

COLLEGE OF WILLIAM AND MARY  
*Curriculum Vita Standard Format*

**PERSONAL INFORMATION**

1. Name: **John A. Musick**

Date: 12 July 2005

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College of William and Mary, Gloucester Point, VA 23062

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2. Position: Marshall Acuff Professor of Marine Science, Head, Vertebrate Ecology and Systematics Program, Department of Fisheries Science

**EDUCATION**

3. B.A.	Rutgers University	1962
M.A.	Harvard University	1964
Ph.D.	Harvard University	1969

**ACADEMIC POSITIONS**

4. 2000- Present Adjunct Graduate Faculty: School of Fisheries, Animal and Veterinary Science, University of Rhode Island  
1999-Present: Marshall Acuff Chair in Marine Science, College of William and Mary.  
1981 to 1999: Professor of Marine Science, Head, Vertebrate Ecology and Systematics Programs, College of William and Mary, Virginia Institute of Marine Science. Gloucester Point, Virginia.  
1971-1978: Scientific Collaborator. U.S. Park Service, Cape Hatteras National Seashore.  
1979-1980: Associate Professor of Marine Science, College of William and Mary.  
1969-1979: Assistant Professor of Marine Science, University of Virginia.  
1968-1969: Instructor in Marine Science, College of William and Mary.

**HONORS, PRIZES AND AWARDS**

5. 2002, Excellence in Fisheries Education Award, American Fisheries Society.  
2001, Outstanding Faculty Award, State Council on Higher Education in Virginia  
2000, Distinguished Service Award, American Fisheries Society "You are recognized for your contributions toward providing understanding of the risks to long-lived marine fish species. The importance and timeliness of your contributions are bringing important new visibility and exposure to AFS, reinforcing the Society's relevance in conserving valuable marine resources."  
2000, Distinguished Researcher Award, School of Marine Science, College of William and Mary  
1999, Marshall Acuff Chair in Marine Science, College of William and Mary.  
1997, Thomas Ashley Graves Award for Sustained Excellence in Teaching, College of William and Mary.  
1994, 1995 Nominee PEW Fellows Program in Conservation and the Environment.  
1992, Conservationist of the Year Award from Virginia Beach Anglers Club.  
1991, American Elasmobranch Society Distinguished Service and Leadership Award.  
1989, Elected National Fellow, Explorers Club, New York.

1985, Elected Fellow, American Association for the Advancement of Science, "For contributions to ecology and zoogeography of marine vertebrates, conservation of endangered species, and graduate education in marine science."

## ACADEMIC CONTRIBUTIONS

### 6a. Courses taught

- MS 666: Ichthyology, 5 credits, instructor: 2004 and every year since 1970.
- MS 664: Conservation Biology, contribution lecturer, 2000-2004.
- MS 698: Deep Sea Biology, contribution lecturer, 2000-present.
- MS 501: Core Course Marine Science Fundamentals, contribution lecturer, 2001
- MS 618: Marine Fisheries Science, 3 credits, team taught: 1992-present.
- MS 5\_\_ : Numerous graduate problems and topics courses since 1969.
- MS 6\_\_ : Numerous graduate problems and topics courses since 1969.
- MS 6\_\_ : Advanced Biological Oceanography, 3 credits: 1971-81 (alternate years); (no longer offered).

### 6b. Students Mentored (SMS/VIMS rev)

#### 1. Major Advisor

**M.A.:** **Currently enrolled:** M. Fagan, L. Pace, J. Smith, **Graduated:** J. Romine, 2004; W. Dowd, 2003; J. Ellis, 2003; E. Seney, 2003; R. Pemberton, 2000; C. Conrath, 2000; R. Kraus, 1998; W. Jones, 1997; M. Terwilliger, 1996; L. Ayres, 1995; S. Moein, 1994; H. Banford, 1993; M. Rybitski, 1993; J. Brown, 1991; S. Bellmund, 1988; R. Klinger, 1988; R. Siegfried, 1988; B. Bowen, 1987; M. Armstrong, 1987; G. Delaney, 1986; S. Smith, 1986; T. Sminkey, 1986; J. Hoff, 1985; G. van Housen, 1984; M. Nammack, 1982; M. Lutcavage, 1981; J. Gartner, 1980; R. Middleton, 1979; E. Lawler, 1976; D. Byrne, 1976; G. Sedberry, 1975; C. Cooke, 1974; L. Pushee, 1973; C. Wenner, 1972; D. Markle, 1972; M. Haines, 1971.

