

**Northeast Fisheries Science Center
Publications, Reports,
and Abstracts
for Calendar Year 1995**

by

Jon A. Gibson

National Marine Fisheries Serv., Woods Hole, MA 02543

**U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Northeast Region
Northeast Fisheries Science Center
Woods Hole, Massachusetts**

January 1997

ORDERING INFORMATION

Unless otherwise indicated, a single reprint or photocopy of a listed publication, report, or abstract is available free of charge from the sole/senior Northeast Fisheries Science Center author of the work (i.e., as depicted by all capital letters). The correct mailing address for the sole/senior Center author is indicated by a two-letter code at the end of the bibliographic entry. The key to the codes is as follows:

MF = National Marine Fisheries Service, 212 Rogers Ave.,
Milford, CT 06460-6435

NG = National Marine Fisheries Service, 28 Tarzwell Dr.,
Narragansett, RI 02882-1199

NS = National Marine Fisheries Service, National Systematics
Laboratory, National Museum of Natural History, 10th &
Constitution Ave., N.W., MRC 153, Washington, DC 20560-
0153

OF = National Marine Fisheries Service, 904 S. Morris Ave.,
Oxford, MD 21654

SH = National Marine Fisheries Service, 74 Magruder Rd.,
Highlands, NJ 07732

WH = National Marine Fisheries Service, 166 Water St., Woods
Hole, MA 02543-1026

CONTENTS

Introduction	1
Publications	2
Reports	10
Abstracts	15

INTRODUCTION

The following bibliography contains: 1) the anonymously peer-reviewed publications ("publications"), 2) the nonanonymously peer-reviewed and non-peer-reviewed publications ("reports"), and 3) the abstracts for oral presentations & poster displays ("abstracts") which were prepared by Northeast Fisheries Science Center (NEFSC) employees, and which have a 1995 publication date. **Further, only those works which were submitted to and cleared by the NEFSC's manuscript/abstract review system are eligible to be considered as "Center" works.** Authors who were NEFSC employees at the time they composed their works, and/or who were NEFSC employees during 1995, are denoted in the list by all capital letters.

Editorial treatment of bibliographic entries is largely based on the CBE style manual, fifth edition¹. Two abbreviations used sporadically throughout the bibliography need to be explained: 1) "n.p." means the work--usually an abstract--is not paginated; and 2) "p.n.k." means the page number(s) of the work is(are) not known--a result of not having the actual work in hand in order to prepare its bibliographic entry. Also, there are many foreign recipients of the issues of this series, many of whom do not use English as a primary language. Because English-language-based acronyms are particularly difficult to comprehend by non-English-using readers, the standardized abbreviations of these acronyms have been included within squared brackets immediately following the acronyms.

¹Neter, E. (chairman); Altman, P.L.; Burgan, M.W.; Holmgren, N.H.; Pollock, G.; Zipf, E.M. 1983. CBE style manual: a guide for authors, editors, and publishers in the biological sciences. 5th ed. Bethesda, MD: Council of Biology Editors; 324 p.

PUBLICATIONS

- Abend, A.G.; SMITH, T.D. 1995. Differences in ratios of stable isotopes of nitrogen in long-finned pilot whales (*Globicephala melas*) in the western and eastern North Atlantic. *ICES [Int. Counc. Explor. Sea] J. Mar. Sci.* 52:837-841. Ordering address code: WH.
- ALMEIDA, F.P.; Hartley D.-L.; BURNETT, J. 1995. Length-weight relationships and sexual maturity of goosefish off the northeast coast of the United States. *N. Am. J. Fish. Manage.* 15:14-25. Ordering address code: WH.
- Bagheri, S.; Stein, M.; ZETLIN, C. 1995. Airborne videography: an oil spill response monitoring system. *Natl. Environ. J.* 5(3):66-70. Ordering address code: SH.
- BROWN, R.B. 1995. Conducting an effective manuscript review. *Fisheries* 20(7):40-41. Ordering address code: WH.
- Carpenter, K.E.; COLLETTE, B.B.; Russo, J.L. 1995. Unstable and stable classifications of scombroid fishes. *Bull. Mar. Sci.* 56(2):379-405. Ordering address code: NS.
- COLLETTE, B.B. 1995. [Family] Batrachoididae. In: Fischer, W.; Krupp, F.; Schneider, W.; Sommer, C.; Carpenter, K.E.; Niem, V.H., eds. *Guia FAO para la identificacion de especies para los fines de la pesca: Pacifico Centro-Oriental. Vol. II. Vertebrados--Parte 1.* Rome, Italy: U.N. Food and Agriculture Organization; p. 910-918. Ordering address code: NS.
- COLLETTE, B.B. 1995. [Family] Belonidae. In: Fischer, W.; Krupp, F.; Schneider, W.; Sommer, C.; Carpenter, K.E.; Niem, V.H., eds. *Guia FAO para la identificacion de especies para los fines de la pesca: Pacifico Centro-Oriental. Vol. II. Vertebrados--Parte 1.* Rome, Italy: U.N. Food and Agriculture Organization; p. 919-926. Ordering address code: NS.

