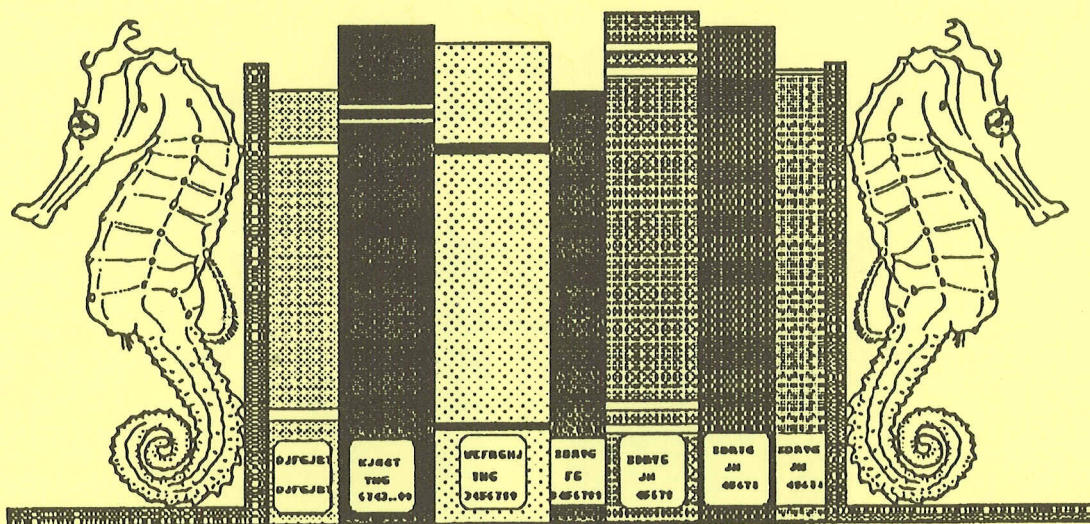




# NOAA Technical Memorandum NMFS-SEFC-335

A Bibliography of NOAA Technical Memoranda  
Issued by the Southeast Fisheries Science Center of  
the National Marine Fisheries Service, 1972-1993



Compilers:  
Harriet M. Corvino  
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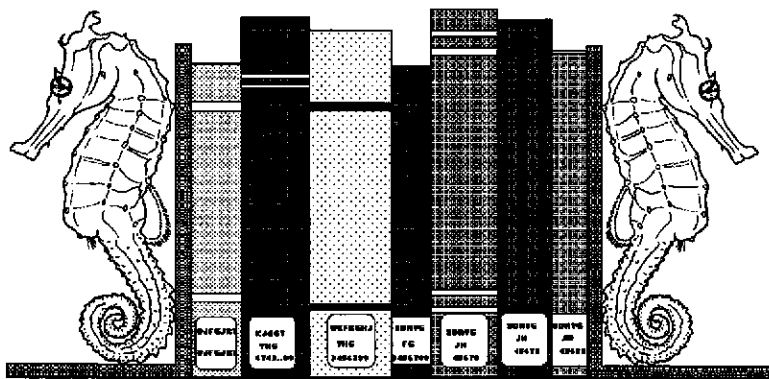
March 1994



# NOAA Technical Memorandum NMFS-SEFSC-335

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Compilers:  
**Harriet M. Corvino and Rosalie N. Shaffer**



U.S. Department of Commerce  
Ronald H. Brown, Secretary

National Oceanic and Atmospheric Administration  
D. James Baker, Administrator

National Marine Fisheries Service  
Rolland A. Schmitten, Assistant Administrator for Fisheries

March 1994

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<sup>1</sup>Contribution MIA-93/94-19 from the Southeast Fisheries Science Center

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75 Virginia Beach Drive  
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## Introduction

The Southeast Fisheries Science Center (SEFSC) is one of five regional fishery research centers of the National Marine Fisheries Service (NMFS). In 1970, the NMFS was organized as a component of the National Oceanic and Atmospheric Administration (NOAA) in the U.S. Department of Commerce. The Fisheries Science Centers provide scientific information required for decisions relating to the conservation and management of fishery resources, and the protection of fishery habitats, endangered and threatened species.

