

**CURRICULUM VITAE**  
**R. Dean Grubbs**

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**Birth** 25 March 1970  
Perry, Florida, U.S.A.

**Education** Ph.D. **College of William & Mary**, Department of Fisheries Science – 2001  
Dissertation Title: Nursery delineation, habitat utilization, movements and migration of juvenile *Carcharhinus plumbeus* in Chesapeake Bay, Virginia, USA  
Graduate Advisor: Dr. John A. Musick  
B.S. **University of Miami**, Department of Marine Science – 1992  
Major (double): Marine Science/Biology, Minor: Chemistry  
Advisor: Dr. Samuel H. Gruber

**Professional Experience** Associate Director of Research – **Florida State University Coastal & Marine Laboratory**  
4/2012-present  
Associate Scholar Scientist/Research Faculty II – **Florida State University Coastal & Marine Laboratory** 8/2012-present  
Lecturer/Adjunct Faculty, **University of Miami**, Rosenstiel School of Marine and Atmospheric Science, Department of Marine Biology and Fisheries 1/2015-present  
Assistant Scholar Scientist (Faculty) – **Florida State University Coastal & Marine Laboratory** 8/2007 to 8/2012  
Professional Faculty I, Assistant Research Scientist– **College of William & Mary**, Virginia Institute of Marine Science, Department of Fisheries Science, 1/2006 to 8/2007.  
Assistant Research Faculty - **University of Hawai'i**, School of Ocean and Earth Science and Technology, Hawai'i Institute of Marine Biology, 10/2003-12/2005  
Postdoctoral Fellow, **University of Hawai'i**, Pelagic Fisheries Research Program, Hawai'i Institute of Marine Biology, 2/2001-10/2003: Advisor - Dr. Kim N. Holland.

**Advisory Positions** Scientific Advisor – Save Our Seas Foundation (2015-present)  
NOAA Fisheries: Highly Migratory Species (HMS) Southeast Data, Assessment, and Review (SEDAR) Pool of Experts. Invited Member, 2010-present  
NOAA Fisheries, Office of Protected Resources: Smalltooth Sawfish Recovery Implementation Team. Invited Member, 2009- present  
International Union for the Conservation of Nature (IUCN), Species Survival Commission, Shark Specialist Group, Invited Member: NE Pacific Region (2001-2006), NW Atlantic Region (2007-present)  
Courtesy Faculty, Florida State University, Department of Biological Science (2008-present)  
Associate Graduate Faculty at Texas A&M University–Corpus Christi (2015-present)  
Affiliate Faculty, Hawai'i Institute of Marine Biology, University of Hawai'i (2005-2010)  
Adjunct Faculty, Utah State University, Department of Biology (2005-2008)  
Adjunct Faculty/Educational Consultant, Bimini Biological Field Station, Bahamas; University of Miami, FL (1996-present)  
Board of Directors – Bimini Biological Field Station Foundation (2013-present)

**Consulting  
and Media  
Service**

IUCN, Shark Specialist Group - Invited expert  
North and Central America Redlist Workshop; Sarasota, Florida (June 2004).  
Gulf of Mexico Endemic Marine Fishes Workshop; Corpus Christi, TX (August 2011)

NOAA, National Marine Fisheries Service – Invited expert:  
Shark Predation on Hawaiian Monk Seals. Honolulu, HI. 01/2008, 10/2008  
Shark Deterrents and Incidental Capture. Boston, MA. 04/2008

Save Our Seas Foundation: Bimini Voices, East Wells – Bimini’s Last Hope (2017)

Screenscope/PBS: Journey to Planet Earth: Dispatches from the Gulf (2015, 2016)

Discovery Channel – Canada: Daily Planet (2017)

Discovery Channel: Shark Week, “Alien Sharks – Stranger Fins” (2017), “Alien Sharks III” (2015), “Alien Sharks: Return to the Abyss” (2014), “Best Bites with Craig Ferguson” (2010)

National Geographic Television: “Destination Wild: Blitzkrieg Sharks” (2016) “When Sharks Attack” Series, two episodes (2015) “Dangerous Encounters” Series: “Sawfish Giant” (2011), “Jurassic Shark” (2008), “ Monster Bite II” (2006), “Dens of Danger, Cave Sharks” (2005)

Florida Center for Research in Science, Technology, Engineering, and Mathematics (FCR-STEM) CPALMS Program, Perspectives Educational Videos: Distribution of Life in Aquatic Systems (2 videos, 2012), Math and Science – Deep Sea Shark Research (2015), Earth Systems and Climate – Fisheries and Conservation Research (2015)

WPBT – “Changing Seas” Series – “Saving Sawfish” (2014), “Creatures of the Deep” (2013) Cinemaquatics. “Saving the Sawfish” (2007)

National Geographic Magazine. Blue Waters of the Bahamas: An Eden for Sharks (2006)

LOOKS Film Productions. “Of Sharks and Man” 2007.

Expert Witness - Attorney General of the State of California; The People of the State of California vs. Tri-Union Seafoods, LLC, et al. (2004-2006)

National Marine Fisheries Service – Law Enforcement Division; Identification of illegal shark fins seized in American Samoa (2005)

Consultant/Chief Scientist, Wildlife Conservation Society-New York; Design and implementation of shark survey, Middle Cay, Belize (2000)

**Interviews: (Selected, 2012-Present Only)**

New York Post, Discovery Channel – Canada, Science News, Wired Magazine, National Geographic Television, Daily Press, WCTV, EarthTouchNews, Florida Trends Magazine, The Izaak Walton League of America, Pangolin Pictures, National Geographic Kids, NPR Best Part of My Job Podcast, Screenscope, New Scientist, Yale Environment 360, Sharks4kids, IDG News Service, NBC World, Outdoor America Magazine, Orlando Sun Sentinel, TakePart Magazine, Optimus Films, Slate, Paralax Films, Discovery Daily Planet, Wilma TV, WPBT2-Miami, CPALMS, WFSU Radio, Discovery Channel – Shark Week, The New York Times, National Wildlife Federation, WCTV Television, Bay News 9, Yahoo Voices, Conch Chronicles, The Bahamas Weekly, Underwater Times, WFSU Radio, Daytona Beach News Journal, National Geographic Television, History Channel, Sportfishing Magazine, Outside Magazine, Florida Public Radio, Baltimore Sun, Cinemaquatics, Chesapeake Bay Journal, Virginia Pilot, Richmond Times Dispatch, St. Petersburg Times, Virginia Living Magazine, Across the Spectrum Magazine, Guy Harvey Magazine

## Professional Societies and Service

American Elasmobranch Society - Member: 1994-present

President: 2016-2017

President Elect: 2015

Executive Committee: 2016-2019

Board of Directors: 2011-2016

Grant Fund Committee Member: 2007- 2010, Chair: 2008-2010

Gruber Award (Best student oral presentation) Committee: 2008, 2009

American Society of Ichthyologists and Herpetologists - Member: 1994-2001

American Fisheries Society - Member: 1995-2000, 2011-present

## Journal Manuscript Reviewer:

Aquatic Biology

BMC Genomics

Brazilian Journal of Oceanography

Bulletin of Marine Science

Canadian Journal of Fisheries and Aquatic Science

Deep-Sea Research II

Endangered Species Research

Environmental Biology of Fishes

Estuaries and Coasts

Fish and Fisheries

Fisheries

Fisheries Research

Fishery Bulletin

Frontiers in Marine Science

Gulf and Caribbean Research

Heredity

Marine and Coastal Fisheries

Marine and Freshwater Research

Marine Biology

Marine Ecology Progress Series

Marine Fisheries Review

North American Journal of Fisheries Management,

PLoS ONE

Proceedings of the National Academy of Science

Scientific Reports

Transactions of the American Fisheries Society

Guest Editor: Deep Sea Research II; Endangered Species Research

Manuscript Editor: Southeastern Naturalist, Deep Sea Research II

Editorial Board Member: Florida Scientist

Book Reviewer: American Fisheries Society Books, University of Oklahoma Press

Environmental Biology of Fishes

Grant Reviewer: NOAA Saltonstall-Kennedy Program, Save Our Seas Foundation, National Geographic Society, The Ruffort Foundation, Oregon Sea Grant, Florida Sea Grant, National Science Foundation, USDOC Protected Species Cooperative Conservation, Portuguese Foundation for Science and Technology, United Kingdom Dept. of Environment, Food and Rural Affairs – Marine & Fisheries Research Programme

## Publications

### Book Chapters – Peer-reviewed

**Grubbs, R.D.**, R.T. Kraus. 2017. Fish Migration, In Reference Module in Life Sciences, Elsevier, ISBN: 978-0-12-809633-8, <http://dx.doi.org/10.1016/B978-0-12-809633-8.01247-4>

**Grubbs, R.D.**, R.T. Kraus. 2010. Migrations in Fishes. Encyclopedia of Animal Behavior. Breed, M. D. & Moore, J. eds, Academic Press, Oxford. Vol 1: 715-724.

**Grubbs, R.D.** 2010 Chapter 7. Ontogenetic Shifts in Movements and Habitat Use. In Carrier JF, Musick JA, Heithaus MR (eds.). Sharks and Their Relatives II: Biodiversity, Adaptive Physiology, and Conservation, CRC Press, New York, New York, USA. pp. 319-350.

Holland, K.N., **R.D. Grubbs**. 2007. Chapter 10: Fish Visitors to Seamounts Section A: Tunas and Billfish. Pp. 189-207. In: T. Pitcher, T. Morato, P. Hart, M. Clark, N. Haggan and R. Santos, (eds). Seamounts: Ecology, Fisheries & Conservation. Blackwell Publishing: Fish and Aquatic Resources Series 12. Oxford.

**Journal Articles – Peer-reviewed** (\*Graduate student as lead author)

- \*Pfleger, M., **R.D. Grubbs**, C.F. Cotton, T.S. Daly-Engel. *In press*. *Squalus clarkae*, sp. nov., a new dogfish shark from the northwest Atlantic and Gulf of Mexico, with comments on the *S. mitsukurii* species complex. *Zootaxa* XX:XXX
- Daly-Engel, T.S., I.E. Baremore, **R.D. Grubbs**, S.J.B. Gulak, M.P. Enzenauer, R.T. Graham. 2018. Resurrection of the bigeye sixgill shark *Hexanchus vitulus* (Hexanchiformes, Hexanchidae), with comments on its distribution in the northwest Atlantic Ocean. *Mar Biodiv*. <https://doi.org/10.1007/s12526-018-0849-x>
- \*Kolmann, M.A., **R.D. Grubbs**, D.R. Huber, R. Fisher, N.R. Lovejoy, G.M. Erickson. 2018. Intraspecific variation in feeding mechanics and bite force in durophagous stingrays. *J Zool*. doi:10.1111/jzo.12530
- Talwar, B., E.J. Brooks, J.W. Mandelman, **R.D. Grubbs**. 2017. Stress, post-release mortality, and recovery of commonly discarded deep-sea sharks caught on longlines. *Marine Ecol. Prog. Series* 582: 147-161
- Walter, R.P., D. Roy, N.E. Hussey, B. Stelbrink, K.M. Kovacs, C. Lydersen, B.C. McMeans, J. Svavarsson, S.T. Kessel, S.B. Porsmoguer, S. Wildes, C. Tribuzio, S.E. Campana, S. Petersen, **R.D. Grubbs**, D.D. Heath, K.J. Hedges, A.T. Fisk. 2017. Origins of the Greenland Shark (*Somniosus microcephalus*): impacts of Ice-olation and Introgression. *Ecology and Evolution* 7(19), pp.8113-8125
- \*Talwar B., I.A. Bouyoucos, O. Shipley, J.L. Rummer, J.W. Mandelman, E.J. Brooks, **R.D. Grubbs**. 2017. Validation of a portable, waterproof blood pH analyzer for elasmobranchs. *Conserv Physiol* 5(1): cox012; doi:10.1093/conphys/cox012.
- \*Peterson, C.H., **R.D. Grubbs**, A. Mickle. 2017. An investigation of effects of the Deepwater Horizon oil spill on coastal fishes in the Florida Big Bend using fishery-independent surveys and stable isotope analysis. *Southeastern Naturalist* 16(1): G93-G108
- Poulakis G.R., H. Urakawa, P.W. Stevens, J.A. DeAngelo, A.A. Timmers, **R.D. Grubbs**, A.T. Fisk, J.A. Olin. 2017. Sympatric elasmobranchs and fecal samples provide insight into the trophic ecology of the smalltooth sawfish. *Endangered Species Research*. doi: 10.3354/esr00824
- Guttridge T.L., M.P.M. Van Zinnicq Bergmann, C. Bolte, L. Howey-Jordan, J.S. Finger, S.T. Kessel, J. Brooks, W. Winram, M.E. Bond, L.K.B. Jordan, R.C. Cashman, E.R. Tolentino, **R.D. Grubbs**, S.H. Gruber. 2017. Philopatry and regional connectivity of the great hammerhead shark, *Sphyrna mokarran* in the U.S and the Bahamas. *Frontiers in Marine Science* 4:3. doi:10.3389/fmars.2017.00003
- Tolentino, E.R., R.P. Howey, L.A. Howey, L.K.B. Jordan, **R.D. Grubbs**, A. Brooks, S. Williams, E.J. Brooks, O.N. Shipley. 2017. Was my science project eaten? A novel approach to validate consumption of marine biotelemetry instruments. *Animal Biotelemetry* 5(3) DOI 10.1186/s40317-016-0117-4
- \*Shipley, O.N., E.J. Brooks, D.J. Madigan, C.J. Sweeting, **R.D. Grubbs**. 2017. Stable isotope analysis in deep-sea chondrichthyans: recent challenges, ecological insights, and future directions. *Reviews in Fish Biology and Fisheries*. DOI 10.1007/s11160-017-9466-1
- \*Shipley, O., B. Talwar, **R.D. Grubbs**, E. Brooks. 2017. Isopods present on deep-water sharks *Squalus cubensis* and *Heptranchias perlo* from The Bahamas. *Marine Biodiversity*. 47:789–790
- Gaither, M.R., B. Violi, H.W.I. Gray, F. Neat, J.C. Drazen, **R.D. Grubbs**, A. Roa-Varón, T. Sutton, A.R. Hoelzel. 2016. Depth as a driver of evolution in the deep sea: Insights from grenadiers (Gadiformes: Macrouridae) of the genus *Coryphaenoides* *Molecular Phylogenetics and Evolution* 104: 73-82
- Grubbs R.D.**, J.K. Carlson, J.G. Romine, T.H. Curtis, W.D. McElroy, C.T. McCandless, C.F. Cotton, J.A. Musick. 2016. Critical assessment and ramifications of a purported marine trophic cascade. *Scientific Reports* 6 Editors' Choice: Science Vol. 351, Issue 6277, pp. 1039
- \*Talwar, B., E.J. Brooks, **R.D. Grubbs**. 2016. An assessment of post-release mortality for a commonly discarded deep-sea isopod (*Bathynomus giganteus*) using reflex impairment. *ICES Journal of Marine Science: Journal du Conseil*, p.fsw087

- \*Brooks, J.L., Guttridge, T.L., Franks, B.R., **Grubbs, R.D.**, Chapman, D.D., Gruber, S.H., Dibattista, J.D., Feldheim, K.A. 2016. Using genetic inference to re-evaluate the minimum longevity of the lemon shark, *Negaprion brevirostris* J. of Fish Biology 88): 2067-2074.
- Guttridge T.L., S.J.B. Gulak, B.R.Franks, J.K.Carlson, S.H. Gruber, K.S.Gledhill, M.E. Bond, G. Johnson, **R.D. Grubbs**. 2015. Occurrence and habitat use of the critically endangered smalltooth sawfish (*Pristis pectinata*) Latham, 1794 in the Bahamas. J. of Fish Biology 87, 1322–1341
- Cotton, C.F., **R.D. Grubbs**. 2015. Biology of Deep-Water Chondrichthyans: Introduction. Deep-Sea Research II 115: 1-10
- \*Giresi, M.M., **R.D. Grubbs**, D.S. Portnoy, W.B. Driggers III, L. Jones, J.R. Gold. 2015. Identification and distribution of morphologically conserved smoothhound sharks (Genus *Mustelus*) in the northern Gulf of Mexico. Transactions of the American Fisheries Society 144:1301–1310
- Papastamatiou, Y.P., **R.D. Grubbs**, J. Imhoff, S. Gulak, J.K. Carlson, G. Burgess. 2015. Identification of essential habitat for large juvenile and adult endangered smalltooth sawfish using multiple tagging methods. Global Ecology and Conservation 3:764-775
- \*Kolmann, M.A., D.R. Huber, P.J. Motta, **R.D. Grubbs**. 2015. Feeding biomechanics of the cownose ray, *Rhinoptera bonasus*, over ontogeny. Journal of Anatomy. doi: 10.1111/joa.12342
- \*Churchill, D.A., M.R. Heithaus, J.J. Vaudo, **R.D. Grubbs**, J.I. Castro. 2015. Trophic interactions of common elasmobranchs in deep-sea communities of the Gulf of Mexico revealed through stable isotope and stomach contents analysis. Deep Sea Research II. 115: 92-102
- \*Churchill, D.A., M.R. Heithaus, **R.D. Grubbs**. 2015. Effects of lipid and urea extraction on  $\delta^{15}\text{N}$  values of deep-sea sharks and hagfish: can mathematical correction factors be generated? Deep Sea Research II. 115: 103-108
- Cotton, C.F., **R.D. Grubbs**, J.E. Dyb, I. Fossen, J.A. Musick. 2015. Reproduction and embryonic development in two species of squaliform sharks, *Centrophorus granulosus* and *Etmopterus princeps*: evidence of matrotrophy? Deep Sea Research II. 115: 41-54
- Brooks, E.J., A.M. Brooks, S. Williams, L.K.B. Jordan, D. Abercrombie, D.D. Chapman, L.A. Howey-Jordan, **R.D. Grubbs**. 2015. First description of deep-water elasmobranch assemblages in the Exuma sound, the Bahamas. Deep-Sea Research II. 115: 81-91
- \*Hollensead, L.D., **R.D. Grubbs**, J.K. Carlson, D.M. Bethea. 2015. Analysis of fine-scale daily movement patterns of juvenile *Pristis pectinata* within a nursery habitat. Aquatic Conserv: Mar. Freshw. Ecosyst. DOI: 10.1002/aqc.2556
- \*Kolmann, M.A., D.R. Huber, M.N. Dean, **R.D. Grubbs**. 2014. Myological variability in a decoupled skeletal system: batoid cranial anatomy. J. of Morphology. 275(8): 862-881
- Burgess, G.H., B.D. Bruce, G.M. Cailliet, K.J. Goldman, **R.D. Grubbs**, C.G. Lowe, M.A. MacNeil, H.F. Mollet, J.B. O’Sullivan, K.C. Weng. 2014. A re-evaluation of the size of the white shark (*Carcharodon carcharias*) population off California, USA. PLOS One 9(6): e98078
- Cotton, C.F., A.H. Andrews, G.M. Cailliet, **R.D. Grubbs**, S.B. Irvine, J.A. Musick. 2014. Assessment of radiometric dating for age validation of deep-water dogfish (Order: Squaliformes) finspines. Fisheries Research 151: 107– 113
- Carlson, J.K., S.J.B. Gulak, C.S. Simpfendorfer, **R.D. Grubbs**, J.G. Romine and G.H. Burgess. 2014. Habitat use and movement patterns of smalltooth sawfish, *Pristis pectinata*, determined using pop-up satellite archival tags. Aquatic Conserv: Mar. Freshw. Ecosyst. 24: 104-117.
- Bethea, D.M., M.J. Ajemian, J.K. Carlson, E.R. Hoffmayer, J.L. Imhoff, **R.D. Grubbs**, C.T. Peterson, G.H. Burgess. 2014. Distribution and community structure of coastal sharks in the northeastern Gulf of Mexico. Env. Biol. Fish. 98(5): 1233-1254
- Portnoy, D.S., C.M. Hollenbeck, C.N. Belcher, W.B. Driggers III, B.S. Frasier, J. Gelsleichter, **R.D. Grubbs**, J.R. Gold. 2014. Population structure and historical genetic demography of blacknose sharks in the Western North Atlantic and Gulf of Mexico. Molecular Ecology 23: 5480-5495