**Ph.D.:** **Currently enrolled:** J. Romine, A. Horodysky (co-chair), C. Cotton, D. Portnoy, P. Mcgraph, T. Gedamke (co-chair), V. Saba, C. Conrath, D. Ha, R. Pemberton, K. Mansfield. **Graduated:** K. Goldman, 2002; D. Grubbs, 2001; T. Orrell, 2000; S. Bartol, 1999; W. Coles, 1999; H. Banford, 1998; J. Gelsleichter, 1998; D. Nelson, 1996; J. Desfosse, 1995; L. Daniel (co-chair), 1995; E. Grogan, 1994; E. Heist, 1994; T. Sminkey, 1994; R. Teixeira, 1994; C. Tabit, 1993; J. Keinath, 1993; D. Hata, 1993; C. Baldwin, 1992; J. Ferreira, 1991; J. Luo, 1991; C. Monterio-Neto, 1990; R. Byles, 1988; S. Szedlmayer, 1988; R. Middleton, 1986; T. Munroe, 1986; J. Colvocoresses, 1985; R. Rosa, 1985; M. Anderson, 1984; H. Carter, 1984; R. Crabtree, 1984; W. Raschi, 1984; K. Sulak (co-chair, Un. of Miami), 1982; G. Sedberry, 1980; L. Mercer, 1978; C. Wenner, 1978; L. Chao, 1976; D. Markle, 1976; K. Able, 1974; J. McEachran, 1973.

#### 2. Student Committee Service

M.A.: Too numerous to mention

Ph.D.: Too numerous to mention

## FELLOWSHIPS AND GRANTS

7a) All fellowships, grants, contracts, etc., awarded by outside agencies. Specify dates, sources, and amounts (Last two years only)

Award Year	Grant/Contract Title	Funding Agency	Level of Funding	Disposition*	Status	Your
05	Loggerhead Sea Turtle Diving Behavior	Army Corps	\$63,194	funded	PI	
05	Loggerhead Sea turtle Behavior and Population Estimates in Virginia	NOAA	\$34,675.	funded	PI	
04	"EPA STAR Fellowship-Katherine Mansfield"	EPA	\$9,854.	funded	PI	

04	“A delineation of winter nursery grounds, migratory patterns, and critical habitat of juvenile sandbar	NOAA/SK	\$186,939.	funded	PI
04	“Essential Fish Habitat of Juvenile Atlantic Sturgeon, <i>Acipenser oyrinchus</i> in Virginia”	CMER/NOAA	\$30,838.	funded	PI
04	“Loggerhead ( <i>Caretta caretta</i> ) Sea Turtle Behavior and Population Estimates in Virginia”	CMER/NOAA	\$28,803	funded	PI
04	“Black Sea Bass <i>Centropristis striata</i> Biology and Population Dynamics”	CMER/NOAA	\$23,731	funded	PI
04	“Loggerhead Sea Turtle Diving Behavior”	ARMY CORPS	\$70,335	funded	PI
04	“Technical Manual for the Management of Elasmobranch”	APEC	\$58,000	funded	PI
04	“Essential Fish Habitat of Atlantic Sturgeon <i>Acipenser oxyrinchus</i> in the Southern Chesapeake Bay”	NOAA/NMFS	\$39,283	funded	PI
04	“Determination of Which Pot Designs Reduce the Risk of Entangling Sea Turtles, and their Relative Efficacy at Capturing Targeted Whelk Species”	CMER/NOAA	\$47,325	funded	PI
04	“Life History, Essential Habitat and Stock Assessment of Highly Migratory Sharks and Other Elasmobranchs in	NOAA/NMFS	\$412,214	funded	PI

**TOTAL** \$1,008,191

## RESEARCH

8. Scholarly activity under the following separate headings with full bibliographic data (include page numbers):  
a) refereed publications in periodicals, chapters in books, law review articles and conference proceedings

Goldman, K. J. and J. A. Musick (In Press). Biology of the Salmon Shark, *Lamna ditropis*. In: Sharks of the Open Ocean. E. K. Pikitch and M. Camhi (eds.) Blackwell Scientific.

Grubbs, R.D. and J.A. Musick (In Press). Spatial delineation of summer nursery areas for juvenile sandbar sharks, *Carcharhinus plumbeus*, in the Mid-Atlantic Bight. American Fisheries Society. Bethesda, MD.

Grubbs, R.D. and J.A. Musick C. L. Conrath, and J. G. Romine. (In Press). Long-term movements, migration, and temporal delineation of summer nurseries for juvenile *Carcharhinus plumbeus*, in the Chesapeake Bay region. American Fisheries Society. Bethesda, MD.

Musick, J. A. . Sandbar Shark, (In Press). *Carcharhinus plumbeus*. In: Fowler, S.L., M. Camhi, G. Burgess, S. Fordham and J. Musick (eds). Sharks, rays and chimaeras: the status of the chondrichthian fishes. IUCN/SSG Shark Specialist Group. IUCN, Gland Switzerland, and Cambridge, UK.