In 1972, the NOAA Technical Memorandum series was established and the Southeast Fisheries Science Center began the publication of research reports. The purpose of this series is timely dissemination of the results of scientific research. The series also affords the SEFSC a means of publishing research results in greater depth and detail than is normally allowed by scientific journals, which usually have stringent length restrictions.

To address the difficulties of identification and location of these publications, we present the following listing of SEFSC Technical Memoranda from number 1 (1972) to number 340 (1993). They are available from their originating laboratories or from the National Technical Information Service. A directory of these sources is provided on page 2.

### **Southeast Fisheries Science Center**

Dr. Bradford E. Brown, Director  
75 Virginia Beach Drive  
Miami, Florida 33149  
(305) 361-4286

The Southeast Fisheries Science Center is comprised of six laboratories and a headquarters office in Miami, Florida. Scientists within the laboratories collect data, conduct research, and provide scientific information concerning the status and well-being of living marine resources of southeastern United States, Puerto Rico, U.S. Virgin Islands, and in the open Atlantic Ocean for large pelagic species.

### **Beaufort Laboratory**

Dr. Ford A. Cross, Director  
101 Pivers Island Road  
Beaufort, North Carolina 28516  
(919) 728-8724

Scientists at the Beaufort Laboratory investigate the location, extent, spatial change, functions, and qualities of estuarine and marine habitats including natural and restored wetland systems. Research and stock assessments are conducted on menhaden, Atlantic reef resources, coastal pelagics, and sea turtles.

### **Charleston Laboratory**

Dr. Robert R. Kifer, Director  
217 Fort Johnson Road  
Charleston, South Carolina 29412  
(803) 762-1200

Scientists at the Charleston Laboratory investigate fishery issues dealing with seafood safety, wholesomeness, fishery management, habitat use, molluscan shellfish, and protected species. Research

areas include marine biotoxins, pathogens, chemical contaminants, fishery forensics, molecular biology, and marine lipid chemistry.

### **Miami Laboratory**

Dr. Joseph E. Powers, Director  
75 Virginia Beach Drive  
Miami, Florida 33149  
(305) 361-4284

Scientists at the Miami Laboratory investigate fisheries for tunas, marlins, sailfish, swordfish, sharks, and Gulf and Caribbean reef resources. Research is also conducted on population dynamics of regional fishery resources and protected species of sea turtles and marine mammals.

### **Panama City Laboratory**

Dr. Churchill B. Grimes, Director  
3500 Delwood Beach Road  
Panama City, Florida 32408  
(904) 234-6541

Scientists at the Panama City Laboratory conduct research to provide life history information such as stock identification, age, growth, migration and reproduction of southeastern fishery stocks. Laboratory scientists also conduct studies of regional charterboat fisheries.

### **Mississippi Laboratories**

Dr. Scott Nichols, Director  
3209 Frederic Street  
Pascagoula, Mississippi 39567  
(601) 762-4591

Scientists at Mississippi Laboratories (consisting of facilities at Pascagoula and the Stennis Space Center) conduct investigations and surveys, using research vessels and

aircraft, of fishery and marine mammal resources in the Gulf of Mexico. Research is also conducted on space technology applications for recreational and commercial fisheries. The NOAA fishery research vessels, Oregon II and Chapman, are docked at the Pascagoula facility and managed for fishery research missions.

### **Galveston Laboratory**

Dr. Roger J. Zimmerman, Director  
4700 Avenue U  
Galveston, Texas 77550  
(409) 766-3500

Scientists at the Galveston Laboratory investigate fisheries of shrimp and demersal fish. Research is conducted on brown, pink, and white shrimp forecasting, stock assessment, and on the biological value of marshlands and estuarine habitats for fishery resources. A nursery at the head-start facility is used to rear endangered Kemp's ridley sea turtles from hatchlings taken from the natural nesting beach in Mexico. Additional research is directed towards turtle habitat and physiology.

