

JOHN MARK DEAN

EDUCATION

Cornell College, Mount Vernon, Iowa, B.A., Biology, 1958.

Purdue University, West Lafayette, Indiana, M.S., Biological Sciences (Ecology), 1960.

Purdue University, West Lafayette, Indiana, Ph.D., Biological Sciences (Ecology), 1962.

Research Associate, Duke University Marine Laboratory, Beaufort, North Carolina, Post-doctorate, 1962-1963.

RESEARCH INTERESTS

Coastal Resource Management, Ecology of Coastal Ecosystems, Fisheries Ecology, Age and Growth of Fishes, Marine Science and Public Policy

PROFESSIONAL EXPERIENCE

EMPLOYMENT HISTORY:

Aquatic Biologist, Stream Pollution Control Section, Indiana State Board of Health, Summers of 1960, 1961, and 1962.

Research Scientist, Biology Department, Hanford Laboratories, General Electric Company, 1963-1964.

Senior Research Scientist, Biology Department, Battelle Memorial Institute, Pacific Northwest Laboratory, Richland, Washington, 1964-1970.

Group Leader, Temperature Effects Studies, 1967-1970.

Field Study Leader, Freshwater Ecology Program, Sea Level Canal Studies, Panama and Colombia, 1967-1968.

Adjunct Assistant Professor, College of Oceanography, Oregon State University, Corvallis, Oregon, 1967-1970.

Adjunct Assistant Professor, Department of Zoology, University of Washington, Seattle, Washington, 1968-1970.

Associate Professor, Marine Science Program and Biology Department, University of South Carolina, Columbia, South Carolina, 1970-1977.

Director, Marine Science Program, University of South Carolina, Columbia, South Carolina, 1974-1981.

University of South Carolina Coordinator for the South Carolina Sea Grant Consortium, 1981-1986.

Professor, Department of Biological Sciences and Marine Science Program, University of South Carolina, Columbia, South Carolina, 1977-present.

Director of Program Development, Belle W. Baruch Institute for Marine Biology and Coastal Research, University of South Carolina, 1990-1994.

Director, Center for Environmental Policy, Institute of Public Affairs, University of South Carolina, 1991- 1996

Graduate Studies Director, Marine Science Program, 1996-1999

Recognized in "Who's Who Among America's Teachers (Multiple Honoree) 2000

Distinguished Professor, 2001-2002

Distinguished Professor Emeritus, 2002

Senior Fellow in Science and Ocean Policy, Baruch Institute for Marine and Coastal Sciences, University of South Carolina

CONCURRENT ACTIVITIES

POSITIONS:

Member, National Coastal Resources Advisory Committee - NOAA - appointed by the Governor of South Carolina, 1983-1987.

Member, Governor's Natural Resources Education Council, 1981-1986.

Consultant, Gulf and Atlantic Fisheries Development Foundation, 1983-1985.

South Carolina Blue Ribbon Beachfront Management Committee, 1986-1987.

Director of the Natural Resource Session for Leadership South Carolina, 1980-present.

Consultant:

- The Environmental Inventory of Kiawah Island (Coastal Shores, Inc.) 1974-1975.
- South Carolina Electric and Gas Co. 1975-1978.
- Alcoa Properties 1983-1984.
- Kiawah Island Co. 1986-1987.
- Blue Marlin Seafood Kitchen Co. 1995-2001.
- Research Planning Inc. 2002.

Advisory Council - The Billfish Foundation 1986-88.

Office of Technology Assessment - Advisory Panel Coastal Effects of Offshore Energy Systems - 1974-1976.

National Research Council - NSF Predoctoral Fellowship Selection Committee, 1973-75, Chairman, 1975-1977.

South Carolina Coastal Council - Represented the Second Congressional District 1979-1983.

Member, South Atlantic Fisheries Management Council - NOAA - appointed by the Secretary of Commerce, (Chairman-Habitat Com., Billfish Comm., Sci. & Stat. Selection Comm.) 1987-1990.