- COLLETTE, B.B. 1995. [Family] Hemiramphidae. In: Fischer, W.; Krupp, F.; Schneider, W.; Sommer, C.; Carpenter, K.E.; Niem, V.H., eds. *Guia FAO para la identificacion de especies para los fines de la pesca: Pacifico Centro-Oriental. Vol. II. Vertebrados--Parte 1.* Rome, Italy: U.N. Food and Agriculture Organization; p. 1175-1181. Ordering address code: NS.
- COLLETTE, B.B. 1995. *Potamobatrachus trispinosus*, a new freshwater toadfish (Batrachoididae) from the Rio Tocantins, Brazil. *Ichthyol. Explor. Freshwaters* 6(4):333-336. Ordering address code: NS.
- COLLETTE, B.B. 1995. [Family] Scombridae. In: Fischer, W.; Krupp, F.; Schneider, W.; Sommer, C.; Carpenter, K.E.; Niem, V.H., eds. *Guia FAO para la identificacion de especies para los fines de la pesca: Pacifico Centro-Oriental. Vol. III. Vertebrados--Parte 2.* Rome, Italy: U.N. Food and Agriculture Organization; p. 1521-1543. Ordering address code: NS.
- COLLETTE, B.B. 1995. *Tondanichthys kottelati*, a new genus and species of freshwater halfbeak (Teleostei: Hemiramphidae) from Sulawesi. *Ichthyol. Explor. Freshwaters* 6(2):171-174. Ordering address code: NS.
- COLLETTE, B.B.; VECCHIONE, M. 1995. Interactions between fisheries and systematics. *Fisheries* 20(1):20-25. Ordering address code: NS.
- DESHPANDE, A.D.; POWELL, P.M. 1995. Organic contaminants in sediments of the New York Bight apex associated with sewage sludge dumping. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. *Effects of the cessation of sewage sludge dumping at the 12-mile site.* NOAA [Natl. Ocean. Atmos. Admin.] *Tech. Rep. NMFS* [Natl. Mar. Fish. Serv.] 124:101-112. Ordering address code: SH.

- DRAXLER, A.F.J. 1995. Changes in sediment biogeochemistry resulting from cessation of sewage dumping in the New York Bight. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] Tech. Rep. NMFS [Natl. Mar. Fish. Serv.] 124:133-143. Ordering address code: SH.
- Felley, J.D.; VECCHIONE, M. 1995. Assessing habitat use by nekton on the continental slope using archived videotapes from submersibles. *Fish. Bull. (U.S.)* 93(2):262-273. Ordering address code: NS.
- FOGARTY, M.J. 1995. Rejoinder: chaos, complexity and community management of fisheries: an appraisal. *Mar. Pol.* 19(5):437-444. Ordering address code: WH (c/o F.P. Almeida).
- Gaines, J.; REID, R.N. 1995. Reduction in *Clostridium perfringens* and fecal coliform bacteria in the shellfish closure area of the New York Bight. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] Tech. Rep. NMFS [Natl. Mar. Fish. Serv.] 124:227-232. Ordering address code: SH.
- Gladu, P.K.; Patterson, G.W.; WIKFORS, G.H.; SMITH, B.C. 1995. Sterol, fatty acid, and pigment characteristics of UTEX 2341, a marine eustigmatophyte identified previously as *Chlorella minutissima* (Chlorophyceae). [Note]. *J. Phycol.* 31:774-777. Ordering address code: MF.
- HAIN, J.H.W.; Ellis, S.L.; Kenney, R.D.; Clapham, P.J.; Gray, B.K.; Weinrich, M.T.; Babb, I.G. 1995. Apparent bottom feeding by humpback whales on Stellwagen Bank. *Mar. Mammal Sci.* 11(4):464-479. Ordering address code: WH.
- HELSEY, T.E.; HAYES, D.B. 1995. Providing quantitative management advice from stock abundance indices based on research surveys. *Fish. Bull. (U.S.)* 93(2):290-298. Ordering address code: SH.

KOHLER, N.E.; CASEY, J.G.; TURNER, P.A. 1995. Length-weight relationships for 13 species of sharks from the western North Atlantic. *Fish. Bull. (U.S.)* 93(2):412-418. Ordering address code: NG.

Kornfield, I.; WILLIAMS, A.B.; Steneck, R.S. 1995. Assignment of *Homarus capensis* (Herbst, 1792) the cape lobster of South Africa, to the new genus *Homarinus* (Decapoda: Nephropidae). *Fish. Bull. (U.S.)* 93(1):97-102. Ordering address code: NS.

MAHONEY, J.B.; MCGHEE, J.A.; McNULTY, J.K. 1995. Comparison of suitability of Great Bay, New Jersey, and Parsonage Creek, New York, for *Alexandrium tamarensis*. *J. Euk. Microbiol.* 42(6):715-721. Ordering address code: SH.

MANNING, J. 1995. Observations of bottom currents and estimates of resuspended sediment transport in the vicinity of the 12-mile dumpsite. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] Tech. Rep. NMFS [Natl. Mar. Fish. Serv.] 124:33-47. Ordering address code: WH.

MESSICK, G. 1995. Laboratory techniques to detect parasites and diseases in blue crabs, *Callinectes sapidus*. Chapter 24 in: Stolen, J.S.; Fletcher, T.C.; Smith, S.A.; Zelikoff, J.T.; Kaattari, S.L.; Anderson, R.S.; Söderhäll, K.; Weeks-Perkins, B.A., eds. Immunology and pathology of aquatic invertebrates. *Tech. Fish Immunol.* 4:187-200. Ordering address code: OF.

MORSE, W.W.; Able, K.W. 1995. Distribution and life history of windowpane, *Scophthalmus aquosus*, off the northeastern United States. *Fish. Bull. (U.S.)* 93(4):675-693. Ordering address code: SH.