- Fisher, R.A., G.C. Call, **R.D. Grubbs**. 2013. Age, Growth, and Reproductive Biology of Cownose Rays in Chesapeake Bay, *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science*, 5:1, 224-235
- Jennings, D.E., J.D. DiBattista, K.L. Stump, N.E. Hussey, B.R. Franks, **R.D. Grubbs**, S.H. Gruber. 2012. Assessment of the aquatic biodiversity of a threatened coastal lagoon at Bimini, Bahamas. *Journal of Coastal Conservation* 16:205-428.
- Cotton, C.F., **R.D. Grubbs**, T.S. Daly-Engel, P.D. Lynch, J.A. Musick. 2011. Age, growth and reproduction of *Squalus cf. mitsukurii* from Hawaiian waters. *Marine and Freshwater Research* 62: 1-12
- Fisher, R.A., G.C. Call, **R.D. Grubbs**. 2011. Cownose ray (*Rhinoptera bonasus*) predation relative to bivalve ontogeny. *J. Shellfish Research* 30(1): 187-196.
- \*Veríssimo, A, **D. Grubbs**, J. McDowell, J. Musick, D. Portnoy. 2011. Frequency of multiple paternity in the spiny dogfish *Squalus acanthias* off the southeast U.S. in the western North Atlantic. *Journal of Heredity* 102: 88-93
- Daly-Engel T.S., **R.D. Grubbs**, K.A. Feldheim, B.W. Bowen, and R.J. Toonen. 2010. Is multiple mating beneficial or unavoidable? Low multiple paternity and genetic diversity in the shortspine spurdog (*Squalus mitsukurii*). *Marine Ecology Progress Series* 403: 255-267.
- Grubbs, R.D.** and J.A. Musick. 2007. Spatial delineation of summer nursery areas for juvenile sandbar sharks in Chesapeake Bay, Virginia. *In*: C.T. McCandless, N.E. Kohler and H.L. Pratt, Jr. (editors). Shark nursery grounds of the Gulf of Mexico and the East Coast waters of the United States. *American Fisheries Society Symposium* 50: 63–86.
- Grubbs, R.D.**, J.A. Musick, C.L. Conrath, and J.G. Romine. 2007. Long-term movements, migration, and temporal delineation of summer nurseries for juvenile sandbar sharks in the Chesapeake Bay region. *In*: C.T. McCandless, N.E. Kohler and H.L. Pratt, Jr. (editors). Shark nursery grounds of the Gulf of Mexico and the East Coast waters of the United States. *American Fisheries Society Symposium* 50: 87–108.
- \*Daly-Engel, T.S., **R.D. Grubbs**, B.W. Bowen and R.J. Toonen. 2007. Frequency of multiple paternity in an unexploited tropical population of sandbar sharks (*Carcharhinus plumbeus*). *Canadian Journal of Fisheries and Aquatic Sciences* 64: 198-204.
- \*Graham, B., **D. Grubbs**, K. Holland, and B. Popp. 2007. A rapid ontogenetic shift in the diet of juvenile yellowfin tuna from Hawai'i. *Marine Biology* 150: 647-658.
- \*Daly-Engel, T.S., **R.D. Grubbs**, K.N. Holland, R.J. Toonen, B.W. Bowen. 2006. Assessment of multiple paternity in single litters from three species of carcharhinid sharks in Hawai'i. *Environmental Biology of Fishes* 76: 419-424.
- \*Romine, J.G., **R.D. Grubbs** and J.A. Musick. 2006. Age and growth of the sandbar shark, *Carcharhinus plumbeus*, in Hawaiian waters through vertebral analysis. *Environmental Biology of Fishes* 77: 229-239.
- Burgess, G.H., L.R. Beerkircher, G.M. Cailliet, J.K. Carlson, E. Cortés, K.J. Goldman, **R.D. Grubbs**, J.A. Musick, M.K. Musyl, and C.A. Simpfendorfer. 2005. The decline of shark populations in the Northwest Atlantic Ocean and Gulf of Mexico: Fact or Fiction? *Fisheries* 30 (10): 19-26.
- Burgess, G.H., L.R. Beerkircher, G.M. Cailliet, J.K. Carlson, E. Cortés, K.J. Goldman, **R.D. Grubbs**, J.A. Musick, M.K. Musyl, and C.A. Simpfendorfer. 2005. Reply to "Robust estimates of decline for pelagic shark populations in the Northwest Atlantic and Gulf of Mexico" *Fisheries* 30 (10): 30-31.

#### Miscellaneous Edited Publications

- Grubbs, R.D.** 2017. Lifeboats for Sawfishes? *Save Our Seas Magazine*. Winter 2017: Issue 8
- Grubbs, R.D.** 2016. Hidden Mortality: The effects of by-catch. *Save Our Seas Magazine*. Winter 2016: Issue 6
- Grubbs, R.D.**, C.F. Cotton. 2015 Sharks of the twilight zone. *Save Our Seas Magazine*. Winter 2015: Issue 4

- Fisher, R. and **D. Grubbs**. 2007. Everybody loves ray? Virginia Marine Resource Bulletin. Volume 39(2): 13-18. Virginia Seagrant.
- Holland, K., **D. Grubbs**, D. Itano, B. Graham and L. Dagorn. 2003. The biology of FAD-associated tuna: Temporal dynamics of association and feeding ecology. Pelagic Fisheries Research Program Newsletter Volume 8 (3): 1-2.
- Chlebowski, M., **D. Grubbs**, and D. Raff. 1994. The Marine Science Consortium - Pre-college Program Fieldbook. Pioneer Press of West Virginia Inc., Terra Alta, WV. 83pp.

#### Technical Papers / Working Manuscripts

- Deacy, B. M., Bethea, D. M., Kroetz, A. M., Carlson, J. K., Hendon, J., Lewis, J., Peterson, C., **Grubbs, R. D.**, Davis, M. D., Daly-Engel, T. S. et al. 2017. Shark Nursery Grounds and Essential Fish Habitat Studies. The GULFSPAN survey. The Gulf of Mexico Shark Pupping and Nursery Survey FY-2016. Report to NOAA Fisheries, Highly Migratory Species Division., pp. 69. Panama City, FL: National Marine Fisheries Service Panama City Laboratory
- Bethea D.M., Smith K., Casselberry G.A., Carlson J.K., Hendon, J., **Grubbs R.D.**, Peterson, C., Daly-Engel, T.S., Hueter, R., Morris, J. 2015. Shark nursery grounds and essential fish habitat studies. GULFSPAN Survey-2014. Sustainable Fisheries Division Contribution No.PCB-15/01. Report to NOAA Fisheries, Highly Migratory Species Division.
- Grubbs, RD**, JA Musick. 2014. Occurrence, catch rates, and length frequencies for smooth dogfish (*Mustelus canis*) caught in the VIMS Longline Survey: 1974-2006 SEDAR39-RD05
- Giresi, M.M., W.B. Driggers, **R.D. Grubbs**, J. Gelsleichter, E.R. Hoffmayer. 2014. Seasonal distribution of *Mustelus canis* off the Atlantic coast of the U.S. SEDAR39-DW-28
- Hoffmayer, E.R., W.B. Driggers, **R.D. Grubbs**, M.M. Giresi, J. Gelsleichter, R. Latour. 2014. Length/weight relationships and life history data for *Mustelus canis* off the Atlantic coast of the U.S. SEDAR39-DW-31
- Jones, L.M, Driggers III, W.B., Gelsleichter, J., Giresi, M., **Grubbs, R.D.**, Hannan, K.M., Hoffmayer, E.R., Jones, C.M. 2014. Identification, life History and distribution of *Mustelus canis*, *M. norrisi* and *M. sinusmexicanus* in the northern Gulf of Mexico. SEDAR39-DW-22
- Carlson, J.K., D.M. Bethea, E. Hoffmayer, J. Tyminski, R. Hueter, **R.D. Grubbs**, M.J. Ajemian, G.H. Burgess. 2013. Relative abundance of Atlantic sharpnose and bonnethead sharks from the northeastern Gulf of Mexico. SEDAR34-WP-29
- Giresi, M.M., **R.D. Grubbs**, D.S. Portnoy, J.R. Gold. 2013. A Morphological Key to Distinguish Among Smoothhound Sharks (Genus *Mustelus*) in the Gulf of Mexico. Proceedings of the Gulf and Caribbean Fisheries Institute. Vol. 65. 143-146.
- Bethea D.M., Smith K., Carlson J.K., Ajemian M.J., **Grubbs R.D.**, Imhoff J. 2011. Shark nursery grounds and essential fish habitat studies. GULFSPAN Survey-FY10 Sustainable Fisheries Division Contribution No.PCB-11/01. Report to NOAA Fisheries, Highly Migratory Species Division.
- Romine, J.G., Parsons, K.T., **Grubbs, R.D.**, Musick, J.A., and T.T. Sutton. 2010. Standardized catch rates of sandbar sharks and dusky sharks in the VIMS longline survey: 1975-2009. Sandbar and dusky shark SEDAR Data Workshop Document: SEDAR21-DW-18, 29 pp.
- Bethea D.M., LaPorte L., Carlson J.K., Ajemian M.J., **Grubbs R.D.**, Hoffmayer E.R., Imhoff J., Campbell C.A., Romine J. 2010. Shark nursery grounds and essential fish habitat studies. GULFSPAN Survey-FY09 Sustainable Fisheries Division Contribution No.PCB-10/01. Report to NOAA Fisheries, Highly Migratory Species Division. 62 pp.
- Carlson, J.K., C.T. McCandless, E. Cortés, **R.D. Grubbs**, K.I. Andrews, M. A. MacNeil, and J.A. Musick. 2009. An Update on the Status of the Sand Tiger Shark, *Carcharias taurus*, in the northwest Atlantic Ocean. NOAA Technical Memorandum NMFS-SEFSC-585, 23 p.

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- Bethea, D.M., L. Hollensead, J.K. Carlson, M.J. Ajemian, **R.D. Grubbs**, E.R. Hoffmayer, R. Del Rio, G.W. Peterson, D.M. Baltz and J. Romine. 2009. Shark nursery grounds and essential fish habitat studies. Gulfspan Gulf of Mexico-FY08. Report to NOAA Fisheries, Highly Migratory Species Division. Sustainable Fisheries Division Contribution No. PCB-09/02.
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- Grubbs, R.D.**, J.G. Romine, and J.A. Musick. 2007. Occurrence of small coastal sharks and standardized catch rates of Atlantic sharpnose sharks in the VIMS Longline Survey: 1974-2005. SEDAR 13-DW-19-V2. SouthEast Data, Assessment, and Review 13 - Small Coastal Sharks. 15 pp.
- Grubbs, R.D.**, J.A. Musick, C.L. Conrath, and J.G. Romine. 2005. Long-term movements, migration, and temporal delineation of summer nurseries for juvenile sandbar sharks in the Chesapeake Bay region. LCS05/06-DW-40. SouthEast Data, Assessment, and Review 11 - Large Coastal Sharks. 22 pp.
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- Itano, D.G., K. Holland, L. Dagorn, **D. Grubbs**, and Y. Papastamatiou. 2004. Monitoring movement patterns, residence times and feeding ecology of tuna, billfish and oceanic sharks within a network of anchored FADs. 17<sup>th</sup> Standing Committee on Tuna and Billfish (SCTB). Working Paper BIO-2. Secretariat of the Pacific Community (SPC): Noumea, New Caledonia. 10 pp.
- Holland, K., **D. Grubbs**, B. Graham, D. Itano and L. Dagorn. 2003. The biology of FAD-associated tuna: Temporal dynamics of association and feeding ecology. 16<sup>th</sup> SCTB. Working Paper YFT-7. SPC: Noumea, New Caledonia. 7 pp.
- Grubbs, R.D.** and J.A. Musick. 2002. Shark nurseries of Virginia: spatial and temporal delineation, migratory patterns, and habitat selection; a case study. In: McCandless, C.T., H.L. Pratt, Jr., and N.E. Kohler (eds.) Shark nursery grounds of the Gulf of Mexico and the East Coast waters of the United States: Apex Predators Prog., Highly Migratory Species Office, USDOC, NOAA, NMFS, Narragansett, RI. pp. 25-60.
- Grubbs, R.D.**, K. Holland, and D. Itano. 2002. Comparative trophic ecology of yellowfin and bigeye tuna associated with natural and man-made aggregation sites in Hawaiian waters. 15<sup>th</sup> SCTB. Working Paper YFT-6. SPC: Noumea, New Caledonia. 21 pp.
- Grubbs, R.D.**, K. N. Holland, and D. G. Itano. 2001. Food habits and trophic dynamics of structure-associated aggregations of yellowfin and bigeye tuna (*Thunnus albacares* and *Thunnus obesus*) in the Hawaiian Islands. 14th SCTB. Working Paper YFT-3. SPC: Noumea, New Caledonia. 5 pp.
- Grubbs, R.D.**, D. Chapman, and E. Pikitch. 2000. Preliminary investigation of diversity and abundance of the elasmobranch fauna at Glover's Reef Atoll, Belize. Wildlife Conservation Society. New York.
- Grubbs, R.D.** 1998. Sandbar Shark: Coastal Dynamics and Chesapeake Bay Nursery Investigations. In: VIMS Shark Ecology Program, J.A. Musick, J.J. Gelsleichter, R.D. Grubbs and K.J. Goldman. Appendix SB-IV-13. NOAA/NMFS Sharks Evaluation Workshop, June 1998. Panama City, FL.
- Grubbs, R.D.** 1996. Preliminary recruitment patterns and delineation of nursery grounds for *Carcharhinus plumbeus* in Chesapeake Bay. SB-III-11. NOAA/NMFS Shark Evaluation Workshop, June 2006. Miami.

**IUCN (International Union for the Conservation of Nature) Red List Assessments**

GOM Assessment Team. *In review*. Red List Assessment of Gulf of Mexico Endemic Marine Fishes. Assessment of threat status for 69 species following the 2010 Gulf of Mexico oil spill.