### **Regional Office**

Dr. Andrew J. Kemmerer  
Regional Director  
9450 Koger Boulevard  
St. Petersburg, FL 33702  
(813) 893-3141

The Southeast Regional Office (SERO) of the National Marine Fisheries Service is entrusted with the conservation, management, and protection of marine fishery resources, marine mammals, and endangered species inhabiting the waters off the southeastern United States. SERO works with the Regional Fishery Management Councils in preparing the bioeconomic

analysis of proposed fishery management regulations to ensure their compliance with the Magnuson Fishery Conservation and Management Act and the National Standards. The SERO also reviews the regulatory and environmental impact statements for their economic content, prepares situation and outlook reports, economic assessments of managed fisheries, and consults with academic and Fishery Management Council staff.

Technical Memoranda are also available from:

National Technical Information Service  
5285 Port Royal Road  
Springfield, Virginia 22161  
(703) 487-4650 or  
(800) 553-NTIS

### **Acknowledgements**

We would like to thank Brenda Smith for her clerical assistance, Larry Massey and Jack Javech for their technical skills and Wayne Witzell who designed our cover sheet.

NOAA Technical Memoranda, NMFS

- SEFC-1** Report of the National Marine Fisheries Service, Southeast Fisheries Center, Miami Laboratory, fiscal years 1970 and 1971, by **Ann Weeks and Albert C. Jones**. 1972, 21 p. (Miami)
- SEFC-2** Report of the National Marine Fisheries Service, Southeast Fisheries Center, Pascagoula Laboratory, fiscal years 1970 and 1971, by **Edward F. Klima and Richard B. Roe**. 1972, 21 p. (Pascagoula)
- SEFC-3** Configurations and relative efficiencies of shrimp trawls employed in southeastern United States waters, by **John W. Watson, Jr., Ian K. Workman, Charles W. Taylor, and Anthony F. Serra**. 1984, 12 p. (Pascagoula)
- SEFC-4** How to prepare fishery management plans, by **T.J. Costello and Lynn M. Pulos**. 1979, 62 p. (Miami)
- SEFC-5** Survey of the recreational billfish and shark fisheries, May 1, 1977 - April 30, 1978, by **David C. Hamm and Beany M. Slater**. 1979, 190 p. (Miami)
- SEFC-6** Observations of temperature, current, and wind variations off the central eastern coast of Florida during 1970 and 1971, by **Thomas D. Leming**. 1979, 172 p. (Pascagoula)
- SEFC-7** Biological data on pelagic fishes sampled from North Carolina charter boat landings, 1978, by **Charles S. Manooch, III, and Jeffrey L. Ross**. 1979, 48 p. (Beaufort)
- SEFC-8** Annotated bibliography and subject indices for western Atlantic snappers (Family Lutjanidae), by **Joseph E. Tashiro**. 1979, 93 p. (Miami)
- SEFC-9** Proceedings of the coastal zone color scanner workshop, by **Joan A. Browder and Joseph E. Powers** (editors). 1980, 61 p. (Miami)
- SEFC-10** Standardized data condensation: A systematic approach to efficient fisheries and environmental information storage and retrieval, by **Larry L. Massey and John E. Hollingsworth**. 1980, 8 p. (Miami)
- SEFC-11** Chemical and nutritional composition of finfishes, whales, crustaceans, mollusks, and their products, by **Virginia D. Sidwell**. 1981, 432 p. (Charleston)
- SEFC-12** Results of a king mackerel (*Scomberomorus cavalla*) and Atlantic Spanish mackerel (*Scomberomorus maculatus*) migration study, 1975-79, by **Doyle F. Sutherland and William A. Fable, Jr.** 1980, 12 p. (Panama City)
- SEFC-13** Evaluation of a quarterwave stub antenna for Tiros satellite application, by **Lawrence B. Stogner**. 1980, 42 p. (Pascagoula)
- SEFC-14** A summarization and discussion of age and growth of spot, *Leiostomus xanthurus* Lacepede, sand seatrout, *Cynoscion arenarius* Ginsburg, and silver seatrout, *Cynoscion nothus* (Holbrook), based on a literature review, by **Lyman E. Barger and Mark L. Williams**. 1980, 15 p. (Panama City)
- SEFC-15** Comparison of ecological and life history information on gobiid fishes, with emphasis on the southeastern