- Bowen, B.W., A.L. Bass, S.M. Chow, M. Bostrom, K.A. Bjorndal, A.B. Bolten, T. Okuyama, B.M. Bolker, S. Epperly, E. Casella, D. Shaver, M. Dodd, S.R. Hopkins-Murphy, J.A. Musick, M. Swingle, K. Rankin-Baransky, W. Teas, W.N. Witzell, and P.H. Dutton. 2004. Natal homing in juvenile loggerhead turtles (*Caretta caretta*) *Molecular Ecology* 13: 3797-3808.
- Gedamke, T., W.D. DuPaul, and J.A. Musick. 2004. Observations on the life History of the Barndoor Skate, *Dipturus laevis* on Georges Bank (Western North Atlantic) e-journal Northwest Atlantic Fisheries. <http://journal.nafo.int/35/35.html>
- Goldman, K.J., S.D. Anderson, R.J. Latour, J.A. Musick, 2004, Homeothermy in adult salmon sharks, *Lamna ditropis*, *Environmental Biology of Fishes* 71, 403-411.
- Kulka, D.W., J.A. Musick, M.G. Pawson and T.I Walker. 2004. Report of Symposium. Elasmobranch Fisheries: Managing for Sustainable use and Biodiversity Conservation. e-journal Northwest Atlantic Fishery Science. Vol 35: <http://journal.nafo.int/35/35.html>
- Musick, J.A. 2004, Management of Sharks and Their Relatives (Elasmobranchii). Chapter 1 pp.1-8. *In: Elasmobranch Fisheries Management Techniques*. J. Musick and R. Bonfil, Asia Pacific Economic Cooperation. Singapore: 370pp (electronic publication available at <http://www.flmnh.ufl.edu/fish/organizations/ssg/EFMT/1.pdf>
- Musick, J.A. 2004 Shark Utilization. Chapter 14 pp.223-236. *In: Elasmobranch Fisheries Management Techniques*. J. Musick and R. Bonfil, Asia Pacific Economic Cooperation. Singapore: 370 pp. (electronic publication available at <http://www.flmnh.ufl.edu/fish/organizations/ssg/EFMT/14.pdf>
- Musick, J.A., M.M. Harbin, L.J.V. Compagno. 2004. Historical Zoogeography of the Selachii Chp.2, pp 33-78. *In: Biology of Sharks and their relatives*. J. Carrier, J.A. Musick. And M. Heithaus, eds. CRC Press.
- Musick, J.A. and J.K. Ellis. 2004. Constraints on Sustainable Marine Fisheries: A Look at the Record. pp. 45-66. *In: Sustainable Management of North American Fisheries*. Knudsen, E.E., D.D. MacDonald, and Y.K. Muirhead, eds. American Fisheries Society, Bethesda, MD.
- Musick, J.A. 2003. Sea Turtles. *In: The living marine resources of the Western Central Atlantic*. Vol. 3: Bony fishes part 2 (Opisthognathidae to Molidae), sea turtles and marine mammals. K.E. Carpenter (ed.) FAO Species Identification Guide for Fishery Purposes and American Society of Ichthyologists and Herpetologists Special Publication No. 5. Rome, FAO. pp. 1426-1468.
- Bartol, S.M. and J.A. Musick. 2003. Sensory Biology of Sea Turtles. pp. 79-102 *In: The Biology of Sea Turtles*, Vol. II. P.L. Lutz, J.A. Musick, and J. Wyneken, eds. CRC Press, Boca Raton, FL.
- Musick, J. A. 2002. Sturgeons. Order Acipenseridae. pp. 83-88. *In: Fishes of the Gulf of Maine*. B. B. Collette, (ed.) Smithsonian Institution Press, Washington, DC.
- Conrath, C. L. and J. A. Musick. 2002. Reproductive Biology of the smooth dogfish, *Mustelus canis*, in the northwestern Atlantic Ocean. *Environ. Biol. Fishes* 64: 367-377.
- Hamlett, W.C., J.A. Musick, C.K. Hysell and D.M. Sever. 2002. Uterine Epithelial Sperm Interaction, Endometrial Cycle and Sperm Storage in the Terminal Zone of the Oviducal Gland in the Placental Smoothhound, *Mustelus canis*. *Journal of Experimental Zoology* 292: 129-144.
- Morgan, Lee W., J. A. Musick and C.W. Potter. 2002. Temporal and geographic occurrences of cetacean strandings and manatee sightings in Virginia, with notes on adverse human-cetacean interactions, from 1983-1989. *Journal of the North Carolina Academy of Science* 118:12-26.
- Orrell, T.M., K.E. Carpenter, J.A. Musick, and J.E. Graves. 2002. Phylogenetic and Biogeographic Analysis of the Sparidae (Perciformes: Percocidae) Based on Cytochrome b Sequences. *Copeia* 3:618-631.