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- Vooren, C.M., Piercy, A.N., Snelson Jr., F.S., **Grubbs, R.D.**, Notarbartolo di Sciara, G. & Serena, S. 2007. Spiny Butterfly Ray, *Gymnura altavela* Linnaeus, 1758. In: IUCN 2007. *2007 IUCN Red List of Threatened Species*. Gland, Switzerland.
- Grubbs, R.D.**, Snelson, F.F., Jr., Piercy, A.N., Rosa, R.S. & Furtado, M. 2006. Southern Stingray, *Dasyatis americana* Hildebrand & Schroeder, 1928. In: IUCN 2006. *2006 IUCN Red List of Threatened Species*, Gland, Switzerland.
- Grubbs, R.D.** & Ha, D.S. 2006. Smooth Butterfly Ray, *Gymnura micrura* Bloch & Schneider, 1801. In: IUCN 2006. *2006 IUCN Red List of Threatened Species*, Gland, Switzerland.
- Piercy, A.N., Snelson, F.F., Jr. & **Grubbs, R.D.** 2006. Yellow Stingray, *Urobatis jamaicensis* Cuvier, 1816. In: IUCN 2006. *2006 IUCN Red List of Threatened Species*, Gland, Switzerland.
- Piercy, A.N., Snelson, F.F., Jr. & **Grubbs, R.D.** 2006. Atlantic Stingray, *Dasyatis sabina* Lesueur, 1824. In: IUCN 2006. *2006 IUCN Red List of Threatened Species*, Gland, Switzerland.
- Rosa, R.S., Castro, A.L.F., Furtado, M., Monzini, J. & **Grubbs, R.D.** 2006. Nurse Shark, *Ginglymostoma cirratum* Bonnaterre, 1788. In: IUCN 2006. *2006 IUCN Red List of Threatened Species*, Gland, Switzerland.
- Snelson, F.F., Jr., Piercy, A.N. & **Grubbs, R.D.** 2006. Bluntnose Stingray, *Dasyatis say* Lesueur, 1817. In: IUCN 2006. *2006 IUCN Red List of Threatened Species*, Gland, Switzerland.
- Grubbs, R.D.**, J.P. Caldas, J.A. Musick. *In review*. Dusky Smooth-hound, *Mustelus canis* Mitchell, 1817
- Musick, J.A., **Grubbs, R.D.**, Baum, J. & Cortés, E. 2009. *Carcharhinus obscurus*. In: IUCN 2009. IUCN Red List of Threatened Species. Version 2009.2.
- Musick, J.A., Stevens, J.D., Baum, J.K., Bradai, M., Clò, S., Fergusson, I., **Grubbs, R.D.**, Soldo, A., Vacchi, M. & Vooren, C.M. 2007. *Carcharhinus plumbeus*. In: IUCN 2009. IUCN Red List of Threatened Species. Version 2009.2.
- Baum, J., Bianchi, I., Domingo, A., Ebert, D.A., **Grubbs, R.D.**, Mancusi, C., Piercy, A., Serena, F. & Snelson, F.F. 2007. *Pteroplatytrygon violacea*. In: IUCN 2009. IUCN Red List of Threatened Species. Version 2009.2.
- Goldman, K.J., **R.D. Grubbs**, J.A. Musick. *2004 assessment, unpublished*. Sandtiger Shark, *Carcharias taurus* Rafinesque, 1810.
- Rosa R., R. Hajenius, R. Graham, **R.D. Grubbs**. *2004 assessment, unpublished*. Lemon Shark, *Negaprion brevirostris* Poey, 1868.
- Simpfendorfer C., J.A. Musick, G. Burgess, **R.D. Grubbs**, D.S. Ha. *2004 assessment, unpublished*. Tiger Shark, *Galeocerdo cuvier* Peron & Lesueur, 1822.
- Bennett M.B., I. Gordon, P.M. Kyne, N. Gaibor, S. Jorgensen, **R.D. Grubbs**. *2004 assessment, unpublished*. Galapagos Shark, *Carcharhinus galapagensis* Snodgrass & Heller, 1905.

## Grants, Fellowships, Scholarships, and Awards

- 2016-2018 NMFS Endangered Species Branch / Northern Gulf Institute – Determination of movement patterns and reproductive status of adult smalltooth sawfish (P.I. R.D. Grubbs). (\$85,641)
- 2016 Save Our Seas Foundation – Special Keystone Grant Program. AES Symposium: Biology and Ecology of Sawfishes \$15,000
- 2016-2018 NOAA – Cooperative Research Program. Post-release survivorship, life history traits and stock characteristics of scalloped and Carolina hammerhead sharks. (P.I. R.D. Grubbs – FSU, J. Gelsleichter – UNF, B. Frazier – SCDNR, D. Portnoy – TAMUCC). \$249,073

- 2016-2018 NOAA Saltonstall-Kennedy Grant Program - Stock structure and life history of the bonnethead, *Sphyrna tiburo*, in U.S. waters. (P.I. B. Frazier - SCDNR, R.D. Grubbs – FSU, J. Geleleichter – UNF, D. Portnoy - TAMUCC) FSU Portion: \$29,412
- 2016-2018 Florida Sea Grant Program. Novel application of galvanic electric fields to reduce shark bycatch in various fisheries. (P.I. R.D. Grubbs – FSU). \$199,969
- 2015-2018 Florida RESTORE Act Center of Excellence Grant Program. Monitoring oil spill effects and recovery in large deep-sea fishes. (P.I. R.D. Grubbs, C.F. Cotton – FSU, J. Gelsleichter – UNF). \$293,960
- 2016-2017 US Department of the Navy, Subcontract as part of a proposal from the University of Florida. Endangered Smalltooth Sawfish Survey in the Vicinity of Naval Air Station Key West. (P.I. G. Burgess, Co-PI: R.D. Grubbs) FSU portion \$37,559
- 2015-2017 NOAA Saltonstall-Kennedy Grant Program. Evaluation of an Electric Decoy for Detering Elasmobranch Bycatch in Longline Fisheries. (P.I. T. Werner – NEAq, R.D. Grubbs – FSU, D. Kerstetter – NOVA) FSU Portion: \$41,071
- 2015-2019 Save Our Seas Foundation – Keystone Grant Program. Habitat Use, Residency and Population Genetics of Endangered Smalltooth Sawfish Off Andros Island, Bahamas. \$99,170
- 2015-2016 American Elasmobranch Society, Symposium Grant for the 2016 Annual Meeting of AES – Ecology of Endangered Sawfishes. (P.I. R.D. Grubbs – FSU, G. Poulakis - FWC) \$2500
- 2014-2016 NOAA – Cooperative Research Program. Genetic monitoring of large coastal sharks using high throughput next-generation sequencing technology. (P.I. D.S. Portnoy and J.R. Gold – TAMU, R.D. Grubbs – FSU). FSU portion: \$12,352
- 2009-2018 NOAA – GULFSPAN (Gulf of Mexico Shark Pupping and Nursery Grounds) Program. (P.I. R.D. Grubbs). \$85,000
- 2015 Rackley Family Foundation. Habitat Use of Endangered Smalltooth Sawfish Off Andros Island, Bahamas \$39,183
- 2013-2014 New England Aquarium – Consortium for Wildlife Bycatch Reduction. Evaluating an Electric Decoy to Reduce Elasmobranch Bycatch in Longline Fisheries (P.I. R.D. Grubbs) \$24,721
- 2012-2016 NMFS Endangered Species Branch / Northern Gulf Institute – Determination of Habitat Use and Movement Patterns by Adult Smalltooth Sawfish in the U.S. (P.I. R.D. Grubbs). \$168,980
- 2012-2015 Gulf of Mexico Research Initiative - Deep-C: Deepsea to Coast Connectivity in the Eastern Gulf of Mexico. (PI: E. Chassignet – FSU, ~50 co-PIs, 10 institutions). Ecology group ~\$2.3M
- 2012 American Elasmobranch Society, Symposium Grant for the 2012 Annual Meeting of AES - Biology of Deep-water Chondrichthyans. (Co-PI C. Cotton, R.D. Grubbs) \$1000
- 2011-2012 Guy Harvey Oceans Foundation – Relative abundance, distribution, and community structure of sharks and large teleosts in the northeaster Gulf of Mexico with reference to the Deepwater Horizon oil spill. (P.I. R.D. Grubbs). \$35,000
- 2010-2011 Florida Institute of Oceanography: BP Rapid Response Oil Spill Research Grants – Assessment of deepwater fish assemblages associated with DeSoto Canyon and continental slope waters in the eastern Gulf of Mexico. (P.I. R.D. Grubbs). \$97,225
- 2010-2013 NOAA – Office of Protected Resources: ESA Section 6 Grant. Smalltooth sawfish research and outreach: an interdisciplinary collaborative program.(P.I. P.W. Stevens – FWC, T. Wiley – TX P&W, G. Burgess – UF, R.D. Grubbs – FSU). FSU portion: \$393,486
- 2010-2012 NOAA – Saltonstall-Kennedy Grant Program. Population structure, gene flow and genetic demography of the blacknose sharks (*Carcharhinus acronotus*) in U.S. waters and genetic marker development for the smoothhound shark (*Mustelus canis*). (P.I. D.S. Portnoy and J.R. Gold – TAMU, R.D. Grubbs – FSU). FSU portion: \$27,947
- 2010-2012 NOAA – Cooperative Research Program. Re-evaluation of reproductive biology and population structure of the blacknose shark *Carcharhinus acronotus* in U.S. waters. (P.I. J. Gelsleichter – UNF, C. Belcher – GDNR, B. Frazier – SCDNR, R.D. Grubbs – FSU, D. Portnoy TAMU) FSU portion: \$13,836.
- 2009-2012 NOAA – Contract. Habitat Use and Seasonal Residency of Juvenile Smalltooth Sawfish in South Florida (P.I. R.D. Grubbs). \$62,688

- 2009-2012 NOAA - Saltonstall-Kennedy Grant Program. Efficacy of Electropositive Metals for By-Catch Reduction in Long Line Fisheries. (P.I. S. Kajiura - FAU, R.D. Grubbs – FSU). FSU portion: \$71,250
- 2010-2011 National Geographic Society: Expeditions Council Grant. Long term movements of adult smalltooth sawfish: population connectivity in a critically endangered species (P.I. R.D. Grubbs). \$14,900
- 2008 FSU Research Foundation Equipment and Infrastructure Enhancement Grant. Zeiss Stereo Microscope with Color Imaging for Users from Multiple Disciplines. (P.I. R.D. Grubbs with 14 Co-PIs from FSU Oceanography, Biological Science, and FSUCML). \$20,502
- 2008 Travel award, invited speaker - Workshop: Shark Predation on Hawaiian Monk Seals. NOAA Fisheries, JIMAR. Honolulu, HI. 11/2008. \$1,700
- 2008 Travel award, invited speaker - Workshop: Shark Deterrent and Incidental Capture. NOAA Fisheries, JIMAR, New England Aquarium. Boston, MA. 04/2008. \$1,000
- 2008 Travel award, invited speaker - Workshop: Shark Predation on Hawaiian Monk Seals. NOAA Fisheries, JIMAR. Honolulu, HI. 01/2008, 10/2008. \$1,800
- 2007-2009 NOAA – Chesapeake Bay Office, Fisheries Science Program. Life history, trophic ecology and prey handling by cownose rays from Chesapeake Bay. (P.I. R.D. Grubbs, R. Fisher) \$203,384
- 2007-2008 Virginia Marine Resources Commission - Virginia Saltwater Recreational Fishing Development Fund RF 07-16 Abundance, Distribution and Biology of Sharks and Rays in Chesapeake Bay and Virginia's Coastal Lagoons: Continuation of a Long-term Monitoring and Research Program. (P.I. R.D. Grubbs, J.A. Musick) - \$89,073
- 2004-2006 Pelagic Fisheries Research Program - Investigation of Aggregation Behavior of FAD-Associated Small Yellowfin Tuna and Size Dependent Vertical Stratification. (P.I.: K. Holland, L. Dagorn, D. Grubbs and D. Itano) - \$303,750
- 2005 Travel award, invited speaker: Seamounts; Ecology, Fisheries & Conservation. Sponsored by Blackwell Science, CenSeam, NSF, OASIS, COML, MARMAC. Horta, Azores - \$3700
- 2004 Travel award, North and Central America Redlist Workshop of the IUCN Shark Specialist Group. Sarasota, Florida - \$1,500
- 2003 Travel award, invited speaker: 16<sup>th</sup> Standing Committee on Tuna and Billfish. Sponsored by the Pelagic Fisheries Research Program. Mooloolaba, Queensland, Australia - \$3100
- 2001- 2003 University of Hawai'i, Hawai'i Institute of Marine Biology - Postdoctoral Fellowship - \$72,000
- 1996-1999 Environmental Protection Agency, Science To Achieve Results (STAR) fellowship - \$87,000
- 1995 William J. Hargis Fellowship - Virginia Institute of Marine Science - \$1,000

## **Student Mentoring and Committee Service**

### **Major Advisor**

- 2017 - present, Jasmin Graham, (MS student, Major Advisor). Florida State Univ., Biological Sciences
- 2016 - present, Brian Keller, (PhD student, Major Advisor). Florida State Univ., Oceanography
- 2015 - present, Mackellar Violich, (MS student, Major Advisor). Florida State Univ., Oceanography
- 2014 - present, Cheston Peterson, (PhD student, Major Advisor). Florida State Univ., Biological Sciences
- 2013 - present, Bianca Prohaska, (PhD student, Major Advisor). Florida State Univ., Biological Sciences
- 2013 - 2016, Brendan Talwar (MS student, Major Advisor). Florida State University, Biological Sciences
- 2013 - 2016, Alejandra Mickle (MS student, Co-advisor). Florida State University, Oceanography
- 2011 - present, Johanna Imhoff, (PhD student, Major Advisor). Florida State University, Biological Sciences
- 2011 - 2014, Travis Richards, (MS student, Co-advisor). Florida State University, Biological Sciences
- 2010 - 2014, Cheston Peterson, (MS student, Major Advisor). Florida State University, Biological Sciences

2009 - 2012, Matt Kolmann (MS student, Major Advisor). Florida State University, Biological Sciences  
2008 - 2012, Lisa Hollensead (MS student, Major Advisor). Florida State University, Biological Sciences

### **Graduate Committee Member**

2017 – present, Andriana Fragola (MS student). University of Miami  
2016 - present, Matthew Ware (PhD student). Florida State University, Oceanography  
2016 - present, Dominic Swift (PhD student). Texas A&M University, Corpus Christi  
2016 - present, Matthew Larsen (MS Student). Coastal Carolina University  
2015 - present, Chris Malinowski (PhD student). Florida State University, Biological Sciences  
2015 - 2017, Christian Gredzens (PhD student). Florida State University, Oceanography  
2015 - 2017, Devin Resko (MS Student). University of Guam, Seagrant Fellow  
2015 - present, Matthew Smukal (PhD student). University of Alaska at Fairbanks  
2014 - present, Amanda Barker (PhD student). Texas A&M University, Corpus Christi  
2014 - 2015, Rebecca Varney (MS student). University of West Florida  
2013 - 2016, Mariah Pflieger (MS student). University of West Florida  
2013 - 2016, Alex Harper (PhD student). Florida State University, Oceanography  
2013, Kristine Stump (PhD student). University of Miami  
2012 - 2015, Arianne Leary (MS student). University of North Florida  
2012 - 2015, Mark Bond (PhD student). Stonybrook University  
2012 - 2013, James Soda (MS student). Florida State University, Scientific Computing  
2011 - present, Zach Boudreau (PhD student). Florida State University, Biological Sciences  
2010 - 2011, Neil Aschliman, (PhD student). Florida State University, Biological Sciences  
2010 - 2013, Kier Smith, (MS student). Florida Atlantic University  
2009 - 2012, Ryan Ford, (MS student). University of North Florida  
2007 - 2008, Joshua Smith (MS student). College of William & Mary, School of Marine Science  
2007 - 2010, Charles Cotton (PhD student). College of William & Mary, School of Marine Science  
2004 - 2008. Mike Edgehouse (PhD student). Utah State University, Department of Biology  
2003 - 2009. Toby Daly-Engel (PhD student). University of Hawaii, Department of Zoology

### **Undergraduate Advisor**

2017 - present, Claudia Gobel, Florida State University – Honors in the Major Program  
2017 – present, Allison Metcalf, Florida State University – Honors in the Major (committee member)  
2016 - 2017, Claudia Gobel, Florida State University – Directed Independent Study  
2015- 2017, Hannah Klein, Florida State University – Directed Independent Study  
2015- 2016, Elizabeth Van Eepoel, Florida State University – Directed Independent Study  
2015, Leonardo Feitosa, Brazil Scientific Mobility Program, Universidade Federal do Maranhão  
2013- 2015, Kathryn Chandler. Florida State University – Directed Independent Study (advisor), Honors in the Major Program (committee member)  
2012 - 2013, Erica Holdridge. Florida State University – Honors in the Major Program  
2012 - Amanda Woolsey. Florida State Univ. Undergraduate Marine Biology Certificate Program  
2010 - 2012, Mariah Pflieger. Florida State University – Honors in the Major Program, Undergraduate Marine Biology Certificate Program, WIMSE, Women in Math, Science & Engineering  
2012, Ryland Taylor. Directed Individual Studies, FSU Biological Sciences

2012, Andrea Wiley. Directed Individual Studies, FSU Environmental Science  
2011 - 2012, Shannon Dunnigan. Directed Individual Studies, FSU Biological Sciences  
2011, Kari Lawrence. Directed Individual Studies, FSU Biological Sciences  
2011, Eric Krivensky. Directed Individual Studies, FSU Biological Sciences  
2009, Amber Ferguson, Florida State Univ. (junior). Undergraduate Marine Biology Certificate Program  
2008, Erin Driscoll, Florida State University (senior). Undergraduate Marine Biology Certificate Program  
2007, Austin Allen, College of William & Mary (junior). Research Experience for Undergrads Program  
2006, Ryan Ford, Florida State University (senior). Undergraduate Marine Biology Certificate Program  
1999, Mike Edgehouse, John Carroll University (senior). NSF - Research Experience for Undergraduates  
1998, Scott Payne, Ocean Lakes Magnet School (senior). Virginia Beach, VA. Science Magnet Program  
1998, Marah Hardt, Harvard University (sophomore). NSF - Research Experience for Undergraduates

### **Professional Advising (Florida Public School Teachers)**

2008, Shannon Romer. PAEC/SCiii Program: Science Collaboration: Immersion, Inquiry, Innovation  
2008, Tiffany Nichols. PAEC/SCiii Program: Science Collaboration: Immersion, Inquiry, Innovation  
2008, Wendy Guilford. PAEC/SCiii Program: Science Collaboration: Immersion, Inquiry, Innovation

### **Teaching Experience**

#### **Graduate Courses**

Tropical Marine Biology - MBE 614 - 3 credits  
University of Miami; Course Site – Broad Key, Florida.  
Primary Instructor: Spring, 2015, 2016, 2017; Summer 2015, 2016, 2017

Tropical Marine Biology - MBF 514/518/542/571 - 3 credits  
University of Miami; Course Site - Bimini Biological Field Station; Bimini, Bahamas  
Primary Instructor: Spring, 1996-2003, 2010-2012; Teaching Assistant: 1991-1993, 1995

Biology of Fishes (4 credits) ZOO4454, ZOO5935 - 4 credits  
Florida State University, Course Site – FSU Coastal and Marine Laboratory  
Instructor: Summer B 2010, 2012, 2013, 2014, 2016

Fisheries Ecology and Conservation - BSC 5936 - 1 credit  
Florida State University, Department of Biological Sciences  
Co-Instructor with Dr. Kevin Craig, Fall 2009

Ichthyology:  
College of William & Mary, School of Marine Science; MS 666 - 5 credits, Gloucester Point, VA  
Guest Lecturer: Spring, 2000 & 2006-2007; (Primary Instructor: Dr. John A. Musick)  
Teaching Assistant (primary laboratory instructor): Spring, 1996-2000  
  
George Mason University; EVPP 536, Alexandria Campus, Virginia  
Guest Lecturer: Fall 2006 (Primary Instructor: Dr. Richard T. Kraus)

Tropical Marine Ecology - MBF 570/520 - 2 credits (a training course for high-school teachers)  
University of Miami; Course Site - Bimini Biological Field Station; Bimini, Bahamas  
Primary Instructor: Spring, 1998-2002

#### **Undergraduate Courses: Florida State University**

##### Primary Instructor

BSC4933-3 Tropical Marine Ecology (3 credits): Course Site – Cape Eleuthera Institute, Bahamas  
Instructor: Summer B 2011

BSC4933-4 Biology of Elasmobranch Fishes (3 credits): Course Site – Bimini Biological Field Station, Bahamas. Instructor: Summer B 2011

BSC4933/ZOO4454 Biology of Fishes (4 credits): Course Site – FSU Coastal and Marine Laboratory  
Instructor: Summer B 2010, 2012, 2013, 2014, 2016

#### Guest Lecturer

Frontiers in Biology (T. Terelbelski).

