2002. Flux of larval fish around Cape Hatteras. *Limnology and Oceanography* 47(1): 165-175
- Grothues, T. M.** and R. K. Cowen. 1999. Larval fish assemblages and water mass history and in a major faunal transition zone. *Continental Shelf Research* 19:1171-1198

MANUSCRIPTS IN REVIEW

- Oliver, S. **T. M. Grothues**, A. L. Williams, V. Cerna, M. Silvosa, G. Cases, M. Reed, S. Christopher. *In Review*. Risk and resilience: high stakes for sharks making transjurisdictional movements to use a conservation area. Submitted to *Biological Conservation* 07/03/2017.
- Able, K. W. and T. M. Grothues. *In review*. Essential Fish Habitat for Nearshore Sentinel Species of Fishes and Crabs in Heavily Urbanized New York Harbor. Submitted to *Urban Naturalist*. 05/9/2017
- Valenti, J. L., **T. M. Grothues**, and K. W. Able. *In review*. Estuarine Fish Communities along a Spatial Urbanization Gradient. Submitted to *Journal of Coastal Research*. 8/01/16
- Nickerson, K, **T. M. Grothues**, K. W. Able. *In review*. Effects of Climate Change on Juvenile Fish Assemblages of a Temperate Estuary: Analysis from a Decades-Long Time Series. *Climate Research*. Submitted to *Climate Research*. 4/24/17

MANUSCRIPTS IN REVISION OR PREPARATION

- Grothues, T. M.**, E. A. Bochenek, and S. Martin. Preventing Bycatch of Yellowtail Flounder in the Sea Scallop Dredge Fishery by Dredge Pause: Video Evaluation. Target Journal: *Fishery Bulletin*.
- Oliver, S. P., **T. M. Grothues**, Z. A. Mayo. Vertical movement of the pelagic thresher shark, *Alopias pelagicus*. Target Journal *Marine Ecology Progress Series*
- Colman, K. E., T. M. Grothues, K. W. Able. A fine scale study of winter flounder distribution in the southern Mid-Atlantic in relation to warming temperature.
- Nickerson, K, **T. M. Grothues**, K. W. Able. Sensitivity of a time series to guild construction: A case study for the Mullica River-Great Bay Ecosystem

BOOK REVIEWS

- Grothues, T. M. 1999. Book review. *The first year in the life of Estuarine Fishes in the Middle Atlantic Bight*. By K. W. Able and M. P. Fahay. *Transactions American Fisheries Society*.

COMMENTARY

- Able, K. W. and **T. M. Grothues**. 2012. Commentary of Strategies for *Enhancing Marine (and Human) Habitat at Brooklyn Bridge Park*. *Ecological Restoration* 30(1):76.

CONFERENCE PROCEEDINGS PAPERS

- Newhall, J. Lynch, Y.T. Lin, T. Grothues, and G. Gawarkiewicz, 2013. Scattering and reverberation from fish schools in the 500-1500 Hz band. *Proceedings of Meetings on Acoustics*. The Acoustical Society of America. Vol. 19, 005028 DOI: 10.1121/1.4799058
- Gawarkiewicz, G., K. Chen, J. F. Lynch, T M. Grothues, A. Newhall and Y-T. Lin. 2014. Impacts of the warming of the continental shelf in spring 2012 on acoustic propagation conditions and fish distributions north of Cape Hatteras. *J. Acoust. Soc. Am.* 135, 2154 (2014); <http://dx.doi.org/10.1121/1.4876982>

WHITE PAPERS

- Gawarkiewicz, G., J. Nelson, R. He, R. W. Fulweiler, J. Goff, **T. Grothues**, E. LaBrecque 2011. Shelf/Slope Processes: Science Opportunities and Issues Relating to the OOI Pioneer Array
- Thomas M. Grothues**, Olaf Jensen, Kenneth W. Able, Eleanor A. Bochenek, Lisa Auermuller. 2011. Summer Flounder Natural Mortality Workshop White Paper. A report to the Partnership for Mid-Atlantic Fisheries.

REPORTS

- Able, Kenneth W., Paul Jivoff, and **Thomas M. Grothues** and. Final Report to DEP Barnegat Bay Program for 2013. : Assessment of Fish and Crab Responses to Human Alteration in Barnegat Bay. 42 pages
- Able, Kenneth W., Paul Jivoff, and **Thomas M. Grothues** and. Final Report to DEP Barnegat Bay Program for 2012. : Assessment of Fish and Crab Responses to Human Alteration in Barnegat Bay. 38 pages
- Able, Kenneth W., and **Thomas M. Grothues**. Annual Report for 2011: Impacts of shoreline modifications on fishes and crabs in New York Harbor.
- John Eiler, **Thomas Grothues**, Joseph Dobarro, Michelle Masuda, David Carlile, Julie Nielsen, Nicola Hilgruber, Johanna Vollenieder. 2011. Final Report to North Pacific Research Board Project 928. Use of an autonomous underwater vehicle (AUV) for tracking acoustically-tagged fish in complex marine environments in coastal Alaska.
- Kenneth W. Able and **Thomas M Grothues**. 2011. Final Report to New York City Department of parks and Recreation. Behavior of Fishes Associated with Piers: Responses in the Lower Hudson River
- Kenneth W. Able and **Thomas M Grothues**. 2011. Final Report New Jersey Sea Grant: Habitat dynamics of adult winter flounder: connectivity between estuaries and inner continental shelves influence management of human impacts associated with dredging.
- Thomas Grothues** and Kenneth W. Able. 2010. Final Report to Hudson River Foundation. Fishes associated with piers in the lower Hudson River Estuary; hydroacoustic sampling of an underevaluated resource.
- Thomas Grothues**, Joe Dobarro, and Lisa Calvo. 2011. Acoustic Mapping of Sturgeon and their Critical Habitats in the Delaware River and Estuary from a Multi-Sensored Autonomous Underwater Vehicle. Final Report to DuPont's Clear into the Future Delaware Estuary and Watershed Grant Program
- Thomas Grothues**, Joe Dobarro, and Lisa Calvo. 2011. Acoustic Mapping of Sturgeon and their Critical Habitats in the Delaware River and Estuary from a Multi-Sensored Autonomous Underwater Vehicle in the Marcus Hook Anchorage. Final Report to South Jersey Port Authority.
- Grothues, T. M.** and E. A. Bochenek. Fine scale spawning habitat delineation for winter flounder (*Pseudopleuronectes americanus*) to mitigate dredging effects – Phase II (Cycle 8) 2/2011
- Able, K. W., **T. M. Grothues**, B. Lemasson, S. Piotrowski, G. Petruzelli. Annual technical reports 2000-2006 Marsh Restoration Project: Fish Assemblage Structure. Annual and Final Reports to Public Service Enterprise Group (7 Total)
- Grothues, T.M.** B. A. Phelan, E. A. Bochenek. Telemetry of spawning winter flounder, *Pseudopleuronectes americanus*, in a New Jersey estuary. Final Report to the I Boat New Jersey Grant Program of the New Jersey Department of Transportation Office of Maritime Resources
- Grothues, T. M.** and K. W. Able. Association of Adult Fishes with Piers in the Lower Hudson River: Hydroacoustic Surveys for an Undersampled Resource. Final Report to the Hudson River Foundation. 2010

TELEVISION FEATURES

2015. Ninja Sharks. Documentary. Principal. Shark Week, The Discovery Channel.

<https://www.discovery.com/tv-shows/shark-week/videos/the-thresher-whip-tailed-shark>

INTERACTIVE WEB PUBLICATION (NOT PEER-REVIEWED)

IMCS Home Page Exciting Science Contribution <http://marine.rutgers.edu/main/Exciting-Science/Exciting-Science-Tracking-Fish-with-Sound.html>

Tracking acoustically tagged fish in Alaska with an AUV. The Auke Bay Blog web page.

