



NOAA Technical Report NMFS SSRF-729

References for the Identification of Marine Invertebrates on the Southern Atlantic Coast of the United States

Richard E. Dowds

April 1979

NOAA TECHNICAL REPORTS

National Marine Fisheries Service, Special Scientific Report—Fisheries

The major responsibilities of the National Marine Fisheries Service (NMFS) are to monitor and assess the abundance and geographic distribution of fishery resources, to understand and predict fluctuations in the quantity and distribution of these resources, and to establish levels for optimum use of the resources. NMFS is also charged with the development and implementation of policies for managing national fishing grounds, development and enforcement of domestic fisheries regulations, surveillance of foreign fishing off United States coastal waters, and the development and enforcement of international fishery agreements and policies. NMFS also assists the fishing industry through marketing service and economic analysis programs, and mortgage insurance and vessel construction subsidies. It collects, analyzes, and publishes statistics on various phases of the industry.

The Special Scientific Report—Fisheries series was established in 1949. The series carries reports on scientific investigations that document long-term continuing programs of NMFS, or intensive scientific reports on studies of restricted scope. The reports may deal with applied fishery problems. The series is also used as a medium for the publication of bibliographies of a specialized scientific nature.

NOAA Technical Reports NMFS SSRF are available free in limited numbers to governmental agencies, both Federal and State. They are also available in exchange for other scientific and technical publications in the marine sciences. Individual copies may be obtained (unless otherwise noted) from D825, Technical Information Division, Environmental Science Information Center, NOAA, Washington, D.C. 20235. Recent SSRFs are:

649. Distribution of forage of skipjack tuna (*Euthynnus pelamis*) in the eastern tropical Pacific. By Maurice Blackburn and Michael Laurs. January 1972, iii + 16 p., 7 figs., 3 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
650. Effects of some antioxidants and EDTA on the development of rancidity in Spanish mackerel (*Scomberomorus maculatus*) during frozen storage. By Robert N. Farragut. February 1972, iv + 12 p., 6 figs., 12 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
651. The effect of premortem stress, holding temperatures, and freezing on the biochemistry and quality of skipjack tuna. By Ladell Crawford. April 1972, iii + 23 p., 3 figs., 4 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
653. The use of electricity in conjunction with a 12.5-meter (Headrope) Gulf-of-Mexico shrimp trawl in Lake Michigan. By James E. Ellis. March 1972, iv + 10 p., 11 figs., 4 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
654. An electric detector system for recovering internally tagged menhaden, genus *Brevoortia*. By R. O. Parker, Jr. February 1972, iii + 7 p., 3 figs., 1 app. table. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
655. Immobilization of fingerling salmon and trout by decompression. By Doyle F. Sutherland. March 1972, iii + 7 p., 3 figs., 2 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
656. The calico scallop, *Argopecten gibbus*. By Donald M. Allen and T. J. Costello. May 1972, iii + 19 p., 9 figs., 1 table. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
657. Making fish protein concentrates by enzymatic hydrolysis. A status report on research and some processes and products studied by NMFS. By Malcolm B. Hale. November 1972, v + 32 p., 15 figs., 17 tables, 1 app. table. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
658. List of fishes of Alaska and adjacent waters with a guide to some of their literature. By Jay C. Quast and Elizabeth L. Hall. July 1972, iv + 47 p. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
659. The Southeast Fisheries Center bionumeric code. Part I: Fishes. By Harvey R. Bullis, Jr., Richard B. Roe, and Judith C. Gatlin. July 1972, xl + 95 p., 2 figs. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
660. A freshwater fish electro-motivator (FFEM)-its characteristics and operation. By James E. Ellis and Charles C. Hoopes. November 1972, iii + 11 p., 2 figs.
661. A review of the literature on the development of skipjack tuna fisheries in the central and western Pacific Ocean. By Frank J. Hester and Tamio Otsu. January 1973, iii + 13 p., 1 fig. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
662. Seasonal distribution of tunas and billfishes in the Atlantic. By John P. Wise and Charles W. Davis. January 1973, iv + 24 p., 13 figs., 4 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
663. Fish larvae collected from the northeastern Pacific Ocean and Puget Sound during April and May 1967. By Kenneth D. Waldron. December 1972, iii + 16 p., 2 figs., 1 table, 4 app. tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
664. Tagging and tag-recovery experiments with Atlantic menhaden, *Brevoortia tyrannus*. By Richard L. Kroger and Robert L. Dryfoos. December 1972, iv + 11 p., 4 figs., 12 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
665. Larval fish survey of Humboldt Bay, California. By Maxwell B. Eldridge and Charles F. Bryan. December 1972, iii + 8 p., 8 figs., 1 table. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
666. Distribution and relative abundance of fishes in Newport River, North Carolina. By William R. Turner and George N. Johnson. September 1973, iv + 23 p., 1 fig., 13 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
667. An analysis of the commercial lobster (*Homarus americanus*) fishery along the coast of Maine, August 1966 through December 1970. By James C. Thomas. June 1973, v + 57 p., 18 figs., 11 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
668. An annotated bibliography of the cunner, *Tautoglabrus adspersus* (Wilbaum). By Fredric M. Serchuk and David W. Frame. May 1973, ii + 43 p. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
669. Subpoint prediction for direct readout meteorological satellites. By L. E. Eber. August 1973, iii + 7 p., 2 figs., 1 table. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
670. Unharvested fishes in the U.S. commercial fishery of western Lake Erie in 1969. By Harry D. Van Meter. July 1973, iii + 11 p., 6 figs., 6 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
671. Coastal upwelling indices, west coast of North America, 1946-71. By Andrew Bakun. June 1973, iv + 103 p., 6 figs., 3 tables, 45 app. figs. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.