Research into the ecology of coastal and deepwater sharks and bony fishes. 27 January 2016

Honors in the Major in Marine Biology Course (J. Wulff)

Lecture on conservation biology and research on smalltooth sawfish. 18 Nov 2015

OCE 4930 Marine Megafauna Ecology and Conservation. Instructor (M. Fuentes)

Lecture on Ecology and Conservation of Elasmobranch Fishes – Is it Doom and Gloom? Sept 2015, 2016

OCE4008 Principles of Oceanography. (Instructor: O. Mason) Florida State University.

Lecture on the Biology of sharks and rays and their diversity in Florida April 2014, March 2015, 2016

OCE1001 Introduction to Oceanography. Tallahassee Community College.

Lecture on the Biology of sharks and rays and their diversity in Florida 03 December 2013

Marine Certificate Program (Instructor: F. Coleman). 21 October 2011.

Lecture on the ecology of coastal and deepwater elasmobranch fishes

Marine Biodiversity and Conservation in Florida (Instructor: A.R. Hughes). 25 May 2011.

Lecture on fishery issues that complicate management and conservation of longlived marine animals.

Coastal and Ocean Law (Instructor: D. Christie). 20 October 2009.

Lecture on bycatch issues in pelagic fisheries. Florida State University College of Law

Biology of Fishes (Instructor: C. Koenig). 27 May 2009

Lecture on the reproductive biology of elasmobranch fishes.

Marine Certificate Program (Instructor: F. Coleman). 24 October 2008.

Lecture on research related to coastal and deepwater sharks and rays.

#### **Other Undergraduate Courses**

Biology of Elasmobranch Fishes

Coastal Carolina University; BIO 473; Course Site - Bimini Biological Field Station; Bimini, Bahamas  
Instructor: Fall, 1996, 1997, 1999; Spring, 2000-2017 (Co-instructors: Drs. Samuel Gruber & Dan Abel)

University of New Brunswick at St. John; Course Site - Bimini Biological Field Station; Bimini, Bahamas

Instructor: Fall, 1997 (Co-instructor: Dr. Samuel Gruber)

Nuclear University of Estuarine Conservation and Oceanographic Studies (Lisbon, Portugal);

Course Site - Bimini Biological Field Station; Bimini, Bahamas

Instructor: Fall, 1996 (Co-instructor: Dr. Samuel Gruber)

Tropical Island Marine Biology (CFANS3500)

University of Minnesota; Course Site - Bimini Biological Field Station; Bahamas.

Instructor: Summer 2008-2017 (Co-Instructor: Dr. Peter Sorensen)

Tropical Marine Biology and Ecology

University of Zurich, Switzerland; Course Site - Bimini Biological Field Station; Bahamas

Teaching Assistant: Fall I, Fall II, 1992

#### **Pre-College Courses**

Barrier Island Ecology

Marine Science Consortium; Wallops Island, VA, USA; Instructor/Senior Instructor: 1993, 1994

Experimental Ecology

Marine Science Consortium; Wallops Island, VA, USA; Senior Instructor: Summer I, II - 1993, 1994

Biology of Sharks and Rays

Marine Science Consortium; Wallops Island, VA, USA; Senior Instructor: Summer III, IV - 1993, 1994

Introduction to Biology, Chemistry, and Physics (Middle School)

Miami-Dade Community College - Accelerate Learning Program; Primary Instructor: Summer - 1992

**Popular Courses**

Wildeye – Bimini Shark Encounter: an introduction to shark film-making and conservation biology

Open Enrollment; Course Site - Bimini Biological Field Station; Bimini, Bahamas.

Instructor: 01/2006, 01/2007. (Co-instructors: Dr. S. Gruber, Mr. Piers Warren, Mr. Sune Nightingale)

Shark Biology:

American Littoral Society - Bimini Biological Field Station; Bimini, Bahamas

Instructor: 02/1996, 04/1996, 06/1996 (Co-instructor - Dr. Samuel Gruber)

Open Enrollment - Bimini Biological Field Station; Bimini, Bahamas

Instructor: 09/1996, 04/1997, 04/1998, 11/2002 (Co-instructor - Dr. Samuel Gruber)

History and Ecology of Virginia Barrier Islands – Elderhostel, Marine Science Consortium; Wallops Island,

VA. Instructor: Fall, 1993; Spring, 1994 (Co-instructor - Mark Chlebowski)

**Conference Presentations and Published Abstracts**

Talwar B, JW Mandelman, EJ Brooks, **RD Grubbs**. 2017. Stress, post-release mortality, and recovery of commonly discarded deep-sea sharks caught on longlines. ICES Annual Science Conf; September 2017; Ft. Lauderdale, FL.

**Grubbs, RD**, CF Cotton, J Gelsleichter. 2017. Monitoring Oil Spill Effects and Recovery in Large Deep-Sea Fishes. 147th Annual Meeting of the American Fisheries Society. 20-24 August 2017, Tampa, FL

Gelsleichter, J, **RD Grubbs**, CF Cotton. 2017. Cellular- to Community-Level Effects of the Deepwater Horizon Oil Spill on Deep Demersal Fishes: Six Years Monitoring Recovery in Sharks, Teleosts and Hagfishes. 147th Annual Meeting of the American Fisheries Society. 20-24 August 2017, Tampa, FL

**Grubbs, RD**, J Carlson, A Kroetz, M Bond, B Prohaska, B Keller. 2017. First observation of the birth of wild smalltooth sawfish, *Pristis pectinata*, and the use of varied telemetry approaches to assess sawfish habitat use and residency in Andros, the Bahamas. 33rd Annual Meeting of the American Elasmobranch Society (AES), 12-16 July 2017, Austin, TX

Peterson, CH, **RD Grubbs**. 2017. A Selectivity Comparison of Gillnet and Longline Fishing Gear Composed of a Range of Mesh and Hook Sizes Using Data from Coastal Shark Survey. 33rd Annual Meeting of the American Elasmobranch Society (AES), 12-16 July 2017, Austin, TX

Cotton, CF, **RD Grubbs**, B Keller, A Heil, A Mathers, S Rolfe. 2017. Comparing life histories of sympatric deep-water dogfishes (*Squalus cubensis* and *S. cf. mitsukurii*) from the northern Gulf of Mexico. 33rd Annual Meeting of the American Elasmobranch Society (AES), 12-16 July 2017, Austin, TX

Imhoff, J, **RD Grubbs**. 2017. Trophic Relationships and Mercury Contamination of Deep Sea Sharks in the Gulf of Mexico. 33rd Annual Meeting of the American Elasmobranch Society (AES), 12-16 July 2017, Austin, TX

McClain, M, A Gallagher, N Hammerschlag, M Drymon, **RD Grubbs**, T Guttridge, T Daly-Engel. 2017. Connectivity and Relatedness in Tiger Sharks between the Gulf of Mexico and the West Atlantic. 33rd Annual Meeting of the American Elasmobranch Society (AES), 12-16 July 2017, Austin, TX

Prohaska, B, **RD Grubbs**. 2017. Stress Physiology of Deep Demersal Sharks in the Gulf of Mexico. 33rd Annual Meeting of the American Elasmobranch Society (AES), 12-16 July 2017, Austin, TX

Minnig, B, J Gelsleichter, **RD Grubbs**. 2017. Plasma 8-hydroxy-2'-deoxyguanosine as a Biomarker of PAH Exposure in Gulper Sharks, *Centrophorus granulosus*, Exposed to the Deepwater Horizon Oil Spill. 33rd Annual Meeting of the American Elasmobranch Society (AES), 12-16 July 2017, Austin, TX

Cotton, CF, **RD Grubbs**, J Gelsleichter. 2017. Determining Life History Parameters of Deepwater Sharks: Can We Detect Organismal-Level Effects of Hydrocarbon Exposure from Deepwater Horizon Oil? Gulf of Mexico Oil Spill & Ecosystem Science Conference. 3-9 February 2017, New Orleans, LA

- Grubbs, RD**, C Cottom, J Gelsleichter. 2017. Community and population level effects of the DWH oil spill on deep demersal fishes: Six years monitoring recovery in sharks, teleosts and hagfishes. Gulf of Mexico Oil Spill & Ecosystem Science Conference. 3-9 February 2017, New Orleans, LA
- Gelsleichter, J, **RD Grubbs**, A Leary, M Heithaus, C Cotton. 2017. PAH biomarker levels in deepwater sharks impacted by the Deepwater Horizon Oil Spill from 2011-2016: Evidence of recovery? Gulf of Mexico Oil Spill & Ecosystem Science Conference. 3-9 February 2017, New Orleans, LA
- Grubbs, RD. 2016.** Keynote presentation: Trophic Cascades and Cownose Ray Scapegoats: Save the Bay - Eat a Ray and the Effects of Confirmation Bias on Elasmobranch Conservation. 20<sup>th</sup> Annual Meeting of the European Elasmobranch Association. Bristol, United Kingdom, 28-30 October 2016.
- Grubbs, RD. 2016.** AES Plenary Speaker: Conservation biology of sawfishes: Is there hope for the most imperiled elasmobranchs? 2016 Joint Meeting of Ichthyologists and Herpetologists, 32<sup>nd</sup> Annual Meeting of the American Elasmobranch Society (AES), 6-10 July 2016, New Orleans, LA.
- Abel, D, **D Grubbs**, B Keller, J Simcox, A Dowlin, M Novak. 2016. Do Osmoregulatory Adaptations of Deep-Sea Sharks Represent a Paradigm Shift? Evidence from Rectal Glands of *Hexanchus nakamurai* and Other Species. 32<sup>nd</sup> Annual Meeting of the American Elasmobranch Society (AES), 6-10 July 2016, New Orleans, LA.
- Bethea, D, J Carlson, **RD Grubbs**, G Poulakis. 2016 Growth Rates of Smalltooth Sawfish, *Pristis pectinata*, Using Length frequency and Tag-recapture Data. 32<sup>nd</sup> Annual Meeting of the American Elasmobranch Society (AES), 6-10 July 2016, New Orleans, LA.
- Brooks, A. K Vaccaro, **D Grubbs**, T Daly-Engel. 2016. Polyandry and Multiple Paternity in the Gulf Spurdog Shark, *Squalus cf. mitsukurii*. 32<sup>nd</sup> Annual Meeting of the American Elasmobranch Society (AES), 6-10 July 2016, New Orleans, LA.
- Gelsleichter, J, RD Grubbs, J Carlson. 2016. Updated information on the reproductive biology of the smalltooth sawfish *Pristis pectinata*. 32<sup>nd</sup> Annual Meeting of the American Elasmobranch Society (AES), 6-10 July 2016, New Orleans, LA.
- Grubbs, RD**, J Carlson, M Bond, B Prohaska, J Imhoff. 2016. Smalltooth Sawfish in Florida and the Bahamas – National Parks as Potential “Lifeboats” for Recovery. 32<sup>nd</sup> Annual Meeting of the American Elasmobranch Society (AES), 6-10 July 2016, New Orleans, LA.
- Hollensead, L, D Grubbs, J Carlson, D Bethea. 2016. Assessing Residence Time and Habitat Use of Juvenile *Pristis pectinata* Using Acoustic Monitoring in a Nursery. 32<sup>nd</sup> Annual Meeting of the American Elasmobranch Society (AES), 6-10 July 2016, New Orleans, LA.
- Imhoff, J, RD Grubbs. 2016. Comparative Mercury Contamination in Demersal Deep Sea Sharks in the Gulf of Mexico. 32<sup>nd</sup> Annual Meeting of the American Elasmobranch Society (AES), 6-10 July 2016, New Orleans, LA.
- Keller, B, C Cotton, D Grubbs. 2016. Reproductive biology and embryonic development in two common deep-water dogfishes (*Squalus cubensis* and *S. cf. mitsukurii*) from the northern Gulf of Mexico. 32<sup>nd</sup> Annual Meeting of the American Elasmobranch Society (AES), 6-10 July 2016, New Orleans, LA.
- Kolmann, M, S Shah, H Patel, D Grubbs, N Lovejoy. 2016. Ecological consequences of alternative muscle scaling in durophagous stingrays. 32<sup>nd</sup> Annual Meeting of the American Elasmobranch Society (AES), 6-10 July 2016, New Orleans, LA.
- Mickle, A, D Grubbs, J Chanton. 2016. Feeding Ecology and Mercury Bioaccumulation in Gulf of Mexico Myxinids. 96<sup>th</sup> Annual Meeting of the American Society of Ichthyologists and Herpetologists (ASIH). 6-10 July 2016, New Orleans, LA.
- Peterson, C, E Holdridge, D Grubbs. 2016. Trophic ecology of two species of ariid catfishes: gut contents, stable isotope analysis, and comparisons with small coastal sharks. 96<sup>th</sup> Annual Meeting of the American Society of Ichthyologists and Herpetologists (ASIH). 6-10 July 2016, New Orleans, LA.
- Prohaska, B, RD Grubbs, D Bethea, G Poulakis, R Scharer. 2016. Physiological Ecology of Smalltooth Sawfish (*Pristis pectinata*) in Florida Waters. 32<sup>nd</sup> Annual Meeting of the American Elasmobranch Society (AES), 6-10 July 2016, New Orleans, LA.
- Grubbs, R.D. 2016. Keynote: Using state of the art telemetry to study very large elasmobranch fishes: endangered sawfish and deep sea sharks. Ecological and 20<sup>th</sup> Biennial Evolutionary Ethology of Fishes Meeting. 14-16 June 2016. Tallahassee, FL.



