

SUSANNA MUSICK

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Marine Advisory Program
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EDUCATION

Master of Science in Biodiversity and Conservation
University of Exeter in Cornwall, Centre for Ecology and Conservation, Tremough, Cornwall, England
Thesis: *Spatiotemporal patterns of marine turtle bycatch in the U.S.A. Atlantic longline fishery*

Bachelor of Science in Biology
College of William and Mary, Williamsburg, VA
Research topic: *Juvenile hawksbill distribution at Buck Island, St. Croix, U.S.V.I.*

TRAINING

Sea Grant Academy, Washington D.C. and Portland, Oregon	2011
IUCN Red List Training, Barcelona, Spain	2008
BSAC Ocean Diver Certification, Ascension Island, United Kingdom Overseas Territory	2007
U.S. Coast Guard Auxiliary Boating Safety and Seamanship Course, VA	2003
NAUI Open-Water Scuba Diving Certification, Williamsburg, VA	1998

PROFESSIONAL EXPERIENCE

Marine Scientist/Marine Recreation Specialist Marine Advisory Program, Virginia Institute of Marine Science	2010-present Gloucester Point, VA
Marine Science Consultant Terramare Partners	2009-2010 Lincolnshire, UK
Head of Conservation Department Ascension Island Government, UK Overseas Territory	2007 - 2008 Ascension Is., UKOT
Scientist II VIMS Marine Advisory Services	2006 - 2007 Gloucester Point, VA
Marine Education Specialist VIMS Marine Advisory Services	2001 - 2005 Gloucester Point, VA
Coastal Resource Management Volunteer US Peace Corps/La Union Dept. of Agriculture	2000 La Union, Philippines

AWARDS

Virginia Charter Boat Association Honorary Lifetime Membership	2016
Virginia Beach Angler's Club, Dr. James C. Wright Conservation Award	2012

SELECTED PUBLICATIONS & TECHNICAL REPORTS

Musick, S. and L. Gillingham. 2011-2023. Virginia Game Fish Tagging Program Final Report. Recreational Fishing Advisory Board. Online: www.vims.edu/vgftp/

Scheld, A.M., Stafford, S. L, Powers, K., Musick, S., Guthrie, A., Bilkovic, D. 2023. Valuing Shoreline Habitats for Recreational Fishing. SSRN <http://dx.doi.org/10.2139/ssrn.4655598>

Musick, S., Gillingham, L., Neill, K. and A. Perez. April 2023. VGFTP Tagging Field Guide. https://drive.google.com/file/d/1j92RG1VrLoTOHzmD41AgrZlBrin75Flx/view?usp=drive_link

Musick, S., Gillingham, L., Perkinson, M. and Tears, T. (2022), Virginia Game Fish Tagging Program: A Non-traditional Data Source for Fisheries Management. *Fisheries*, 47: 478-481. <https://doi.org/10.1002/fsh.10799>

Matt Perkinson, Tanya Darden, Maggie Jamison, Matt J. Walker, Michael R. Denson, James Franks, Read Hendon, Susanna Musick, Eric S. Orbesen. 2019. Evaluation of the stock structure of cobia (*Rachycentron canadum*) in the southeastern United States by using dart-tag and genetics data. *Fish. Bull.* 117:220–233. doi: 10.7755/FB.117.3.9

Scheld, A, Goldsmith, W.M., White, S., Small, H.J., and S. Musick. 2020. Quantifying the Behavioral and Economic Effects of Regulatory Change in a Recreational Cobia Fishery. *Fisheries Research*. 224. <https://doi.org/10.1016/j.fishres.2019.105469>

Musick, S., McDowell, J., Scheld, A., Weng, K., Graves, J., Hoenig, J., Small, H. February 2018. Interim Executive Summary VIMS Collaborative Cobia Research. Recreational Fishing Advisory Board, Virginia Marine Resources Commission.

Perkinson, M., Denson, M., Franks, J., Musick, S., Poland, S. and E. Orbeson. 1 May 2018. Evaluation of cobia movements using tag-recapture data from the Gulf of Mexico and South Atlantic coast of the United States. SEDAR58-SID-05. 21 pp. http://sedarweb.org/docs/wpapers/S58_SID05_Perkinson_etal_Tagging_5.1.2018_REVISED.pdf

McDowell, J., Brightman, H., Small, H. and S. Musick. 23 April 2018. Summary results of a genetic-based investigation of cobia (*Rachycentron canadum*). SEDAR58-SID-03. 23 pp. http://sedarweb.org/docs/wpapers/S58_SID03_McDowell_etal_Genetics_4.23.2018_revisedFINAL.pdf

SEDAR 58 Cobia Stock ID Workshop: Spatial Distribution and Movement Working Group Report *in* SEDAR 58 Cobia Stock ID Workshop Report. May 2018. http://sedarweb.org/docs/page/S58_CobiaStckIDReport_5.21.2018_FINAL_watermark.pdf

Musick, S. 2012, 2014, 2016. Virginia Charter Boat Workshop Summary. Marine Advisory Program, Virginia Institute of Marine Science. www.vims.edu/vgftp/

Musick, S., Fisher, R., Mirabilio, S., Baker, S. and M. Danko. August 31, 2015. Design and prototype testing of multi-fish descending devices in Mid-Atlantic recreational fisheries: a submission to the 2014 Special Project E Funding Competition “Development of a fish descending device in the Mid-Atlantic” Final Report. VSG-15-06; VIMS Marine Resource Report No. 2015-12.