<http://marine.rutgers.edu/nurp/Auke-Bay/>

StriperTracker: <http://www.StriperTracker.org>

A Field Guide to the Fishes of Great Bay. Delalio, C., K. Johnson, T. M. Grothues

<http://www.stripertracker.org/biology/fieldguide.html>

The Winter Flounder Web. <http://marine.rutgers.edu/navesink/>

LeoPhone. <http://marine.rutgers.edu/leophone/>

GRANTS AWARDED

Canadian Foundation for Innovation Nov 2016-Jan 2017

Granting Agency: U.S. Army Corps of Engineers. Assessment of Dredge Spoil Island Shorelines as Habitat for Juvenile Summer Flounder and Other Fishes. Total Award Amount: \$ 56,493. PI

Granting Agency: New Jersey Sea Grant. Effects of Climate Change on Estuarine Fish Nurseries: Analyses and Implications from Decades-Long Time-Series. Total award amount: \$ 138,888. Co-PI

Granting Agency: National Estuarine Research Reserve Science Collaborative Transfer Program. Transfer of SWMP analytical products and capability to NERR Research Coordinators. Total award amount: \$45,000. PI

Granting Agency: Hudson River Foundation. A synthesis of studies on the response of fish to shoreline modification in the New York Harbor region. Total Award Amount: \$ 93,730 PI

Granting Agency: North Pacific Research Board. Using an autonomous underwater vehicle (AUV) with telemetry-based payload-control to determine the movements and environmental correlates of pelagic fish Total Award Amount: \$ 149,556 PI

Granting Agency: 3013.National Park Service Submerged Marine Habitat Mapping at Sandy Hook, Total Award Amount: \$ 509,000 Co-PI

Granting Agency: 2013 MAFMC Research Set-Aside Program National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Department of Commerce. Preventing Bycatch of Yellowtail Flounder in the Sea Scallop Dredge Fishery by Dredge Pause: Video Evaluation. Award amount: Subject to Fisheries sales, approximately \$81,626 PI

Granting Agency: Barnegat Bay Program. Evaluating the role of climate change in fisheries declines in Barnegat Bay: The response of larval fish communities Yr 2. Total Award Amount: \$250,000 Co-PI

Granting Agency: Hudson River Foundation Fish Response to floating structures in New York Harbor. Total amount (direct costs) \$179,999. Co-PI

Granting Agency: Hudson River Foundation Improvements to New York Harbor Fish Habitats: Evaluation of Essential Fish Habitat for Shallow Shorelines. Total Amount: \$241,129 PI

Granting Agency: Barnegat Bay Program. Evaluating the role of climate change in fisheries declines in Barnegat Bay: The response of larval fish communities. Total Amount: \$86,114 Co-PI

Granting agency: New Jersey Sea Grant. The decline of winter flounder: Influences of changes in connectivity between estuaries and the inner continental shelf. Total Amount: \$:169,163 Co-PI

Granting agency: MAFMC Research Set-Aside Program, NMFS, NOAA, Dept. of Commerce. Understanding the effects of fishing on the size, age, and sex distribution of black sea bass (*Centropristis striata*) during the spawning season. Total Amount: \$221,784 Co-PI

Granting agency: Office of Naval Research (Prime offer) subcontract to Woods Hole Oceanographic Institute: Field work program for quantifying acoustic uncertainty due to marine mammals and fish near the shelfbreak front off Cape Hatteras. PI. Total grant (direct costs) \$175,000

Granting agency: Hudson River Foundation. Impacts of shoreline modification on fish and crabs in New York Harbor, Total grant (direct costs) \$223,108 Co-Principle Investigator

Granting Agency: Army Corps of Engineers. Assessment of Risk on Entrainment of Juvenile Summer Flounder (*Paralichthys dentatus*) by Hydraulic and Mechanical Dredges. Awarded amount \$35,909 Co-PI

Granting Agency: NOAA. Various development and 11 demonstration funds to Mid-Atlantic Bight National Undersea Research Center. Totaling 103,207. CoPI

Granting Agency: DuPont Clear into the Future. Sub contract to Seaboard Fisheries Institute (Lisa Calvo). Program Period: 7/01/2009 –6/30/2010. Acoustic Mapping of Sturgeon and their Critical Habitats in the Delaware River and Estuary from a Multi-Sensored Autonomous Underwater Vehicle. Co-PI 30%. Awarded amount \$25,000

Granting Agency: National Oceanic and Atmospheric Administration (Principle) Sub contract to University of Texas at Austin (Peter Thomas). Program Period: 7/01/2010 –6/30/2013. Behavior of Atlantic croaker in response to hypoxia in the northern Gulf of Mexico. PI. Award amount \$94,253

Granting agency: New Jersey Department of Transportation, Maritime Resources. Program Period: 1/01/2009 –12/30/2010. Total grant (direct costs) \$130,851 Title: Fine-scale spawning habitat delineation for winter flounder: an approach to help mitigate dredging effects. Co-PI

Granting Agency: New Jersey Sea Grant College Program. Program Period: 03/01/2008 – 02/28/2010. Title: Habitat Dynamics of Adult Winter Flounder: Connectivity Between Estuaries and Inner Continental Shelves Influence Management of Human Impacts Associated with Dredging. Requested Amount: \$98,926 Co-PI

Granting agency: 2008 MAFMC Research Set-Aside Program, National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Department of Commerce. Title: Discard Mortality in the Summer Flounder Fishery: A New Approach to Evaluation Total Grant: \$101,146.00 Co-PI

Granting agency: Hudson River Foundation Association of Adult Fishes with Piers in the Lower Hudson River: Hydroacoustic Surveys for an Unsampled Resource, Total grant (direct costs) \$214,428 Co-PI

Granting agency: New York City Parks and Recreation Period 6/1/2007-5/30/2009. Total grant (direct costs) \$253,748. Title: Behavior of Fishes Associated with Piers: Responses in the Lower Hudson River Co-PI

Granting agency: Jules Plangere Jr. Striped Bass Tracking Continuation. Gift Amount: \$70,000. Co-PI

Granting agency: New Jersey Sea Grant Development Program (NURP) Development. Program Period 4/1/2006-3/31/2007. Total grant (direct costs) \$4893. Title: Modeling the sensitivity of acoustic telemetry gate escapement to seven user-defined variables PI

Granting agency: National Undersea Research Program (NURP) Development. Program Period 4/1/2006-3/31/2007. Total grant (direct costs) \$15,000. Title: Calibrating the estuarine telemetry observatory performance among fish species to optimize coast-wide deployments Principle Investigator PI

Granting agency: New Jersey Department of Transportation, Maritime Resources. Program Period: 7/01/2005 –6/30/2007. Total grant (direct costs) \$191,657 Title: Fine-scale spawning habitat delineation for winter flounder: an approach to help mitigate dredging effects. Co-PI

Granting agency: Public Service Enterprise Group. Program Period 04/01/2005 - 03/31/2006. Title: A continued evaluation of marsh restoration in Delaware Bay during 2005: comparison of fish assemblage structure. \$335,130. Co-PI

Granting agency: Rutgers University, Bluefish/Striped Bass Dynamics Research Program Period 4/1/2004-11/31/2005. Total grant (direct costs) \$47,558. Title: Acoustic telemetry of bluefish in Gulf of Maine and Middle Atlantic Bight estuaries and in the Adjacent Coastal Ocean. PI

Granting agency: Bluefish/Striped Bass Dynamics Research Program 2004-2005: Year 3 Migration dynamics of striped bass in the Middle Atlantic Bight using recent advances in telemetry technology. \$70,256.Co-PI,

Granting agency: National Undersea Research Program (NURP). Period 4/1/2004-4/31/2005. Total grant (direct costs) \$174,542. Title: Passive Acoustic Mapping of Essential Fish Habitat at LEO-15. Co-PI

Granting agency: Bluefish/Striped Bass Dynamics Research Program 2003-2004: Year 2 Migration dynamics of striped bass in the Middle Atlantic Bight using recent advances in telemetry technology. \$53,256. Co-PI,

Granting agency: Bluefish/Striped Bass Dynamics Research Program Period 8/1/2002-7/31/2003. Total grant (direct costs) \$181,212. Title: Migration dynamics of striped bass in the Middle Atlantic Bight using recent advances in telemetry technology. Co-PI

Granting agency: Public Service Enterprise Group. Program Period 04/01/2003 - 03/31/2005. Title: A continued evaluation of marsh restoration in Delaware Bay during 2003-2004: comparison of fish assemblage structure. \$613,355. Co-PI

TEACHING

2004-present Faculty, Graduate Program in Oceanography, Institute of Marine and Coastal Sciences, Rutgers University

2001, 2003 Guest lectures: Ichthyology (Multivariate Statistics, Systematics, Migration Ecology)

1997 –1998 Jason Project (Teacher’s Advancement, 12/97; Gardiner’s Ave School, Levitown, NY. 01/98)

1995 Teaching Assistant: Computer Laboratory, SUNY at Stony Brook

1994 Teaching Assistant: Oceanic Problem Solving, SUNY at Stony Brook

1992 Graduate Assistant: Biology of Pelagic Organisms, Cal State Univ., Northridge

1988-1992 Laboratory instructor on board R/V Sea Watch for numerous courses including: Oceanography (USC), Marine Biology (Cerritos JC, Fullerton JC, CSLA, CSDH, UCLA, LAUSD Teacher’s Advancement)

GRADUATE STUDENT COMMITTEES

Jessica Valenti (current). Fish response to urbanization in Barnegat Bay. Ph.D. Adviser

Katherine Nickerson (current). Fish assemblage response to climate change in the Mullica River Great Bay estuary. M.S. Adviser

Paul Reiss Ph.D. (2015) Aspects of the life history of *Cichla temensis* (Perciformes: Cichlidae) and its relationship to the amazon basin’s flood pulse. Committee Member

Jenny Paterno M.S. (2015) Fish use of restored and natural oyster reefs. Committee Member

Kaycee Coleman M.S. (2015). Understanding the winter flounder (*Pseudopleuronectes americanus*) Southern New England/ Mid-Atlantic stock through historical trawl surveys and monitoring cross continental shelf movement. Adviser

Jamie Caridad (2013) Committee Member M.S. (withdrew)

Mikaela Provost M.S. (2013). Social regulation of sex change in black seabass (*Centropristes striata*). Committee Member

Matthew Yergey M. S. 2011 The use of acoustic telemetry for assessing discard mortality in the summer flounder commercial fishery. Committee Member

Jason Turnure M.S. 2010. Biology of weakfish *Cynoscion regalis* in a southern New Jersey estuary. Committee Member

Joan Pravantier, M.S. 2010. Habitat dynamics of adult winter flounder: connectivity between estuaries and the inner continental shelf. Committee Member

Matthew Kimball, Ph.D. 2008. Habitat Ecology of Intertidal Fishes in Southern New Jersey Salt Marshes: Responses in Natural and Restored Marshes. Committee Member

James Vasslides, M.S. 2007. Fish assemblages and habitat use across a shoreface sand ridge in southern New Jersey. Committee Member

Clare L. H. Ng, M.S. 2006. Habitat utilization and movement patterns of adult striped bass, *Morone saxatilis*, in a southern New Jersey estuary using acoustic telemetry. Committee Member

Dana Rowles, M.S. 2005. An evaluation of summer flounder, *Paralichthys dentatus*, coastal habitat dynamics: migration and estuarine habitat use in the Jacques Cousteau National Estuarine Research Reserve. Committee Member

SENIOR THESIS ADVISING

Zoe Mayo. 2014-2015. University of Liverpool, UK. Diving behavior of telemetered pelagic thresher sharks in Visayan Sea, Philippines.