National Research Council - Committee on the Role of Technology in Marine Habitat Protection and Enhancement - 1990-1994.

United States Advisory Committee to the International Commission for the Conservation of Atlantic Tunas, (ICCAT) 1992-1997, Chairman, 1992-93, 1993-94, 1994-95.

United States Advisory Committee to the International Commission for the Conservation of Atlantic Tunas, (ICCAT), Species Working Group. 1997-

South Carolina Heritage Trust Advisory Board, Appointed by the Governor, 1993-1997.

Expert Committee on Wetlands for the Edisto Basin Project of the Water Resources Division of the South Carolina Department of Natural Resources and Moderator of the Citizens Forums for the project.

Blue Ribbon Committee for the Review of the Water Resources Division of the South Carolina Department of Natural Resources 1994-95.

Chairman of the Friends of the Edisto Advisory Board, 1997-

Advisory Board for the South Carolina Water Resources Center, Strom Thurmond Institute, Clemson University, 1997-

South Atlantic Regional Fishery Management Council, Scientific and Statistics Committee, 1998-99

National Marine Fisheries Service Advisory Panel for Highly Migratory Species, 1997-2003

Advisory Board for Land, Water and Conservation Districts Division of the Department of Natural Resources, 1998-

Board Member of the Institute for Southern Studies, University of South Carolina, 1995-2002

South Atlantic Regional Fishery Management Council, 1999-2002, 2002-2005 Designee to the US Advisory Committee for the International Commission for the Conservation of Atlantic Tunas, Chair Highly Migratory Species Committee, Vice-Chair Habitat Committee, Council Representative to the US Advisory Committee for the International Commission for the Conservation of Atlantic Tunas

Research Associate, Research Planning Institute, Columbia, SC, 2003-present

GRANTS AND CONTRACTS (partial listing)

Production of fish in the old rice fields of the Santee delta. Coastal Plains Regional Commission. \$59,890. 1978-1979.

Productivity of Fishes in Impoundments. NOAA (Sea Grant). 1982-1985. \$53,341.

Age estimation of estuarine fishes. NOAA (Sea Grant). 1983. \$27,600.

Techniques for marking otoliths of young of the year striped Bass. South Carolina Wildlife and Marine Resources. \$10,675. 1986-1988.

An analysis of wetlands mitigation methods. South Carolina Water Resources Commission. 1986. \$9500.

Age estimation of Blueback Herring. South Carolina Wildlife and Marine Resources Department. 1987. \$3250.

Estimation of hatch dates for striped bass by otolith analysis. South Carolina Wildlife and Marine Resources Department. 1985-1989. \$31,500.

Bioeconomic characterization of commercial shrimp trawler by-catch landed in SC: benefits and effects. J. Dean and P. Scholz. National Marine Fisheries Service/NOAA. 1992-1993. \$62,129.

Age and growth estimation of Grass Carp. U.S. Army Corps of Engineers. 1993-1995. \$40,000.

Fish community of Francis Marion National Forest. U.S. Forest Service. 1993- 1996. \$20,000.

Analysis of fluorochromes in otoliths. SC Wildlife and Marine Resources Dept. and Virginia Dept. of Fish and Game. 1992-1994. \$10,000

Conservation and management of Tarpon in Costa Rica. Wildlife Conservation International. 1993-1994. \$25,000.

A comparative analysis of state Superfund programs. SC Hazardous Waste Management Research Fund. 1993-1995. \$74,000.

Field Research as an Introduction to the Culture of Scientific Research (DOE) 1995-1997. \$116,462

Cooperative Institute for Fisheries Molecular Biology: FISHTEC (NOAA-NMFS) 1992- 1995. \$410,000 (USC portion= \$225,000/yr)

International Fishery Management Policies and Practices (Dept. of State and NOAA)1993-1996. \$75,000

Classification System for Small Coastal Plain Streams (Forest Service) 1993-1996. \$20,000

Edisto Basin Public Participation Process Analysis (SC Water Resources Div.)1994-1996, \$10,000

Index of Biotic Integrity for Small Streams (DOE) 1994-1995. \$89,000

Application of the Biotic Index for Restoration Management of Aquatic Ecosystems(Forest Service) 1995-1996.