- MOUNTAIN, D.G.; ARLEN, L. 1995. Oceanographic conditions in the inner New York Bight during the 12-mile dumpsite study. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] Tech. Rep. NMFS [Natl. Mar. Fish. Serv.] 124:21-31. Ordering address code: WH.
- MUNROE, T.A.; Krupp, F.; Schneider, M. 1995. [Family] Cynoglossidae. In: Fischer, W.; Krupp, F.; Schneider, W.; Sommer, C.; Carpenter, K.E.; Niem, V.H., eds. Guia FAO para la identificacion de especies para los fines de la pesca: Pacifico Centro-Oriental. Vol. II. Vertebrados--Parte 1. Rome, Italy: U.N. Food and Agriculture Organization; p. 1039-1059. Ordering address code: NS.
- O'REILLY, J.[E.]; Katz, I.J.; DRAXLER, A.F.J. 1995. Changes in the abundance and distribution of *Clostridium perfringens*, a microbial indicator, related to cessation of sewage sludge dumping in the New York Bight. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] Tech. Rep. NMFS [Natl. Mar. Fish. Serv.] 124:113-132. Ordering address code: NG.
- OVERHOLTZ, W.J.; EDWARDS, S.F.; BRODZIAK, J.K.T. 1995. Effort control in the New England groundfish fishery: a bioeconomic perspective. *Can. J. Fish. Aquat. Sci.* 52(9):1944-1957. Ordering address code: WH.
- PACHECO, A.L. (deceased); Rugg, J.C. 1995. Disease prevalence of inner New York Bight winter flounder, *Pleuronectes americanus*, collected during the 12-mile dumpsite recovery study, 1986-1989. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] Tech. Rep. NMFS [Natl. Mar. Fish. Serv.] 124:195-201. Ordering address code: SH (c/o S.J. Wilk).

- PACKER, D.; FINNERAN, T. [W.]; ARLEN, L.; KOCH, R.; FROMM, S.; FINN, J. [R.]; FROMM, S.; DRAXLER, A.F.J. 1995. Fundamental and mass properties of surficial sediments in the inner New York Bight and responses to the abatement of sewage sludge dumping. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] Tech. Rep. NMFS [Natl. Mar. Fish. Serv.] 124:155-169. Ordering address code: SH.
- PALKA, D. 1995. Abundance estimate of the Gulf of Maine harbor porpoise. In: Bjørge, A.; Donovan, G.P., eds. Biology of the phocoenids: a collection of papers. Rep. Int. Whal. Comm. Spec. Iss. 16:27-50. Ordering address code: WH.
- PALKA, D. 1995. Influences on spatial patterns of Gulf of Maine harbor porpoises. In: Blix, A.S.; Walløe, L.; Ulltang, Ø., eds. *Whales, seals, fish and man*. Amsterdam, The Netherlands: Elsevier Science Publishers B.V.; p. 69-75. Ordering address code: WH.
- Pequegnat, L.H.; WILLIAMS, A.B. 1995. Two new species of *Munidopsis* (Decapoda: Anomura: Galatheididae) from the western Atlantic Ocean. *J. Crustacean Biol.* 15(4):786-792. Ordering address code: NS.
- PHELAN, B.A. 1995. Patterns of winter flounder, *Pleuronectes americanus*, abundance and distribution in relation to the 12-mile sewage sludge dumpsite in the New York Bight. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] Tech. Rep. NMFS [Natl. Mar. Fish. Serv.] 124:185-193. Ordering address code: SH.

PHOEL, W.C.; FROMM, S.; ZETLIN, C.; FROMM, S.A.; SHARACK, K.; Gray, G. 1995. Changes in sediment oxygen consumption in relation to the phaseout and cessation of dumping at the New York Bight sewage sludge dumpsite. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] Tech. Rep. NMFS [Natl. Mar. Fish. Serv.] 124:145-154. Ordering address code: SH (c/o S. Fromm).

PIKANOWSKI, R.[A.] 1995. Experimental design of the 12-mile dumpsite study. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] Tech. Rep. NMFS [Natl. Mar. Fish. Serv.] 124:13-18. Ordering address code: SH.

Poss, S.G.; COLLETTE, B.B. 1995. Second survey of fish collections in the United States and Canada. *Copeia* 1995(1):48-70. Ordering address code: NS.

PRATT, H.L., Jr.; Carrier, J.C. 1995. Wild mating of the nurse sharks. *Natl. Geogr.* 187(5):44-53. Ordering address code: NG.

REID, R.N.; FROMM, S.A.; FRAME, A.B.; JEFFRESS, D.; VITALIANO, J.J.; RADOSH, D.J.; FINN, J.R. 1995. Limited responses of benthic macrofauna and selected sewage sludge components to phaseout of sludge disposal in the inner New York Bight. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] Tech. Rep. NMFS [Natl. Mar. Fish. Serv.] 124:213-225. Ordering address code: SH.

ROBOHM, R.A.; KOCH, R.A. 1995. Evidence for oral ingestion as the principal route of antigen entry in bath-immunized fish. *Fish Shellfish Immunol.* 5:137-150. Ordering address code: MF.

Rodriguez, G.; WILLIAMS, A.B. 1995. *Epilobocera wetherbeeii*, a new species of freshwater crab (Decapoda: Brachyura: Pseudothelphusidae) from Hispaniola. *Proc. Biol. Soc. Wash.* 108(1):76-83. Ordering address code: NS.

