

*Curriculum Vitae*  
**TODD GEDAMKE**  
MER Consultants LLC.  
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## EDUCATION

- Virginia Institute of Marine Science, College of William and Mary**, April 1998-December 2006.  
MS in Marine Science, January 2002. Estimating Commercial Scallop Dredge Efficiency through Vessel Tracking, Catch Data, and Depletion Models. Major Advisor: William D. DuPaul.  
PhD in Marine Science, December 2006. Developing a Stock Assessment for the Barndoor Skate (*Dipturus laevis*) in the Northeast United States. Major Co-Advisors: John M. Hoenig, William D. DuPaul, and John A. Musick.
- Colgate University**, Hamilton, NY. BA in Biology. May 1990.
- Sea Education Association**. Woods Hole, Massachusetts. February-March 1987.  
Classroom and laboratory work in Oceanography and Nautical Science.  
Aboard Research Vessel *Westward*. April-May 1987.

## PROFESSIONAL AWARDS AND ACCOMPLISHMENTS

- Design and Implementation of US Caribbean Port Sampling Programs**---Three contracts (~\$1.4M) to develop statistical design, implement pilot project, and to conduct a US Caribbean wide commercial port sampling program. One additional contract (\$145K) to conduct US Virgin Islands recreational and socioeconomic survey. March 2014 – December 2019.
- US Department of Commerce Bronze Medal Recipient** – “For advancing fisheries science in the U.S. Caribbean by pioneering an innovative, cost-effective, and collaborative survey approach.” 2013.
- Research Award**— \$97.5K from NMFS Stock Improvement Program for T. Gedamke and J. Hoenig, “Comprehensive Evaluation of Indirect (Empirical) Estimators of Natural Mortality.” 2012.
- Adjunct Associate Professor**—U. of Miami, Rosenstiel School of Marine Science, Appointed Dec. 2011.
- Plenary Speaker**—NOAA’s *Living Marine Resources Response to the Deepwater Horizon Oil Spill* -- Joint Subcommittee on Ocean Science and Technology/FIU Deepwater Horizon Oil Spill Meeting. St. Petersburg Florida. October 2011.
- Appointed to Caribbean Fisheries Management Council Science and Statistical Committee (SSC)**, 2010.
- Research Award**— \$140K from Coral Reef Conservation Program for T. Gedamke, J. Schull, and J. F. Walter: “Development of Cooperative Fishery Independent Surveys in the US Caribbean.” 2010.
- Gedamke and Hoenig Mean Length Mortality Model included into NMFS Toolbox**—SEINE Model (Survival Estimation in Non-Equilibrium situations; <http://nft.nefsc.noaa.gov/>). September, 2008.
- Profiled in the American Fisheries Society Journal, *Fisheries***—“Meet a Young Professional” column on the development of my career and various aspects of fisheries science. July, 2007.
- John and Marilyn Ziegler Student Achievement Award**—**Virginia Institute of Marine Science**. Annual award based on scholarship, leadership, research initiative, outstanding publications, and/or exceptional thesis or dissertation work. May 2007.
- Associate Editor**—North American Journal of Fisheries Management. 2005 -- 2010.
- Population Dynamics Fellowship**—NMFS Southeast Fisheries Science Center. “Cooperative Activity in Stock Assessment and Population Dynamics.” Three-year fellowship provided **\$216,402** to fund research, student, and advisor/administrative costs. September, 2002.
- Winner of Thurlow C. Nelson Award for Best Student Paper**—National Shellfish Association Meeting. Mystic, Connecticut. Recipient of student travel award and 3 year NSA membership. April, 2002.

## EXPERIENCE

**Senior Scientist and Founder—MER Consultants LLC** (April 2012 –Present). Consulting work has been focused on Fisheries Science and Stock Assessment with a specialty on data-poor assessments, data collection, technology development and management guidance in developing fisheries. Recent contracts include working with Gulf States Marine Fishery Commission, Atlantic States Cooperative Statistics Program, NOAA, PEW Charitable Trusts, Environmental Defense Fund, TNC and WWF in the US Caribbean, Cuba, Mexico, Indonesia, Philippines, Micronesia, and Belize.