Amie L. Williamson. 2014-2015. Marine Biological Association of Scotland, UK. Visitation rates and subsequent dispersal from cleaner stations for parasite infected pelagic thresher sharks at Monad Shoal, Philippines

MENTORING

Ryan Lutz. 2017. Pinelands High School Graduating Senior Professional Internship Mentor for Francesca Roselli. 2016. Reader for George H. Cook Honors Thesis.

Zoe Mayo. 2015. Summer Intern.

Katelyn Fernandi 2015. Summer Intern at Aquaculture Innovation Center, Cape May.

Theodore Mercurio 2015. RIOS Intern.

Jennifer Wright 2015. RIOS Intern.

Mathew Weiker 2015. Summer Intern at Jacques Cousteau National Estuarine Research Reserve

Gillian Schreiver 2014. Ocean County Vocational Technical School, Marine Academy of Technology and Environmental Science, Student Learning Experience Internship

Anders Winquist-Bailey. 2014. RIOS Intern. Analysis of Fish Assemblages Across a Gradient of Human Alteration in Creek Habitats in Barnegat Bay

Holly Kiang 2013. RIOS Intern. Historical change in Barnegat Bay fish assemblage

Chandler Navara 2013. RIOS Intern. Horseshoe crab early life history and habitat use

Maria Berezin 2013. Stockton College Stacey Hagan Memorial Intern. Larval fish assemblage variation in Little Egg Harbor

James Killfoil. 2013-2014. University of Delaware

Dana Christensen. 2012-2013. Modeling sturgeon movements. Masters Program in Computational Science, Stockton College. Mentor

Kaela Shea Vogel. 2012 .NSF/REU RIOS Intern. Automatic pelagic fish detection by area distribution in side scan sonar images. Project Advisor

Heather Afford. 2012. George H. Cook Honors Program Summer Intern. Submerged aquatic vegetation fish assemblages along an urbanization gradient in Barnegat Bay. Project Co-Advisor

Gina Clementi 2012. NSF/REU RIOS Intern. Salt-marsh fish assemblages along an urbanization gradient in Barnegat Bay. Project Co-Advisor

Garcella Baysmore. 2011-2012. New York Harbor School Internship.

Jordan Henry. 2011-2012. Pinelands High School Graduating Senior Professional Internship

Andrew Hassall, 2011. NSF/REU RIOS Intern. Small-scale movements of Black Sea Bass, *Centropristis striata*, using telemetry. Project Advisor

Caitlin Mcgarigal. 2010. NSF/REU RIOS Intern. Evaluating use of motion activated transmitters to track Summer Flounder in the Mullica River estuary. Project Advisor

Kevin DeCristofer. 2009. NSF/REU RIOS Intern. Short-term movement response of summer flounder (*Paralichthys dentatus*) to tag attachment. Project Co-Advisor

Merril Rudd. 2009. RIOS Intern. Edge effects in the orientation of predatory fishes to piers in an urban estuary. Project Co-Advisor

Callie Crawford. 2009. NSF/REU RIOS Intern. Fate of summer flounder (*Paralichthys dentatus*) carcass discards. Project Co-Advisor

Emily Sexton. 2009. NSF/REU RIOS Intern. Non-invasive approaches to determining the sex of summer flounder (*Paralichthys dentatus*) in the field. Project Co-Advisor

Iris Kemp. 2009. NSF/REU RIOS Intern. Effect of piers on small schooling fishes in an urban estuary

Mathew Yergey. (M.S. program), current. Discard mortality of summer flounder (*Paralichthys dentatus*)

Marcus Kwasek. 2009. Rutgers University Research Credits. AUV-supported sidescan sonar survey of Atlantic sturgeon (*Acipenser oxyrinchus oxyrinuchus*). Project Advisor

Brian Reckenbeil. 2008. NSF/REU RIOS Intern. Diel patterns of habitat use by weakfish, *Cynoscion regalis*, in the Mullica River/Great Bay estuary. Project Co-Advisor

Francis Buderman. 2008. NSF/REU RIOS Intern. Effect of pier shading on prey fish in the Hudson River, using Dual Frequency Identification Sonar. Project Co-Advisor

Jessica Hoffman. 2008. RIOS Intern. Development of a rapid tagging technique for short term studies on summer flounder, *Paralichthys dentatus*. Project Advisor

Jaime C. Tirado. (M.S.) 2007. Mentoring (Statistics) Graduate School-New Brunswick, Rutgers University. Biomass Changes in Seagrass Epiphytes in Shallow Coastal Bay Systems

Caitlin Kennedy, 2008. NSF/REU RIOS Intern, Fish sound production in a Mid-Atlantic Bight tidal creek 2007. Rutgers University Summer Intern. Fish sound production in a Mid-Atlantic Bight tidal creek. Project Advisor

Margeret Malone, 2006. NSF/REU RIOS Intern. Distribution of telemetered smooth dogfish, *Mustelus canis*, in a southern New Jersey estuary. Project Advisor.

Greg Henkes, 2006. NSF/REU RIOS Intern. Investigating Feasibility of Acoustic Telemetry and Habitat Use of Adult Hickory Shad, *Alosa mediocris*, in the Mullica River/Great Bay Estuary, New Jersey

Paul Clerkin, 2006. NSF/REU RIOS Intern Movement of Sub-Adult Striped Bass (*Morone saxatilis*) within an Estuarine Ecosystem. Project Advisor.

Alicia Manoski, 2005. NSF/REU RIOS Intern, Project advisor. Using Acoustic Telemetry to track Bluefish (*Pomatomus saltatrix*) in the Great Bay/Mullica River Estuary

Paige Roberts, 2005. NSF/REU RIOS Intern, Project advisor. Day Time vs. Crepuscular Movements of Newly Tagged Striped Bass, *Morone saxatilis*, Using Ultrasonic Telemetry. Project Co-Advisor

Fernando Fuentes 2004-2005. RIOS and Undergraduate Cook Scholar Honors Thesis Program, Day and night movement comparisons of the striped bass of Great Bay /Mullica River Estuary. Project Advisor.

Anya Watson, 2004. NSF/REU RIOS Intern, Tracking the elusive Great Bay Horseshoe crab *Limulus polyphemus* with Ultrasonic Telemetry: What do horseshoe crabs do after the spawning season? Project Co-advisor

Katherine Seebald, 2004. NSF/REU RIOS Intern, The use of ultrasonic telemetry for assessing diel differences in habitat use by juvenile and adult summer flounder, *Paralichthys dentatus*, in the Great Bay–Little Egg Harbor Estuary Project Co-Advisor.

Christian Gruber, 2001. Stockton College Undergraduate Intern. Distribution of mummichog (*Fundulus heteroclitus*) fecundity across a salinity gradient.

David Hutnick, 2000. Rutgers University Summer Intern, co-advisor. Analysis of the stomach contents of white perch, *Morone americana*, from the upper Delaware Bay.

HONORS AND AWARDS

1993 Honors, California State University, Northridge, CA

Phi Kappa Phi National Honor Society Judge Julian Beck Award for Academic Excellence

SOCIETY MEMBERSHIP

American Fisheries Society, Early Life History Section

American Society of Limnology and Oceanography

Phi Kappa Phi Honor Society

Sigma Xi

MS THESIS

An investigation into the genetic population structure and larval dispersal patterns of the kelp bass (*Paralabrax clathratus*). California State University, Northridge, CA

PH.D. DISSERTATION

Larval fish exchange between the South and Middle Atlantic Bights. Marine Sciences Research Center, State University of New York, Stony Brook, NY

NURP AUV DEMONSTRATION PROJECTS

Project Title: BEST in the Bay. Bay Estuary Sensor technology. The Role of AUVs in filling the gap. July 26- July 28, Oxford, MD. Demonstration Partners: NOAA (various departments), University of Delaware, Northrop-Grumman, Yellow Springs Instruments. Boy Scouts of America, JCNEER.