Sakuri, Y.; Young, R.E.; Hirota, J.; Mangold, K.; VECCHIONE, M.; Clarke, M.R.; Bower, J. 1995. Artificial fertilization and development through hatching in the oceanic squids *Ommastrephes bartramii* and *Sthenoteuthis oualaniensis* (Cephalopoda: Ommastrephidae). *Veliger* 38(3):185-191. Ordering address code: NS.

Shaheen, P.A.; STEIMLE, F.W. [, Jr.] 1995. Trends in copepod communities in the Navesink and Shrewsbury Rivers, New Jersey: 1962-1992. *Estuaries* 18(1B):250-254. Ordering address code: SH.

STEHLIK, L.L.; WILK, S.J. 1995. Life history aspects of Atlantic rock, jonah, and lady crabs in the area of the 12-mile dumpsite, New York Bight. *Bull. N.J. Acad. Sci.* 40(2):1-11. Ordering address code: SH.

STEIMLE, F.W., Jr. 1995. Effects of sewage sludge disposal cessation on winter flounder, red hake, and lobster feeding and diets in the New York Bight apex. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] *Tech. Rep. NMFS* [Natl. Mar. Fish. Serv.] 124:203-211. Ordering address code: SH.

STEIMLE, F.W. [, Jr.]; BURNETT, J.M.; THEROUX, R.B. 1995. A history of benthic research in the NMFS Northeast Fisheries Science Center. *Mar. Fish. Rev.* 57(2):1-13. Ordering address code: SH.

STUDHOLME, A.L.; O'REILLY, J.E.; INGHAM, M.C., editors. 1995. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] *Tech. Rep. NMFS* [Natl. Mar. Fish. Serv.] 124; 257 p. Ordering address code: SH.

- VECCHIONE, M.; Sweeney, M.J. 1995. Comments on the proposed conservation of the specific names of *Octopus vulgaris* Cuvier, [1797] and *Loligo vulgaris*, Lamarck 1798 (Mollusca, Gastropoda sic). *Bull. Zool. Nomen.* 52(4):333-334.
- WIKFORS, G.H.; Smolowitz, R.M. 1995. Experimental and histological studies of four life-history stages of the eastern oyster, *Crassostrea virginica*, exposed to a cultured strain of the dinoflagellate *Prorocentrum minimum*. *Biol. Bull. (Woods Hole)* 188:313-328. Ordering address code: MF.
- WILK, S.J.; PIKANOWSKI, R.A.; PACHECO, A.L.; McMILLAN, D.G.; STEHLIK, L.L. 1995. Response of fish and megainvertebrates of the New York Bight apex to the abatement of sewage sludge dumping--an overview. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] *Tech. Rep. NMFS* [Natl. Mar. Fish. Serv.] 124:173-183. Ordering address code: SH.
- WILLIAMS, A.B. 1995. Taxonomy and evolution. Chapter 2 in: Factor, J.R., ed. *Biology of the lobster* [,] *Homarus americanus*. Orlando, FL: Academic Press; p. 13-21. Ordering address code: NS.
- ZDANOWICZ, V.S.; CUNNEFF, S.L.; FINNERAN, T.W. 1995. Reductions in sediment metal contamination in the New York Bight apex with the cessation of sewage sludge dumping. In: Studholme, A.L.; O'Reilly, J.E.; Ingham, M.C., eds. Effects of the cessation of sewage sludge dumping at the 12-mile site. NOAA [Natl. Ocean. Atmos. Admin.] *Tech. Rep. NMFS* [Natl. Mar. Fish. Serv.] 124:89-100. Ordering address code: SH.

REPORTS

- BENWAY, R.L.; JOSSI, J.W. 1995. Surface and bottom temperatures, and surface salinities: New York to the Gulf Stream, Massachusetts to Cape Sable N.S. 1994. NAFO [Northwest Atl. Fish. Org.] *SCR* [Sci. Counc. Res.] *Doc.* 95/15; 13 p. Ordering address code: NG.

BENWAY, R.L.; JOSSI, J.W. 1995. Water-column thermal structure in the Middle Atlantic Bight and the Gulf of Maine for 1993 and 1994. *Northeast Fish. Sci. Cent. Ref. Doc.* 95-11; 25 p. Ordering address code: NG.

BRODZIAK, J.K.T.; OVERHOLTZ, W.J. 1995. A comparison of some biological reference points for fisheries management. *Northeast Fish. Sci. Cent. Ref. Doc.* 95-15; 16 p. Ordering address code: WH (c/o W.J. Overholtz).

CHANG, S.; PEARCE, J.B. 1995. Epibenthic communities at three temperate reef sites: measures of species association, abundance and substrate preference. In: *ECOSSET '95: International Conference on Ecological System Enhancement Technology for Aquatic Environments--the Sixth International Conference on Aquatic Habitat Enhancement*. Tokyo, Japan: Japan International Marine Science and Technology Federation; p. 334-340. Ordering address code: SH.

Conservation and Utilization Division, Northeast Fisheries Science Center. 1995. Status of fishery resources off the northeastern United States for 1995. NOAA [Natl. Ocean. Atmos. Admin.] *Tech. Memo. NMFS [Natl. Mar. Fish. Serv.]-NE [Northeast]-108*; 140 p. Ordering address code: WH (c/o S.A. Murawski).