**Chief—Gulf and Caribbean Fisheries, National Marine Fisheries Service, Miami FL** (April 2010 – September 2012). Responsibilities include: Supervising branch personnel, Overseeing stock assessments and relevant research activities, representing assessment science to Gulf of Mexico and Caribbean Fishery Management Councils and development of data-poor methodologies/solutions.

**Research Fishery Biologist—National Marine Fisheries Service, Miami FL**, (Apr. 2007- April 2010). Responsibilities include: Conducting stock assessments on fisheries resources and evaluate policies affecting fishery management. Present results to management bodies and other public forums. Focus: Assessment of fishery resources in the US Caribbean and the development of data-limited methodologies. Providing scientific support and answering queries from the Southeast Regional Office and the Caribbean Fishery Management Council.

**Consultant—Field Coordinator--Environmental Aviation Services Inc.** (Summer 2004) Recruited and coordinated four endangered species observers in support of a US Navy exercise. Observers flew in two reconnaissance aircraft 300 miles offshore to monitor multiple bomb detonations and final scuttling of the *USS Nicholson*.

**Consultant—Dredge Observer/Aerial Survey coordinator--Coastwise Consulting.** (Spring 1997-2004) Identification of biological samples and overall monitoring of dredging activities for incidents involving protected species. Coordination of personnel and aerial surveys in 2002 of coastal Virginia waters. Weekly surveys flown in small twin otter plane documenting sea turtles, marine mammals, and fishing activity.

**Field Coordinator/Hawksbill Research Project—The University of Georgia**, Antigua West Indies. (Summer/Fall 1997) Coordination of field activities and data collection for an 11 year old research project on the endangered hawksbill sea turtle. Development of national outreach program.

**Research Project Director—The Savannah Science Museum**, Savannah, GA. (Jan. 1995-Feb. 1997) Director of 24 year old Loggerhead sea turtle research project. Responsibilities include: Conducting two year endangered species survey for the 1996 Olympic Yachting Events - Hiring and training of seasonal employees - Supervision and coordination of staff and 100+ volunteers for a four month project - Coordination of twenty-four hour beach patrols - Data collection - PIT and Inconel tagging - Performing necropsies - Nest relocation - Independent research development - Preparation of final reports - Teaching and curriculum development for school groups and adults - Lecturing and weekly training of volunteer teams - Television and radio interviews.

**Director of Exhibits—The Savannah Science Museum**, Savannah, GA. (Jan. 1995-Feb. 1997) Responsibilities included: Design, development, purchase and fabrication of permanent exhibits - Researching traveling exhibits - Complete renovation of 10,000 ft<sup>2</sup> exhibit hall - Hiring and supervision of maintenance and fabrication teams - Researching funding opportunities, budget development, proposal and grant writing.

**Fisheries Observer—National Marine Fisheries Service**, Seattle WA. (1993-1994) Position required three-month contracts living and working on board vessels in the Alaskan Domestic Groundfish fleet. Responsibilities included: Collecting data on vessel's total catch, catch composition, and biological research projects - Marine mammal monitoring and data collection on incidental catch - General observation and documentation of vessel fishing practices.

**Assistant Curator—The University of Georgia Marine Extension Service**, Savannah, GA. (1991-1993) Responsibilities included: Maintenance of a public aquarium including care of one Green and three Loggerhead sea turtles - Coordination of volunteer program - Collecting, identifying, cataloging and designing public displays for specimens - Teaching and curriculum development for all ages about the aquarium, ichthyology, marsh ecology, marine invertebrates, plankton, and sea turtle biology.

**Sea Grant Marine Education Internship—The University of Georgia Marine Extension Service,** Savannah, GA. (1990-1991) Responsibilities included: Developing and teaching lecture, field, and laboratory classes - Assisting in the every-day functions of a public aquarium - Maintaining and running two 23 foot boats.