\$69,000

Mill Creek Watershed Non-point Source Pollution Management (DHEC-EPA)Co-PI, 1995-97. \$104,000

Mill Creek Watershed Non-point Source Pollution Management (DHEC-EPA)Co-PI, 1997-99. \$102,000

An Experimental Program for Fisheries Molecular Biology (NOAA)(South Carolina Sea Grant Consortium) 1995-96. \$16,500, \$5,000.

Larval and Juvenile Fish Use of Bottomland Hardwood Floodplains in the Savannah River Site(SC),(1998-1999,\$99,410), (2000-2001,\$140,000), (2001-2002,\$145,000)(2002-2003,\$128,000)

South Carolina Sea Grant Consortium, Ecotoxicology of heavy metal for estuarine species, \$8,000, 2001-02, 2002-2003)

Life History of Yellowfin Tuna (*Thunnus albacares*) Fishtech (NOAA), \$20,000 (2002-2003)

PROFESSIONAL SOCIETIES

American Fisheries Society

(President, SC Chapter, 1983-84, 1988-89; 1989-90)

(Certified Fishery Scientist, Lifetime Member)

Ecological Society of America

Southeastern Estuarine Research Society (President, 1981-1983)

Estuarine Research Federation (Board member 1979-1983, Chairman Publications Committee 1979-1983)
South Carolina Fishery Workers Association (President, 1979)
South Carolina Academy of Sciences
Network of Tropical Fisheries Scientists

HONORARY SOCIETIES

Phi Beta Kappa
Explorers Club, Chairman of Greater Piedmont Chapter 1993-1995
Fellow of the American Institute of Fishery Research Biologists
Director, Carolinas District, 1990-1994.
Fellow of the American Association for the Advancement of Science
Sigma Xi
Omicron Delta Kappa
Golden Key Honor Society

HONORS AND AWARDS

"Conservation Educator of the Year 1972-1973" by the South Carolina Wildlife Federation.
Senior Research Fellow of the Japan Society for the Promotion of Science. Faculty of Fisheries, Hokkaido University, Hakodate, Hokkaido, Japan; June - December, 1977.
"Sonoco Award" for Environmental Research, South Carolina Academy of Science, 1976, with O. Rhett Talbert, "The Ecology of Loggerhead Turtles in South Carolina".
Distinguished Visiting Professor of Fisheries, Faculty of Fisheries, Nagasaki University, Nagasaki, Japan, January-July, 1985.
"Lifetime Achievement Award" by The Friends of the Coast Foundation, 1990.
Golden Key Faculty Award for Creative Integration of Research in Undergraduate Teaching, University of South Carolina, 1992.
Mortar Board Award for Excellence in Undergraduate Teaching, University of South Carolina, 1993.
Conservation Educator of the Year by the South Carolina Wildlife Federation, 1996.
Faculty Environmental Stewardship Award, College of the Environment, University of South Carolina, 2002
Fish Conservationist of the Year, 2002, American Fisheries Society, South Carolina Chapter
Honorary Doctor of Science, Cornell College of Iowa, 2003

THESES AND DISSERTATIONS DIRECTED

Cross, F.A. 1967. Co-Director: Ph.D., Biological Oceanography. Oregon State University.

Fowler, S.W. 1969. Co-Director: Ph.D., Biological Oceanography. Oregon State University.

Holland, A.F. 1972. The Animal Sediment Relationships and Population Dynamics of *Tagelus plebeius*. M.S., Biology, University of South Carolina.

Lebon, Tom. 1972. The Effect of Temperature and Cadmium on the Hematology of *Fundulus heteroclitus*. M.S., Biology, University of South Carolina.

Burns, R.W. 1973. Species Abundance and Diversity of Larval Fishes in a High Marsh Tidal Creek. M.S., Biology, University of South Carolina.