Foster, K.L.; Kropp, R.K.; STEIMLE, F.W. [, Jr.]; Muir, W.C.; Conlin, B.E. 1995. Fish community and feeding habitats at a pre-fabricated concrete artificial reef in Delaware Bay, U.S.A. In: *ECOSSET '95: International Conference on Ecological System Enhancement Technology for Aquatic Environments--the Sixth International Conference on Aquatic Habitat Enhancement*. Tokyo, Japan: Japan International Marine Science and Technology Federation; p. 266-271. Ordering address code: SH.

HAIN, J. [H.W.] 1995. Progress toward an airship for ocean research. Paper No. AIAA 95-1604 prepared for: 11th AIAA [Am. Inst. Aeronaut. Astronaut.] Lighter-than-Air Systems Technology Conference; May 15-18, 1995; Clearwater Beach, FL; 4 p. Ordering address code: WH.

- Leavitt, D.F.; McDowell Capuzzo, J.; WEINBERG, J.R. 1995. Shellfish resources and their management. In: Colgan, C.S., ed. *Sustaining coastal resources: economics and the natural sciences*. Portland, ME: University of Southern Maine, Edmund S. Muskie Institute of Public Affairs; p. 185-193. Ordering address code: WH.
- MacKENZIE, C.L., Jr. 1995. The eel fishery of Martha's Vineyard. *Dukes County Intelligencer* 36(3):120-144. Ordering address code: SH.
- MANNING, J.; HOLZWARATH-DAVIS, T.; TAYLOR, M.; ROTUNNO, T.; MOUNTAIN, D.; LOUGH, G. 1995. Georges Bank stratification study: 1992 data report; *Albatross IV* 92-04 & 92-05; 27 April - 29 May, 1992. *Northeast Fish. Sci. Cent. Ref. Doc.* 95-10; 109 p. Ordering address code: WH.
- [Marine Mammal Investigation, Conservation and Utilization Division]. 1995. An independent scientific peer review of North Atlantic right whale research supported by the Northeast Fisheries Science Center. *Northeast Fish. Sci. Cent. Ref. Doc.* 95-01; 30 p. Ordering address code: WH (c/o D.G. Potter).
- MAYO, R.K. 1995. Assessment of the Gulf of Maine cod stock for 1994. *Northeast Fish. Sci. Cent. Ref. Doc.* 95-02; 73 p. Ordering address code: WH.
- [Northeast Fisheries Science Center]. 1995. Report of the 19th Northeast Regional Stock Assessment Workshop (19th SAW): Stock Assessment Review Committee (SARC) consensus summary of assessments. *Northeast Fish. Sci. Cent. Ref. Doc.* 95-08; 221 p. Ordering address code: WH (c/o H. Mustafa).
- [Northeast Fisheries Science Center]. 1995. Report of the 19th Northeast Regional Stock Assessment Workshop (19th SAW): the plenary. *Northeast Fish. Sci. Cent. Ref. Doc.* 95-09; 57 p. Ordering address code: WH (c/o H. Mustafa).
- PALKA, D. 1995. Proposed design of 1995 abundance survey of harbor porpoises in the Gulf of Maine. *Rep. Int. Whal. Comm.* SC/47/SM22; 10 p. Ordering address code: WH.

- Samways, M.J.; Stork, N.E.; Cracraft, J.; Eeley, H.A.C.; Foster, M.; Lund, G.; Hilton-Taylor, C. (lead authors); Beehler, B.; Chatounovski, M.I.; Daniels, R.; Droege, S.; Edwards, J.; Evans, D.; Hayek, L.-A.; Larson, J.; Linden, D.; Manokaran, N.; McDiarmid, R.; Phillips, O.; Robertson-Vernhes, J.; Rodenburg, E.; SHERMAN, K.; Soberón, J.; Striganova, B.R. (contributors). 1995. Scales, planning and approaches to inventorying and monitoring. [Section 7.2 of Chapter 7-- Inventorying and monitoring]. In: Heywood, V.H., exec. ed. *Global biodiversity assessment*. Cambridge, England: Cambridge University Press; p. 475-517. Ordering address code: NG.
- SHEPHERD, G. 1995. A worldwide view of overfishing. *N.J. Fish Wildl. Dig.* 8(3):1-2. Ordering address code: WH.
- SHERMAN, K. 1995. Large marine ecosystems and ocean management. [Point of view paper]. In: *Proceedings from Creating the Mosaic: an Ocean Management Conference for the Pacific Coast of the United States; September 9-11, 1995; Governor Hotel, Portland, Oregon*. Portland, OR: Oregon Coastal Ocean Management Program; 15 p. Ordering address code: NG.
- SHERMAN, K.; Elder, D. 1995. Sustainability, development, and health of coastal ecosystems: an ecological perspective. [Discussion paper]. Prepared for: Special Session, LOICZ [Land-Ocean Interact. Coast. Zone] Open Science Meeting; Apr. 24-27, 1995; University of the Phillipines, Manila, Phillipines; 3 p. Ordering address code: NG.
- SHERMAN, K.; JOSSI, J.; GREEN, J.[R.]; KANE, J. 1995. Zooplankton and fisheries of the Northeast Shelf Large Marine Ecosystem. *ICES [Int. Counc. Explor. Sea] C.M.* 1995/L:18; 14 p. Ordering address code: NG.
- STEIMLE, F.[W., Jr.] 1995. Hard bottom polyhaline communities. In: Dove, L.E.; Nyman, R.M., eds. *Living resources of the Delaware Estuary*. New York, NY: Delaware Estuary Program, U.S. Environmental Protection Agency; p. 113-117. Ordering address code: SH.