- Musick, J.A. 2001. Management Planning for Long-lived Species. Pp. 59-68. *In*: Proceedings of the Regional Meeting: Marine Turtle Conservation in the Wider Caribbean Region; a Dialogue for Effective Regional Management. Eckert, K. and F. A. Abreay Grobois (eds.) Santo Domingo, 16-18 November 1999. Widecast, IUCN-MTSG, WWF, UNEP-CEP. 54pp.
- Bartol, S.M. and J.A. Musick. 2001. Morphology and Topographical Organization of the Retina of Juvenile Loggerhead Sea Turtles (*Caretta caretta*). *Copeia* 3: 718-725.
- Coles, W. C. and J. A. Musick. 2001. Skeletochronology validation from a long-term recaptured adult loggerhead (*Caretta caretta*). *Copeia* 1: 240-242.
- Teixeira, R. L. and J. A. Musick. 2001. Reproduction and Food Habits of the Lined Seahorse, *Hippocampus erectus* (Teleostei: Syngnathidae) of Chesapeake Bay, Virginia. *Rev. Brasil. Biol.* 61(1): 79-90.
- Yano, K. and J. A. Musick. 2000. The effect of the mesoparasitic barnacle (*Analesma sp.*) on the development of the reproductive organs of deep-sea squaloid sharks *Centroscyllium* and *Etmopterus*. *Environ. Biol. Fishes* 59: 329-339.
- Musick, J. A. and seventeen co-authors. 2000. Marine, Estuarine, and Diadromous Fish Stocks at Risk of Extinction in North America (Exclusive of Pacific Salmonids). *Fisheries* 25 (11):6-30.
- Musick, J. A., S.A. Berkeley, G.M. Cailliet, M. Camhi, G. Huntsman, M. Nammack, and M. L. Warren, Jr. 2000. Protection of Marine Fish Stocks at Risk of Extinction. *Fisheries* 25 (3): 6-8.
- Musick, J. A., G. Burgess, G. Cailliet, M. Camhi, and S. Fordham. 2000. Management of Sharks and Their Relatives (Elasmobranchii). *Fisheries* 25 (3): 9-13.
- Coleman, F. C., C. C. Koenig, G. R. Huntsman, J. A. Musick, A. M. Eklund, J. C. McGovern, R.W. Chapman, G. R. Sedberry, and C. B. Grimes. 2000. Long-lived Reef Fishes: The Grouper-Snapper Complex. *Fisheries* 25(3): 14-21.
- Parker, S. J., S. A. Berkeley, J. T. Golden, D. R. Gunderson, J. Heifetz, M. A. Hixon, R. Larson, B. M. Leaman, M. S. Love, J. A. Musick, V. M. O'Connell, S. Ralston, H. J. Weeks, and M. M. Yoklavich. 2000. Management of Pacific Rockfish. *Fisheries* 25 (3): 22-30.
- Coles, W. C. and J. A. Musick. 2000. Satellite sea surface temperature analysis and correlation with sea turtle distribution off North Carolina. *Copeia* 2: 551-554.
- Bartol, S. M., J. A. Musick, and M. L. Lenhardt. 1999. Auditory evoked potentials of the loggerhead sea turtle (*Caretta caretta*). *Copeia*: 3: 836-840.
- Gelsleichter, J. and J. A. Musick. 1999. Effects of insulin-like growth factor-I, corticosterone, and 3,3',5-Tri-Iodo-L-Thyronine on glycosaminoglycan synthesis in vertebral cartilage of the clearnose skate, *Raja eglanteria*. *Jour. Exp. Zool.* 284:549-556.
- Gelsleichter, J., J. A. Musick, and S. Nichols. 1999. Food habits of the smooth dogfish, *Mustelus canis*, dusky shark, *Carcharhinus obscurus*, Atlantic sharpnose shark, *Rhizoprionodon terraenovae*, and the sand tiger, *Carcharias taurus*, from the northwest Atlantic Ocean. *Env. Biol. Fish.* 54: 205-217.

- Musick, J. A. 1999. Ecology and conservation of long-lived marine animals. pp. 1-10. *In*: J. A. Musick. (ed.) Life in the Slow Lane: Ecology and Conservation of Long-Lived Marine Animals. American Fisheries Society Symposium 23, Bethesda, MD.
- Musick, J. A. 1999. Criteria to Define Extinction Risk in Marine Fishes. *Fisheries* 24(12): 6-13.
- Musick, J. A. 1999. Part Two: Essential Fish Habitat Identification. pp. 41-42. *In*: R. E. Banaka, (ed.) Essential Fish Habitat and Rehabilitation. American Fisheries Society
- Camhi, M., S. L. Fowler, J. A. Musick, A. Bräutigam, and S. V. Fordham. 1998. Sharks and their relatives, Ecology and Conservation. Occasional Paper of the IUCN Species Survival Commission No. 20, Gland, Switzerland and Cambridge, UK. iv + 44 pp.
- Camhi, M. and J. A. Musick. 1998. Sharks on the line. *Current, The J. Mar. Education* 14(4):16-21.
- Gelsleichter, J., E. Cortés, C. A. Manire, R. E. Hueter, and J. A. Musick. 1998. Evaluation of toxicity of oxytetracycline on growth of captive nurse sharks, *Ginglymostoma cirratum*. *Fishery Bulletin* 96:624-627.
- Gelsleichter, J., A. Piercy, and J. A. Musick. 1998. Evaluation of copper and lead substitution techniques in elasmobranch age determinations. *J. Fish. Biol.* 53:465-470.
- Musick, J. A. 1998. Endangered Marine Fishes: Criteria and Identification of North American Stocks at Risk. *Fisheries* 23(2):28-30.
- Musick, J. A. 1997. Restoring stocks at risk. *Fisheries* 22(7):31-32.
- Gelsleichter, J., E. Cortés, C. A. Manire, R. E. Hueter, and J. A. Musick. 1997. Use of calcein as a fluorescent marker for elasmobranch vertebral cartilage. *Trans. Amer. Fish. Soc.* 126(5):862-865.
- Chaloupka, M. and J. A. Musick. 1997. Age, growth and population dynamics of sea turtles. Chapter 9, pp. 233-279. *In*: Biology of Sea Turtles. P. Lutz and J. A. Musick, eds. CRC Press. Boca Raton: 412 pp.
- Musick, J. A. and C. J. Limpus. 1997. Habitat utilization and migration in juvenile sea turtles. Chapter 6, pp. 139-165. *In*: Biology of Sea Turtles. P. Lutz and J. A. Musick, eds. CRC Press: 412 pp.
- Armstrong, M. P., J. A. Musick and J. A. Colvocoresses. 1996. Food and ontogenetic shifts in feeding of the goosefish, *Lophius americanus*. *J. Northw. Atl. Fish. Sci.*, (18):99-103.
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- Hamlett, W. C., J. A. Musick, A. M. Eulitt, R. L. Jarrell and M. A. Kelly. 1996b. Ultrastructure of fetal alimentary organs: stomach and spiral intestine in the southern stingray, *Dasyatis americana*. *Can. J. Zool.* 74:1431-1443.
- Heist, E., J. A. Musick and J. E. Graves. 1996. Genetic population structure of the shortfin mako (*Isurus oxyrinchus*) inferred from restriction fragment length polymorphism analysis of mitochondrial DNA. *Can. J. of Fish & Aquat. Sci.* 53:583-588.
- Heist, E., J. A. Musick and J. E. Graves. 1996. Mitochondrial DNA diversity and divergence