Cain, Ron. 1973. The Annual Occurrence, Abundance and Diversity of Fishes in an Intertidal Creek. M.S., Biology, University of South Carolina.

Hopkins, Sally. 1973. The Response of Developmental Stages of *Fundulus heteroclitus* to Acute Thermal Shock. M.S., Biology, University of South Carolina.

Middaugh, Doug. 1973. Toxicity of Cadmium to Eggs Larvae and Adults of the Mummichog **Fundulus heteroclitus** and the Common Silverside. M.S., Marine Science, University of South Carolina.

McKenny, Charles. 1973. The Effects of Acute Exposure to Sublethal Concentrations of Cadmium on the Thermal Resistance of the Fish **Fundulus heteroclitus**. M.S., Biology, University of South Carolina.

Holland, A. Fred. 1974. An Analysis of an Estuarine Intertidal Community. Ph.D., Marine Science, University of South Carolina.

Bozeman, Earl. 1975. The Abundance of Larval and Juvenile Fishes in a South Carolina Intertidal Creek. M.S., Biology, University of South Carolina.

Pollard, Dennis. 1975. Dietary Analysis of Ten Species of Estuarine Fish. M.S., Biology, University of South Carolina.

Buatti, Anthony N. 1977. Respiration and Tolerance to Low Dissolved Oxygen of Juvenile **Fundulus heteroclitus**. M.S., Biology, University of South Carolina.

Dennis, Beverly J. 1977. The Dominance of **Anchoa mitchilli** in the Summer Fish Community of South Carolina Estuarine Creeks: A Sampling Methodology for Determining Species Composition and Distribution. M.S., Biology, University of South Carolina.

Reis, Richard R. 1977. Temporal Variation in Utilization of a South Carolina High Marsh Intertidal Creek by Larval and Juvenile Fish. M.S., Biology, University of South Carolina.

Shenker, Jon M. 1977. Variation in the Utilization of an Intertidal Salt Marsh Creek by Larval Fishes. M.S., Marine Science, University of South Carolina.

Crabtree, R. 1978. A Comparison of Two South Carolina Tide Pool Fish Communities in Relation to Temperature and Tidal Elevation. M.S., Marine Science, University of South Carolina.

Middaugh, D. 1978. *Spawning Ecology of the Atlantic Silverside, **Menidia menidia (Linnaeus) (Atherinidae, Teleostei)***. Ph.D., Marine Science., University of South Carolina.

Radtke, R. 1978. The Formation of Otoliths in Larval Fish and Their Use in Age Determination. Ph.D. Marine Science., University of South Carolina.

Yetman, Ken. 1979. Functional Feeding Morphology the Bucco-pharyngeal Filter in Spot. M.S., Marine Science, University of South Carolina.

Kleypas, Joanie. 1980. Migrations of the Feeding Predatory Fish in an Intertidal Creek with Special Reference to the Silver Perch (**Bairdiella chrysoura**). M.S., Marine Science., University of South Carolina.

Pritts, Marvin. 1980. Resource Allocation and Population Dynamics in the Woody Golden Rod **Solidago pauciflosculosa (Compositae)**. M.S., Biology, University of South Carolina.

Haake, Peter William. 1981. Age and Growth of Two Everglades Fishes; **Gambusia affinis** and **Heterandria formosa**. M.S., Biology, University of South Carolina.

Schaefer, Scott. 1982. Spatial and Temporal Variation in Larval Fish in North Inlet, SC. M.S., Marine Science, University of South Carolina.

Beckman, Daniel. 1983. The Age, Growth and Distribution of Juvenile Spot **Leiostomus xanthurus (Lacepede)** in North Inlet Estuary, SC, M.S., Marine Science, University of South Carolina.

Chestnut, David. 1983. Feeding Habits of Juvenile Spot **Leiostomus xanthurus (Lacepede)** in North Inlet, SC, M.S., Biology, University of South Carolina.