Project Title: Tracking tagged fish with an autonomous underwater vehicle in Alaska. Project partners: National Marine Fisheries Service, University of Alaska, Fairbanks, University of Alaska Southeast. Alaska Department of Fish and Game, Division of Commercial Fisheries

Project Title: Graveyard of the Atlantic, USS Monitor Expedition 2009. June 21-June 27, 2009. Demonstration Partners: NOAA Marine Sanctuaries Program, Aqualung USA, Silent Diving Systems, Deep Outdoors, TMBA Broadcast Animation, O.C. Diver, Margie II, Sartek Ind, Sony XDCAM, Sony HDV, Fujinon Optics, Deep Explorers

Project Title: AUVs in the Bay, MD. June 15-June 18, 2009. Demonstration Partners: NOAA Chesapeake Bay Office, US Navy, University of Delaware, Yellow Springs Instruments, others.

- Project Title: Mapping Benthic Resources of the Gateway National Park, Sandy Hook, NJ. November 19, 2008. Demonstration Partners: National Park Service, National Marine Fisheries Service, MAST Academy
- Project Title: 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
- Project Title: 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
- Project Title: Mapping mussel reef boundaries in seasonally hypoxic water, Lake Erie, OH, September 15-19, 2008. Demonstration Partners: Great Lakes Ecological Research Laboratory (NOAA)
- Project Title: 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
- Project Title: 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
- Project Title: 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.
- Project Title: 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
- Project Title: 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

PRESENTATIONS/LECTURES/POSTERS/E-MEDIA

2017. Boat tour of the Mullica River- Great Bay Estuary for winners of the 2017 ShoreBowl Academic competition
2017. John Eiler, Thomas Grothues, Tom Dodson, Joseph Dobarro, Rahul Shome, and Michelle Masuda Presentation to the Alaska Marine Science Symposium 2017: *Tracking marine fish using an autonomous underwater vehicle with payload control*
2017. John Eiler, Thomas Grothues, Tom Dodson, Joseph Dobarro, Rahul Shome, and Michelle Masuda. Review of NPRB-sponsored research: Tracking marine fish using an autonomous underwater vehicle with payload control. Presentation to the Alaskan Fisheries Science Center.
2017. John Eiler, Thomas Grothues, Tom Dodson, Joseph Dobarro, Rahul Shome, and Michelle Masuda. The feasibility of tracking marine fish using an autonomous underwater vehicle with payload control. Oral presentation to the 4th International Conference on Fish telemetry. Cairns, Australia, June

2017. Valenti, J.L., T. Grothues, and K.W. Able. Fishes of a Temperate Estuary: Temporal and Subhabitat Influences on Species Composition and Abundance. Manasquan River Marlin and Tuna Club Spring Opening Reception, Point Pleasant, New Jersey. April
2017. Valenti, J.L., T.M. Grothues, and K.W. Able. Fishes and Crabs of a Temperate Estuary: Diel Influence on Species Composition and Abundance. Atlantic Estuarine Research Society Spring Conference, St. Mary's City, Maryland. March
2017. Valenti, J.L., T. Grothues, and K.W. Able. Fishes of a Temperate Estuary: Temporal and Subhabitat Influences on Species Composition and Abundance. Joint Meeting of the American Fisheries Society Southern New England Chapter and Northeastern Division, Mystic, Connecticut. February.
2017. Rutgers & NMFS Smolt tracking with AUV - Alaska, 2016.
<https://www.youtube.com/watch?v=6MDVph45iDQ>
2016. Flounder bycatch escaped scallop dredge during midwater pause.
<https://www.youtube.com/watch?v=QCtQP63O55g>
2016. Jessica Valenti, Thomas Grothues, and Kenneth W. Able. "Fishes of a Temperate Estuary: Temporal and Subhabitat Influences on Species Composition and Abundance", Poster. Atlantic Estuarine Research Society Meeting, Catonsville, MD 11/17-18
2016. Nickerson, K.J., T. Grothues and K.W. Able. Response of Fish Assemblage Composition in the Mullica-Great Bay Estuary to Climate Change. Poster presentation at Rutgers Climate Symposium, New Brunswick, NJ. 11/18
2016. Jessica Valenti, Thomas Grothues, and Kenneth W. Able. "Fishes of a Temperate Estuary: Temporal and Subhabitat Influences on Species Composition and Abundance", Oral Presentation. American Fisheries Society Mid Atlantic Chapter Meeting, Bordentown, NJ 10/27-28
2016. Thomas Grothues, John Eiler, Tom Dodson, Joseph Dobarro, Rahul Shome, and Michelle Masuda. "Automation of search path deviation to precisely geo-locate acoustically tagged fish from a single-hydrophone autonomous underwater vehicle", Oral presentation. American Fisheries Society Mid Atlantic Chapter Meeting, Bordentown, NJ 10/27-28
2016. Katherine Nickerson, Ken Able, and Thomas Grothues "An Assessment of the Effects of Climate Change on Fish Assemblages in the Mullica-Great Bay Ecosystem. Oral Presentation American Fisheries Society Mid Atlantic Chapter Meeting, Bordentown, NJ 10/27-28
2016. Project TOTE (Teachers on the Estuary) lecturer/demonstrator. JCNERR Education Center, Tuckerton and Sandy Hook Unit Gateway National Park, 7/14-15
2016. Explore Fish Inside and Out: Fish Anatomy and Dissection for Families. JCNERR summer education program. JCNERR Education Center, Tuckerton, 6/22
2016. Behind the scenes of Shark Week. Tracking pelagic thresher sharks in the Philippines. Sharkfest. Beach Haven, 6/17
2016. Nickerson, K*, T. M. Grothues, K. W. Able. Response of fish assemblage composition in the Mullica-Great Bay estuary to climate change. *Oral Presentation. Northeast Fish and Wildlife Association Annual Meeting, Annapolis MD. 4/4
2016. Dredge material deposition returns island shoreline fish habitat to a modified estuary. Poster. Grothues, T. K. W. Able, R. Blama. Northeast Fish and Wildlife Association Annual Meeting, Annapolis MD. 4/4
2016. Coastal Processes and Resources. Presentation to NOAA Shoreline Cleanup and Assessment Technique Workshop. Tuckerton, NJ 3/28
2016. Fish Communities in Barnegat Bay, New Jersey: Comparison along an Urbanization Gradient in the Watershed. Poster. Valenti, J. L., Grothues, T., and Able, K.W. Atlantic Estuarine Research Society Conference, Virginia Beach, VA 3/11.

2016. Free MATLAB and R Code for the Standardized Time Series Analysis of SWMP Data. Grothues, T. O. Doherty, J. Allen. Poster. SWMP Technician Training Workshop. Ft. Lauderdale FL. 3/13
2016. Acoustic Telemetry of Pelagic Thresher Sharks. Presentation to Society for the Education of American Sailors (SEAS). Monmouth Chapter. Keyport, NJ 1/26
2015. Bluefish Life History and Recent Observations. Garden State Seafood Association Fisheries Workshop. Oral Presentation. Tuckerton, NJ 12/11/2015
2015. Assessment of Fishes and Crabs Response to Human Alteration of Barnegat Bay. T. M. Grothues, K. W. Able, J. Valenti, P. Jivoff. Oral Presentation. What Lies Beneath –Barnegat Bay. Barnegat Bay Research Forum. Toms River 11/17
2015. Taking advantage of AUV navigation precision for repeated side scan sonar measures. Grothues, T., J. Dobarro, M. De Luca, D. Levin. B. Meisinger, G. Twiley, C. Fuller, R. Petrecca. Oral Presentation. Coastal Estuarine Research Federation 23rd Biennial Conference. Portland, OR. 11/11
2015. Levin, D., T. Grothues, R. Petrecca, J. Dobarro, M. De Luca, C. Fuller, G. Taghon, N. Psuty, A. Spahn, G. Twiley, B. Meisinger, Indirect and direct sampling to evaluate post-Sandy benthic habitat in Sandy Hook Bay, NJ. Poster. Coastal Estuarine Research Federation 23rd Biennial Conference. Portland, OR. 11/9
2015. Under the keel at Sandy Hook. Presentation to Society for the Education of American Sailors (SEAS). Monmouth Chapter. Keyport, NJ 10/27
2015. Hudson River Foundation Board Outing. Shoreline fish habitat research in the New York Harbor. Oral presentation. New York Harbor (shipboard). 10/2
2015. Biodiversity and the Role of Parks. Keynote Address for the 2015 BioBlitz at Sandy Hook unit of Gateway National Recreation Area, Sandy Hook, NJ. 9/18.
2015. Bochenek.E. A. and T. M. Grothues. 2015. Yellowtail flounder bycatch reduction in the Atlantic Sea Scallop Dredge Fishery. American Fisheries Society National Meeting, Portland OR. 8/16
2015. Teach at the Beach. Formal Educators Program at JC NERR and Rutgers University Marine Field Station. Tuckerton, 5/29
2015. Visiting Marine Scientists Program. George J. Mitchel Elementary School, Tuckerton.5/20
2015. Yellowtail flounder bycatch reduction in the Atlantic Sea Scallop Dredge Fishery. Joint Scallop Plan Development Team & Scallop Advisory Panel Meeting. Warwick, RI 5/13
2015. Fisheries of the Barnegat Bay. Presentation to the National Association of County Agriculture Agents, Agriculture Agents Association of New Jersey Retreat, JC NERR, Tuckerton, 5/6
2015. Simon. P. Oliver, Thomas M. Grothues*, Amie L. Williams, Veep C. Cerna. *Presenting. Acoustic Telemetry of Pelagic Thresher Sharks (*Alopias pelagicus*). Ecological Evening, JC NERR Coastal Education Center, Tuckerton, 2/10
2014. Simon. P. Oliver, Thomas M. Grothues*, Amie L. Williams, Veep C. Cerna. *Presenting. Acoustic Telemetry of Pelagic Thresher Sharks (*Alopias pelagicus*). American Fisheries Society – Mid Atlantic Chapter Meeting. Lewes DE. Nov 6, 2014
2014. Grothues, T. M. and G. Sakowicz. Telemetry Infrastructure in the Mullica River/Great Bay Estuary as a Service of the Jacques Cousteau National Estuarine Research Reserve (JCNERR). **Poster.** American Fisheries Society – Mid Atlantic Chapter Meeting. Lewes DE. Nov 6, 2014
2014. Paola Lopez-Duarte, Thomas Grothues, Rose Petrecca, Ken Able. Habitat use by horseshoe crabs in Great Bay, NJ: new insights from a small estuary. American Fisheries Society – Mid Atlantic Chapter Meeting. Lewes DE. Nov 6, 2014
2014. Anders Bailey, Kenneth Able Thomas Grothues*, Jessica Valenti. Analysis of Fish Assemblages Across a Gradient of Human Alteration in Creek Habitats in Barnegat Bay. *Presenting. Poster. Barnegat Bay Annual Meeting. Rutgers EcoComplex, Bordentown, NJ Dec.
2014. Paterno, J*, D. Bushek, L. Calvo and T. M. Grothues. *Presenter. Assessment of fish utilization on a sub-tidal oyster restoration area in a Mid-Atlantic Estuary. Oral