- United States, by **George H. Darcy**. 1980, 53 p. (Miami)
- SEFC-16** A directory of fishery data collection activities conducted by the Statistical Surveys Division in the southeast region of the United States, by **Herbert F. Prytherch**. 1980, 91 p. (Miami)
- SEFC-17** Everything you always wanted to know about MSY and OY (but were afraid to ask), by **J.R. Zuboy and A.C. Jones**. 1980, 19 p. (Miami)
- SEFC-18** Consumer risk simulation model users guide, by **Office of Data Processing and Statistics, Charleston Laboratory**. 1980. (Charleston)
- SEFC-19** The Delphi Technique: A potential methodology for evaluating recreational fisheries, by **James R. Zuboy**. 1980, 19 p. (Miami)
- SEFC-20** Commercial brown, white, and pink shrimp tail size: total size conversions, by **Susan L. Brunenmeister**. 1980, 7 p. (Galveston)
- SEFC-21** Assessment of the Florida stone crab fishery, by **James R. Zuboy and J. Ernest Snell**. 1980, 29 p. (Miami)
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- SEFC-24** Sea turtle necropsy manual, by **Richard E. Wolke and Anita George**. 1981, 20 p. (Panama City)
- SEFC-25** Biological/chemical survey of Texoma and Capline Sector salt dome brine disposal sites off Louisiana, 1978-79, Vol. I - Benthos, by **R.H. Parker, A.L. Crowe, and L.S. Bohme**. 1980, 103 p. (Galveston)
- SEFC-26** Biological/chemical survey of Texoma and Capline Sector salt dome brine disposal sites off Louisiana, 1978-79, Vol. II - Zooplankton, by **L.A. Reitsema**. 1980, 133 p. (Galveston)
- SEFC-27** Biological/chemical survey of Texoma and Capline Sector salt dome brine disposal sites off Louisiana, 1978-79, Vol. III - Bacteria, by **J.R. Schwarz, S.K. Alexander, S.J. Schropp, and V.L. Carpenter**. 1980, 48 p. (Galveston)
- SEFC-28** Biological/chemical survey of Texoma and Capline Sector salt dome brine disposal sites off Louisiana, 1978-79, Vol. IV - Demersal fin fishes and macrocrustaceans, by **A.M. Landry and H.W. Armstrong**. 1980, 180 p. (Galveston)
- SEFC-29** Biological/chemical survey of Texoma and Capline Sector salt dome brine disposal sites off Louisiana, 1978-79, Vol. V - Sediments, by **K.A. Hausknecht**. 1980, 56 p. (Galveston)
- SEFC-30** Biological/chemical survey of Texoma and Capline Sector salt dome brine disposal sites off Louisiana, 1978-79, Vol. VI - Hydrocarbons, by **P.D. Boehm and D.L. Fiest**. 1980, 138 p. (Galveston)
- SEFC-31** Biological/chemical survey of Texoma and Capline Sector salt dome brine disposal sites off Louisiana, 1978-79, Vol. VII - Trace metals, by **J.B. Tillery**. 1980, 72 p. (Galveston)
- SEFC-32** Biological/chemical survey of Texoma and Capline Sector salt