- Abel, DC, S Parker, D Sage, A Dowlin, J Simcox, M Novak, **RD Grubbs**. 2016. Osmoregulation in Sharks Revisited: I. Rectal Gland Masses of Estuarine, Nearshore, and Deep Sea Sharks. Southeastern Estuarine Research Society, Spring Meeting, 10-12 March 2016, Bluffton, SC.
- Grubbs, RD**. 2016. Invited Keynote: Assessing the effects of the DwH oil spill on large fishes as functions of habitat, trophic ecology and life histories. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Tampa, FL. 1 -4 February 2016
- Guttridge, TL, BR Franks, J Carlson, SH Gruber, KS Gledhill, **RD Grubbs**. 2015. Occurrence and habitat use of the Critically Endangered smalltooth sawfish (*Pristis pectinata*) Latham, 1794 in the Bahamas 68th Annual Meeting of the Gulf and Caribbean Fisheries Institute. Panamá City, Panamá. 9-13 November 2015
- Grubbs, R.D.** 2015. Historical concern over shellfish predation by cownose rays, update on cownose ray feeding biomechanics. Workshop on Cownose Rays in the Chesapeake Bay: What do we know? 22 October 2015. National Aquarium, Baltimore, MD
- Grubbs, R.D.** 2015. Cownose ray population changes: Do the reports match the biology? Workshop on Cownose Rays in the Chesapeake Bay: What do we know? 22 October 2015. National Aquarium, Baltimore, MD
- Guttridge, TL, BR Franks, J Carlson, SH Gruber, KS Gledhill, **RD Grubbs**. 2015. Sightings, captures and preliminary movement tracks of the critically endangered smalltooth sawfish (*Pristis pectinata*) Latham, 1794 in the Bahamas. 2015 Annual Symposium of the Fisheries Society of the British Isles 27-30 July 2015, University of Plymouth, UK.
- Churchill, DA, MR Heithaus, **RD Grubbs**. 2015. Estimating the trophic position of deep-water sharks and associated species using compound-specific nitrogen isotope analysis of amino acids. 31st Annual Meeting of the American Elasmobranch Society (AES), 15-20 July 2015, Reno, NV
- Daly-Engel, TS, **RD Grubbs**, R Varney, E Pereira, S Larson. 2015. Strange Things Happen When You Turn Back the Molecular Clock: Evolution and Speciation in Sixgill Sharks (Genus *Hexanchus*). 31st Annual Meeting of the American Elasmobranch Society (AES), 15-20 July 2015, Reno, NV.
- Imhoff, J, **RD Grubbs**. 2015 Methylmercury Contamination in Six Species of Deepwater Sharks in the Northeastern Gulf of Mexico. 31st Annual Meeting of the American Elasmobranch Society (AES), 15-20 July 2015, Reno, NV.
- Mickle, A, **RD Grubbs**, JP Chanton. 2015. Trophic Structure, Feeding Ecology and Bioaccumulation of Hg in Gulf of Mexico Hagfishes. 95th annual meeting of the American Society of Ichthyologists and Herpetologists (ASIH), 15-20 July 2015, Reno, NV.
- Peterson, C, **RD Grubbs**. 2015. Investigating trophic relationships between sharksuckers (*Echeneis naucrates*) and their elasmobranch hosts using stable isotope analysis. 31st Annual Meeting of the American Elasmobranch Society (AES), 15-20 July 2015, Reno, NV.
- Pfleger, MO, **RD Grubbs**, TS Daly-Engel. 2015. The Dogfish Formerly Known as *Squalus mitsukurii*: a New Deep-water Shark Species from the Gulf of Mexico. 31st Annual Meeting of the American Elasmobranch Society (AES), 15-20 July 2015, Reno, NV.
- Prohaska, B, **RD Grubbs**. 2015. Stress Physiology of Deep Demersal Sharks in the Gulf of Mexico. 31st Annual Meeting of the American Elasmobranch Society (AES), 15-20 July 2015, Reno, NV.
- Talwar, B, E Brooks, A Gokgoz, J Mandelman, **RD Grubbs**. 2015. Stress Physiology and Post-release Survivorship of Cuban Dogfish and Gulper Sharks Caught on Longlines. 31st Annual Meeting of the American Elasmobranch Society (AES), 15-20 July 2015, Reno, NV.
- Vaccaro, K, R Varney, **RD Grubbs**, T Daly-Engel. 2015. Microsatellite applications for multiple paternity in *Squalus clarkae*, a novel shark species from the Gulf of Mexico. 31st Annual Meeting of the American Elasmobranch Society (AES), 15-20 July 2015, Reno, NV.
- Varney, R, **RD Grubbs**, K Feldheim, T Daly-Engel. 2015. A novel panel of microsatellite loci for the Gulf of Mexico hagfish, *Eptatretus springeri*. 95th annual meeting of the American Society of Ichthyologists and Herpetologists (ASIH), 15-20 July 2015, Reno, NV.
- Whalen, J, J Gelsleichter, **RD Grubbs**. 2015. Using DNA adducts to examine polycyclic aromatic hydrocarbon exposure in shark populations affected by the Deepwater Horizon oil spill. 31st Annual Meeting of the American Elasmobranch Society (AES), 15-20 July 2015, Reno, NV.
- Whalen, JC, J Gelsleichter, **RD Grubbs**. 2015. Using DNA adducts to examine polycyclic aromatic hydrocarbon exposure in shark and bony fish populations impacted by the Deepwater Horizon oil spill. Gulf of Mexico Oil Spill & Ecosystem Science Conference. 16-19 February 2015, Houston, TX.

- Mickle, A, **RD Grubbs**, JP Chanton. 2015 Trophic Structure, Feeding Ecology and Bioaccumulation Of Hg In GoM Hagfishes. Gulf of Mexico Oil Spill & Ecosystem Science Conference. 16-19 February 2015, Houston, TX.
- Leary, A, J Gelsleichter, **RD Grubbs**. 2015. Polycyclic Aromatic Hydrocarbon Biomarkers in Deep Sea Fishes and Sharks in Association with the Deepwater Horizon Oil Spill Occurrence. Symposium: Monitoring status and trends of long-lived marine vertebrates as a measurable indicator of restoration and long-term health of the Gulf of Mexico ecosystem. 16 February 2015, Houston, TX
- Gelsleichter, J, A Leary, **RD Grubbs**, M Heithaus, JM Drymon, D Kerstetter, RE Hueter. 2015. Effects of the Deepwater Horizon Oil Spill on Gulf Fish Populations: What Have We Learned? Symposium: Monitoring status and trends of long-lived marine vertebrates as a measurable indicator of restoration and long-term health of the Gulf of Mexico ecosystem. 16 February 2015, Houston, TX
- Grubbs, RD**, CF Cotton, A Mickle, R Varney, T Daly-Engel. 2015. New data for three species of hagfishes (Myxinidae) from the northern Gulf of Mexico. Gulf of Mexico Oil Spill & Ecosystem Science Conference. 16-19 February 2015, Houston, TX.
- Rolfe, SC, CF Cotton, **RD Grubbs**, A Heil. 2015. Life History Characteristics Of Two Common Deep-Water Dogfishes (*Squalus cubensis* and *S. cf. mitsukurii*) From The Northern Gulf of Mexico. Gulf of Mexico Oil Spill & Ecosystem Science Conference. 16-19 February 2015, Houston, TX.
- Grubbs, RD**. 2014. Invited presentation: The Deep-C Consortium: effects of the Deepwater Horizon oil spill on deep sea fishes. Guy Harvey Fisheries Symposium. 14 November 2014, St. Petersburg, FL
- Grubbs, RD**. 2014. Invited presentation: Research addressing bycatch and post-release mortality of elasmobranchs in Gulf of Mexico fisheries. Guy Harvey Fisheries Symposium. 13 November 2014, St. Petersburg, FL.
- Mickle, A, **RD Grubbs** and JP Chanton 2014. Trophic structure, feeding ecology and Hg bioaccumulation in Gulf of Mexico hagfishes. Deep-C Student Research Symposium, 18-19 September 2014, Tallahassee, FL.
- Rolfe, S, CF Cotton, A Heil, **RD Grubbs**. 2014. Life history characteristics of two sympatric deep-water dogfishes (*Squalus cubensis* and *S. cf. mitsukurii*) from the northern Gulf of Mexico. Deep-C All hands Meeting, 18-19 September 2014, Tallahassee, FL
- Bethea, D, M Ajemian, J Carlson, E Hoffmayer, J Imhoff, **RD Grubbs**, C Peterson, G Burgess, George. 2014. Distribution and Community Structure of Coastal Sharks in the Northeastern Gulf of Mexico. 30th Annual Meeting of the American Elasmobranch Society (AES), 30 July-03 August 2014, Chattanooga, TN.
- Cotton, C, S Rolfe, A Heil, **RD Grubbs**. 2014. Life history characteristics of two common deep-water dogfishes (*Squalus cubensis* and *S. cf. mitsukurii*) from the northern Gulf of Mexico. 30th Annual Meeting of the American Elasmobranch Society (AES), 30 July-03 August 2014, Chattanooga, TN.
- Daly-Engel, T, **RD Grubbs**, S Larson. 2014. Phylogeography Across the Global Range of an Ancient Deep-water Predator: the Bluntnose Sixgill Shark (*Hexanchus griseus*). 30th Annual Meeting of the American Elasmobranch Society (AES), 30 July-03 August 2014, Chattanooga, TN.
- Gelsleichter, J, **RD Grubbs**, G Poulakis, J Carlson, B Anderson, S Gulak. 2014. Hermaphroditism and Other Aspects of Reproduction in the Endangered Smalltooth Sawfish (*Pristis pectinata*). 30th Annual Meeting of the American Elasmobranch Society (AES), 30 July-03 August 2014, Chattanooga, TN.
- Giresi, M, D Portnoy, **RD Grubbs**, G Skomal, C McCandless, B Frazier, W Driggers III, M Renshaw, J Gold. 2014. Genetic Population Structure of the Dusky Smoothhound Shark, *Mustelus canis*, in U.S. Waters. 30th Annual Meeting of the American Elasmobranch Society (AES), 30 July-03 August 2014, Chattanooga, TN.
- Grubbs, RD**, C Cotton, T Daly-Engel, D Kerstetter. 2014. Post-release Survival and Vertical Movements of Bluntnose Sixgill Sharks (*Hexanchus griseus*) in Four Oceanic Regions. 30th Annual Meeting of the American Elasmobranch Society (AES), 30 July-03 August 2014, Chattanooga, TN.
- Guttridge, T, S Kessel, D Chapman, L Howey-Jordan, M Bond, J-S Finger, R Bullock, J Brooks, R Cashman, D Flanagan, **RD Grubbs**, S Gruber. 2014. Movement Patterns and Habitat Use of the Great Hammerhead Shark, *Sphyrna mokarran* in Bimini, Bahamas and Florida, USA. 30th Annual Meeting of the American Elasmobranch Society (AES), 30 July-03 August 2014, Chattanooga, TN.
- Imhoff, J, A Mickle, C Peterson, **RD Grubbs**. 2014. The Effects Of Sample Processing Methods On Light Stable Isotope And Mercury Analyses Of Fish Muscle. 30th Annual Meeting of the American Elasmobranch Society (AES), 30 July-03 August 2014, Chattanooga, TN.

- Leary, A, J Gelsleichter, **RD Grubbs**. 2014. Oil Related Biomarkers in *Centrophorus* and *Squalus* Species in the years following the Deepwater Horizon Oil Spill. 30th Annual Meeting of the American Elasmobranch Society (AES), 30 July-03 August 2014, Chattanooga, TN.
- Leary, A, J Gelsleichter, **RD Grubbs**. 2014. The Deepwater Horizon Oil Spill Impacts on Deep Sea Gulf Fishes. 30th Annual Meeting of the American Elasmobranch Society (AES), 30 July-03 August 2014, Chattanooga, TN.
- Mickle, A, **RD Grubbs**, JP Chanton. 2014. Trophic Structure, Feeding Ecology and Bioaccumulation of Mercury (Hg) on Deep Sea Hagfish: An Elemental Analysis Approach. 94th annual meeting of the American Society of Ichthyologists and Herpetologists (ASIH), 30 July-03 August 2014, Chattanooga, TN.
- Peterson, C, **RD Grubbs**. 2014. Community Structure and Stable Isotope Ecology of Sharks and Large Teleost Fishes in the Florida Big Bend. 30th Annual Meeting of the American Elasmobranch Society (AES), 30 July-03 August 2014, Chattanooga, TN.
- Pfleger, MO, **RD Grubbs**, TS Daly-Engel. 2014. DNA Barcoding in the Genus *Squalus* Reveals a Novel Dogfish Species from the Gulf of Mexico. 30th Annual Meeting of the American Elasmobranch Society (AES), 30 July-03 August 2014, Chattanooga, TN.
- Portnoy, D, C Hollenbeck, CN Belcher, WB Driggers III, BS Frasier, J Gelsleichter, **RD Grubbs**, J Gold. 2014. Historical Genetic Demography and Stock Structure of the Blacknose Shark, *Carcharhinus acronotus*, in the western North Atlantic. 30th Annual Meeting of the American Elasmobranch Society (AES), 30 July-03 August 2014, Chattanooga, TN.
- Varney, R, T Daly-Engel, **RD Grubbs**. 2014. Preliminary Analysis of Genetic Variation in Three Species of Gulf of Mexico Hagfishes. 94th annual meeting of the American Society of Ichthyologists and Herpetologists (ASIH), 30 July-03 August 2014, Chattanooga, TN.
- Grubbs, RD**. 2014. Endangered sawfish and deep-sea sixgills: using modern telemetry to study very large elasmobranch fishes. 5th Iberian Congress of Ichthyology –Plenary Speaker. 24-27 June 2014. Lisbon, Portugal
- Leary, A, J Gelsleichter, **RD Grubbs**. 2014. Polycyclic Aromatic Hydrocarbon Biomarkers in Gulf of Mexico Sharks following the Deepwater Horizon Oil Spill. Ocean Sciences Meeting. 23-28 February 2014, Honolulu, HI.
- Imhoff, JL, A Mickle, CT Peterson, **RD Grubbs**. 2014 The effects of sample processing methods on light stable isotope and mercury analyses of fish muscle. Gulf of Mexico Oil Spill & Ecosystem Science Conference. 26-29 January 2014, Mobile, AL.
- Leary, A, J Gelsleichter, **RD Grubbs**. 2014. Polycyclic Aromatic Hydrocarbon Biomarkers in Gulf of Mexico Fishes in the years following the Deepwater Horizon Oil Spill. Gulf of Mexico Oil Spill & Ecosystem Science Conference. 26-29 January 2014, Mobile, AL.
- Grubbs, RD**, C Cotton, F Coleman, C Koenig J Gelsleichter,. 2013. The Inaugural Expedition of the R/V Apalachee Research exploring the ecological effects of the Deepwater Horizon oil spill leads to the first capture of a Greenland Shark in the Gulf of Mexico. Deep-C Consortium “All Hands” Meeting. 10-11 September 2013, Tallahassee, FL.
- Grubbs, RD**, R Fisher, JK Carlson. 2013. A review of the life history of the cownose ray, *Rhinoptera bonasus*: Is a directed fishery sustainable? 28th Annual Meeting of the American Elasmobranch Society (AES), 10-15 July 2013. Albuquerque, NM.
- Churchill, D, MR Heithaus, **RD Grubbs**. 2013. Trophic variation within and among hagfish species, a numerically dominant scavenger in the Gulf of Mexico. 28th Annual Meeting of the American Elasmobranch Society (AES), 10-15 July 2013. Albuquerque, NM.
- Daly-Engel, TS, **RD Grubbs**. 2013. Aloha Dogfish: Description of a New Shark Species from Hawaii. 28th Annual Meeting of the American Elasmobranch Society (AES), 10-15 July 2013. Albuquerque, NM.
- Giresi, M, **RD Grubbs**, D Portnoy, J Gold. 2013. Morphologically conserved, genetically diverged; A key to distinguish among smoothhound sharks in the U.S. Atlantic. 28th Annual Meeting of the American Elasmobranch Society (AES), 10-15 July 2013. Albuquerque, NM.
- Hollensead, L, **RD Grubbs**, JK Carlson, D Bethea. 2013. Analysis of small scale and daily movement patterns of juvenile *Pristis pectinata* within a nursery habitat. 28th Annual Meeting of the American Elasmobranch Society (AES), 10-15 July 2013. Albuquerque, NM.
- Imhoff, J, **RD Grubbs**. 2013. Mercury Contamination in Sandbar Shark Muscle: A Thirty Year Comparison. 28th Annual Meeting of the American Elasmobranch Society (AES), 10-15 July 2013. Albuquerque, NM.

- Kolmann, M, D Huber, M Dean, **RD Grubbs**. 2013. Ecomorphology of Durophagy in Myliobatiform Rays - Muscle Anatomy and Feeding Performance. 28th Annual Meeting of the American Elasmobranch Society (AES), 10-15 July 2013. Albuquerque, NM.
- Leary, A, J Gelsleichter, **D Grubbs**. 2013. Polycyclic Aromatic Hydrocarbon Biomarker Exposure in Elasmobranchs after the Deepwater Horizon Oil Spill: Investigations on the Smooth Dogfish, *Mustelus canis*. 28th Annual Meeting of the American Elasmobranch Society (AES), 10-15 July 2013. Albuquerque, NM.
- Peterson, C, **RD Grubbs**. 2013. Sharks and Large Teleosts of Florida's Big Bend: Abundance, Distribution, and Community Structure. 28th Annual Meeting of the American Elasmobranch Society (AES), 10-15 July 2013. Albuquerque, NM.
- Pfleger, MO, **RD Grubbs**, TS Daly-Engel. 2013. Dogfish Shark Speciation in the Gulf of Mexico. 28th Annual Meeting of the American Elasmobranch Society (AES), 10-15 July 2013. Albuquerque, NM.
- Poulakis, G, J Olin, P Stevens, J DeAngelo, A Timmers, **RD Grubbs**, A Fisk. 2013. Use of Stable Isotopes to Infer Feeding Habits and Ontogenetic Diet Shifts by the Endangered Smalltooth Sawfish (*Pristis pectinata*), in Florida. 28th Annual Meeting of the American Elasmobranch Society (AES), 10-15 July 2013. Albuquerque, NM.
- Grubbs, RD**, JK Carlson. 2013. Movements and habitat use of smalltooth sawfish in Florida and the Bahamas: an investigation of population connectivity in a critically endangered species. Bahamas National Natural History Conference. 5-8 March 2013, Nassau, The Bahamas
- Grubbs, RD**, Brooks, EJ, AM Brooks, S Williams, LKB Jordan, D Abercrombie, DD Chapman, LA Howey-Jordan. 2013. The diversity and distribution of deepwater Elasmobranchs in the northeast Exuma Sound, The Bahamas, with notes on the movements of bluntnose sixgill sharks. Bahamas National Natural History Conference. 5-8 March 2013, Nassau, The Bahamas
- Grubbs, RD**, F Coleman, C Koenig, J Gelsleichter, C Cotton, M Heithaus. 2013. Community Structure of Deep Demersal Fishes from Desoto Canyon and Adjacent Habitats of the Eastern Gulf Of Mexico After Deepwater Horizon. Gulf of Mexico Oil Spill & Ecosystem Science Conference. 20-23 January 2013, New Orleans, LA.
- Gelsleichter, J, A Leary, **RD Grubbs**, M Heithaus. 2013. Effects of the Deepwater Horizon Oil Spill on deepwater fish populations from the northeast Gulf of Mexico. Gulf of Mexico Oil Spill & Ecosystem Science Conference. 20-23 January 2013, New Orleans, LA.
- Grubbs, RD**, C Peterson, J Gelsleichter. 2012. Invited presentation: Relative abundance, distribution, and community structure of sharks and large teleosts in the northeastern Gulf of Mexico with reference to the Deepwater Horizon oil spill. Gulf Fisheries Symposium. 14-15 September 2012, St. Petersburg, FL.
- Grubbs, RD**, M Heithaus, D Churchill, J Gelsleichter, F Coleman, C Koenig. 2012. Invited presentation: Movements and trophic ecology of deepwater sharks associated with DeSoto Canyon and the adjacent continental slope.. Gulf Fisheries Symposium. 14-15 September 2012, St. Petersburg, FL
- Grubbs, RD**, J Gelsleichter, M Heithaus, F Coleman, C Koenig. 2012. Demersal fish assemblages associated with DeSoto Canyon and the adjacent continental slope. Deep-C Consortium "All Hands" Meeting. 21-22 August 2012, Tallahassee, FL.
- Gelsleichter, J, **D Grubbs**, M Heithaus, A Leary, A Piercy. 2012. Effects of the Deepwater Horizon Oil Spill on deepwater shark populations from the northeast Gulf of Mexico. Deep-C Consortium "All Hands" Meeting. 21-22 August 2012, Tallahassee, FL.
- Brooks, E, A Brooks, S Williams, D Chapman, L Howey-Jordan, L Jordan, D Abercrombie, **D Grubbs**. 2012. The diversity, distribution and demographic population structure of deep water elasmobranchs in the northeast Exuma Sound, the Bahamas. 28th Annual Meeting of the American Elasmobranch Society (AES), 8-13 August 2012. Vancouver, BC.
- Churchill, D, M Heithaus, **D Grubbs**, J Vaudo. 2012. Effects of the Deepwater Horizon Spill on the trophic interactions of deep-sea sharks and associated species of the Gulf of Mexico. 28th Annual Meeting of the American Elasmobranch Society (AES), 8-13 August 2012. Vancouver, BC.
- Cotton, C, **D Grubbs**. 2012. Biology of Deep-water Chondrichthyans: Introduction 28th Annual Meeting of the American Elasmobranch Society (AES), 8-13 August 2012. Vancouver, BC.
- Cotton, C, **D Grubbs**, J Musick. 2012. Reproduction and embryonic development in two species of North Atlantic squaliform sharks, *Centrophorus cf. niukang* and *Etmopterus princeps*: evidence of matrotrophy? 28th Annual Meeting of the American Elasmobranch Society (AES), 8-13 August 2012. Vancouver, BC.