- Presentation. American Fisheries Society – Mid Atlantic Chapter Meeting. Lewes DE. Nov 6, 2014
2014. Coleman, K.*, T. M. Grothues, and K. W. Able. *Presenter . Response in the distribution of the southernmost winter flounder subpopulation to warming bottom temperatures. American Fisheries Society – Mid Atlantic Chapter Meeting. Lewes DE. Nov 6, 2014
2013. In-lab presentation on glider/swimmer AUVs to students of the Marine Access to Technology and Environmental Sciences (MATES) Ocean County Vocational Technical School district. 12/9
2013. Grothues, T.M., A. E. Newhall, J. F. Lynch, G. G. Gawarkiewicz, K. S. Vogel. Mapping the Scatterscape of Pelagic Side Scan Sonar Targets Relative to Oceanographic Features Oral Presentation. American Fisheries Society Mid-Atlantic Chapter Meeting. 11/14
2013. Poster. Coleman, K., T. M. Grothues, K. W. Able Monitoring cross-continental shelf movement of winter flounder (*Pseudopleuronectes americanus*). American Fisheries Society Mid-Atlantic Chapter Meeting. 11/14
2013. Poster. Kiang, H., K. W. Able, T. M. Grothues Comparison of Fish Species Composition and Distribution in Barnegat Bay. American Fisheries Society Mid-Atlantic Chapter Meeting. 11/14
2013. Poster. Berezin, M., K. W. Able, T. M. Grothues. Spatial and temporal comparison of larval fish sources and assemblages in Barnegat Bay, New Jersey. American Fisheries Society Mid-Atlantic Chapter Meeting. 11/14
2013. Gawarkiewicz*, G., J. F. Lynch, T. Grothues Springtime Shelfbreak Frontal Structure and Detachment north of Cape Hatteras. Oral Presentation*. Mid-Atlantic Bight Physical Oceanography Meeting, University of Rhode Island, RI, 10/17
2013. “Studying Fish Movement due to Climate Change” Presentation for Rutgers Ocean Days event, 4/10
2013. Vogel K. and T. Grothues. Poster. Automatic fish detection by Area Distribution and Symmetry in side scan sonar images. Ocean Sciences Meeting of the Association for the Sciences of Limnology and Oceanography, New Orleans. 2/21
2013. Rackovan, J. T. Grothues and K. Able. Association of Pelagic Fishes with Piers in the Lower Hudson River as measured with Dual Frequency Identification Sonar (DIDSON). Ocean Sciences Meeting of the Association for the Sciences of Limnology and Oceanography, New Orleans. 2/21
2013. Grothues, T., J. Dobarro, P. Thomas and S. Rahman. Behavioral mediation of exposure duration to hypoxia for immature Atlantic croaker (*Micropogonius undulatus*) in the wild. Oral Presentation. Ocean Sciences Meeting of the Association for the Sciences of Limnology and Oceanography, New Orleans. 2/21
2012. G. Gawarkiewicz, F. Bahr, C. Marquette, A. Kukulya, C. Linder, T. Grothues, J. Dobarro, Impacts of recent flooding on the continental shelf north of Cape Hatteras: Results from Scanfish and AUV surveys. Middle Atlantic Bight Physical Oceanography and Meteorology Workshop, Cambridge, MD, October, 2011.
2012. G. Gawarkiewicz, F. Bahr, A. Kukulya, C. Marquette, C. Linder, T. Grothues, J. Dobarro, Cross-shelf structure on the continental shelf north of Cape Hatteras: Impact from recent flooding. AGU Ocean Sciences Meeting, Salt Lake City, UT, February, 2012.
2012. G. Gawarkiewicz, F. Bahr, C. Marquette, J. Lynch, A. Newhall, A. Kukulya, F. Jaffre, T. Grothues, J. Dobarro, P. Looney, N. Foukal. AUV and Scanfish surveys of the Continental Shelf north of Cape Hatteras in May, 2012. Middle Atlantic Bight Physical Oceanography and Meteorology Workshop, Groton, CT, November, 2012.
2012. Coleman, K., T. M. Grothues, K. W. Able. Poster. Historical Spatial Distribution of the Mid-Atlantic Winter Flounder Stock off of New Jersey Relative to Seasonal Spawning Movement. 13th Flatfish Biology Conference, Westbrook, CT. 12/4
2012. Hassall, A.J., T. M. Grothues, O. Jensen, M. Provost. Fine scale telemetry quantifies spatial structure of encounters among individuals of a protogynous reef-dwelling fish species

- (*Centropristis striata*). American Fisheries Society Mid-Atlantic Chapter Meeting, Wilmington, DE 2/11
2012. Grothues, T. M. J. Dobarro, P. Thomas, S. Rahman. Behavioral mediation of exposure duration to hypoxia for immature Atlantic croaker (*Micropogonius undulatus*) in the wild. American Fisheries Society Mid-Atlantic Chapter Meeting, Wilmington, DE 2/11
2012. Davis, W. C. and T. M. Grothues. Assessing Sound Pressure Level Weighting of Acoustic Tag Detection Records to Calculate Sequential Fish Positions. American Fisheries Society Mid-Atlantic Chapter Meeting, Wilmington, DE 2/11
2012. Jivoff P. R. , K. W. Able, T. M. Grothues. Assessing the impacts of urbanization on blue crabs, (*Callinectes sapidus*) in Barnegat Bay, NJ. American Fisheries Society Mid-Atlantic Chapter Meeting, Wilmington, DE 2/11
2012. Rackovan, J. T. M. Grothues, and K. W. Able. Association of Pelagic Fishes with Piers in the Lower Hudson River as measured with Dual Frequency Identification Sonar (DIDSON). American Fisheries Society Mid-Atlantic Chapter Meeting, Wilmington, DE 2/11
- 2012 “Fish Telemetry” Lecture for IMCS Outreach and Education Team Teachers Day in Tuckerton. 7/14
- 2012 Grothues, T.M. Fish Telemetry: the view from a robot. New Jersey Institute of Technology, Newark, NJ 3/26
- 2012 Grothues and Dobarro. Using an Autonomous Underwater Vehicle. Harrington Middle School. 3/16
- 2012 Grothues, T.M. AUV supported Fish Telemetry. University of Maryland Eastern Shore Department Seminar. Solomons, MD, 4/18
- 2012 Grothues, T.M. Applications, Constraints, and Solutions of Autonomous Underwater Vehicles (AUVs): An Overview Ocean County Society of Professional Engineers. Manahawkin, NJ 1/31
- 2011 Grothues, T.M. Engineered shorelines of New York Harbor: At the Nexus of Human Needs and Fish Population Health. Keynote Address. Environmental health and health of the Environment conference. St. Francis College, Brooklyn, NY, 11/19
2011. Byrne Seminar. Rutgers University, New Brunswick, NJ. 10/5
- 2011 AUV supported Fish Telemetry. Robotics Workshop. Rutgers University ECE. Piscataway, NJ 9/30
- 2011 Grothues, T. M. J. Dobarro, L. Calvo. A role for AUVs in estuarine fisheries ecology research. Atlantic Estuarine Research Society Meeting, Solomons, MD, 4/7-4/8
2011. Delaware Bay Science Summit.
2011. Grothues, T.M Sunshine Foundation Seminar, Mystic Islands, NJ 2/12
- 2010 Yergey, M., K. Able, T. Grothues “The use of acoustic telemetry as a means for assessing discard mortality in the summer flounder (*Paralichthys dentatus*) commercial fishery: A first look. Presentation at the 12th Flatfish Biology Conference, Westbrook CT. 12/1
- 2010 Grothues, T.M. and K. W. Able Burial in winter flounder (*Pseudopleuronectes americanus*): Understanding limits to telemetry success. Presentation at the 12th Flatfish Biology Conference, Westbrook CT. 12/1
- 2010 Poster. “Distribution, movements, and habitat use of juvenile striped bass across multiple spatial scales: the potential role of surrogate nurseries in non-natal estuaries.” K. W. Able, T. M. Grothues, J.T. Turnure, P. Clerkin
- 2010 “What can acoustic telemetry tell us about the recent decline of weakfish? Previous insights and future directions.” J. T. Turnure, K. W. Able., T. M. Grothues. Presentation at American Fisheries Society Mid Atlantic Chapter Meeting. Lewes, DE 11/18
- 2010 Poster. “Migration and Residency of Winter flounder (*Pseudopleuronectes americanus*) through estuaries and inlets along the New Jersey coast.” Malatesta, T., J. Rackovan, T. Grothues, K. Able, and J. Pravatiner. American Fisheries Society Mid Atlantic Chapter Meeting. Lewes, DE 11/18