- among sharpnose sharks *Rhizoprionodon terraenovae* from the Gulf of Mexico and mid-Atlantic Bight. Fish. Bull. 94:664-668.
- Musick, J. A., J. C. Defosse, S. Wilk, D. McMillan and E. Grogan. 1996. Historical comparison of the structure of demersal fish communities near a deep-sea disposal site in the western North Atlantic. J. Mar. Environ. Eng. (3):149-171.
- Sminkey, T. R. and J. A. Musick. 1996. Demographic analysis of sandbar shark, *Carcharhinus plumbeus*, in the western North Atlantic. Fishery Bulletin. 94:341-347.
- Gelsleichter, J., J. A. Musick and P. Van Veld. 1995. Proteoglycans from the vertebral cartilage of the clearnose skate, *Raja eglanteria*. Inhibition of hydroxyapatite formation *in vitro*. Fish Physiology and Biochemistry 14(3):247-251.
- Heist, E., J. Graves and J. A. Musick. 1995. Population genetics of the sandbar shark (*Carcharhinus plumbeus*) in the Gulf of Mexico and mid-Atlantic Bight. Copeia (3):555-562.
- Klinger, R. C. and J. A. Musick. 1995. Age and growth of loggerhead turtles (*Caretta caretta*) from Chesapeake Bay. Copeia (1):204-209.
- Rybitski, M. J. R. Hale and J. A. Musick. 1995. Distribution of organochlorine pollutants in Atlantic sea turtles. Copeia (2):379-390.
- Sminkey, T. R. and J. A. Musick. 1995. Age and growth of the sandbar shark, *Carcharhinus plumbeus*, before and after population depletion. Copeia (4):871-883.
- Teixeira, R. L. and J. A. Musick. 1995. Trophic ecology of the congeneric pipe fishes (*Symgnathidne*) of the lower York River, Virginia. Environ. Biol. Fish. 43:295-309.
- Branstetter, S. and J. A. Musick. 1994. Age and Growth Estimates for the Sand Tiger in the Northwestern Atlantic Ocean. Transactions of the American Fisheries Society 123: 242-254.
- Monterio-Neto, C. and J. A. Musick. 1994. Effects of beach seine size on the assessment of surf-zone fish communities. Atlantica 16:23-29.
- Morgan, L., J. A. Musick, and C. Potter. 1994. Temporal and geographic occurrences of *Tursiops truncatus* strandings in Virginia, 1983-1989. pp. 41-44. In: Coastal Stocks of Atlantic Bottlenose Dolphin: Status Review and Management. NOAA Tech. Mem. NMFS-OPR-4.
- Viera, J. and J. A. Musick. 1994. Fish faunal composition in warm-temperate and tropical estuaries of western Atlantic. Atlantica. 16:31-53.
- Musick, J. A., R. Jenkins and N. Burkhead. 1993. The Sturgeons (Acipenseridae). pp. 183 to 190. In: The Freshwater Fish of Virginia. R. E. Jenkins and N. Burkhead, eds., American Fisheries Society, Washington, DC. 1079 pp.
- Musick, J. A., S. Branstetter and J. A. Colvocoresses. 1993. Trends in shark abundance from 1974-1991 for the Chesapeake Bight of the U.S. Mid-Atlantic Coast. NOAA Tech. Rep. NMFS.115:1-18.
- Branstetter, S. and J.A. Musick. 1993. Comparisons of Shark Catch Rates on Longlines Using Rope/Steel (Yankee) and Monofilament Gangions. Mar Fish Rev 55(3): 4-9.
- Keinath, J. A. and J. A. Musick. 1993. Internesting movements and behavior of a leatherback turtle, *Dermochelys coriacea*. Copeia. 4:1010-1017.