**Freelance Boat Maintenance and related work.** (1987-1988) Single-handed a 24 foot sailboat from New York to the Bahamian Islands. This experience was financed by performing engine repair, carpentry, diving (including bottom cleaning, underwater repair, and salvage diving), fiberglassing, and general boat maintenance on the east coast of the U.S. and the Bahamas.

## PEER REVIEWED PUBLICATIONS

- Fujita R., A. Tourgee, R. Carcamo, L Epstein, T. Gedamke, G. McDonald, J.R. Wilson, and J. R. Foley. 2019. Assessing and Managing Small-Scale Fisheries in Belize. In: Salas S., Barragán-Paladines M., Chuenpagdee R. (eds) Viability and Sustainability of Small-Scale Fisheries in Latin America and The Caribbean. MARE Publication Series, vol 19. Springer, Cham 10.1007/978-3-319-76078-0\_8.
- Fujita, Rod & Tourgee, Amy & Carcamo, Ramon & Epstein, Lawrence & Gedamke, Todd & McDonald, Gavin & Wilson, Jono & Foley, James. (2019). Assessing and Managing Small-Scale Fisheries in Belize. 10.1007/978-3-319-76078-0\_8.
- Ailloud, L. E., T Gedamke, J. M. Hoenig. Short-Term Pain and Long-Term Gain: Using Phased-In Minimum Size Limits to Rebuild Stocks—the Pacific Bluefin Tuna Example. 2018. Transactions of the American Fisheries Society 147: 1015-1029.
- Huynh, Q. C., T. Gedamke, J. M. Hoenig, and C. Porch. 2017. Multispecies extensions to a non-equilibrium length-based mortality estimator. Marine and Coastal Fisheries 9 (1), 68-78
- Huynh, Q. C., T. Gedamke, J. M. Hoenig, and C. Porch, J.F. Walter, M. Bryan, J. Brodziak. 2017. Estimating Total Mortality Rates from Mean Lengths and catch rates in non- equilibrium situations. Transactions of the American Fisheries Society 146 (4), 803-815.
- McDonald, G., W.J. Harford, A. Arrivillaga, EA Babcock, R. Carcamo, J Foley, R. Fujita, T. Gedamke, J. Gibson, K. Karr, J. Robinson, J. Wilson. 2017. An indicator-based adaptive management framework and its development for data-limited fisheries in Belize. Marine Policy 76 (2017): 28–37.
- Harford, W.J., T. Gedamke, E.A. Babcock, R. Carcamo, G. McDonald, J.R. Wilson, 2016. Management strategy evaluation of a multi-indicator adaptive framework for data-limited fisheries management. Bulletin of Marine Science. Vol 92 (4): 423-445.
- Dowling, N.A., J.R. Wilson, M.B. Rudd, E.A. Babcock, M. Caillaux, J. Cope, D. Dougherty, R. Fujita, T. Gedamke, M. Gleason, N. Gutierrez, A. Hordyk, G.W. Maina, P.J. Mous, D. Ovando, A.M. Parma, J. Prince, C. Revenga, J. Rude, C. Szuwalski, S. Valencia, and S. Victor. 2016. FishPath: A Decision Support System for Assessing and Managing Data- and Capacity - Limited Fisheries. In: T.J. Quinn II, J.L. Armstrong, M.R. Baker, J. Heifetz, and D. Witherell (eds.), Assessing and Managing Data-Limited Fish Stocks. Alaska Sea Grant, University of Alaska Fairbanks. <http://doi.org/10.4027/amdlfs.2016.03>
- Schmitt J. D., Todd Gedamke, W. D. DuPaul, J. A. Musick. 2015. Ontogenetic and sex-specific shifts in the feeding habits of the Barndoor Skate (*Dipturus laevis*). Marine and Coastal Fisheries. Volume 7: 409-418.
- Then, A.Y., J. M. Hoenig, T. Gedamke, and J.S. Ault. 2015 Comparison of Two Length-Based Estimators of Total Mortality: a Simulation Approach. Transactions of the American Fisheries Society 144: 1206–1219.
- Kessel, S.T., D. D. Chapman, B. R. Franks, T. Gedamke, S. H. Gruber, J. M. Newman, E. R. White, and R. G. Perkins. 2014. Predictable temperature-regulated residency, movement and migration in a large, highly mobile marine predator (*Negaprion brevirostris*). Marine Ecology Progress Series, 514: 175-190.
- Coutré, K., T. Gedamke, D. B. Rudders, W. B. Driggers III, D. M. Koester and J. A. Sulikowski. 2013. Indication of Density-Dependent Changes in Growth and Maturity of the Barndoor Skate on