- Breed, William. 1984. Effect of Hypophysectomy on Increment Formation in Otoliths of **Tilapia (Sarotherodon zillii)**. M.S., Marine Science, University of South Carolina.
- Harrell, Reginald. 1984. Identification of Hybrids of the **Morone** complex (**Percichthyidae**) by means of Osteological Patterns, Meristics and Morphometrics. Ph.D., Biology, University of South Carolina.
- Wilson, Charles A. 1984. Age and Growth Aspects of the Life History of Billfishes. Ph.D., Biology, University of South Carolina.
- Secor, Dave. 1985. Otolith Allometry in Pond Reared Striped Bass. **Monrone saxatilis**. M.S., Biology, University of South Carolina.
- Baldeverona, Rudolph. 1987. Effects of Feeding and Stocking Density on Growth and Survival of Spot, **Leiostomus xanthurus (Lacepede)**. Ph.D., Marine Science, University of South Carolina.
- Cyr, Ned. 1987. Age, Growth, and Reproductive Biology of Blue Marlin, **Makaira nigricans**, from South Carolina Billfish Tournament Collections. M.S., Marine Science, University of South Carolina.
- Foy, Mark. 1987. The Microstructure of Paleootoliths. M.S., Biology, University of South Carolina.
- Scholz, Paul. 1988. Effects of Dietary Protein Level and Feeding Rate on Growth Food Conversion and Protein Efficiency in Juvenile, **Oreochromis aureus**: A Quadratic Surface Analysis, M.S., Marine Science Program, University of South Carolina.
- Javier, Ojeda. 1989. The Use of a Predator-Prey Relationship for the Production of Striped Bass (**Morone saxatilis**). M.S., Marine Science, University of South Carolina.
- Secor, David. 1990. The Early Life History of Natural and Hatchery Produced Striped Bass, **Morone saxatilis**. Ph.D., Biological Sciences, University of South Carolina.
- Brim, Jayne. 1991. Coastal Plain Fishes: Flood Plain Utilization and the effect of impoundments. M.S., Biological Sciences, University of South Carolina.
- Cyr, Edward C. 1991. Aspects of the Life History of the Tarpon, **Megalops atlanticus**, from South Florida. Ph.D., Marine Science, University of South Carolina.
- Ziegler, Sharon K. 1991. The Response of Juvenile **Oreochromis aureus** to Hormonal sex Inversion. M.S., Marine Science, University of South Carolina.
- Bulak, James. 1994. Factors Affecting Recruitment of Striped Bass, **Morone saxatilis**, in the Santee-Cooper System, SC. Ph.D., Biological Sciences, University of South Carolina.
- Ballek, Michael. 1994. Reproduction and Early Life History of the Redfin Pickerel, **Esox americanus americanus**. M.S. Biological Sciences. University of South Carolina.
- Arana, Andrew. 1995. Length of Larvae and Timing of Metamorphosis in Rockhind, **Epinephelus adscensionis**. M.S., Marine Science, University of South Carolina.
- Harris, Patrick. 1995. The Catch of King Mackerel (**Scomberomorus cavalla**) and Spanish Mackerel (**Scomberomorus maculatus**) in the Commercial Shrimping Fishery of South Carolina. Ph.D., Biological Sciences, University of South Carolina.
- Driggers, W.B. Jr., 1998. Age and Growth of Yellowfin Tuna (**Thunnus albacares**). M.S., Marine Science Program, University of South Carolina.
- Calle-Delago, Paola., 2000. Characterization of Water Masses in an Intensive Shrimp Culture Pond. M.S., Marine Science Program, University of South Carolina. (Co-Director with Dr. Paul Sandifer, South Carolina Department of Natural Resources.

Iza, Sara Sterle., 2001. Conserving Habitat: A Snapshot of the Effectiveness of the Consultation Process Within the Essential Fish Habitat Provision of the Sustainable Fisheries Act of 1996. M.S. Masters in Earth and Environmental Resources Management, University of South Carolina.

Shuford, Rebecca. 2001. Age and Growth of Yellowfin Tuna (*Thunnus albacares*). M.S., Marine Science Program, University of South Carolina.