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**References for the Identification
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Southern Atlantic Coast of
the United States**

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U.S. DEPARTMENT OF COMMERCE

Juanita M. Kreps, Secretary

National Oceanic and Atmospheric Administration

Richard A. Frank, Administrator

Terry L. Leitzell, Assistant Administrator for Fisheries

National Marine Fisheries Service

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References for the Identification of Marine Invertebrates on the Southern Atlantic Coast of the United States

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ABSTRACT

This collection of 638 citations provides an entry to the taxonomic literature on invertebrates of the continental shelf and estuaries from the Chesapeake Bay to northeastern Florida. Many of the citations are annotated and most include a list of North Carolina libraries in which they can be found. Author and systematic indices are provided.

INTRODUCTION

This bibliography has been compiled to provide an entry to the taxonomic literature on invertebrates of the continental shelf and estuaries from Chesapeake Bay to northeastern Florida. I have emphasized summary works covering large groups; the bibliographies of such works will lead one to the more specialized and detailed literature of those groups. Ecological material has been included when it seemed particularly valuable. I recognize that, even within these limitations, this compilation is incomplete; useful works may have been overlooked and new ones are continually being published.

In many cases the citation is followed by a list of North Carolina libraries in which it can be found. For books, these listings are complete only for the libraries of the University of North Carolina, Zoology Department, Chapel Hill, and the Institute of Marine Sciences, Morehead City. For journals, however, I have been able to record the holdings of the libraries listed below thanks to two invaluable publications: Littleton, I. T., and G. W. Houser (editors). 1967. *North Carolina Union List of Scientific Serials*, North Carolina State University, Raleigh; and Moreland, M. C. (editor). 1973. *Marine literature: Serial publications in libraries of the coastal plains region, Part II: North Carolina*, Coastal Plains Center for Marine Development Services, Wilmington.