- 2010 Poster. “A pilot study for acoustic telemetry-based estimate of summer flounder commercial discard mortality: laboratory studies and field observations.” Yergey, M., K. Able, T. Grothues, C. Crawford, and K. DeCristofer. Best student poster award. American Fisheries Society Mid Atlantic Chapter Meeting Lewes, DE 11/18
- 2010 “Fish form and function”. Presentation for MARE, JCNEER Education Center, NJ. 8/9
- 2010 Poster. Evaluating use of motion activated transmitters to track *Paralichthys dentatus* in the Great Bay estuary. Mcgarigal, C., T. M. Grothues, K. W. Able RIOS Intern Poster Presentation, New Brunswick 8/5
- 2010 Fish physiology and evolution. Guest Lecture Companion Animals Rutgers University 4/27
- 2010 Winter flounder habitat use in Barnegat Bay. New Jersey Sea Grant Extension seminar series. Sandy Hook, NJ 4/20
- 2010 Preliminary evidence for vertical movement behavior of summer flounder (*Paralichthys dentatus*) based on ultrasonic telemetry. Yergey, M., K. W. Able, T. M. Grothues. Presentation at American Fisheries Society Tidewater Chapter Meeting, Annapolis, M.D. 03/18
- 2010 Poster. Turnure, J.T., K.W. Able, and T.M. Grothues. “Small-scale movements and site fidelity in adult weakfish, *Cynoscion regalis*: Diel and seasonal patterns in a mid-Atlantic bight estuary” American Fisheries Society Tidewater Chapter 24th Annual Meeting, Annapolis, MD, 03/18
- 2009 “Fish telemetry and positioning from an autonomous underwater vehicle (AUV). Grothues, T. M and J. Dobarro. Presentation at Third International workshop on Marine Technology, MARTECH 2009. 11/19/, Vilanova i La Geltru – Barcelona, Spain
- 2009 Poster. Seamless Network Concept Spurs Use of REMUS in Environmental Data Gathering for for Dock Site Planning at Sandy Hook, (NJ), Gateway National Recreation Area, NPS. Norb P. Psuty, Barry Sullivan, Lisa Auermuller, Mark Christiano, Michael Deluca, Joe Dobarro, Tom Grothues, Charles T. Roman, Tanya M. Silveira. Coastal Zone 2009 Meeting. Boston, MA. 7/19
- 2009 Fisheries Technology. Fisheries Integration Day Seminar (n = 4 Sessions). Marine Academy of Technology and Environmental Science, Ocean County Vocational Technical School. Manahawkin, NJ 5/19
- 2009 Winter flounder habitat use in Barnegat Bay, connections with the shelf. Presentation at Barnegat Bay National Estuaries Program meeting. Thomas Grothues*, Kenneth Able, Joan Pravatiner. Orange Coast College, NJ. 3/17
- 2009 Fish habitat under piers in NYC. Kenneth Able* and Tom Grothues. Hudson River Foundation Seminar Series. New York, NY 3/003
- 2009 Use of a multi-sensored AUV to telemeter tagged Atlantic sturgeon and map their spawning habitat in the Hudson River, USA. Thomas M. Grothues*, Joseph Dobarro, Marcus Kwazek Amanda Higgs, John Ladd, Dan Miller George Niezgodna Seaboard Fisheries Institute Sturgeon Meeting, University of Delaware, DE. 2/24
- 2009 Striped bass biology in the Mullica River Great Bay Estuary. Presentation at Sunshine Foundation Annual Fishing Tournament Captain’s meeting. Mystic Islands, NJ. 2/21
2009. Migration through two small estuaries: What can local views tell us about a regional phenomenon? University of South Florida Seminar Series. St. Petersburg, FL. 1/29
- 2009 Migration through two small estuaries: What can local views tell us about a regional phenomenon? University of Texas at Austin Marine Science Institute, Port Aransas, TX 1/15
- 2009 Winter flounder in the Navesink. Presentation at SEAS Monmouth meeting. Monmouth, NJ 1/27
- 2008 Poster. Reckenbeil B, Turnure JT, Able KW, Grothues TM, and Able KW. “Quantifying movement and dispersal in adult weakfish, *Cynoscion regalis*: Day vs. night comparison.” National Science Foundation’s Research Experience for Undergraduates Program Poster Session, New Brunswick, NJ, 08/17
- 2008 Applications of advanced technology to Research Reserve stewardship and education programs. National Estuarine Research Reserves National Meeting, Monterey, CA 11/3

- 2008 RUMFS Open House. RUMFS, Tuckerton, NJ. Participation in numerous exhibits. 10/20
- 2008 Faculty In Service. Fisheries Biology. Marine Academy of Technology and Environmental Science (MATES). Manahawkin, NJ. 10/17
- 2008 Use of a multi-sensored AUV to telemeter tagged Atlantic sturgeon and map their spawning habitat in the Hudson River, USA. AUV-2008 Woods Hole Oceanographic Institute, Woods Hole, MA. 10/13
- 2008 Fisheries Science at Rutgers University. Berkley Striper Club. Berkley, NJ. 8/19
- 2008 “Marine Fishes of New Jersey: A habitat transect from marsh surface to benthopelagic” Presentation for MARE, JCNEER Education Center, NJ. 8/11
- 2008 Fish Tracking with Rutgers. Congressional Site Visit 8/14
- 2008 “What can local views tell us about a regional phenomenon: migration of striped bass through two estuaries.” Rutgers University Institute of Marine and Coastal Sciences Fisheries Oceanography Seminar Series. 5/28
- 2008 Poster. G. Sakowicz, T. M. Grothues, K. W. Able, J. T. Turnure, C. Kennedy. Coupling SWMP data with Fish Telemetry in the Jacques Cousteau National Estuarine Research Reserve. NERR Technician Training Workshop, Myrtle Beach, South Carolina. 1/22
- 2007 The diversification of acoustic telemetry technology and challenges for unified tracking arrays. Second International Symposium on tagging and tracking marine Fish with Electronic Devices. San Sebastian, Spain. 10/9
- 2007 Modifying the migratory contingent hypothesis for U.S. Atlantic Coast striped bass: The view from small watersheds ANCAT-Challenges for Anadromous and Catadromous Fishes 6/18
- 2007 Volunteers in Estuarine Science, JCNERR Volunteer Appreciation Dinner, Mystic Islands, NJ 3/27
- 2007 South Jersey Coastal Fly Anglers Club, Ocean City, NJ, 3/15
- 2007 Manasquan Fishing Club StriperTracker, Manasquan NJ 3/2
- 2007 Tailing winter flounder, NJ Outdoor Women’s League, New Brunswick, NJ, 1/12
- 2006 Estuary-scale movement of telemetered winter flounder. Tenth Flatfish Biology Conference. Westbrook, CT 11/29
- 2006 SeaPort Lunch and Learn: End of the year research report: Public presentation at the Tuckerton Seaport sponsored by the Jacques Cousteau National Estuarine Research Reserve Education Center, Tuckerton, NJ, 12/6
- 2006 Stripertracker. Hi-Mar Fishing Club. Highlands, NJ 11/06
- 2006 The biology of summer flounder, *Paralichthys dentatus*. Manasquan Fishing Club, Manasquan NJ, 11/3
- 2006 The biology of summer flounder, *Paralichthys dentatus*. Public presentation at the Tuckerton Seaport sponsored by the Jacques Cousteau National Estuarine Research Reserve Education Center, Tuckerton, NJ, 9/13
- 2006 Winter Flounder Telemetry – Year 1 Results. I Boat New Jersey Best Practices Mini Series. Pamona, NJ. 8/21
- 2006 Saltwater Anglers of Bergen Fishing Club. Rochelle Park, NJ. 8/15
- 2006 Fish Tracking with Rutgers. Congressional Site Visit 8/9
- 2006 RIOS Intern Poster: Investigating Feasibility of Acoustic Telemetry and Habitat Use of Adult Hickory Shad, *Alosa mediocris*, in the Mullica River/Great Bay Estuary, New Jersey, G. A. Henkes, T. M. Grothues, and K. W. Able. 8/4
- 2006 RIOS Intern Poster: Distribution of telemetered smooth dogfish, *Mustelus canis*, in a southern New Jersey estuary. M.A. Malone, T. M. Grothues, and K. W. Able. 8/4
- 2006 RIOS Intern Posters Movement of Sub-Adult Striped Bass (*Morone saxatilis*) within an Estuarine Ecosystem. P. Clerkin, T. M. Grothues, and K. W. Able. 8/4
- 2006 “Marine Fishes of New Jersey: A habitat transect from marsh surface to benthopelagic” Presentation for MARE, JCNEER Education Center, NJ 7/29