Driggers, W.B. Jr., 2001, Age, Growth, Reproduction and Population Genetics of the Blacknose Shark, *Carcharhinus acronotus*, in the Western North Atlantic. Ph.D., Marine Science Program, University of South Carolina.

Reichert, Marcel J.M. ., 2002, On the Life History of the Fringed Flounder (*Etropus crossotus*), a Small Tropical Flatfish in the South Atlantic Bight. PhD., Marine Ecology, University of Groningen, Netherlands

PUBLICATIONS (partial listing)

Reichert, M.J.M., J.M. Dean, R.J. Feller, and J.M. Grego. Somatic growth and otolith growth in juveniles of a small subtropical flatfish, the fringed flounder, *Etropus crossotus*. J. Exp. Mar. Biol. & Ecol. 254 (2) 169-188. 2000.

Luckhurst, B.E., J.M. Dean and M. Reichert., Age, growth and reproduction of the Lane snapper *Lutjanus synagris* (Pisces: Lutjanidae) at Bermuda. Marine Ecology Progress Series. (203) 255-261 2000

Dean, J.M. Taking stock: or, Who is taking what stock? In, Taking stock: Defining and Managing Shared Resources. Proceedings of the Australian Society for Fish Biology and the Fish and Aquatic Resource Management Association of Australasia Joint Workshop, D.A. Hancock ed. pages 7-30. 1998.

W.B. Driggers, J.M. Grego, and J.M. Dean. Age and growth of yellowfin tuna, *Thunnus albacares*, in the western north Atlantic Ocean. ICCAT Proceedings. SCRS/98/123. 1998

Harris, P.J. and J.M. Dean. The catch of king mackerel and Spanish mackerel in the commercial shrimp fishery of South Carolina. In Consequences and Management of Fisheries Bycatch. Alaska Sea Grant 97-02. 21-29. 1998.

Harris, P.J. and J.M. Dean. Characterization of king mackerel and Spanish mackerel bycatches of South Carolina shrimp trawlers. North American Journal of Fisheries Management 18: (2) 439-453. 1998.

Dean, J.M. 1997., International bio-political fisheries management:: Sashimi on the cutting edge. Pages 339-343 in: Developing and Sustaining World Fisheries Resources: the State of Science and Management: Second World Fisheries Congress Proceedings, 797 pages, eds Hancock, D.A., D.C. Smith, A. Grant and J.P. Beumer.

Crabtree, R.E., E.C. Cyr, D.C. Chacon Chaverri, W.O. McLarney and J.M. Dean. 1997. Reproduction of tarpon, *Megalops atlanticus*, from Florida and Costa Rican Waters and notes on their age and growth. Bull. Marine Science. 61(2):271-285.

Bulak, J.S., J.S. Crane, D.H. Secor and J.M. Dean. 1997. Recruitment dynamics of striped bass in the Santee-Cooper system, South Carolina. Transactions of the American Fisheries Society., 126 (1):133-143.

Dean, John Mark, A crisis and opportunity in coastal oceans: coastal fisheries as a case study. Sustainable Development in the Southeastern Coastal Zone. F.J. Vernberg, W.B. Vernberg and T. Siewicki, eds. Univ. S. Carolina Press, 1997, 81-88.

Paller, M.H. M.J.M. Reichert and J.M. Dean. 1996. Use of fish communities to assess environmental impacts in South Carolina coastal streams. Trans. Am. Fish. Soc. 125 (4):633-644.

Stequert, B., J. Panfili and J.M. Dean., 1996. Age and growth of yellowfin tuna in the western Indian Ocean based on otolith microstructure. Fish.Bull. 96:124-134.

Secor, D.H., J.M. Dean and S.E. Campana. 1995., Fish otoliths: Faithful biological and environmental chronometers? in Recent Developments in Fish Otolith Research. eds. Secor, D.H., J.M. Dean and S.E. Campana. Univ. South Carolina Press, Columbia, SC. USA. xxv-xxvii.