STEIMLE, F. [W., Jr.] 1995. Small decapods. In: Dove, L.E.; Nyman, R.M., eds. *Living resources of the Delaware Estuary*. New York, NY: Delaware Estuary Program, U.S. Environmental Protection Agency; p. 69-73. Ordering address code: SH.

STEIMLE, F. [W., Jr.] 1995. Soft (mud/sand) bottom polyhaline communities. In: Dove, L.E.; Nyman, R.M., eds. *Living resources of the Delaware Estuary*. New York, NY: Delaware Estuary Program, U.S. Environmental Protection Agency; p. 119-124. Ordering address code: SH.

STEIMLE, F. [W., Jr.] 1995. Structure-oriented (reef) fish. In: Dove, L.E.; Nyman, R.M., eds. *Living resources of the Delaware Estuary*. New York, NY: Delaware Estuary Program, U.S. Environmental Protection Agency; p. 267-273. Ordering address code: SH.

Stork, N.E.; Samways, M.J.; Bryant, D.A. (lead authors); Cracraft, J.; Eeley, H.A.C.; Grant, S.; Manokaran, N.; Mawdsley, N.A.; SHERMAN, K. (contributors). 1995. Why inventory and monitor biodiversity? [Section 7.1 of Chapter 7--Inventorying and monitoring]. In: Heywood, V.H., exec. ed. *Global biodiversity assessment*. Cambridge, England: Cambridge University Press; p. 461-475. Ordering address code: NG.

Stork, N.E.; Samways, M.J. (lead authors); Bryant, D.A.; Cracraft, J.; SHERMAN, K. (contributors). 1995. Introduction. [Section 7.0 of Chapter 7--Inventorying and monitoring]. In: Heywood, V.H., exec. ed. *Global biodiversity assessment*. Cambridge, England: Cambridge University Press; p. 459-461. Ordering address code: NG.

Stork, N.E.; SHERMAN, K. (lead authors). 1995. Integrated approaches. [Section 7.3 of Chapter 7--Inventorying and monitoring]. In: Heywood, V.H., exec. ed. *Global biodiversity assessment*. Cambridge, England: Cambridge University Press; p. 517-538. Ordering address code: NG.

TAYLOR, M.; MANNING, J.; LOUGH, G.; ROTUNNO, T.; KILADIS, M.; MOUNTAIN, D. 1995. 1993 Georges Bank stratification study. *Northeast Fish. Sci. Cent. Ref. Doc.* 95-12; 58 p. Ordering address code: WH.

THUNBERG, E.M.; HELSER, T.E.; MAYO, R.K. 1995. Bio-economic analysis of alternative selection patterns in the United States Atlantic silver hake fishery. In: Bio-economic modelling in the EU: workshop, Edinburgh 24-26.10.1995. [European Union] *Coor. Res. Fish. Econ.* (AIR CT94 1489) *Work. Doc.* 7; p. 100-128.

WARING, G.T.; Finn, J.T. 1995. Cetacean trophic interactions off the northeast USA inferred from spatial and temporal co-distribution patterns. *ICES [Int. Counc. Explor. Sea] C.M.* 1995/N:7; 44 p. Ordering address code: WH.

ABSTRACTS (Oral and Poster Presentation)

Able, K.W.; STUDHOLME, A.L.; Manderson, J.P. 1995. Juvenile fish habitat quality: comparisons between impacted and relatively unimpacted estuaries. [Oral presentation]. In: *American Fisheries Society 125th Annual Meeting ("Fisheries: a vision for the future--science, application, communication")*; Tampa Convention Center, Tampa, Florida; August 27 to August 31, 1995; p. 209. Ordering address code: SH.

BERMAN, M.S.; GREEN, J.R.; Holliday, D.V. 1995. Hydroacoustic determination of fine scale vertical distribution of zooplankton on Georges Bank. [Oral presentation]. Abstract No. GLO-08 in: *Oceanography Society Fourth Scientific Meeting; Newport, Rhode Island; April 18-21, 1995*; p. 74. Ordering address code: NG.

Besser, J.; Giesy, J.; BROWN, R.[W.]; Herdt, T.; Dawson, G. 1995. Bioaccumulation of selenium from coal fly ash and associated environmental hazards in a freshwater fish community. [Oral presentation]. In: *Abstract book: Second SETAC [Soc. Environ. Toxicol. Chem.] World Congress (16th Annual Meeting)--Global Environmental Protection: Science Politics, and Common Sense--5-9 November 1995; Vancouver Trade & Convention Centre: Vancouver, British Columbia, Canada*; p. 147. Ordering address code: WH.