Georges Bank, Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science, 5:1, 260-269.

- Cortés, E., E. N. Brooks, and T. Gedamke. 2012. Population Dynamics, Demography, and Stock Assessment. In J.C. Carrier, J. A. Musick, and M. R. M.R. Heithaus (Editors), *Biology of Sharks and Their Relatives, Second Edition* (pp. 453-485). CRC Press.
- Patrick, W., Spencer, P., Ormseth, O., Cope, J., Field, J., Kobayashi, D., Gedamke, T., Cortés, E., Bigelow, K., Overholtz, W., Link, J., and Lawson P. 2010. Assessing the vulnerability of U.S. fisheries to becoming overfished or undergoing overfishing through the use of productivity and susceptibility indices. *Fishery Bulletin*, 108:305–322. **\*Received NMFS Best Scientific Publication Award**
- Hagberg, J., Cardinale, M., Svedang, H., Bartolino, V., Gedamke, T., Hjelm, J., Borjesson, P., and Noren, F. 2010. Fishing through time: population dynamics of Plaice (*Pleuronectes platessa*) in the Kattegat-Skagerrak over a century. *Population Ecology*, 52: No. 2, 251-252.
- Gedamke, T., J. M. Hoenig, W.D. DuPaul, and J.A. Musick. 2009. Stock recruitment dynamics and the maximum population rate of population growth of the barndoor skate. *North American Journal of Fisheries Management*. 26:512-529.
- Brooks, E. N., K. W. Shertzer, T. Gedamke, and D. S. Vaughan. 2008. An Evaluation of measures of spawning stock biomass for protogynous hermaphrodites. *Fishery Bulletin*. 106:12-23.
- Gedamke, T., J. M. Hoenig, W.D. DuPaul, and J.A. Musick. 2008. Total Mortality Rates of the Barndoor Skate, *Dipturus laevis*, in the Northeast United States, 1963-2005. *Fisheries Research* 89:17-25.
- Walter, J. F., J. M. Hoenig, T. Gedamke. 2007. Correcting for effective area fished in fishery-dependent depletion estimates of abundance and capture efficiency. *ICES Journal of Marine Science* 64: 1760-1771.
- Hoenig, J. M. and Gedamke, T. 2007. A Simple Method for Estimating Survival Rate from Catch Rates from Multiple Years. *Transactions of the American Fisheries Society*. 136:1245–1251.
- Gedamke, T., J. M. Hoenig, W. D. DuPaul, J. A. Musick and S. H. Gruber. 2007. Using demographic models to determine intrinsic rate of increase and sustainable fishing for elasmobranchs: pitfalls, advances and applications. *North American Journal of Fisheries Management* 27:605–618.
- Gedamke, T., and J. M. Hoenig. 2006. Estimating Mortality from Mean Length Data in Non-equilibrium Situations, with Application to the Assessment of Goosefish (*Lophius americanus*). *Transactions of the American Fisheries Society*. 135:476-487.
- Gedamke, T., W. D. DuPaul, and J. M. Hoenig. 2005. Index-Removal Estimates of Dredge Efficiency for Sea Scallops on Georges Bank. *North American Journal of Fisheries Management*. 25:1122-1129.
- Gedamke, T., W. D. DuPaul, and J. A. Musick. 2005. Observations on the life history of the barndoor skate, *Dipturus laevis*, on Georges Bank (western North Atlantic). *Journal of Northwest Atlantic Fishery Science*. 35:67-78.
- Gedamke, T., W. D. DuPaul, and J. M. Hoenig. 2004. A Spatially Explicit Open-Ocean DeLury Analysis to Estimate Gear Efficiency in the Dredge Fishery for Sea Scallop *Placopecten magellanicus*. *North American Journal of Fisheries Management*. 24:335-351.