- Swingle, N. W., D. I. Warmolts, J. A. Keinath and J. A. Musick. 1993. Exceptional growth rates of captive loggerhead sea turtles, *Caretta caretta*. *Zoo Biology* 12:491-497.
- Vieira, J. P. and J. A. Musick. 1993. Latitudinal patterns in diversity of fishes in temperate and tropical estuarine waters of the western Atlantic. *Atlántica*. 15:115-133.
- Armstrong, M. P., J. A. Musick, and J. A. Colvocoresses. 1992. Age, growth, and reproduction of the goosefish *Lophius americanus* (Pisces: Lophiiformes). *Fish. Bull.* 90(2):217-230.
- Klinger, R.C. and J. A. Musick. 1992. Annular Growth Layers in Juvenile Loggerhead Turtles (*Caretta caretta*) *Bull. Of Mar. Sci.*51(2): 224-230.
- Yano, K. and J. A. Musick. 1992. Comparison of morphometrics of Atlantic and Pacific specimens of the false catshark, *Pseudotriakis microdon*, with notes on stomach contents. *Copeia* (3):877-886.
- Crabtree, R., J. Carter and J. A. Musick. 1991. Comparative feeding ecology of temperate and tropical deep-sea fishes from the western North Atlantic. *Deep Sea Research* 38(10):1277-1298.
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- Keinath, J. A. and J. A. Musick. 1991. Atlantic green turtle. pp. 448-450. *In*: K. Terwilliger (coordinator), *Endangered and Threatened Species in Virginia*. McDonald Woodward Pub. Co., Blacksburg, VA.
- Keinath, J. A. and J. A. Musick. 1991. Atlantic hawksbill turtle. p. 450-451. *In*: K. Terwilliger (coordinator), *Endangered and Threatened Species in Virginia*. McDonald Woodward Pub. Co., Blacksburg, VA.
- Keinath, J. A. and J. A. Musick. 1991. Kemp's ridley turtle. p. 451-453. *In*: K. Terwilliger (coordinator), *Endangered and Threatened Species in Virginia*. McDonald Woodward Pub. Co., Blacksburg, VA.
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- Keinath, J. A., J. A. Musick, and W. M. Swingle. 1991. First verified record of the Hawksbill Sea Turtle (*Eretmochelys imbricata*) in Virginia waters. *Catesbeiana* 11(2):35-38.
- Luo, J. and J. A. Musick. 1991. Growth and reproduction of the bay anchovy in Chesapeake Bay. *Trans. Amer. Fish. Soc.* 120(6):701-710.
- Hoff, T. B. and J. A. Musick. 1990. Western North Atlantic Shark-Fishery Management Problems and Informational Requirements. pp. 455-472. *In*: *Elasmobranchs as Living Resources: Advances in the Biology, Ecology, Systematics, and the Status of the Fisheries* (H. L. Pratt, Jr., S. H. Gruber and T. Taniuchi, eds.). NOAA Technical Report 90.
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c) edited volumes

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Kulka, D.W., J.A. Musick, M.G. Pawson, and T.I. Walker. (eds.) 2004. Proceedings of Symposium. Elasmobranch Fisheries: Managing for Sustainable use and Biodiversity Conservation. e-journal Northwest Atlantic Fishery Science. Vol 35: <http://journal.nafo.int/35/35.html>

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Lutz, P.L., J.A. Musick and J. Wyneken. 2003. The Biology of Sea Turtles, Volume II. CRC Press, Boca Raton, FL: 455 pp.

Musick, J. A. 1999. The ecology and conservation of long-lived marine animals. American Fisheries Society Spec. Publ.: 265 pp.

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d) selected articles published in non-refereed conference proceedings

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Lenhardt, M., S. Moein and J. Musick. 1996. A method for determining hearing thresholds in marine turtles. pp. 160-161. *In*: Keinath, et al., Proc. of the Fifteenth Annual Symposium on Sea Turtle Biology and Conservation. NOAA Tech. Mem., NMFS-SEFSC-387: 355 pp.

Moein, S. E., J. A. Keinath, D. E. Barnard and J. A. Musick. 1996. How long does it take released turtles to reacclimate? pp. 209-210. *In*: Keinath, et al., Proc. of the Fifteenth Annual Symposium on Sea Turtle Biology and Conservation. NOAA Tech. Mem., NMFS-SEFSC-387: 355 pp.

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- Jones, B. and J. A. Musick. 1989. Loggerhead hatching success rates in Virginia, 1985-87. pp. 243-245. *In: Proc. Ninth Ann. Workshop on Sea Turtle Conservation and Biology. NOAA Tech. Mem. NMFS-SEFC-232.*
- Keinath, J. A., R. A. Byles and J. A. Musick. 1989. Satellite telemetry of loggerhead turtles in the western north Atlantic. pp. 75-76. *In: Proc. Ninth Ann. Workshop on Sea Turtle Conservation and Biology. NOAA Tech. Mem. NMFS-SEFC-232.*
- Barnard, D. E., J. A. Keinath, and J. A. Musick. 1989. Distribution of ridley, green and leatherback turtles in Chesapeake Bay and adjacent waters. pp. 201-204. *In: Proc. Ninth Ann. Workshop on Sea Turtle Conservation and Biology. NOAA Tech. Mem. NMFS-SEFC-232.*
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- Musick, J. A. 1976. Community structure of fishes on the continental slope and rise off the middle Atlantic coast of the U.S. (Abstr.). *Proc. Joint Oceanographic Assembly. Roy. Soc. Edinburgh.*
- e) scholarly papers and talks (most recent years) In the last two years Dr. Musick has presented 8 papers and talks at International and National Scientific meetings.
- Jan 2003 Washington, DC., Explorers's Club. Shark Ecology and Conservation.
- Jun 2003 Manaus, Brazil. American Society of Ichthyologists and Herpetologists/American Elasmobranch Society Joint Annual Meeting. Zoogeography of the Selachii.
- Nov 2003 Norfolk, VA., Hampton University. Shark Ecology and Conservation.
- Dec 2003 Dunedin, New Zealand. FAO International Deep-Sea Shark Workshop. Bathymetric Limits of Shark Distribution in the Deep-sea.
- Mar 2004 Jackson State University. Jackson Miss. Shark Ecology.
- May 2004 American Society of Ichthyologists and Herpetologists/American Elasmobranch Society Joint Annual Meeting Norman Oklahoma . Evolution of Reproductive Modes the Chondrichthians. (Presented in absentia, by T. Munroe because of health problem)