Graves, J.E., J.R. Gold, B. Ely, J.M. Quattro, C. Woodley and J.M. Dean., 1995. Population genetic structure of bluefin tuna in the north Atlantic Ocean. I: Identification of variable genetic markers. ICCAT Scientific Proceedings SCRS 9/95/87.

Megalofonou, P., J.M. Dean, G. De Metrio, C. Wilson, and S. Berkeley., 1995. Age and growth of juvenile swordfish, *Xiphias gladius linnaeus*, from the Mediterranean Sea. Jour. Exptl. Mar. Biol. Ecol. 188 (1995) 79-88.

Secor, D.H., J.M. Dean, F.W. Sessions, and T.A. Curtis. 1995. Early growth and survival of striped bass, *Morone saxatilis* (Walbaum), and it phenotypically similar hybrid (*M. saxatilis* X *M. chrysops*) using an otolith marking method. Aquaculture Res. 26:155-59.

Secor, D.H., J.M. Dean and S.E. Campana.1995. Recent Developments in Fish Otolith Research. Proceedings of the First International Symposium. 762 pages. Belle W. Baruch Library in Marine Science, University of South Carolina Press, Columbia, SC. USA

Crabtree, R.E., E.C. Cyr., and J.M. Dean. 1995. Age and growth of tarpon *Megalops atlanticus* from south Florida waters. Fish. Bull. 93:619-628.

Scholz, P., D. Edwards, J.M. Dean, and R. Palm Jr., 1994. Use of a quadratic response model to estimate optimum combinations of nutritional variables. Trans. Am. Fish. Soc.123: 266-272.

Secor, D.H. and J.M. Dean., 1992. A comparison of otolith-based back-calculation methods to determine individual growth histories of larval striped bass, *Morone saxatilis*. Can.J.Fish.Aquat.Sci., Vol 49,1439-1454.

Secor,D.H., J.M. Dean and J. Hansbarger.1992. Modification of the quatrefoil light trap for use in hatchery ponds. Prog. Fish. Cult.54:202-205.

Evans, J.C., J.M. Dean and S. Chapal. 1992. Expert Witness or advocate: Developing oral argument skills in the Marine Science student. J. Col. Sci. Teach. XXI (3).149-153.

Dean, J.M. Summary Report on Ageing Workshop. 1992. Neth. Jour. Sea. Res. 29(1-3) 279-280.

Secor, D.H., J.M. Dean, E.H. Laban. Otolith removal and preparation for microstructural examination. in:Stevenson, D.K., and S.E. Campana (ed.). 1992. Otolith Microstructure Examination and Analysis. Can.Spec. Publ. Fish. Aquat. Sci. 117. p 19-57.

Secor, D.H., J.M. Dean, T.A. Curtis, and F.W. Sessions. 1992 Effect of female size and propagation methods on larval production at a South Carolina striped bass (*Morone saxatilis*) hatchery. Can. Jour. Fish. Aquat. Sci. 49 (9) 1778-1787.

Crabtree, R.E., E.C. Cyr, R.E. Bishop, L.M. Falkenstein and J.M. Dean. 1992. Age and growth of tarpon, *Megalops atlanticus*, larvae in the eastern Gulf of Mexico with notes on relative abundance and probable spawning areas. Environ. Biol. Fishes. 35: 361-370.

Dean, J.M., E. Cyr, P.S. Dean, I. Jehangeer, M. Nallee., 1991. The marlin fishery and its role in the economy of Mauritius. in: Proceedings of the 1990 congress on Coastal and Marine Tourism. Miller, M.L. and J. Auyong eds. Vol 1.379-382. NCRI-T-91-010, Newport, OR. 97365, USA.

Secor, David H., M.B. White, and J.M. Dean. 1991. Immersion marking of Larval and juvenile hatchery-produced striped bass with oxytetracycline. 1991.Trans. Am. Fish. Soc. 120:261-266.

Eargle, F.M. and J.M. Dean. 1991. A functional comparison of two bottomland hardwood sites in South Carolina using WET. in: Proceedings of the International Symposium on River Corridors. Ed., J. Kusler

Secor, D.H., J.M. Dean, and E.H. Laban. 1991. Manual for otolith removal and preparation for microstructure examination. Baruch Institute Technical Report 91-1. Belle W. Baruch Institute, University of South Carolina and Electric Power Research Institute.