- 2006 StriperTracker. COSEE-MA Oversight meeting. JCNERR Educaiton Center, NJ 7/10
- 2006 StriperTracker. Jersey Coast Anglers Association Meeting. Toms River, NJ. 6/27
- 2006 It came from the marsh! Where did it go? Eisenhower Middle School. Wyckoff, NJ. 5/17
- 2006 Which way did he go, George? Sandy Hook Seminar Series, NMFS Howard Laboratory, 4/13
- 2006 Understanding and Resolving Conflicts Between Winter Flounder and Dredging. I Boat New Jersey Best Practices Mini Series. Pamonoa, NJ. 3/2
- 2006 “The Rutgers University StriperTracker Program”. FatherTime. Keansburg, NJ. 2/25
- 2006 “Going in New Directions to Understand Fish Movement”. Tuckerton Seaport Lunch and Learn Seminar. Tuckerton, NJ 6/25
- 2005 “Results from the Rutgers University StriperTracker Program”. Coastal Flyrodders Association. Wyckoff, NJ. 11/6
2005. Understanding and Resolving Conflicts Between Winter Flounder and Dredging. I Boat New Jersey Dredging Mini Series. Long Branch, NJ. 10/6
- 2005 “The Rutgers University StriperTracker Program”. RUMFS Open House. Tuckerton, NJ 10/1
- 2005 “An introduction to StriperTracker” Estuaries Live. Tuckerton, NJ 9/22
- 2005 “The Rutgers University StriperTracker Program”. Tuckerton Seaport Members Meeting. Tuckerton, NJ 9/9
- 2005 “The Rutgers University StriperTracker Program”. MARE Banquet Keynote address. Tuckerton, NJ 8/17
- 2005 “The Rutgers University StriperTracker Program”. Tuckerton Seaport Lunch and Learn Seminar. Tuckerton, NJ 6/25
- 2005 “It Came From the Marsh: A Striped Ambassador to the Classroom” Presentation for MARE, RUMFS, NJ 8/17
- 2005 “The Rutgers University StriperTracker Program”. Tuckerton Seaport Seafood Festival. Tuckerton, NJ 6/25
- 2005 “It Came From the Marsh: A Striped Ambassador to the Classroom” Teach at the Beach Keynote Address, MAST Academy, Sandy Hook, NJ 5/13
- 2005 “The Rutgers University StriperTracker Program”. Absecon Bay Saltwater Sportsman’s Club, Brigantine, NJ 03/14
- 2005 “Bluefish telemetry in the Jacques Cousteau National Estuarine Research Reserve. Oral Presentation”. Bluefish Research Coordination Workshop. Rutgers University, New Brunswick, NJ. 2/23
- 2005 “Fish Movement: Going in new directions to understand Essential Fish Habitat” Lunch and Learn Seminar Series, Tuckerton, NJ 01/19
- 2004 “The Rutgers University StriperTracker Program” Harbor Village Fishing Club, Manahawkin, NJ 11/12
- 2004 “An Estuarine Observatory for Telemetry of Migrant Macrofauna ” Poster and Demonstration. Grothues, T. M., Ng, C., Able, K.W. Coast Day New Jersey, Barnegat Light, NJ 10/9
- 2004 “The use of ultrasonic telemetry of assessing diel differences in habitat use by juvenile summer flounder, *Paralichthys dentatus*, in the Great Bay-Little Egg Harbor Estuary. Poster. RIOS Research Presentations K. Seebald, D. Rowles, J. Quinlan, T. Grothues, and K. W. Able. 7/1
- 2004 “Tracking the elusive Great Bay Horseshoe Crab *Limulus polyphemus* with ultrasonic telemetry: What do horseshoe crabs do after the spawning season?” Poster. RIOS Research Presentations. A. Watson, J. Quinlan, T. M. Grothues, and K. W. Able 7/1
- 2004 “Marine Fishes of New Jersey: A habitat transect from marsh surface to benthopelagic” Presentation for MARE, JCNEER education center 8/8
- 2004 “Striper Tracking” Eagleswood Elementary School. Eagleswood, NJ 4/22
- 2004 “The Rutgers University StriperTracker Program” Strathmere Fishing and Environmental Club, Strathmere NJ, 4/10
- 2004 “The Rutgers University StriperTracker Program” Tuckerton Sea Port, Tuckerton NJ, 4/8

- 2004 “The Rutgers University StriperTracker Program” Stockton College Biology Club, 3/10
- 2004 “The Rutgers University StriperTracker Program” Delaware River Shad Fishermen’s Association, Bethlehem, PA 2/18
- 2004 “The Rutgers University StriperTracker Program” Estuarine Research Reserve Advisory Group from Bridgeton, NJ 2/16
- 2003 “The Rutgers University StriperTracker Program” Coastal Flyrodders, Union NJ, 11/18
- 2003 “The Rutgers University StriperTracker Program” Department seminar, University of New England, Maine. 10/23
- 2003 “The Rutgers University StriperTracker Program” Village Harbor Fishing Club” Mill Creek, NJ 10/10
- 2003 “The Rutgers University StriperTracker Program” Poster presentation at Governor’s Surf Fishing Tournament, Island Beach State Park, NJ, 11/05
- 2003 “New Directions in Understanding Fish Movement”. Community College Coastal Observation Workshop 5/30, 6/20, 7/15, 8/10
- 2003 “The Rutgers University StriperTracker Program” IMCS Advisory Board, Tuckerton, NJ 7/17
- 2003 “The Rutgers University StriperTracker Program” Congressional Site visit, Tuckerton, NJ 7/13
- 2003 “Fish Movement: Going in new directions to understand Essential Fish Habitat” In Too Deep Dive Club. Union NJ 3/14
- 2003 “Fish Movement: Going in new directions to understand Essential Fish 10-10 Celebration Poster 3/10
- 2003 “A model acoustic observatory for studying ultrasonically tagged fish in the Hudson River estuary. Grothues, T. M and K. W. Able. Workshop on interests in the Hudson River Estuary. Sandy Hook NJ. January
- 2002 “Spatial and Temporal Patterns of Hogchoker (*Trinectes maculatus*) Reproduction in the Delaware Bay Estuary”. C. M. Hodgson, S. G. Piotrowski, K. W. Able and T. M. Grothues. Poster. Flatfish Biology Conference, Westbrook CT. December
- 2002 “A program to study migration dynamics of striped bass using recent advances in ultrasonic telemetry” Poster. Able and Grothues. America Fisheries Society, Baltimore, August
- 2002 “Utilization of Delaware Bay marshes by YOY fishes abiotic variables and larval supply” Grothues and Able America Fisheries Society, Baltimore, August
- 2002 “Marine Fishes of New Jersey: A habitat transect from marsh surface to benthopelagic” Presentation for MARE, Aug 11, JCNEER education center
- 2002 “Biology of the summer flounder and proposed advancements in research” Middle Atlantic Chapter, American Fisheries Society, DE
- 2001 “Response of juvenile fish assemblages in tidal marsh creeks during treatment for *Phragmites* removal. Phragmites Forum, Vineland, NJ
- 2001 “Utilization of marsh creeks by YOY fishes: contribution of larval supply and abiotic variables in Delaware Bay” 25th Annual Larval Fish Conference, Sandy Hook, NJ
- 2001 “Evaluating salt marsh restoration in upper Delaware Bay: Analysis of fish response to treatment for the eradication of the common reed *Phragmites australis*. American Fisheries Society Tidewater Chapter Meeting, MD
- 2001 “Ongoing research at the Rutgers University Marine Field Station” Osborn Island Residents Association, Little Egg Harbor, NJ
- 2000 “An analysis of the Delaware Bay larval fish assemblage” 24th Annual Larval Fish Conference Gulf Shores, AL
- 2000 “Ocean motion and fish populations: the effect of physical oceanography on larval marine fish recruitment.” Georgian Court College Dept. Seminar
- 1999 “Larval fish flux around Cape Hatteras” Larval Fish Conference, NC
- 1998 “Transport related mortality of larval fishes at Cape Hatteras” American Fisheries Society, Hartford, CT