Jun 2004 Sarasota Florida: Mote Laboratory. Regional Workshop for IUCN Shark Specialist's group. Chair and Speaker. Criteria for Assessing extinction risk in Chondrichthians.

Nov 2004 Williamsburg, Va. Kimbal Theater Public lecture (for Maritime Museum). Shark Attack (Scientific comments on the film "Open Water").

f) selected unrefereed publications not listed above

Musick, J.A. 2001. Shark Attack in Virginia: A Report to the Governor's Task Force. VA Marine Resource Report No. 2001-14.

Musick, J. A. 1995. Critically endangered large coastal sharks, a case study: the sandbar shark, *Carcharhinus plumbeus*. Shark News, Newsletter of the IUCN Shark Specialist Group, October 1995:6-7.

Terwilliger, K. and J. A. Musick (Co-chairs), Virginia Sea Turtle and Marine Mammal Conservation Team. 1995. Management plan for sea turtles and marine mammals in Virginia. Final report to the National Oceanic and Atmospheric Administration. 56 pp.

Educational Series:

Musick, J. A. 1988. The Sea Turtles of Virginia with Notes on Identification and Natural History. VA Inst. Mar. Sci., Educational Series 24, 22 pp, Gloucester Pt., VA.

Musick, J. A. 1979. The Marine Turtles of Virginia, (Families Cheloniidae and Dermochelyidae) with Notes on Identification and Natural History. VA Inst. Mar. Sci., Educational Series 24, 16 pp, Gloucester Pt., VA.

Special Reports in Applied Marine Science and Ocean Engineering (SRAMSOE):

Raschi, W. G. and J. A. Musick. 1984. Hydrodynamic aspects of shark scales. VA Inst. Mar. Sci., SRAMSOE 272: 82pp.

Colvocoresses, J. A. and J. A. Musick. 1980. A preliminary evaluation of the potential for a shark fishery in Virginia. VA Inst. Mar. Sci., SRAMSOE 234: 39 pp.

Colvocoresses, J. A. and J. A. Musick. 1979. Historical community structure of finfishes. Chap. 10, Sec. II: NMFS Groundfish Survey. VA Inst. Mar. Sci., SRAMSOE 198:10-45 to 10-78.

Foell, E. J. and J. A. Musick. 1979. Community structure analysis and food habits of fishes. Sec. II: community structure analysis of fishes. VA Inst. Mar. Sci., SRAMSOE 179:9-81 to 9-127.

Musick, J. A. 1979. Historical community structure analysis of finfishes. Sec. III: a summary of the Mid-Atlantic outer continental shelf -- A concise source document for resource managers and users. VA Inst. Mar. Sci., SRAMSOE 198:10-79 to 10-88.

Musick, J. A., J. A. Colvocoresses and E. J. Foell. 1979. Historical community structure analysis of finfishes. Chap. 10, Sec. I: Chesapeake Bight. VA Inst. Mar. Sci., SRAMSOE 198:10-1-10-44.

Sedberry, G. R. and J. A. Musick. 1979. Community structure analysis and food habits of

fishes. Sec. I: food habits of fishes. VA Inst. Mar. Sci., SRAMSOE 197:9-1 to 9-80.

k) research reports from grant or contract work

Too numerous to mention

## PROFESSIONAL SERVICE

### 9. Professional Service Activities

#### a) college committee service

Faculty Council, 1992-present

Educational Policy Committee, 2000-present

Chair, Search Committee for Eminent Scholar and Chancellor Professor, 2000

Director's special Ad Hoc Committee to review ethical misconduct of faculty members, 1999

VIMS Five-year Review Committee on the Core Programs, 1999

VIMS Five-year Review Committee on Advisory Services, 1999

VIMS Five-year Review Retreat: Fisheries Science Department Representative (Chaired two working groups), 1999

Search Committee for Director of Planning and Budget, 1996

Fisheries Science Building Committee, 1995-1996

Admissions Committee, 1994-1995

Nunnally Hall Building Committee, 1993-1994

Comprehensive Examining Committee, 1990-91

Academic Advisory Committee, 1990

Chairman, William and Mary Self Study Committee for Graduate Studies, 1984

Visiting Scientist Committee, 1985-93

Faculty Advisory Committee, 1981-92

Academic Status and Degrees, 1981-84

#### b) service to agencies of the Commonwealth or the Federal Government and International Agencies

Jan 2004 - present ASMFC. Endangered Species Committee

Jan 2002 - present - NMFS/USFWS Recovery Team for Loggerhead Sea Turtles

April 1999-present; ASMFC Scientific Technical Committee for Shark Management

Jan 1997-present; Mid-Atlantic Fisheries Management Council Scientific Advisory Committee for Summer Flounder, Scup and Black Sea Bass.