Libraries

UNC-ZOOL	Zoology Department, University of North Carolina at Chapel Hill
UNC-MAIN	L. R. Wilson Library, University of North Carolina at Chapel Hill

IMS	Institute of Marine Sciences, University of North Carolina, Morehead City
DUKE-BIOL	Biology-Forestry Library, Duke University, Durham
DUML	Duke University Marine Laboratory, Beaufort
NCSU	D. H. Hill Library, North Carolina State University, Raleigh
NMFS	National Marine Fisheries Service Laboratory, Beaufort
ALL	refers to all of the above libraries.

Occasionally I have included other libraries in the listings, namely:

UNC-BOT	Botany Department, University of North Carolina at Chapel Hill
UNC-GEOL	Geology Department, University of North Carolina at Chapel Hill
UNC-HEALTH	Health Affairs Library, University of North Carolina at Chapel Hill
DUKE-GEN	W. R. Perkins Library, Duke University, Durham
DUKE-MED	Medical Center Library, Duke University, Durham
UNC-WILM	University of North Carolina at Wilmington.

The work of compiling this list of references has been aided by the efforts of many people. Numerous references have been obtained from earlier lists compiled by the Duke University Marine Laboratory and Deborah M. Dexter and from several of the books listed under Invertebrates - General. References, advice, and clerical help have been contributed by Lawrence Burns, A. F. Chestnut, Michael Crezée, Patricia Finn, Richard S.

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Fox, Thomas H. Fox, Stephen L. Gardiner, Jeffrey D. Green, J. Thompson Hunter, Charles E. Jenner, Eric Lindgren, David Nixon, Hugh J. Porter, Frank J. Schwartz, Sarah G. Tomlinson, S. Ann Watkins, Austin B. Williams, and W Herbert Wilson.

INVERTEBRATES - GENERAL

CARRIKER, M. R., coordinator.

Marine flora and fauna of the northeastern United States. (IMS, NMFS, NCSU, DUKE-BIOL. A series of pictorial keys being published in the National Marine Fisheries Service Circulars. Only a few issues have been completed but many more are anticipated. They cover the region from Maine to Virginia but many should have utility further south.)

GOSNER, K. L.

1971. Guide to identification of marine and estuarine invertebrates, Cape Hatteras to the Bay of Fundy. John Wiley & Sons, Inc., N.Y., 693 p. (IMS, UNC-ZOOL, DUML. Although its illustrations could be better and many southern species are not included, it should be useful for non-specialists. The extensive keys are particularly valuable for determining higher level taxa.)

HULINGS, N. C. (editor).

1971. Proceedings of the First International Conference on Meiofauna. *Smithson. Contrib. Zool.* 76, 205 p. (UNC-ZOOL, NMFS. Contains much systematic and ecological information concerning animals which live among sand grains. Some individual papers are listed elsewhere in this bibliography.)

HULINGS, N. C., and J. S. GRAY.

1971. A manual for the study of meiofauna. *Smithson. Contrib. Zool.* 78, 84 p. (IMS, UNC-ZOOL, NMFS. Techniques for collection and preservation with some references to systematic papers.)

KIRBY-SMITH, W. W., and I. E. GRAY.

1971. A checklist of common marine animals of Beaufort, North Carolina. *Duke Univ. Mar. Lab., Mimeogr.*, 33 p. (DUML. Common invertebrates listed by habitat.)

McERLEAN, A. J., C. KERBY, and M. L. WASS (editors).

1972. Biota of the Chesapeake Bay. *Chesapeake Sci.* 13 Suppl.:S1-S197. (ALL except IMS and UNC-MAIN. Summaries of the taxonomic and ecological knowledge of groups found in Chesapeake Bay with discussion of biological criteria for assessing environmental change. Neither species descriptions nor keys are included, but these can be found in some of the references cited. Some individual papers are listed elsewhere in this bibliography.)

MINER, R. W.

1950. Field book of seashore life. G. P. Putnam's Sons, N.Y., 888 p. (IMS, UNC-ZOOL, DUML.

Coverage extends only to Cape Hatteras and includes only common species. Some systematic nomenclature is out of date. No keys are provided. In spite of these shortcomings, the wide scope and good drawings make it useful for inexperienced students.)