- Ford, R, J Gelsleichter, B Frazier, C Belcher, A Piercy, **RD Grubbs**. 2012. Reproductive Periodicity of the Blacknose Shark (*Carcharhinus acronotus*) within its Atlantic Range. 28th Annual Meeting of the American Elasmobranch Society (AES), 8-13 August 2012. Vancouver, BC.
- Gelsleichter, J, **D Grubbs**, M Heithaus, A Leary, A Piercy. 2012. Effects of the Deepwater Horizon Oil Spill on deepwater shark populations from the northeast Gulf of Mexico. 28th Annual Meeting of the American Elasmobranch Society (AES), 8-13 August 2012. Vancouver, BC.
- Grubbs, D**, J Gelsleichter, M Heithaus, K Gastrich, C Cotton. 2012. Demersal Elasmobranch Assemblages associated with Desoto Canyon and the Continental Slope of the Eastern Gulf of Mexico relative to the Deepwater Horizon Oil Spill. 28th Annual Meeting of the American Elasmobranch Society (AES), 8-13 August 2012. Vancouver, BC.
- Hollensead, L, J Carlson, D Bethea, **RD Grubbs**. 2012. Monitoring movement patterns of juvenile smalltooth sawfish (*Pristis pectinata*) using acoustic monitoring and tracking in a nursery habitat in southwest Florida. 28th Annual Meeting of the American Elasmobranch Society (AES), 8-13 August 2012. Vancouver, BC.
- Kolmann, M, D Huber, M Dean, **D Grubbs**. 2012. Feeding performance in a durophagous stingray. 28th Annual Meeting of the American Elasmobranch Society (AES), 8-13 August 2012. Vancouver, BC.
- Peterson, C, **D Grubbs**. 2012. Investigating the trophic ecology of sharks and teleost fishes in the Florida Big Bend using stable isotope analysis. 28th Annual Meeting of the American Elasmobranch Society (AES), 8-13 August 2012. Vancouver, BC.
- Grubbs, RD**. 2012. Vertical movements, residency and post-release survival of Bluntnose Sixgill Sharks (*Hexanchus griseus*) in the central Pacific and western north Atlantic. Cowshark Conservation Workshop V. 29 April 2012, Seattle, WA.
- Grubbs, RD**, J Gelsleichter, M Heithaus, K Gastrich, C Cotton. 2012. Demersal fish assemblages associated with Desoto Canyon and the continental slope of the eastern Gulf of Mexico relative to the Deepwater Horizon oil spill. 2012 Ocean Sciences Meeting. 20-24 February 2012, Salt Lake City, UT
- Brooks, E, A Brooks, S Williams, D Chapman, L Howey-Jordan, L Jordan, D Abercrombie, **D Grubbs**. 2012. The diversity, distribution and demographic population structure of deep water elasmobranchs in the northeast Exuma Sound, The Bahamas. 2012 Ocean Sciences Meeting. 20-24 February 2012, Salt Lake City, UT
- Ford, RM, J Gelsleichter, B Frazier, C Belcher, A Piercy, **RD Grubbs**. 2012. Preliminary Analysis of Reproductive Periodicity of the Blacknose Shark (*Carcharhinus acronotus*) within its Atlantic Range. Southern Division of the American Fisheries Society, Spring Meeting. 26-29 January 2012, Biloxi, MS.
- Gelsleichter, J, A Leary, H Drakos, M Davis, M Gonzalez de Acevedo, M McCallister, R Ford, M Heithaus, **RD Grubbs**. 2012. Effects of the Deepwater Horizon Oil Spill on Deepwater Fish Populations from the Northeast Gulf of Mexico. Southern Division of the American Fisheries Society, Spring Meeting. 26-29 January 2012, Biloxi, MS.
- Grubbs, RD**, JK Carlson, JG Romine, T Curtis, D McElroy, CT McCandless, JA Musick. 2011. Save the Bay, Eat a Ray: A Purported Trophic Cascade Mediated by Declines In Large Shark Populations and the Consequences of Applying Simplistic Models to Complex Ecosystems, The Florida State University and Mote Marine Laboratory 8th William R. & Lenore Mote Symposium; Species Interactions in Marine Communities: The Invisible Fabric of Nature. 8-10 November 2011, Sarasota, FL.
- Grubbs, RD**, JK Carlson, JG Romine, T Curtis, D McElroy. 2011. Save the Bay, Eat a Ray: A Purported Trophic Cascade Mediated by Declines In Large Shark Populations and the Consequences of Applying Simplistic Models to Complex Ecosystems, 141st Meeting of the American Fisheries Society, 4-9 September 2011, Seattle, WA.
- Kolmann, MA, DR Huber, M Dean, **RD Grubbs**. 2011. Scaling of bite force generation in the Cownose Ray, *Rhinoptera bonasus*, 141st Meeting of the American Fisheries Society, 4-9 September 2011, Seattle, WA.
- Ford, R, J Gelsleichter, B Frazier, C Belcher, **RD Grubbs**, A Piercy. 2011. Preliminary Analysis of Reproductive Periodicity of the Blacknose Shark (*Carcharhinus acronotus*) within its Atlantic Range. 27th Annual Meeting of the American Elasmobranch Society (AES), 7-12 July 2011. Minneapolis, MN.
- Hollensead, L, J Carlson, D Bethea, **RD Grubbs**. 2011. Monitoring Movement Patterns of Juvenile Smalltooth Sawfish (*Pristis pectinata*) Using Acoustic Monitoring and Tracking in a Nursery Habitat in Southwest Florida. 27th Annual Meeting of the American Elasmobranch Society (AES), 7-12 July 2011. Minneapolis, MN.
- Grubbs, RD**, GH Burgess, MA Kolmann, J Imhoff. 2011. Movements of Adult Smalltooth Sawfish in the Zones of Commercial Fishery Interactions in the Florida Keys and Dry Tortugas. Smalltooth Sawfish Implementation Team Meeting. 29-30 March 2011, Everglades City, FL.

- Grubbs, RD**, J Carlson, G Johnson. 2011. Movements of Smalltooth Sawfish Captured in Andros, Bahamas; Application of New Tagging Methods. Smalltooth Sawfish Implementation Team Meeting. 29-30 March 2011, Everglades City, FL.
- Hollensead, L, D Bethea, J Carlson, **RD Grubbs**. 2011. Acoustic Tracking of Juvenile Smalltooth Sawfish in the Ten Thousand Islands area of Florida. Smalltooth Sawfish Implementation Team Meeting. 29-30 March 2011, Everglades City, FL.
- Kolmann, MA, DR Huber, M Dean, **RD Grubbs**. 2011. Scaling of bite force generation in the Cownose Ray, *Rhinoptera bonasus*, with comments regarding on-bottom aquaculture. Southeastern Ecology and Evolution Conference. 25-27 March 2011. Auburn, AL.
- Peterson, CT, **RD Grubbs**. 2011 Investigating the trophic ecology of sharks and teleost fishes in the Florida Big Bend using stable isotope analysis. Southeastern Ecology and Evolution Conference. 25-27 March 2011. Auburn, AL.
- Grubbs, RD**. 2010. Keynote Speech. Deepsea Fish, Fisheries and Exploration. The Island School/Cape Eleuthera Institute, Annual Research and Community Outreach Symposium 04 December 2010. Cape Eleuthera, Bahamas.
- Hollensead, L, J Carlson, D Bethea, **RD Grubbs**. 2010. Monitoring Movement Patterns of Juvenile Smalltooth Sawfish (*Pristis pectinata*) Using Acoustic Monitoring and Tracking in a Nursery Habitat in Southwest Florida. 26<sup>th</sup> Annual Meeting of the American Elasmobranch Society (AES), 7-12 July 2010. Providence, RI
- Kolmann, M, D Huber, M Dean, **RD Grubbs**. 2010. Ecomorphological Consequences of the Feeding Mechanism in the Cownose Ray. 26<sup>th</sup> Annual Meeting of the American Elasmobranch Society (AES), 7-12 July 2010. Providence, RI
- Cotton, CF, JA Musick, **RD Grubbs**. 2010. Reproduction and embryonic development in two species of North Atlantic squaliform sharks, *Centrophorus cf. niaukang* and *Etmopterus princeps*: evidence of matrotrophy? Sharks International Conference. 6-11 June 2010, Cairns, QLD Australia
- Grubbs, RD**, J Carlson, G Johnson. 2011. Smalltooth sawfish research in Andros, Bahamas: Assessing connectivity of Bahamian and U.S. population segments. Smalltooth Sawfish Implementation Team Meeting. 12-13 April 2010, St. Petersburg, FL.
- Betha, D, L Hollensead, J. Carlson, **RD Grubbs**. 2011. SEFSC Juvenile Sawfish Monitoring Update. Smalltooth Sawfish Implementation Team Meeting. 12-13 April 2010, St. Petersburg, FL.
- Carlson, J, C McCandless, E Cortes, **D Grubbs**, K Andrews, A MacNeil, J Musick. 2009. An Update on the Status of the Sand Tiger Shark, *Carcharias taurus* for the U.S. Atlantic Ocean. 25<sup>th</sup> Annual Meeting of the American Elasmobranch Society (AES), 23-27 July 2009, Portland, OR
- Cotton, C, **D Grubbs**, T Daly-Engel, J Musick. 2009. Age, Growth and Reproduction of *Squalus mitsukurii* from Hawaiian Waters. 25<sup>th</sup> Annual Meeting of the American Elasmobranch Society, 23-27 July 2009, Portland, OR
- Daly-Engel, T, **D Grubbs**, K Feldheim, B Bowen, R Toonen. 2009. Beneficial or Unavoidable? Sexual Conflict Drives Low Multiple Paternity and Genetic Diversity in the Shortspine Spurdog Shark (*Squalus mitsukurii*) 25<sup>th</sup> Annual Meeting of the American Elasmobranch Society (AES), 23-27 July 2009, Portland, OR
- Ha, D, **D Grubbs**, C Cotton, J Musick. 2009. Shark CPUE Trends from Virginia's Atlantic Waters: Trends 1972-2008. 25<sup>th</sup> Annual Meeting of the American Elasmobranch Society (AES), 23-27 July 2009, Portland, OR
- Grubbs, RD** 2008. Invited Speaker - Galapagos shark: Distribution, habitat use, and status throughout the world. Workshop: Shark Predation on Hawaiian Monk Seals. 5-6 November 2008, Honolulu Hawaii.
- Grubbs, RD**, CA Cotton, TS Daly-Engel. 2008. A Comparison of Diel Vertical Movements of Bluntnose Sixgill Sharks (*Hexanchus griseus*) in the Atlantic and Pacific Oceans. 24<sup>th</sup> Annual Meeting of the American Elasmobranch Society (AES), 23-27 July 2008, Montreal, Canada
- Grubbs, RD** 2008. Invited Speaker - Overview of shark bycatch in pelagic fisheries: conservation and ecology of pelagic sharks. Shark Deterrent and Incidental Capture Workshop. 10-11 April 2008. The New England Aquarium, Boston MA.
- Grubbs, RD** 2008. Invited Speaker - Galapagos shark geographic distribution, status, and predatory characteristics. Workshop: Shark Predation on Hawaiian Monk Seals. 8-9 January 2008, Honolulu Hawaii.
- Grubbs, RD** 2007. Invited Speaker - Fins to the left, fins to the right: A tribute to Jack Musick. 87<sup>th</sup> Annual Meeting of the American Society of Ichthyologists and Herpetologists, 12-17 July 2007, St. Louis, MO.
- Romine, J, **Grubbs, RD**, Conrath, C, Musick, J 2007. Growth estimates for the sandbar shark, *Carcharhinus plumbeus*, in the Northwest Atlantic through tag-recapture methods. 23<sup>rd</sup> Annual Meeting of the American Elasmobranch Society (AES), 12-17 July 2007, St. Louis, MO.

- Kessel, S; Gruber, S; Perkins, R; **Grubbs, D** 2007. Exploratory Longlines on the Slope of the Great Bahama Bank off Bimini. 23<sup>rd</sup> Annual Meeting of the AES, 12-17 July 2007, St. Louis, MO.
- Grubbs, RD** and JG Romine. 2006. Long-term population stability of large coastal sharks in the main Hawaiian Islands. 22<sup>nd</sup> Annual Meeting of the AES, 12-17 July 2006, New Orleans, LA.
- Daly-Engel, TS, **RD Grubbs**, BW Bowen, and RJ Toonen. 2006. Frequency of multiple paternity in an unfished tropical population of sandbar sharks (*Carcharhinus plumbeus*). 22<sup>nd</sup> Annual Meeting of the AES, 12-17 July 2006, New Orleans, LA.
- Grubbs, RD** 2006. Invited Presentation - Biology and Life History of *Rhinoptera bonasus* (cownose ray). Regional Workshop on Cownose Ray Issues (Identifying Research and Extension Needs). 01-02 June 2006. Sponsored by Virginia Sea Grant. Yorktown, VA.
- Itano, D and **D Grubbs**. 2006. Invited Presentation - Seamount pelagic fisheries and research in the Hawai'i region. Seamount Workshop. 20-21 March 2006. SPC. Nouméa, New Caledonia.
- Grubbs, RD**, KN Holland, and DG Itano. 2005. Trophic ecology of young-of-year yellowfin tuna (*Thunnus albacares*) in Hawai'i. 85<sup>th</sup> Annual Meeting of the ASIH. 6-11 July 2005, Tampa, FL. (*Abstract Only – Pres. Withdrawn*).
- Daly-Engel, T, **D Grubbs**, K Holland, B Bowen, and R Toonen. 2005. Multiple paternity assessments for three species of congeneric sharks (*Carcharhinus*) in Hawai'i. 21<sup>st</sup> Annual Meeting of the AES, 6-11 July 2005, Tampa, FL.
- Romine JG, **RD Grubbs**; JA Musick, and KN Holland. 2005. Age and growth of the sandbar shark, *Carcharhinus plumbeus*, in Hawai'i. 21<sup>st</sup> Annual Meeting of the AES, 6-11 July 2005, Tampa, FL.
- Grubbs, RD**, KN Holland, and DG Itano. 2005. Trophic ecology of young-of-year yellowfin tuna in Hawai'i. 56<sup>th</sup> Annual Tuna Conference, SWFSC, NMFS, NOAA. 23-26 May 2005. Lake Arrowhead, CA.
- Itano D, K Holland, L Dagorn, and **D Grubbs**. 2005. Anchored FADs as monitoring stations. 56<sup>th</sup> Annual Tuna Conference, SWFSC, NMFS, NOAA. 23-26 May 2005. Lake Arrowhead, CA.
- Grubbs, RD** and KN Holland. 2005. The ecology of seamount-associated tunas. Conference title: Seamounts; Ecology, Fisheries & Conservation. Sponsored by Blackwell Science, CenSeam, NSF, OASIS, MARMAC. 16-22 May 2005. Horta, Azores.
- Itano D, K Holland, L Dagorn, and **D Grubbs**. 2004. Movements and residence times of yellowfin and bigeye tuna in a network of anchored FADs. 2004 Pelagic Fisheries Research Program (PFRP) - Principal Investigator's Meeting: Approaches to Fishery Management, 29 Nov - 1 Dec 2004, Honolulu, HI.
- Romine JG, **RD Grubbs**; JA Musick, and KN Holland. 2004. Age and growth of the sandbar shark, *Carcharhinus plumbeus*, in Hawai'i. 20<sup>th</sup> Annual Meeting of the AES, 26-31 May 2004, Norman, OK.
- Graham B, **D Grubbs**, K Holland, D Itano, B Fry, V Allain, R Olson, F Galván-Magaña, and B Popp. 2004. Natural and experimental diet shifts in yellowfin tuna as tracked by stable isotope analyses. 55<sup>th</sup> Annual Tuna Conference, SWFSC, NMFS, NOAA. 24-28 May 2004. Lake Arrowhead, CA.
- Itano D, K Holland, L Dagorn, **D Grubbs**. 2004. Monitoring pelagics within a network of anchored FADS. 55<sup>th</sup> Annual Tuna Conference, SWFSC, NMFS, NOAA. 24-28 May 2004. Lake Arrowhead, CA.
- Graham, B, V Allain, K Holland, **D Grubbs**, B Fry, R Olson, F Galvan, and B Popp. 2003. Chemical clues: stable isotopes and tuna. 2003 PFRP - Principal Investigator's Meeting: Data Rescue: Discovery, Verification, Documentation and Analysis of Long-Term Data, 9-11 December 2002, Honolulu, HI.
- Grubbs D**, K Holland, B Graham, D Itano and L Dagorn. 2003. Invited Speaker: The biology of FAD-associated tuna: Temporal dynamics of associated and feeding ecology. 16<sup>th</sup> Standing Committee on Tuna and Billfish (SCTB). 9-16 July 2003. Mooloolaba, Queensland, Australia.
- Grubbs, RD**, and KN Holland. 2003. Yellowfin and bigeye tuna in Hawai'i: dietary overlap, prey diversity and the trophic cost of associating with natural and man-made structures. 54<sup>th</sup> Annual Tuna Conference, SWFSC, NMFS, NOAA. 13-16 May 2003. Lake Arrowhead, CA.
- Grubbs, RD**, and KN Holland. 2003. Invited Speaker: Effects of fish aggregating devices (FADs) on the trophic ecology of bigeye and yellowfin tuna in Hawai'i. Western Pacific Regional Fishery Management Council, Pelagics Plan Team Meeting, 24-25 April 2003, Honolulu, Hawai'i.
- Grubbs, RD**, and KN Holland. 2002. Comparative trophic ecology of yellowfin and bigeye tuna associated with natural and man-made aggregation sites in Hawaiian waters. 2002 PRFP - Principal Investigator's Meeting and "Tying One On" Workshop. 4-6 December 2002, Honolulu, Hawai'i.