- BISAGNI, J.J.; Pettigrew, N.R.; SEEMANN, K.W.; Hetland, R. 1995. Mesoscale structure in the northern Gulf of Maine, fall 1993 - summer 1994. [Oral presentation]. Abstract No. GLO-04 in: *Oceanography Society Fourth Scientific Meeting; Newport, Rhode Island; April 18-21, 1995*; p. 72. Ordering address code: NG.
- BROWN, R.W. 1995. Evaluation of minimum size and slot limit regulations on lake trout in the upper Great Lakes. [Oral presentation]. In: *Program and abstracts: American Fisheries Society Southern New England Chapter 1995 Winter Meeting; Wednesday, December 6, 1995[,] at the University of Massachusetts in Dartmouth, Massachusetts; n.p.* Ordering address code: WH.
- CORBO, K.; DESHPANDE, A.D.; ZDANOWICZ, V.S.; DRAXLER, A.F.J.; Rosman, L.; May, B. 1995. Contaminant levels in recreational fish from the New York Bight apex. [Oral presentation]. In: *Program & abstracts: New Jersey Academy of Sciences 40th Annual Meeting; Seton Hall University, South Orange, New Jersey; April 29, 1995; n.p.* Ordering address code: SH.
- Curran, H.A.; WILLIAMS, A.B. 1995. Callianassid shrimp bioturbation in Bahamian reefal environments: effects and significance. [Oral presentation]. Prepared for: 8th International Coral Reef Symposium; June 24-29, 1996; Panama City, Panama; 1 p. Ordering address code: NS.
- DRAXLER, A.F.J.; Loveland, R.E. 1995. Biogeochemistry and spawning site selection in horseshoe crabs. [Poster presentation]. In: *23rd Benthic Ecology Meeting; New Brunswick, New Jersey; [March 16-19,] 1995; n.p.* Ordering address code: SH.
- GABRIEL, W.G. 1995. Overview of models of spatial patterns of resource availability: implications for design of closed areas. [Oral presentation]. Prepared for: Meeting of the Working Group on Long-Term Management Measures; Apr. 4-12, 1995; Lowestoft, United Kingdom; 1 p. Ordering address code: WH.

- HAIN, J.H.W.; Ellis, S.L. 1995. Sightability of right whales in coastal waters of the SE [southeastern] U.S. with implications for aerial survey methodology. [Oral presentation]. In: *Abstracts: Eleventh Biennial Conference on the Biology of Marine Mammals; 14-18 December 1995; Orlando, Florida, U.S.A.*; p. 49. Ordering address code: WH.
- JOSSI, J.W.; GOULET, J.R., Jr. 1995. Clustering applied to the development of spatially coherent, multidecadal time series. [Poster presentation]. In: *Oceanography Society Fourth Scientific Meeting; Newport, Rhode Island; April 18-21, 1995*; p.n.k. Ordering address code: NG.
- KOCIK, J.F.; FRIEDLAND, K.D. 1995. Thermal analyses of Connecticut and Penobscot River-ocean transition zones for Atlantic salmon smolts: clues for reintroducing stocks. [Oral presentation]. Abstract No. C.M. 1995/M:19 prepared for: 1995 ICES [Int. Counc. Explor. Sea] Annual Science Conference; Sept. 21-29, 1995; Aalborg, Denmark; 1 p. Ordering address code: WH.
- KOCIK, J.F.; McKeon, J.F.; Beland, K.F. 1995. The status of remnant Atlantic salmon in Maine. [Oral presentation]. Prepared for: 21st Annual Meeting of the American Fisheries Society Atlantic International Chapter; Sept. 24-26, 1995; Shelburne, NH; n.p. Ordering address code: WH.
- LANG, K.L. 1995. Marginal increment analysis of "daily" growth rings in larval winter flounder, *Pleuronectes americanus*. [Oral presentation]. In: *International Larval Fish Conference; 1995 26-30 June & Annual Conference of the Australian Society for Fish Biology; [1995] 1-2 July; Sydney, Australia*; p. 71. Ordering address code: WH.
- MackENZIE, C.L., Jr. 1995. Some factors controlling natural populations of softshells, *Mya arenaria*, with recommendations for culture. [Oral presentation]. *J. Shellfish Res.* 14(1):245. Ordering address code: SH.

- MEISE, C.J.; O'REILLY, J.E.; KANE, J. 1995. Spatial and seasonal patterns in abundance and age-composition of *Calanus finmarchicus* spp. in the Gulf of Maine and on Georges Bank: 1977-1987. [Oral presentation]. Abstract No. GLO-10 in: *Oceanography Society Fourth Scientific Meeting; Newport, Rhode Island; April 18-21, 1995*; p. 75. Ordering address code: SH.
- Muir, W.C.; STEIMLE, F.W. [, Jr.]; Foster, K.L.; Kropp, R.K.; Conlin, B.E. 1995. Mitigation potential of habitat replacement: artificial reef replacement for fisheries enhancement in shallow waters of the Delaware Bay. [Oral presentation]. In: *Second Annual Marine and Estuarine Shallow Water Science and Management Conference; April 3-7, 1995; Holiday Inn on the Boardwalk, Atlantic City, NJ*; n.p. Ordering address code: SH.
- NELSON, D.A.; Wheeler, G.L.; Miller, J.; Finney, S.; Solairaj, M.; Rytka, R.; Rychlovsky, R. 1995. The influence of dredging-induced turbidity and associated contaminants upon hatching success and larval survival of winter flounder, *Pleuronectes americanus*. A laboratory study. [Poster presentation]. In: *International Larval Fish Conference; 1995 26-30 June & Annual Conference of the Australian Society for Fish Biology; [1995] 1-2 July; Sydney, Australia*; p. 81. Ordering address code: MF.
- O'REILLY, J.E.; BISAGNI, J.J.; Barnard, A.H.; WOLFTEICH, C.M.; Yoder, J.A. 1995. Optimum aerosol optimum thickness ratios for atmospheric correction of coastal zone color scanner (CZCS) data for Georges Bank - Gulf of Maine region. [Oral presentation]. Abstract No. GLO-03 in: *Oceanography Society Fourth Scientific Meeting; Newport, Rhode Island; April 18-21, 1995*; p. 72. Ordering address code: NG.
- PALKA, D. 1995. The sightability of Gulf of Maine harbor porpoises. [Oral presentation]. In: *Abstracts: Eleventh Biennial Conference on the Biology of Marine Mammals; 14-18 December 1995; Orlando, Florida, U.S.A.*; p. 88. Ordering address code: WH.