## SELECTED REPORTS

- Quinlan, J.A. and T. Gedamke. 2016. Report of the NOAA-SEAMAP Deepwater Horizon Workshop: Science Needs and Approaches for Improved Stock Assessment, Ecosystem Management, and Marine Spatial Planning. St. Petersburg, Florida, September 23-24, 2010. NOAA Tech. Memo. NMFS-SEFSC-680. 139 pp.
- Gedamke, T. 2013. Preliminary Analyses of the Potential Impacts of Minimum Weight Regulations for Pacific Bluefin Tuna. Western and Central Pacific Fishery Management Commission. WCPFC-SC9-2013/SA-WP-15.

- Bryan, Meaghan D., Gedamke, T., and Walter, John F. 2013. A pilot, cooperative fishery-independent trap survey of Saint Croix, United States Virgin Islands. NOAA Technical Memorandum NMFS-SEFSC-641, 28pp.
- Brodziak, J., T. Gedamke, C. Porch, J. Walter, D. Courtney, J. O'Malley, and Benjamin Richards. 2012. A workshop on methods to estimate total and natural mortality rates using mean length observations and life history parameters. U.S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-PIFSC-32, 26 p. + Appendix.
- Hussey N. E., Kessel S. T., Gruber S. H., Chapman D. D., Franks B. R., Gedamke T., and Reyier E. A. 2011. Jupiter lemon shark (*Negaprion brevirostris*) project report 2011. Submitted to University of Windsor.
- Kessel, S. T., Gruber, S. H., Gedamke, T., & Perkins, R. G. 2009. Seasonal residency and migration of mature lemon sharks (*Negaprion brevirostris*) off the southeast Florida Coast. Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology, 153(2), S66.
- W. S. Patrick, P. Spencer, O. Ormseth, J. Cope, J. Field, D. Kobayashi, T. Gedamke, E. Cortés, K. Bigelow, W. Overholtz, J. Link, and P. Lawson. 2009. Use of Productivity and Susceptibility Indices to Determine Stock Vulnerability, with Example Applications to Six U.S. Fisheries. U.S. Department of Commerce National Oceanic and Atmospheric Administration, National Marine Fisheries Service NOAA Technical Memorandum NMFS-F/SPO-101.
- Erickson, K., T. Gedamke, S. Turner, M. Maiello, and K. Keene. 2009. An evaluation of United States albacore tuna length-weight data and development of a regional relationship. ICCAT: SCRS 2009\_154
- Brooks, E., Gedamke, T., and Sosebee, K. A. Managing Data-Poor Fisheries: Case Studies, Models and Solutions. NEFSC Data-Poor Workshop. Results presented at U. of California/Sea Grant and DFG workshop: December, 2008.
- Gedamke, T. 2008. Smooth Skate Demographic Analysis and Population Trends. Presented to the Northeast Skate PDT. July, 2008.
- Townsend, H. M., J. S. Link, K. E. Osgood, T. Gedamke, G. M. Watters, J. J. Polovina, P. S. Levin, N. Cyr, and K. Y. Aydin (editors). 2008. National Marine Fisheries Service Report of the National Ecosystem Modeling Workshop (NEMoW). U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-F/SPO-87, 93p.
- Gedamke, T. 2007. Using a Leslie Matrix Demographic Model to Explore the Population Dynamics of Winter and Thorny Skates in the Northeast United States. Presented to the Northeast Skate PDT. November, 2007.
- Soomai, S., Y. Babb, C. Derrell, P. Ramotar, J. Hoenig, C. Porch, T. Gedamke, and L. Waterhouse. 2007. Report of the Shrimp and Groundfish Resource Working Group (SGWG). Caribbean Regional Fisheries Mechanism CSM 2007:Document 4-12.
- Gedamke, T. Estimation of mutton snapper total mortality rate from length observations. .SEDAR Document number: SEDAR14-AW-05.
- Gedamke, T., C.E. Porch, and J.M. Hoenig. 2007. Estimating mutton snapper mortality rates from mean lengths and catch rates in non equilibrium conditions. Sustainable Fisheries Division Contribution SFD-2007-026.
- Gedamke, T. and C.E. Porch. Standardized visual counts of mutton snapper off the U.S. Virgin Islands and their possible use as indices of Abundance. SEDAR Document number: SEDAR14-RW03.
- Gedamke, T. 2002. Sea turtles, marine mammals, and fishing activity off the VA coast. Summary report of aerial surveys conducted during the summer of 2002. Submitted to Coastwise Consulting in partial fulfillment of NMFS contract.
- DuPaul, W.D., D. B. Rudders and T. Gedamke, "Yellowtail Flounder (*Limanda ferruginea*) Bycatch During the 1999 Commercial Sea Scallop Opening of Georges Bank Area II" Submitted to Sea