- Graham, B, B Popp, T Rust, K Holland, **D Grubbs**, D Itano, V Allain, R Olson, F Galvan, B Fry. 2002. Examining tuna trophic dynamics using stable isotope analysis: "The Hawaiian Template". 2002 PFRP - Principal Investigator's Meeting and "Tying One On" Workshop. 4-6 December 2002, Honolulu, Hawai'i.
- Grubbs, RD**, JA Musick, and CL Conrath. 2002. Essential fish habitat of the sandbar shark, *Carcharhinus plumbeus*, within Virginia waters. 132<sup>nd</sup> Meeting of the American Fisheries Society, 18-22 August 2002. Baltimore, MD.
- Grubbs, RD**, K Holland, and D Itano. 2002. Comparative trophic ecology of yellowfin and bigeye tuna associated with natural and man-made aggregation sites in Hawaiian waters. 15<sup>th</sup> SCTB. 22-27 July 2002. Honolulu, HI
- Grubbs, RD**, and KN Holland. 2002. Trophic ecology of structure-associated tuna: experimental rationale and preliminary results. 53<sup>rd</sup> Annual Tuna Conference, SWFSC, NMFS, NOAA. 20-23 May 2002, Lake Arrowhead, CA
- Grubbs, RD**, and KN Holland. 2001. Trophic ecology of structure-associated tuna: experimental rationale and preliminary data. 2001 PFRP - Principal Investigator's Meeting: Ecosystem-Based Management of Pelagic Fisheries, 4-6 December 2001, Honolulu, Hawai'i.
- Holland, KN and **RD Grubbs**. 2001. Rationale, experimental design and early results of investigation of the trophic ecology of bigeye and yellowfin tuna associated with various structures. 52<sup>nd</sup> Annual Tuna Conference, SWFSC, NMFS, NOAA. 20-23 May 2001, Lake Arrowhead, California
- Grubbs, RD** and JA Musick. 2000. Movements of juvenile *Carcharhinus plumbeus* in Chesapeake Bay, Virginia USA using sonic telemetry and mark-recapture methods. 16<sup>th</sup> Annual Meeting of the AES, 14-20 June 2000, La Paz, Mexico.
- Grubbs, RD** and JA Musick. 2000. Temporal and spatial nursery delineation for *Carcharhinus plumbeus* in the lower Chesapeake Bay, Virginia. 16<sup>th</sup> Annual Meeting of the AES, 14-20 June 2000, La Paz, Mexico.
- Grubbs, RD** 1998. Abundance trends and juvenescence of *Carcharhinus plumbeus* in the Mid-Atlantic Bight. EPA/600/R-98/049. p. 71. May 1998. Science To Achieve Results (STAR) Graduate Fellowship Program Technical Conference Proceedings.
- Grubbs, RD** and JA Musick. 1997. Abundance and age composition of juvenile *Carcharhinus plumbeus* in Chesapeake Bay and the effects of a directed fishery. 13<sup>th</sup> Annual Meeting of the AES, 26 June-2 July, Seattle, WA.
- Gelsleichter, J, **RD Grubbs**, and JA Musick. 1997. Morphology and histology of the reproductive tract of a hermaphroditic spiny dogfish, *Squalus acanthias*. 13<sup>th</sup> Ann. Meeting of the AES, 26 June-2 July 1997, Seattle, WA.
- Grubbs, RD** 1997. Spatial and temporal nursery delineation for *Carcharhinus plumbeus* in Chesapeake Bay, Virginia, U.S.A. EPA/600/R-97/049. p. 53. May 1997. Science To Achieve Results (STAR) Graduate Fellowship Program Technical Conference Proceedings.
- Musick, JA, J Gelsleichter, and **RD Grubbs**. 1996. Dynamics of northwestern Atlantic shark resources: A case study. European Shark and Ray conference, October, Birmingham, England.
- Grubbs, RD 1996. Recruitment patterns and nursery ground delineation for *Carcharhinus plumbeus* in Chesapeake Bay. 12<sup>th</sup> Annual Meeting of the AES, 13-19 June 1996. New Orleans, LA.

## Invited Lectures and Seminars

- Plymouth Marine Laboratory – Seminar Series. Using state of the art telemetry to study very large elasmobranch fishes: endangered sawfish and deep sea sharks. Plymouth, United Kingdom, 31 October 2016.
- President's Club College – Florida State University – Class for FSU Donors that are members of the President's Club on Research to Promote Recovery of Endangered Smalltooth Sawfish. 30 Sept 2016
- Florida State University Coastal and Marine Lab - Coastal and Marine Conservation Lecture Series. Challenges to shark management & conservation: From shark fin soup to pseudo-science and bowfishing tournaments. 09 June 2016
- University of Trinidad and Tobago. 3 hour Invited Lecture (Online): Elasmobranch Fisheries and Conservation. 30 March 2016.
- Gulf of Mexico Oil Spill & Ecosystem Science Conference. Invited Keynote for Session 005: Ecological Impacts of the Deepwater Horizon Oil Spill Impacts Across Multiple Scales. Title: Assessing the effects of the DwH oil spill on large fishes as functions of habitat, trophic ecology and life histories. Tampa, FL. 1-4 February 2016
- Marine and Coastal Science Seminar Series. Invited Speaker: Ecology of coastal and deepwater sharks and bony fishes. Florida State University, Department of Biological Science. 27 January 2016.



- VIMS 75th Anniversary Symposium: Invited Speaker. From Sandbar Sharks to Sawfish: Application of the VIMS Tripartite Mission. 08 October 2015. Gloucester Point, Virginia
- Bimini Biological Field Station. Endangered sawfish and deep-sea sixgill sharks: Using modern telemetry to study very large elasmobranch fishes. 27 August 2015
- University of Trinidad and Tobago. 3 hour Invited Lecture (Online): Elasmobranch Fisheries and Conservation. 04 June 2015.
- University of North Florida. Invited Lecture: Endangered sawfish and deep-sea sixgill sharks: Using modern telemetry to study very large elasmobranch fishes. 29 May 2015
- College of Charleston – Closing Address, Graduate Research Colloquium. Peer review, waning scientific skepticism and the danger of losing credibility: Lessons from shark management and conservation efforts. 20 September 2014
- College of Charleston – Keynote Speaker, Graduate Research Colloquium. Endangered sawfish and deep-sea sixgill sharks: Using modern telemetry to study very large elasmobranch fishes. 19 September 2014
- Florida State University Coastal and Marine Lab - Coastal and Marine Conservation Lecture Series. The Ecology of Smalltooth Sawfish in Florida and the Bahamas, Research to Support Recovery of a Critically Endangered Species. 14 August 2014
- V Iberian Congress of Ichthyology – Invited Plenary Speaker. Endangered sawfish and deep-sea sixgills: using modern telemetry to study very large elasmobranch fishes. 24-27 June 2014. Lisbon, Portugal
- Tallahassee Community College. Lecture for OCE1001. The Biology of sharks and rays, their diversity in Florida, and current shark research at FSU 03 December 2013
- NOAA Southeast Regional Office. Lunch and Learn Series. Movement Patterns and Reproductive Status of Smalltooth Sawfish and Habitats of Importance in Areas of Commercial and Recreational Fishery Interactions. 13 November 2013.
- University of Central Florida. Biology Seminar: Sawfish to sixgills: using tagging and telemetry to inform management and conservation of exploited, imperiled and poorly studied elasmobranch fishes. 16 September 2013
- University of North Florida. Graduate lecture: Fishery-independent surveys: invaluable tools in elasmobranch ecology. 14 June 2013
- East Carolina University – Invited speaker for the Annual Banquet of the American Fisheries Society, East Carolina University Student Subunit. Sawfish to sixgills, using tagging and telemetry to inform management and conservation of exploited, imperiled and poorly studied elasmobranch fishes. 29 March 2013
- East Carolina University – Coastal Resource Management Seminar Series. From liver oil and shark fin soup to "Save the Bay, Eat a Ray": the history and challenges of managing coastal elasmobranchs in the Northwest Atlantic. 28 March 2013
- University of West Florida – Biology Seminar. Sawfish to sixgills, using tagging and telemetry to inform management and conservation of exploited, imperiled and poorly studied elasmobranch fishes. 22 March 2013.
- University of West Florida – Marine Ecology Research Society. Sawfish to sixgills, using tagging and telemetry to inform management and conservation of exploited, imperiled and poorly studied elasmobranch fishes. 22 March 2013.
- Florida State University, Biological Oceanography Seminar. Jurassic Shark: The ecology of the bluntnose sixgill shark (*Hexanchus griseus*), one of the largest and oldest extant marine predators, Department of Earth, Ocean, and Atmospheric Sciences. 15 February 2013
- Texas A&M University, Department of Wildlife and Fisheries Sciences Seminar Series. Sixgill sharks, giant snake eels and other sea monsters: the ecology of deep demersal fishes in the northern Gulf of Mexico with respect to the Deepwater Horizon oil spill. 26 April 2012
- Florida State University – Biological Science Colloquium. Sixgill sharks, giant snake eels and other sea monsters: the ecology of deep demersal fishes in the northern Gulf of Mexico with respect to the Deepwater Horizon oil spill. 19 January 2012.
- The Island School/Cape Eleuthera Institute. Eleuthera, Bahamas. Keynote Speech. Annual Research and Community Outreach Symposium 04 December 2010.
- University of North Florida – Natural Sciences Seminar Series. Jurassic Shark: Studying the ecology of one of the oldest extant lineages of large marine predators, the sixgill sharks (Hexanchidae). 19 February 2010

- Florida Fish and Wildlife Conservation Commission: Invited Speaker. Ecology of coastal and deepwater elasmobranch fishes. 04 August 2008
- Florida State University Coastal and Marine Lab - Coastal and Marine Conservation Lecture Series. Sharks and rays of Florida: An introduction to their diversity, identification, biology, and ecology. 12 June 2008
- Florida State University - Ecology and Evolution Seminar Series. Spatial ecology, population dynamics, and challenges to management of coastal sharks in the Northwest Atlantic. 22 February 2008.
- Alaska Pacific University. Fisheries ecology of sharks and tunas: Investigations of essential fish habitat, trophic biology, life histories, and population dynamics. 23 April 2007.
- Savannah State University. The biology of sandbar sharks and other toothy creatures: Investigations of abundance, life histories, and essential fish habitat. 13 April 2007.
- Christopher Newport University. The biology of sandbar sharks and other toothy creatures: Investigations of abundance, life histories, and essential fish habitat. Departmental Seminar. 23 February 2007.
- George Mason University, Department of Environmental Science and Public Policy. The Diversity of Elasmobranch Fishes. Guest Lecturer for EVPP 536. 17 October 2006.
- Virginia Institute of Marine Science, Fisheries Dept Seminar. The trophic ecology of structure-associated yellowfin and bigeye tunas (*Thunnus albacares* and *T. obesus*) in Hawaiian waters. 02 October 2006.
- Regional Workshop on Cownose Ray Issues (Research and Extension Needs). Invited Speaker; Biology & Life History of *Rhinoptera bonasus* (cownose ray). Virginia Sea Grant. Yorktown, VA. 02 June 2006.
- Hawai'i Institute of Marine Biology - Integrated Approaches to Marine Science Seminar Series. Sharks, Grits, and Poi! Essential fish habitat (EFH) and population dynamics of sandbar sharks in Virginia and Hawai'i: Successful management through effective science. 03 November 2004.

## **Community and Professional Outreach**

- EEE Honors Society at FSU. Research presentation to ~100 honors students on deep sea shark and endangered sawfish research at FSU. 30 September 2016
- SeaCamp, Big Pine Key, FL. Presentation to 120 SeaCamp students. Ecology of coastal and deepwater sharks and bony fishes. 20 July 2016
- Carr Elementary and Middle School, Clarksville, FL. Research on coastal and deepsea sharks and rays of the Gulf of Mexico. 12 April 2016. Lecture to 60 7th and 8th grade students
- Pre-Veterinary Club at FSU. Research presentation to ~100 club members on deep sea shark and endangered sawfish research at FSU. 23 March 2016
- Osher Lifelong Learning Institute - Florida State University. Research presentation to ~25 OLLI participants on Smalltooth Sawfish - the decline, listing, and potential recovery of the U.S.'s first native marine fish listed under the Endangered Species Act. 23 March 2016
- Florida State University - Frontiers in Biology. Research into the ecology of coastal and deepwater sharks and bony fishes. Department of Biological Sciences. 27 January 2016
- Flamingo Cay Rod & Gun Club, Andros, Bahamas. Lecture to patrons and staff on the biology and conservation of smalltooth sawfish in the Bahamas. 27 November 2015
- Osher Lifelong Learning Institute - Florida State University Coastal and Marine Lab. Research presentation to ~25 OLLI participants on Sharks and Rays of Florida: From deep-sea sixgills to endangered sawfish. 24 October 2015
- CPALMS Perspectives - Experts Video for Educational Standard: Video for use in K-12 classrooms. Math and Science – Deep Sea Shark Research, Earth Systems and Climate – Fisheries and Conservation Research 18 September 2015
- Altha Public School, Altha, FL. Research on coastal and deepsea sharks and rays of the Gulf of Mexico. 20 March 2015. Lecture to 60 6th and 10th grade students.
- Flamingo Cay Rod & Gun Club, Andros, Bahamas. Lecture to patrons and staff on the biology and conservation of smalltooth sawfish in the Bahamas. 15 March 2015
- Science Salon. Sharks and Rays of Florida: From deep-sea sixgills to endangered sawfish. Waterworks, Tallahassee, FL. 04 March 2015. Interactive science lecture to ~50 members of the public
- Carr Elementary and Middle School, Clarksville, FL. Research on coastal and deepsea sharks and rays of the Gulf of Mexico. 27 February 2015. Lecture to 60 7<sup>th</sup> and 8<sup>th</sup> grade students