- PERRY, D.M.; NELSON, D.A. 1995. The viability of *Tautoga onitis* embryos from New Haven Harbor, Connecticut USA. [Oral presentation]. In: *International Larval Fish Conference; 1995 26-30 June & Annual Conference of the Australian Society for Fish Biology; [1995] 1-2 July; Sydney, Australia; p. 95. Ordering address code: MF.*
- PITCHFORD, S.C.; ROBOHM, R.A. 1995. An analysis of similarity coefficients and taxonomic clustering methods for identification of bacterial fish pathogens. [Oral presentation]. In: *1995 Joint Meeting: American Fisheries Society Fish Health Section and Eastern Fish Disease Workshop; July 19-22, 1995; Syracuse, New York; n.p. Ordering address code: MF.*
- RAGO, P.J.; SOSEBEE, K.; BRODZIAK, J.[K.T.]; ANDERSON, E. 1995. Distribution and dynamics of Northwest Atlantic spiny dogfish[,] *Squalus acanthias*. [Oral presentation]. In: *American Fisheries Society 125th Annual Meeting ("Fisheries: a vision for the future--science, application, communication"); Tampa Convention Center, Tampa, Florida; August 27 to August 31, 1995; p. 132. Ordering address code: WH.*
- Rubenstein, B.L.; WARING, G.T. 1995. Spatial and temporal patterns in pinniped entanglements in the Gulf of Maine sink gillnet fishery and relation to prey availability and consumption. [Oral presentation]. In: *Abstracts: Eleventh Biennial Conference on the Biology of Marine Mammals; 14-18 December 1995; Orlando, Florida, U.S.A.; p. 100. Ordering address code: WH.*
- RICHARDS, R.A. 1995. Relative influence of temperature and population fecundity on recruitment of *Pandalus borealis* in the Gulf of Maine. [Oral presentation]. In: *North Pacific Symposium on Invertebrate Stock Assessment and Management; March 6-10, 1995; Coast Bastion Inn, Nanaimo, British Columbia, Canada; p. 91. Ordering address code: WH (c/o P.J. Rago).*

- RICHARDS, [R.]A.; HENDRICKSON, L. 1995. Effectiveness of the Nordmore grate in reducing by-catch of finfish in shrimp trawls. [Oral presentation]. In: *American Fisheries Society 125th Annual Meeting ("Fisheries: a vision for the future--science, application, communication")*; Tampa Convention Center, Tampa, Florida; August 27 to August 31, 1995; p. 23. Ordering address code: WH (c/o L. Hendrickson).
- SHEEHAN, D.; WARING, G.T.; WILLIAMS, A.S. 1995. Sperm whale and beaked whale distribution and habitat use in shelf-edge and oceanic waters off the northeast U.S. coast. [Oral presentation]. In: *Abstracts: Eleventh Biennial Conference on the Biology of Marine Mammals; 14-18 December 1995; Orlando, Florida, U.S.A.*; p. 104. Ordering address code: WH.
- STEIMLE, F.W. [, Jr.]; Muir, W.W. 1995. The use of artificial reefs to increase biodiversity in coastal marine and estuarine waters. [Oral presentation]. In: *Abstracts: 51st Northeast Fish & Wildlife Conference; April 9-12, 1995; Sheraton Fountainebleau Hotel, Ocean City, Maryland; sect. II*, p. 3. Ordering address code: SH.
- STILES, S.; CHOROMANSKI, J. 1995. Inbreeding studies of the bay scallop, *Argopecten irradians*. [Oral presentation]. *J. Shellfish Res.* 14(1):278. Ordering address code: MF.
- VITALIANO, J.[J.]; ZDANOWICZ, V.[S.]; BEJDA, A. 1995. Laboratory photographic and video observations of the surface deposit feeding polychaete, *Pherusa affinis*. [Oral presentation]. In: *23rd Benthic Ecology Meeting; New Brunswick, New Jersey; [March 16-19,] 1995; n.p.* Ordering address code: SH.
- WIDMAN, J.C., Jr.; CHOROMANSKI, J.; ROBOHM, R.[A.]; STILES, S.; WIKFORS, G.[H.] 1995. Bay scallop, *Argopecten irradians irradians*, aquaculture initiative, a multi-disciplinary approach. [Oral presentation]. In: *Book of abstracts: 10th International Pectinid Workshop; Jury's Hotel, Cork, Ireland; April 27- May 2[,] 1995*; p. 132. Ordering address code: MF.

WIKFORS, G.H.; Patterson, G.W.; Lewin, R.A. 1995. High-lipid *Tetraselmis* cultures support rapid growth of post-set oysters and scallops. [Oral presentation]. *J. Shellfish Res.* 14(1):282. Ordering address code: MF.

ZISKOWSKI, J.J.; Jacquez, G.M.; PEREIRA, J.J. 1995. Axial skeletal anomalies in flounder--a useful biomarker for monitoring whale critical habitat. [Poster presentation]. Prepared for: New England Association of Environmental Biologists Annual Meeting; Mar. 1-3, 1995; Westminster, PA; 2 p. Ordering address code: MF.