- dome brine disposal sites off Louisiana, 1978-79, Vol. VIII - Inorganic nutrients, by **J.M. Brooks**. 1980, 31 p. (Galveston)
- SEFC-33** Biological/chemical survey of Texoma and Capline Sector salt dome brine disposal sites off Louisiana, 1978-79, Vol. IX - Shrimp data analysis, by **F.J. Margraf**. 1980, 293 p. (Galveston)
- SEFC-34** Planktonic processes affecting establishment and maintenance of reef fish stocks, by **William J. Richards**. 1980, 13 p. (Miami)
- SEFC-35** Environmental assessment of Buccaneer gas and oil field in the northwestern Gulf of Mexico 1978-1979. Volume I - Synopsis/data management, by **K. Savastano and H. Holley**. 1980, 72 p. (Galveston)
- SEFC-36** Environmental assessment of Buccaneer gas and oil field in the northwestern Gulf of Mexico 1978-1979. Volume II - Sediments and particulates, by **J.M. Brooks, E.L. Estes, W.H. Huang**. 1980, 261 p. (Galveston)
- SEFC-37** Environmental assessment of Buccaneer gas and oil field in the northwestern Gulf of Mexico 1978-1979. Volume III - Fishes and macrocrustaceans, by **B.J. Gallaway and L.R. Martin**. 1980, 49 p. (Galveston)
- SEFC-38** Environmental assessment of Buccaneer gas and oil field in the northwestern Gulf of Mexico 1978-1979. Volume IV - Bacteria, by **R.K. Sizemore and K. Olsen**. 1980, 32 p. (Galveston)
- SEFC-39** Environmental assessment of Buccaneer gas and oil field in the northwestern Gulf of Mexico 1978-1979. Volume V - Fouling community, by **R.L. Howard, G.S. Boland, B.J. Gallaway, and G.D. Dennis**. 1980, 60 p. (Galveston)
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- 74, by **Mayo H. Judy**. 1982, 10 p. (Beaufort)
- SEFC-47** Environmental assessment of Buccaneer Gas and Oil Field in the northwestern Gulf of Mexico, 1975-1980. Volume I - Sediments, particulates and volatile hydrocarbons, by **J.M. Brooks, E.L. Estes, D.A. Wiesenburg, C.R. Schwab, and H.A. Abdel-Reheim**. 1980, 89 p. (Galveston)
- SEFC-48** Environmental assessment of Buccaneer Gas and Oil Field in the northwestern Gulf of Mexico, 1975-1980. Volume II - Fishes and macrocrustaceans, by **B.J. Gallaway**. 1980, 82 p. (Galveston)
- SEFC-49** Environmental assessment of Buccaneer Gas and Oil Field in the northwestern Gulf of Mexico, 1975-1980. Volume III - Bacteria, by **R.K. Sizemore and K. Olsen**. 1980, 21 p. (Galveston)
- SEFC-50** Environmental assessment of Buccaneer Gas and Oil Field in the northwestern Gulf of Mexico, 1975-1980. Volume IV - Currents and hydrography, by **R.S. Armstrong**. 1980, 31 p. (Galveston)
- SEFC-51** Environmental assessment of Buccaneer Gas and Oil Field in the northwestern Gulf of Mexico, 1975-1980. Volume V - Hydrocarbons, biocides, and sulfur, by **B.S. Middleditch**. 1980, 70 p. (Galveston)
- SEFC-52** Environmental assessment of Buccaneer Gas and Oil Field in the northwestern Gulf of Mexico, 1975-1980. Volume VI - Trace metals, by **J.B. Tillery**. 1980, 39 p. (Galveston)
- SEFC-53** A fishery statistics plan for the southeastern United States, by **A.C. Jones, H.E. Groess, K. Newlin, J.R. Zuboy, L.L. Massey, P. Eldridge, and D. Tidwell**. 1980, 89 p. (Miami)
- SEFC-54** The refrigerated shelflife of Spanish mackerel (*Scomberomorus maculatus*) and king mackerel (*Scomberomorus cavalla*) harvested from the southeastern United States, by **Melvin E. Waters**. 1982, 14 p. (Charleston)
- SEFC-55** Bioprofiles sampling manual for oceanic pelagic fishes, 1980-81, by **Eric D. Prince and Dennis W. Lee**. 1980, 8 p. (Miami)
- SEFC-56** Temperature associated growth of white shrimp in Louisiana, by **Patricia L. Phares**. 1980, 16 p. (Galveston)
- SEFC-57** Tail length to tail weight relationships for Louisiana white shrimp in 1977, by **Patricia L. Phares**. 1980, 10 p. (Miami)
- SEFC-58** Estimates of natural and fishing mortality for white shrimp in the Gulf of Mexico, by **Patricia L. Phares**. 1980, 21 p. (Miami)
- SEFC-59** 1. A balanced marine aquarium. 2. The biology of marine aquarium fishes collected in Monroe County, Florida, by **Barbara J. Palko, Deb Hess, and John Stevely**. 1981, 83 p. (Miami)
- SEFC-60** A report of data collected and publications resulting from the research cruises of the *Geronimo* and *Undaunted* in the tropical Atlantic Ocean, 1963-1969, by **Joseph E. Tashiro**. 1980, 166 p. (Miami)
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- SEFC-62** Size and sex ratio of king mackerel, *Scomberomorus cavalla*, in