- 1998 “Trophodynamics of tropical larval fish off the west coast of Barbados, West Indies” poster, American Fisheries Society, Hartford, CT
- 1998 “Kelp Forests of the Pacific” Sigma Xi Induction, C.W. Post College, NY
- 1988 “Kelp Forests of the Pacific” Long Island Aquatic Association, Hempstead
- 1998 “Kelp Forest Communities”, Jason Project IX, BOCES, Nassau, NY
- 1997 “Larval fish exchange around Cape Hatteras” American Society of Ichthyologists and Herpetologists, Seattle, WA
- 1994 “An Investigation into the genetic population structure and larval dispersal patterns of kelp bass”, American Society of Ichthyologists and Herpetologists, Los Angeles, CA
- 1993 “An Investigation into the genetic population structure and larval dispersal patterns of kelp bass”, American Society of Zoologists; Los Angeles, CA
- 1993 “An Investigation into the genetic population structure and larval dispersal patterns of kelp bass”, California Academy of Sciences; Long Beach, CA
- 1993 “Molecular techniques for the study of population genetics” Department Seminar Series, Fullerton College, Fullerton CA
- 1993 “Population genetics of kelp bass” poster American Society of Ichthyologists and Herpetologists; Austin, TX
- 1992 “RAPD markers in kelp bass populations” International Symposium of Marine Biology; La Paz, Mexico

SERVICE AND ELECTED POSITIONS

2015. Participant and fish section co-leader, 2015 BioBlitz, Sandy Hook, NJ.
- 2010 Alumni College
- 2008 Guest Editor, Northeastern Naturalist
- 2003-present. Member COSEE Science Bridge
- 2002–present. Member, National Estuarine Research Reserve Advisory Committee
- 2000-2007. Northeast Regional Representative, Early Life History Section of the American Fisheries Society
- Moderator, Shorebowl 2013
- Science Judge and Moderator, Shorebowl 2012
- Science Judge and Moderator, Shorebowl 2011
- Science Judge, Shorebowl 2010
- Science Judge, Shorebowl 2009
- Science Judge, Shorebowl 2008
- Science Judge, Shorebowl 2006
- Science Judge, Shorebowl 2005
- Science Judge, Shorebowl 2004

REVIEWS PROVIDED SINCE 2000 -112 TOTAL

Manuscript reviews

- American Fisheries Society* Editor Noah Adams. December 2011
- Biological Invasions Review* Editor Charlie Martin. July 2016, August 2016
- Bulletin of Marine Science*, Editor S. Sponaugle, January 2004
- Canadian Journal of Fisheries and Aquatic Sciences*. Editor Alistair Coulthard. August 2017.
- Environmental Biology of Fishes*, Editor David Noakes, September 2014
- Environmental Protection Agency* Editor Alice Watts, January 2011
- Estuaries*. Editor S. Threlkeld. April 2005
- Estuaries and Coasts* Editor J. Grassle. August 2013, Editor M. Holmer, September 2016

Estuarine Coastal and Shelf Science, Editor D. S. McLusky, April 2000, October 2000, December 2001, Editor S. D. Sulkin, August 2003, February 2004, September 2006, Editor Ivan Valiela, March 2008, Editor D. S. McLusky, January 2010

Fisheries Bulletin, corresponding editor S. Shoffler, September 2004, Associate Editor Elizabeth Siddon, October 2008, Editor Julie Shuerer, February 2010

Fisheries Research Editor George Rose, January 2012, July 2013, January 2015, March 2015

Fisheries Science Editor Tetsuya Takatsu, May 2017

Journal of Applied Ecology. Editor unspecified. October 2016

Journal of Experimental Marine Biology and Ecology, Editor Sandra Shumway, May 2014, September 2014 a, b

Journal of Fish Biology Editor Stephen Blaber, October 2013, December 2013, Editor Hilary Craig, October 2015

Journal of Zoology. Editor Lucinda Hayes. May 2009

ICES. Editor Francis Juanes. December 2013

IEEE. Ryan Eustice, Editor. November 2011

Limnology and Oceanography, Associate Editor M. J. Vanni, September 2001; Editor E. Fee, December 2003

Limnology and Oceanography: Methods. Editor P. Kemp, August 2006

Marine Biology, Editor J. Grassle, July 2004, June 2010

Marine and Coastal Fisheries, Editor Michelle Heupel. August 2010, November 2010, February 2015, Editor Anne Hollowed, August 18, 2016

Marine Ecology Progress Series, Editor K. Sherman, December 2002, Editor Jon Hare, December 2008, Editor Hans Heinrich Janssen, February 2009, Editor Marita Bruns, November 2010, April 2011 October 2011, December 2013, April 2014, September 2014, July 2016

Marine Environmental Research, Editor Inna M. Sokolova, February 2015

Marine and Freshwater Research, Editor D. McGlashan, January 2005

North American Journal of Fisheries Management, Editor L. Rudstam, January 2003, Editor D. Manning, October 2007, Editor Richard Eades, February 2010, Editor Issac Wirgin, September 2013, Editor Michael Bell, February 2015

Northeastern Naturalist, Editor Jay Stauffer, June 2015

New Jersey Academy of Sciences. Editor Michael Kennish. December 2005, October 2007

Ocean Engineering, Atilla Incecik, Editor, September 2011, March 2012

Oceanography, Editor Ellen Kappel, June 2017

Progress in Oceanography. Editor Charlie Miller, March 2006

Reviews in Fish Biology and Fisheries Editor Steven Cooke. July 2010

Scientia Marina, Associate editor J. J. Govoni, July 2001, October 2008

Transactions of the American Fisheries Society, Associate Editor J. Buckel, October 2001, June 2005, Associate Editor R. Rulifson, July 2007, a,b. Editor Richard Beamish 2009, Associate Editor Mark Sullivan February 2011

Wetlands. Editor T. Aseada, October 2007, Editor John Farrell. January 2008

Proposal reviews

California Sea Grant College, Research Proposal Review, Proposal Coordinator D. Dyck, July 2004, Jim Kemp, July 2013

Canadian Foundation for Innovation, 4 proposals. Nov 2016-Jan 2017

Hudson River Foundation, Proposal Coordinator D. Suskowski, June 2015

Maryland Sea Grant Research Proposal, Editor Fredrika Moser, April 2002, March 2006, October 2006

National Science Foundation. Proposal review October 2005, April 2005, October 2004(a,b), April 2006 a, b, November 2007, June 2010, July 2010, April 2014

New York Sea Grant, Research Proposal Review. Proposal Coordinator L. Smith, July 2006
North Carolina Sea Grant, Research Proposal review, February 2005, September 2005 (a,b), May 2017
NOAA Cooperative Institute Joint Institute for Marine Observations. Proposal Coordinator D. Lane.
February 2007
Rhode Island Sea Grant Proposal, Director Barry Costa-Peirce, July 2002, July 2015
South African National Research Foundation, Research Proposal review, July 2003
Strategic Environmental Research and Development Program, June 2003
Virginia Sea Grant Panel, November 2009, November 2010
Woods Hole Sea Grant Proposal, Director Judith McDowell, July 2015

Translations

German to English: Species description of *Polymixia* type for Laith Jawad 7/5/2013
German to English: Species description of *Symphysanodon* type for Laith Jawad 6/13/2013
German to English: Regarding some new fish species from the Rother Sea, *Equula Klunzingeri n. sp.*
Marine Science and Fisheries Centre, Ministry of Fisheries Wealth, Sultanate of Oman 4/6/2011

CONTINUING EDUCATION/SEMINARS/WORKSHOPS/PANELS

2011 IOOS (Integrative Oceanic Observing System) Meeting on Monitoring Animal Movements in Santa Cruz, California. 2010.
2011 OOI Pioneer Array meeting in Rhode Island.
2010 Partnership for Mid-Atlantic Fisheries Workshop on summer flounder natural mortality.
2010 Black Laser Learning. Side scan Sonar School. Annapolis, MD 2/22-2/24
2008. MACOORA/MARIBS Fisheries Information Product-Definition Workshop, Dartmouth, MA, 11/19 – 11/20
2007. Shallow Water Habitat Restoration Workshop. Hudson River Foundation/USACE, Manhattan, NY
2006 ORION Ocean Observatories Initiative Design and Implementation Workshop. Salt Lake City, UT, 4/26-4/30
2005. Canadian Fisheries Innovation Initiative. Halifax, Canada
2002. International Workshop on the Application of Passive Acoustics in Fisheries. Dedham, MA.
2002. Seminar on Geographic Information System (GIS). Jacques Cousteau National Estuarine Research Reserve, Tuckerton, NJ

EXTRACURRICULAR ACTIVITIES

Parenting, Mountain Dulcimer, Freediving and Spearfishing, Kayaking, Aikido, Cooking