- Apalachee Audubon Society. Speaker Series. Ecology of Smalltooth Sawfish in Florida and the Bahamas: Research to Support Recovery of a Critically Endangered Species. 20 November 2014. Tallahassee, FL
- WIMSE (Women in Math, Science and Engineering). Research opportunities in marine ecology. 28 October 2014
- REEF Sharkinar: Identification of north American Sharks, a webinar for REEF members. 22 October 2014
- Apalachicola National Estuarine Research Reserve – Estuaries Day Celebration. Presentation on sawfish research and the sharks and rays of Florida. (Attendance ~500). 26 September 2014
- American Elasmobranch Society – Student Activities Committee Workshop – Invited Panelist; Getting A Job: Preparing In Graduate School, Applying And Making The Transition. 03 August 2014, Chattonooga, TN
- REEF Fish and Friends Lecture, REEF.Org, Key Largo, FL. Movement Patterns and Habitat Use of Smalltooth Sawfish in south Florida and the Bahamas, Research to Support Recovery of a Critically Endangered Species 08 April 2014
- Carr Elementary and Middle School, Clarksville, FL. Coastal and deepsea sharks and rays of the Gulf of Mexico. 01 April 2014. Lecture to 60 7<sup>th</sup> and 8<sup>th</sup> grade students
- Flamingo Cay Rod & Gun Club, Andros, Bahamas. Lecture to patrons and staff on the biology and conservation of smalltooth sawfish in the Bahamas. 08 March 2014
- Springwood Elementary School, Tallahassee, FL. Coastal and deepsea sharks and rays of the Gulf of Mexico. 28 February 2014. Lecture to 40 5<sup>th</sup> grade students
- Grassroots School, (age 5-14) Tallahassee, FL. Sharks, Fact and Fiction. 10 December 2013
- Maclay High School, Tallahassee, FL. Facts and fiction about sharks and rays, their diversity in Florida, and current research. 03 December 2013
- Askew Student Life Cinema, FSU. Introductory Talk for Screening of Changing Seas: Creature of the Deep followed by panel discussion. 02 December 2013
- WIMSE (Women in Math, Science and Engineering). Research opportunities in marine ecology. 24 September 2013
- Lake Brantley High School, Apopka, FL. The Biology of sharks and rays, their diversity in Florida, and current shark research at FSU. 16 September 2013
- World Aquarium – Aquatic & Marine Science Initiative. Shark research in Florida 06 June 2013
- Carr Elementary and Middle School, Clarksville, FL. Coastal and deepsea sharks and rays of the Gulf of Mexico. 30 April 2013. Lecture to 60 7<sup>th</sup> and 8<sup>th</sup> grade students
- Science Café. Thomas University. Sixgill sharks, giant snake eels and other sea monsters: Deep sea fishes in the northern Gulf of Mexico and the Deepwater Horizon oil spill. Thomasville, GA. 26 February 2013
- Florida State University - Frontiers in Biology. Research into the ecology of coastal and deepwater sharks and bony fishes. Department of Biological Sciences. 20 February 2013
- Panhandle Area Educational Consortium - Florida Learns. Research into the ecology of coastal and deepwater sharks and bony fishes. Tallahassee Community College. 1 February 2013
- CPALMS Perspectives - Experts Video for Educational Standard: SC.912.L.17.2 - Explain the general distribution of life in aquatic systems as a function of chemistry, geography, light, depth, salinity, and temperature. Video for use in K-12 classrooms. 19 November 2012
- Riversink Elementary, Crawfordville, FL. Project Learning Tree – Sharks, Fact and Fiction (9 lectures). 14 November 2012
- WIMSE (Women in Math, Science and Engineering). Research opportunities in marine ecology. 30 October 2012
- Science Café – Ray’s Steel City Saloon, Sponsored by National High Magnetic Field Laboratory. Sharks and the BP Oil Spill. 2 October 2012
- Franklin County Library, Carrabelle, FL. Coastal and deepsea sharks of the Gulf of Mexico – Presentation to 30 students age 4 to 15. 25 September 2012
- The Nest - Franklin County Learning Center, East Point, FL. Coastal and deepsea sharks of the Gulf of Mexico – Presentation to 70 K-2<sup>nd</sup> graders. 21 September 2012
- American Elasmobranch Society – Student Activities Committee Workshop – Invited Panelist - How and why to avoid being labeled a "Shark Scientist". 11 August 2012. Vancouver, BC.
- Carr Elementary and Middle School, Clarksville, FL. Coastal and deepsea sharks and rays of the Gulf of Mexico. 25 January 2012. Lecture to 60 7<sup>th</sup> and 8<sup>th</sup> grade students.

- Florida State University –Sneak Peak. Visual display and presentation highlighting research to local business and community leaders. 24 October 2011.
- St. George Island Civic Club, Eastpoint, FL. Research into the effects of the Deepwater Horizon oil spill on populations of coastal and deepsea fishes with special reference to the sharks. 15 September 2011.
- University of North Florida – Guest Lecturer in Shark Biology. Biology of deep-sea sharks – faunal assemblages, movement patterns, life histories, systematics. 07 June 2011
- Carr Elementary and Middle School, Clarksville, FL. Sharks and rays of the world. 03 March 2011
- Riversink Elementary, Crawfordville, FL. Project Learning Tree – Sharks, Fact and Fiction (9 lectures). 15 November 2010
- Cape Eleuthera Institute/Island School. Invited Seminar: The Ecology of Deepwater Sharks. 15 September 2010
- ASIH 2010 Annual Meeting in Providence, RI. One of six invited panelist for a panel discussion entitled “Scientists discuss the fate of marine life in the Gulf of Mexico following the Deepwater Horizon oil spill”. Discussion attended by ~500 people and the media. 09 July 2010
- Gulf Specimen Marine Lab – 2<sup>nd</sup> Annual Sharks and Chablis fundraiser. Presentation on sharks and rays of Florida. 23 May 2010.
- Medart Elementary, Medart, FL. Project Learning Tree – Sharks, Fact and Fiction (8 lectures). 27 April 2010
- Carr Elementary and Middle School, Clarksville, FL. Sharks and rays of the world. 16 March 2010
- Mighty Mullet Festival. Panacea, FL. Public Lecture – Sharks and Rays of Apalachee Bay. 03 October 2009
- Saturday at the Sea (SATS) - FSU Coastal and Marine Lab – Sharks and rays of Florida. 04 June 2009
- Crawfordville 4-H. Crawfordville, FL. Sharks in Florida- Separating Myth from Reality. 09 May 2009
- Medart Elementary, Medart, FL. Project Learning Tree – Sharks, Fact and Fiction (8 lectures). 27 April 2009
- FSU Coastal and Marine Lab. Sharks and rays of the northern Gulf of Mexico: Their Biology and Conservation FSUCML Open House. 18 April 2009
- Apalachicola National Estuarine Research Reserve. Shark Coastal Training Program. Diversity and identification of Florida’s Sharks and Rays. 16 April 2009.
- Saturday at the Sea (SATS) - FSU Coastal and Marine Lab – Sharks and rays of Florida. March 2009
- Franklin County Library, Carrabelle, FL. Sharks and rays of Florida – Fact and Fiction. 26 March 2009
- Blountstown Middle School, Blountstown, FL. Sharks and rays of the world. 16 February 2009
- Carr Elementary and Middle School, Clarksville, FL. Sharks and rays of the world. 18 December 2008.
- St. Marks National Wildlife Refuge: Coastal Cleanup and Awareness Day – Presentation on Sharks and Rays of Apalachee Bay. 20 September 2008
- Saturday at the Sea (SATS) - FSU Coastal and Marine Lab – Sharks and rays of Florida. 04 June 2008
- Virginia Marine Police – Virginia Marine Resources Commission. Identification of Virginia sharks: A training course. 31 January 2007.
- Nauticus – National Maritime Center (12<sup>th</sup> Anniversary Celebration). Invited Speaker; Sharks!!! Their diversity and conservation in Virginia. 03 June 2006.
- NMFS - Longline Fisheries Observer Training Program. Diversity and identification of sharks likely to be encountered on commercial longline vessels in the central Pacific Ocean. Kaneohe, HI. 26 July 2005.
- Hanauma Bay Educational Lecture Series - Sharks!!! Their diversity, life histories and conservation in Hawai’i. Hanauma Bay, HI. 10 February 2005.
- Saint Anthony’s School (Kailua, HI) - Sharks in Hawai’i. 08 February 2005.
- NMFS - Longline Fisheries Observer Training Program. Diversity and identification of sharks likely to be encountered on commercial longline vessels in the central Pacific Ocean. Kaneohe, HI. 02 February 2005.
- NMFS - Longline Fisheries Observer Program. Shark research in Hawai’i. Kaneohe, HI. 03 June 2004.
- Hawai’i Teachers’ Conference on Sharks. Hawai’i Institute of Marine Biology. Diversity of Elasmobranch Fishes - 24 April 2004; Reproductive biology of elasmobranchs - 25 April 2004.
- Marine Science Consortium. Keynote Speech - Annual Board of Directors Banquet, Abundance trends, habitat use, and nursery delineation of sandbar sharks in Chesapeake Bay. Chincoteague, VA. 25. September 1998.
- Peasley Middle School (Gloucester, VA) - Diversity of sharks and rays and threats to populations. 3 June 1998.

- Norfolk Rotary Club (Norfolk, VA) - Trends in abundance and effects of fisheries on large coastal sharks in Virginia waters. 25 July 1997.
- Peasley Middle School (Gloucester, VA) - Diversity and conservation of sharks and rays. 29 May 1997
- Coastal Carolina University (Conway, SC) - Trends in abundance and diversity of elasmobranchs in the Mid-Atlantic Bight. 1 May 1997.
- Old Dominion University (Norfolk, VA) - College of Sciences Open House, Trends in abundance and diversity of elasmobranchs in the Mid-Atlantic Bight. 22 February 1997.
- Peasley Middle School (Gloucester, VA) - Diversity of sharks and rays in Virginia 6 June 1996.

## **Research and Field Experience (~1,600 days at sea in total)**

### **Florida State University Coastal and Marine Lab: 2008-2017**

- Deepwater fish assemblages associated with DeSoto Canyon and continental slope waters in the eastern Gulf of Mexico. Chief Scientist: D. Grubbs, *R/V Weatherbird II* – four cruises, 55 days, *F/V St. Andrew Bay* – 7 days, *R/V Apalachee* – ten cruises, 87 days
- Habitat use by adult smalltooth sawfish in South Florida and the Bahamas - ~170 day cruises
- Efficacy of electropositive metals as shark deterrents on longlines, P.I. S. Kajiura, D. Grubbs - ~20 days
- Use of Electric Decoys to mitigate shark bycatch, P.I. T. Werner, D. Grubbs - ~20 days
- Survey of coastal shark abundance in Florida's Big Bend, P.I.: D. Grubbs, *small vessels* – >200 day cruises

### **Cape Eleuthera Institute and The Island School: 2010-2011**

- Survey of Deepwater Shark Assemblages of Exuma Sound, P.I.: E. Brooks, D. Grubbs, D. Chapman (7 sea days)
- Field course in marine biology, 2011: *Small research vessels* – 8 days

### **Virginia Institute of Marine Science, College of William & Mary 2006-2008**

- Survey of coastal shark abundance in Virginia waters, P.I.: D. Grubbs, J. Musick
- R/V Bay Eagle (20m)* – ten cruises, 47 days at sea; *Small Research Vessels (7m)* – 10 day cruises

### **Florida Institute of Oceanography, 17-20 March 2007**

- Survey of deep-sea elasmobranch communities in the eastern Gulf of Mexico. P.I.: J. Castro
- R/V Sun Coaster* – 4 days at sea

### **Hawai'i Institute of Marine Biology, University of Hawai'i 2001-2005, 2008-2009**

- Movements, trophic ecology and ontogenetic changes in stable isotopes of structure-associated tunas in Hawaiian waters, P.I.: K. Holland, D. Itano, D. Grubbs.
- F/V Double D (23m)* – four cruises, 22 days at sea; *R/V Opah* - 85 day cruises
- Biology of large coastal and deep-sea elasmobranchs in Hawaiian waters, P.I. D. Grubbs.
- R/V Outrage (7m)* - 88 day cruises

### **Virginia Institute of Marine Science, College of William & Mary 1994-2000**

- Large coastal shark abundance survey in Virginia waters, P.I.: J. Musick, Coordinator: D. Grubbs
- R/V Bay Eagle (20m)* – 27 cruises, 108 days at sea; *F/V Anthony Anne (30m)* – 4 cruises, 21 days at sea
- Long-term movements of juvenile sandbar sharks (*Carcharhinus plumbeus*) using mark-recapture data, P.I: D. Grubbs, J. Musick, *Small Research Vessels (7m)* – 28 day cruises
- Spatial and temporal nursery delineation for sandbar sharks (*C. plumbeus*), P.I.: D. Grubbs, J. Musick
- Movements and habitat utilization of juvenile sandbar sharks (*C. plumbeus*) using ultrasonic telemetry, P.I.: D. Grubbs, J. Musick. *R/V Shearwater*, *R/V Kingfisher* – 10 cruises, 28 days at sea
- Collaborative Elasmobranch research and tissue collection (selected):
- Shark genetics study, P.I.: M. Shivji (NOVA Southeastern University)
  - Elasmobranch genetic study, P.I.: D. Stoner (Univ. of South Carolina)
  - Reproductive physiology research, P.I.: B. Hamlett (Univ. of Notre Dame)
  - Reproductive tracts for antibody research, P.I.: A. Neal (Clemson Univ.)
  - Elasmobranch livers for squalamine research, P.I.: A. Shinnar (Barnard College)
  - Shark skin samples for hydrodynamics research, P.I.: I. Bartol, J. Musick (VIMS)
  - Jaws of batoids for chondrichthyan palaeontology project, P.I.: J. Bourdon (New York)
  - Jaws of lamniform sharks for palaeontology, P.I.: S. Applegate (Univ. Nac. Aut. Mexico)
  - Age, growth, and reproductive biology of smooth dogfish (*Mustelus canis*), P.I. C. Conrath (VIMS)
  - Age and growth of sandtiger sharks (*Carcharias taurus*), P.I. K. Goldman (VIMS)
- Long-term monitoring of Virginia freshwater stream-fish diversity using backpack electroshocking techniques,

1995-2000, P.I.: Dr. J. Musick, Coordinator: D. Grubbs

Striped bass (*Morone saxatilis*) mark/recapture study, 1998-2000, P.I.: Dr. J. Olney, Dr. J. Hoenig. *12 days at sea*

American shad (*Alosa sapidissima*) population survey using staked gill nets, P.I.: Dr. J. Olney. *9 days at sea*

Oyster (*Crossostrea virginica*) population survey using hydraulic tong sampling, P.I.: Dr. R. Mann. *10 days at sea*

**Wildlife Conservation Society** / Middle Cay, Belize, 24 June - 07 July 2000

Investigation of abundance and diversity of the elasmobranch fauna of Glover's Atoll, Belize.

P.I.: D. Grubbs, D. Chapman, E. Pikitch. *Small research vessels - 14 days*

**Atol das Rocas / Fernando de Noronha, Brazil** - 06-31 March 1999 *R/V Seward Johnson (70m) - 22 days at sea*

Lemon shark (*Negaprion brevirostris*) population genetics study; P.I.: S. Gruber, R. Rosa

**Farallon Islands / Point Reyes Bird Observatory, California** - 05-15 October 1997

Movements of white sharks (*Carcharodon carcharias*) using satellite telemetry, P.I.: K. Goldman

**Bimini Biological Field Station, Bahamas, 1990-2015**

Field courses in marine biology (32 courses), 1991-2003, 2008-2015: *Small research vessels - ~200 days*

Elasmobranch biology courses, Longlining for large coastal and deep-sea elasmobranchs (30 courses), 1996-2015:  
*Small research vessels - >150 days*

Population assessment of lemon shark (*N. brevirostris*) nursery using passive integrated transponders (PIT tags),  
1990, 1991, 1995, P.I.: S. Gruber: *Small research vessels - 90 days*

Assessment of homing ability of juvenile lemon sharks (*N. brevirostris*) using ultrasonic telemetry, 1991-1992;  
P.I.: W. Strong, S. Gruber: *Small research vessels - 45 days*

**Marine Science Consortium, Wallops Island, Virginia, 1993-1994.** Field courses in barrier island ecology (>50

courses): *Small research vessels - 100 days*. Effects of intraperitoneal transmitter implantation on juvenile sandbar sharks (*C. plumbeus*), 1994; P.I.: T. Leigh: *R/V Black Skimmer, Small research vessels - >30 days*

**Rosenstiel School of Marine and Atmospheric Science, University of Miami, 1988-1991:**

Mortality estimation in neonate lemon sharks (*N. brevirostris*), P.I.: C. Manire

Gut content analysis, age and growth of juvenile lemon sharks (*N. brevirostris*), P.I.: C. Manire

Home range of juvenile lemon sharks (*N. brevirostris*) using ultrasonic telemetry, P.I.: J. Morrissey

Tag and release of sharks captured using longline gear, P.I.: S. Gruber. *Small research vessels - >50 days*

Data collection at University of Miami shark research tournaments

## Professional Skills

Fishery-independent Sampling: drift and anchored longline (horizontal and vertical to 2000 meters depth), block rigs, drift and anchored gill nets, beach seines, otter trawl, bongo nets, backpack electro-shocking equipment, various fish traps, various hook and line methods

Tagging and telemetry: ultrasonic transmitters with depth sensors, manual tracking receivers, passive monitoring receivers, passive integrated transponders (PIT tags), archival transmitters, PAT (pop-off archiving satellite transmitters), nylon dart tags, M-style dart tags, t-bar tags, internal anchor tags, Roto tags, Peterson discs, harnessing methods, implantation and suture methods. Tagged more than 10,000 sharks and rays, including ~50 endangered smalltooth sawfish.

Taxonomic Methods: experienced in identifying marine fishes and invertebrates (epipelagic, mesopelagic, and nearshore) from tropical and temperate regions. Most experienced in the western Atlantic Ocean (Brazil through United States including Caribbean Sea and Gulf of Mexico) and the central Pacific Ocean (primarily the Hawaiian Islands). Also experienced in identification of North American reptiles, amphibians, and freshwater fishes.

Software: ArcView GIS with Animal Movements and Spatial Analyst Extensions, Excel, Minitab, S-plus, Word, Ecological Methodology, Estimate-S, Irfanview, Photoshop, Acrobat, Windows applications, GIMP, Igor-Pro

Photography: underwater and terrestrial, 35mm and digital, macro and telephoto

Other: SCUBA (NAUI Certified), Vessel operation (to 10 meters, limited experience to 20 meters), fork lift operation (propane, electric, and gasoline), museum specimen preservation, aquaria setup and maintenance, basic carpentry and plumbing

**References:**

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