- the southeastern United States, by **Lee Trent, Roy O. Williams, Ronald G. Taylor, Carl H. Saloman, and Charles Manooch, III.** 1981, 59 p. (Panama City)
- SEFC-63** Report of the workshop on the ecological interactions between shrimp and bottomfishes, April 1980, by **Peter F. Sheridan and Sammy M. Ray** (editors). 1981, 132 p. (Galveston)
- SEFC-64** Japanese longline fishing: Comparisons between observer data and Japanese quarterly reports for 1979 in the Atlantic and Gulf of Mexico, by **Perry A. Thompson, Jr.** 1982, 38 p. (Pascagoula)
- SEFC-65** Shrimp and redfish studies; Bryan Mound brine disposal site off Freeport, Texas, 1979-1981, Vol. I(A) - Shrimping success, (B) Shrimp catch-effort analysis, by **C.E. Comiskey.** 1982. Vol. I(A): 449 p; Vol. I(B): 217 p. (Galveston)
- SEFC-66** Shrimp and redfish studies; Bryan Mound brine disposal site off Freeport, Texas, 1979-1981, Vol. II - Shrimp mark-release investigations, by **M.F. Johnson.** 1981, 110 p. (Galveston)
- SEFC-67** Shrimp and redfish studies; Bryan Mound brine disposal site off Freeport, Texas, 1979-1981, Vol. III - Shrimp spawning site survey, by **B.J. Gallaway and L.A. Reitsema.** 1981, 84 p. (Galveston)
- SEFC-68** Shrimp and redfish studies; Bryan Mound brine disposal site off Freeport, Texas, 1979-1981, Vol. IV - Interview sampling survey of shrimp catch and effort, by **M.F. Johnson.** 1981, 38 p. (Galveston)
- SEFC-69** Shrimp and redfish studies; Bryan Mound brine disposal site off Freeport, Texas, 1979-1981, Vol. V - (A), Brine toxicity bioassays on redfish, by **J.M. Neff, M.P. Coglianese, W. McCulloch, L.A. Reitsema, and S. Anderson.** (B), Brine avoidance/attraction bioassays on redfish, by **D.W. Owens, K.A. Jones, and B.J. Gallaway.** 1982, Vol. V(A): 82 p; Vol. V(B): 58 p. (Galveston)
- SEFC-70** Shrimp and redfish studies; Bryan Mound brine disposal site off Freeport, Texas, 1979-1981, Vol. VI - Shrimp bioassays, by **N.R. Howe.** 1981, 60 p. (Galveston)
- SEFC-71** Construction, installation, and handling procedure for the National Marine Fisheries Service's sea turtle excluder device, by **Pascagoula Laboratory.** 1981, 14 p. (Pascagoula)
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- SEFC-72** A summary of results of Louisiana white shrimp tagging experiments, 1977, by **K.N. Baxter and S.L. Hollaway.** 1981, 116 p. (Galveston)
- SEFC-73** Mapping of submerged vegetation using remote sensing technology, by **Kenneth J. Savastano, Kenneth H. Faller, Louis W. McFadin, and Hillman Holley.** 1981, 68 p. (Pascagoula)
- SEFC-74** Application of a computer simulation model to estimate dietary intake of cadmium from seafood by U.S. consumers, by **G. Malcolm Meaburn, et al.** 1981, 31 p. (Charleston)
- SEFC-75** Lipid oxidation in blueback herring, *Alosa aestivalis*, during frozen and superchilled (-2°C) storage; effect of TBHQ antioxidant,