Scallop Plan Development Team Plymouth, Mass. December 2, 2001. VA Marine Resource Report NO. 2001-16

Gedamke, T. and W. D. DuPaul. Preliminary Observations of Barndoor Skates (*Raja laevis*) on Georges Bank. Virginia Marine Resource Report No. 99-9. October 8, 1999

Williams, K., Gedamke, T., Survey of Protected Species Nesting on Williamson Island, Georgia. 1996. Submitted to Kemron Environmental Services, Atlanta Committee for the Olympic Games, US Fish and Wildlife Service, and the Georgia Department of Natural Resources.

Williams, K., Gedamke, T., Annual Report-1996 Season. Caretta Research Project. Submitted to US Fish and Wildlife Service and the Georgia Department of Natural Resources.

Gedamke, T., Mansfield, K., Survey of Protected Species Nesting on Williamson Island, Georgia. 1995. Submitted to Kemron Environmental Services, Atlanta Committee for the Olympic Games, US Fish and Wildlife Service, and the Georgia Department of Natural Resources.

Gedamke, T., Mansfield, K., Annual Report-1995 Season. Caretta Research Project. Submitted to US Fish and Wildlife Service and the Georgia Department of Natural Resources.

#### **MENTORING/STUDENT COMMITTEES**

Staci Hudy – MS at Virginia Tech. Major Advisor: Dr. Jim Berkson.

Nathan Vaughan – PhD at University of Miami. Major Advisor: Dr. Jerald Ault

Amy Then – PhD at Virginia Institute of Marine Science. Major Advisor: Dr. John Hoenig

#### **RECOGNITION, CERTIFICATIONS, AND AFFILIATIONS**

Enriched Air/Nitrox Certification (Technical Diving Institute). 2005.

Draeger Rebreather Certification (Technical Diving Institute). 2005.

United States Coast Guard Captains License, 1992. 100 ton near-coastal. Renewed 1997, 2002, 2008, 2015. Over 2,500 documented days at sea.

Member American Society of Ichthyologists and Herpetologists (2005-2010)

Member American Fisheries Society (2001-present)

Member National Shellfish Association (1999-2006)

First Aid and CPR certified, 1992-present.

Beta Beta Beta, Biological Honor Society. Inducted into Upsilon Phi chapter, Spring 1990.

Scuba Diving Certification (PADI), 1982.

#### **REFERENCES**

Available upon request