Dec 1997-present; MAFMC Dogfish Advisory Committee.

June 1997-present; Co-chair, International Union for the Conservation of Nature (IUCN), Species Survival Commission, Shark Specialist Group.

June 1997-present; Virginia State Coordinator for Essential Fish Habitat Issues (VMRC, NMFS, MAFMC).

July 1996-present; ASMFC Sturgeon Technical Committee

Jan 1996-present; Member of Virginia Game and Inland Fisheries Reptile and Amphibian Endangered Species Committee.

Jan. 1996-present; Member of VIGIF Endangered Fishes Committee.

Jan. 1995-present; USFWS Atlantic Sturgeon Advisory Committee for Chesapeake Bay.

Jan. 1995-2003; USFWS Scientific Advisory Committee for the Shortnose Sturgeon Recovery Plan.

May 1994-present; NOAA/NMFS. Select Scientific Advisory Panel for Shark Management.

June 1990-present; International Union for the Conservation of Nature (IUCN), Species Survival Commission, Marine Turtle Specialist Group, member.

September 1987-present; Ad-hoc advisor to Virginia Marine Resources Commission on Marine Fisheries Management

October 1986-present; Mid-Atlantic Fisheries Management Council Scientific Advisory Committee for Shark Management

May 1979-present; National Marine Fisheries Service Sea Turtle Stranding Network, Regional Coordinator for Virginia.

Sep 2001- Jan 2002 - Governor's Task Force on Shark Attack

June 2000- 2001; NMFS Review Panel for proposed Endangered Status of smalltooth sawfish.

Apr 2001- NOAA/NMFS. Annual Review Panel (reviewed programs and budgets for 2002-2007)

Mar 2000- NOAA/NMFS. Annual Review Panel (reviewed programs and budgets for 2001-2005)

June 1997; International Union for the Conservation of Nature (IUCN), Delegate Convention on International Trade to Endangered Species (CITES), Harare, Zimbabwe.

July 1996-1997; ASMFC Science and Management Committee.

September 1991-1996; International Union for the Conservation of Nature (IUCN), Species Survival Commission, Shark Specialist Group, member.

June 1991-1996; Mid-Atlantic Fisheries Management Council Scientific Advisory Committee for Scup and Black Seabass.

May 1989-1994; Coelacanth Conservation Council, Board of Directors. (Successfully petitioned CITES to list *Latimeria chalumnae* under Appendix 1).

December 1988-1992; Chesapeake Bay Stock Assessment Committee. Technical Representative for Virginia.

June 1987-1992; NMFS Marine Mammal Stranding Coordinator for Virginia.

January-December 1980; Office of Naval Research. Select panel for determining vessel requirements for nekton sampling in the 1980's.

September 1979-1980; National Science Foundation. Review Panel for Oceanographic Facilities Support.

April 1979-1988; Chairman, ASMFC State/Federal Scientific and Statistics Committee on Summer Flounder.

August 1977-1978; National Science Foundation. Review Panel for Oceanographic Facilities Support.

January 1977-January 1978; National Science Foundation, Proposal Review Panel for Biological Oceanography.

June 1976-1993; Smithsonian Sorting Center Committee on Fishes.

January 1976-February 1977; National Science Foundation ad hoc Committee for design of coastal research vessels.

c) service to private organizations

Have presented numerous talks to recreational fishing associations, Audubon Society, Center for Marine Conservation, etc.

d) professional service

American Fisheries Society; member 1961-present; Endangered Species Committee, 1994-2002; Chair, Endangered Marine Fishes Committee, 1996-present.

American Association for the Advancement of Science; member 1967-present; Elected Fellow, 1985.

American Elasmobranch Society; Board of Directors, 2000-2005, 1985-1996; President-elect, 1990; President, 1991; Annual Meeting Chair, 1992; Chair, Conservation Committee, 1994-present.

American Society of Ichthyologists and Herpetologists; member 1962-present, Annual Meeting Chair, 1975; Board of Governors, 1975-76; Endangered Species Committee, 1994-present.

Atlantic Estuarine Research Society; member 1968-present.

Ecological Society of America; member 1967-present.

Fifth International Fisheries Congress, Editorial Board: 2004-2005.

International Sea Turtle Society; Board of Directors, Feb 1991-2000; President-elect, Feb 1993-94; President, Feb 1994-95; Annual Meeting Chair, 1995.

Reviews in Fish Biology and Fisheries; Editorial Board, 1999-present.

Society for Conservation Biology; member 1987-present.  
Southeastern Fishes Council; member 1975-present.