- by **Malcolm B. Hale, Jeanne D. Joseph, and Gloria T. Seaborn.** 1982, 17 p. (Charleston)
- SEFC-76** Electrophoretic patterns of proteins in Spanish mackerel (*Scomberomorus maculatus*), by **Allyn G. Johnson.** 1981, 11 p. (Panama City)
- SEFC-77** Big game fishing in the northern Gulf of Mexico during 1980, by **Paul J. Pristas.** 1981, 34 p. (Panama City)
- SEFC-78** A summary of results of Louisiana brown shrimp tagging experiments, 1978, by **Stephen L. Hollaway and K. Neal Baxter.** 1981, 123 p. (Galveston)
- SEFC-79** Assessment of the Florida stone crab fishery 1980-81 season, by **James R. Zuboy and J. Ernest Snell.** 1982, 21 p. (Miami)
- SEFC-80** The biological bases for reef fishery management - Proceedings of a workshop, by **Gene R. Huntsman, William R. Nicholson, and William W. Fox, Jr.** 1982, 216 p. (Beaufort)
- SEFC-81** Sea surface areas by fishing zones off the coast of northeastern South America, by **Joseph E. Tashiro.** 1981, 11 p. (Miami)
- SEFC-82** Guide to sea turtle visceral anatomy, by **William E. Rainey.** 1981, 82 p. (Panama City)
- SEFC-83** Selenium levels in yellowfin tuna (*Thunnus albacares*) and sharks from the Carolinas, by **Sylvia A. Braddon and Charles R. Sumpter.** 1981, 10 p. (Charleston)
- SEFC-84** A report on the economic data bases for the coastal migratory pelagic resource (mackerel) management units, by **John Ward and John Poffenberger.** 1981, 42 p. (Miami)
- SEFC-85** Oceanic gamefish investigations: 1978, 1979, and 1980, by **Allyn Monty Lopez.** 1981, 23 p. (Miami)
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- SEFC-87** The occurrence of *Penaeus* spp. in the stomachs of trawl-caught fishes from the northwestern Gulf of Mexico, 1981, by **Mischelle Creel and Regina C. Divita.** 1982, 22 p. (Galveston)
- SEFC-88** A report on the available economic data for the invertebrate fisheries (except shrimp), by **John Ward.** 1982, 6 p. (Miami)
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- SEFC-90** Big game fishing in the northern Gulf of Mexico during 1981, by **Paul J. Pristas.** 1982, 34 p. (Panama City)
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- SEFC-94** Seasonal abundance, size distribution and spawning of three shrimps (*Penaeus aztecus*, *P. setiferus* and *P. duorarum*) in the northwestern

- Gulf of Mexico, 1961-1962, by **William C. Renfro and Harold A. Brusher**. 1982, 24 p. (Galveston)
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- SEFC-97** Short-term mortality of tagged shrimp during field tagging experiments, by **Brian Holt**. 1982, 10 p. (Galveston)
- SEFC-98** Interim report of the workshop on the scientific basis for the management of penaeid shrimp, by **Brian J. Rothschild and John A. Gulland** (conveners). 1982, 66 p. (Miami)
- SEFC-99** Economic status of the offshore shrimp fishery in the Gulf of Mexico, by **John R. Poffenberger**. 1982, 18 p. (Miami)
- SEFC-100** A report on the available economic data for the shrimp fisheries in the southeastern United States, by **John R. Poffenberger**. 1982, 19 p. (Miami)
- SEFC-101** An analysis of fishery economic data relating to commercial mackerel fisheries, by **John R. Poffenberger**. 1982, 35 p. (Miami)
- SEFC-102** Engineering and economics of refrigerated and chilled sea water systems for semi-tropical waters, including an annotated bibliography, by **Robert C. Ernst, Jr. and John W. Brown**. 1982, 64 p. (Charleston)
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