Hart, K.M., Sartain, A.R., Hillis-Starr, Z., Phillips, B., Mayor, P.A., Roberson, K., Pemberton, R.A., Allen, J.B., Lundgren, I. and S. Musick. 2013. Ecology of juvenile hawksbills (*Eretmochelys imbricata*) at Buck Island Reef National Monument, US Virgin Islands. *Marine Biology*. DOI 10.1007/s00227-013-2249-x.

Musick, J. and S. Musick. 2011. Sharks. FAO Fisheries and Aquaculture Reviews and Studies. Rome, Food and Agriculture Organization of the United Nations. 13p.

Hartnoll, R., Broderick, A., Godley, B., Musick, S., Pearson, M., Stroud, S. and K. Saunders. 2010. Reproduction in the land crab *Johngarthia lagostoma* on Ascension Island. *Journal of Crustacean Biology*. 30 (1) 83:92.

FACILITATED PARTNER WORKSHOPS

Virginia Charter Boat Workshop. In partnership with VA Saltwater Sportfishing Association. Virginia Institute of Marine Science. Gloucester Point, VA. March 2018, 2019, 2021, 2021 (online), 2022, 2023, 2024.

Virginia Game Fish Tagging Program Annual Training Workshop. In partnership with VMRC. Virginia Institute of Marine Science, Gloucester Point, VA and Bass Pro Shop, Hampton, VA. Spring 2011-2024 (annual).

Chesapeake Environmental Forecast System Harmful Algal Blooms Focus Group. In partnership with Marjy Friedrichs (VIMS), Mary Ford (MARACOOS-Mid-Atlantic Regional Association Coastal Ocean Observing System). 2022, 2023.

Hooked on Ocean Acidification Webinar Series. 2021. In partnership with Kristin Wakefield (MACAN/MARACOOS), Doug Zemekis (Rutgers Cooperative Extension), Mike Danko (NJ Sea Grant). <https://midacan.org/news/f/hooked-on-ocean-acidification-series-for-recreational-anglers>

Virginia Charter Boat Webinar Series. Where are the Fish? Hypoxia in the Bay. In partnership with Captain Richie Gaines, Dr. Marjy Friedrichs and Dr. Rob Latour. May 2017.

Virginia Charter Boat Webinar Series. Telling Fish Tales: Marketing Tools for Your Charter Business. In partnership with Consociate Media. March 2017.

Virginia Charter Boat Webinar Series. Looking Forward: Cobia Management in Virginia. In partnership with SAFMC (Kari Maclauchlin), ASMFC (Louis Daniel) and VMRC (Ryan Jiorle and Joe Cimino). February 2017.

VIMS Cooperative Cobia Research Workshop. In partnership with John Graves, Jan McDowell, Andrew Scheld, Hamish Small and Kevin Weng. January 2017.

Virginia Charter Boat Workshop. In partnership with VA Charter Boat Association. Virginia Institute of Marine Science. Gloucester Point, VA. March 2012, March 2014, March 2016, March 2018-2021 (annual).

NMFS Angler Port Meeting - Fish Barotrauma. In partnership with NMFS and VMRC. Bass Pro Shop. Hampton, VA. August 2013.

NMFS VA Fisheries Professionals Training - Fish Barotrauma. In partnership with NMFS and VMRC. VMRC. Newport News, VA. August 2013.

CURRENT RESEARCH

Musick, S. and L. Gillingham. Virginia Game Fish Tagging Program. (2024) Virginia Institute of Marine Science and VA Saltwater Tournament, VMRC. VMRC-Recreational Fisheries Advisory Board, \$88,495.

St-Laurent, P; Friedrichs, M.A.; Reece, K.S., Musick, S., Hudson, K., Reay, W.G. (2023-2028) Regional MERHAB. NOAA. \$219,726

Friedrichs, M.A., St-Laurent, P., Musick, S., Hudson, K. (2021-2025). Chesapeake Bay Environmental Forecasting System: Accelerating the transition of HAB and pathogen models from research to operations. NOAA \$892,841

Friedrichs, M.A., St-Laurent, P., Musick, S., Hudson, K. (2021-2025) MARACOOS (Mid-Atlantic IOOS): Powering Understanding and Prediction of the Mid-Atlantic Ocean, Coast and Estuaries. NOAA \$513,264

RECENT RESEARCH

Bilcovic, D.M., Scheld, A.M., Isdell, R., Mitchell, M.M., Mason, P.A., Gonzalez, C., Musick, S. (2021-2024) Valuation of ecological and social benefits provided by natural and restored nearshore habitat for communities and fisheries. NOAA \$124,509

ADVISORY SERVICE

SEDAR Cobia Stock Assessment Life History Workgroup, 2024

American Fisheries Society Angler Engagement Workgroup, 2021-current

MACAN Ocean Acidification Outreach Workgroup, 2020-2022

SEDAR Stock Identification Panel for Cobia, 2018

Blueways Development Committee. Gloucester County Department of Parks, Recreation and Tourism. 2011-current.

VA Charter Boat Association Outreach Committee (Youth Fishing Day). 2011-2015.

Atlantic States Marine Fisheries Commission. Black Drum Technical Committee and Tagging Subcommittee. 2012-2013.

PROFESSIONAL ASSOCIATIONS

American Fisheries Society

VIMS Professionals and Professional Faculty Council. 2016 – 2021; Chair 2019-2021