Morris, James T., B.J. Kjerfve and J.M. Dean. 1990. Dependence of estuarine productivity on mean sea level anomalies. *Limnology and Oceanography*.35(4),926-30.

Secor, D.H. and J.M. Dean. 1989. Somatic growth effects on the otolith-fish size relationship in young pond-reared striped bass, *Morone saxatilis*. *Can. Journ. Fish and Aquat. Sci.* 46 (1) 113-121.

Secor, D.H., J.M. Dean and R. Baldeverona. 1989. Age effects on the otolith-fish length relationship for larval and juvenile fishes. ICES Early Life History of Fishes Symposium. Rapp. P.-v Reun. Cons. int. Explor. Mer, 191:431-438.

DeVoe, M.R., M.E. Tompkins and J.M. Dean. 1988. South Carolina's coastal wetland impoundment project (SCWIP): Relationship of large-scale research to policy and management. Proceedings of the Coastal Oceans 1988 Symposium.

Harrell, R.M. and J.M. Dean. 1988. Identification of juvenile hybrids of *Morone* based on meristics and morphometrics. *Trans. Am. Fish. Soc.* 117:529-535.

DeVoe, R.A., D. Baughman, and J.M. Dean. 1987. South Carolina's Wetland Impoundments: Research and Policy Issues. In: The Waterfowl and Wetland Symposium: Proceeding of a Symposium on Waterfowl and Wetlands Management in the Coastal Zone of the Atlantic Flyway. W.R. Whitman and W.H. Meredith (eds.). Delaware Department of Natural Resources and Environmental Control, Dover, Delaware 19903.

Harrell, R.M. and J.M. Dean. 1987. Pterygiophore interdigitation patterns and morphometrics of larval hybrids of *Morone*. *Trans. Am. Fish. Soc.* 116:719-727.

Wilson, C.A., D.W. Beckman and J.M. Dean. 1987. Calcein as a fluorescent marker of otoliths of larval and juvenile fish. *Trans. Am. Fish. Soc.* 116:668-670.

Prince, E.D., D.W. Lee, C. A. Wilson and J.M. Dean. 1986. Longevity and age validation of a tag-recaptured Atlantic sailfish *Istiophorus platypterus*, using dorsal spines and otoliths. *Fish. Bull.* 84(3):493-502

Takita, T., D.P. Middaugh and J.M. Dean. 1985. Predation of a spawning atherinid fish, *Menidia menidia*, by avian and aquatic predators. *Japanese Journal of Ecology.* 34, 431-437.

Beckman, D.W. and J.M. Dean. 1984. The age and growth of young-of-the-year spot *Leiostomus xanthurus* (Lacepede) in South Carolina. *Estuaries.* 5(4B):487-496.

Dean, J.M., C.A. Wilson, and N.C. Alon. 1983. Mariculture in old rice field impoundments: an analogy for containment site culture. In: Proceedings of Aquaculture in Dredged Material Containment Areas, 14352. J. Homziak and J. Lunz (eds.). MS D-83-2. U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi 39181.

Wilson, C.A. and J.M. Dean. 1983. Age estimation and growth in the Pacific blue marlin *Makaira nigricans* and swordfish *Xiphias gladius*. NOAA Technical Report. NMFS 8: Proceedings of the International Workshop on Age Determination of Oceanic Pelagic Fishes: Tunas, Billfishes and Sharks (p. 151-56) Prince and Pulos, eds.

Kleypas, J. and J.M. Dean. 1983. Migration and feeding of the predatory fish, *Bairdiella chrysura* Lacepede in an intertidal creek. *J. Exp. Mar. Biol. Eco.* 72:199-209.

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COURSES TAUGHT

Ichthyology, Marine Biology, Ecology, Estuarine Ecology, Coastal Resource Management, Science and Public Policy

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