PRATT, H. S.

1935. A manual of the common invertebrate animals (exclusive of insects). McGraw-Hill Book Co., Inc., N.Y., 854 p. (UNC-ZOOL. Short descriptions of taxa from phylum to species, and keys to taxa from class to family or genus. Emphasis is on species from eastern United States. Some nomenclature is out of date.)

SMITH, R. I. (editor).

1964. Keys to marine invertebrates of the Woods Hole Region. *Syst.-Ecol. Prog., Mar. Biol. Lab., Woods Hole, Mass.*, 208 p. (UNC-ZOOL, IMS. Does not include many southern species, but is useful for higher level taxa. Quality of chapters variable.)

WASS, M. L. (editor).

1972. A check-list of the biota of lower Chesapeake Bay with inclusions from the upper bay and the Virginia Sea. *Va. Inst. Mar. Sci., Spec. Sci. Rep.* 65, 290 p. (IMS. Includes a bibliography.)

The following works are useful for placing an unknown planktonic animal in the proper higher level group (phylum, class, order). References in the phylum listings are usually necessary for identification to lower levels.

DAVIS, C. C.

1955. The marine and fresh-water plankton. Michigan State Univ. Press, East Lansing, 562 p. (UNC-ZOOL, DUKE-BIOL, DUML. Contains keys to phyla and some lower taxa, and illustrations of representatives of many groups.)

JOHNSTONE, J., A. SCOTT, and H. C. CHADWICK.

1924. The marine plankton. University Press, Liverpool, 194 p. (DUKE-BIOL. Of some value although most species are British.)

NEWELL, G. E., and R. C. NEWELL.

1963. Marine plankton: a practical guide. Hutchinson Educational Ltd., Lond., 207 p. (UNC-ZOOL. Short descriptions and illustrations, but no keys, of British species. Useful for determining higher level taxa.)

VANNUCCI, M.

1959. Catalogue of marine larvae. No. 1. Foreward, the concept of larva, the fundamental types of larvae. *Inst. Oceanogr., Univ. São Paulo, São Paulo, Brazil*, 44 p. (The first number in a series that is intended eventually to provide descriptions and illustrations of all species of marine larvae. This general introduction has descriptions and illustrations of the major kinds of larvae.)

WICKSTEAD, J. H.

1965. An introduction to the study of tropical

plankton. Hutchinson & Co., Ltd., Lond., 160 p. (UNC-ZOOL. Contains short descriptions and illustrations of representatives of many groups, but no keys.)

ECOLOGICAL INFORMATION

General

CARRIKER, M. R.

1950. A preliminary list of the literature on the ecology of the estuaries, with emphasis on the middle Atlantic coast of the United States. Rutgers Univ., New Brunswick, Mimeogr., 52 p.

HEDGPETH, J. W. (editor).

1957. Treatise on marine ecology and paleoecology. I. Ecology. Geol. Soc. Am. Mem. 67, 1296 p. (IMS, UNC-ZOOL, NCSU, DUKE-GEN. Contains a wealth of diverse information including short annotated bibliographies of major groups.)

LIVINGSTONE, R., JR.

1965. A preliminary bibliography with KWIC index on the ecology of estuaries and coastal areas of the eastern United States. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 507, 352 p. (IMS, DUKE-BIOL, NCSU.)

ODUM, H. T., B. J. COPELAND, and E. A. McMAHAN (editors).

1974. Coastal ecological systems of the United States. Conservation Foundation, Washington, D.C., 4 vols. (Descriptions of marine and estuarine ecosystems in all parts of the United States. The thoroughness of chapters is variable.)

PEARSE, A. S.

1936. Estuarine animals at Beaufort, North Carolina. J. Elisha Mitchell Sci. Soc. 52:174-222. (ALL except UNC-ZOOL and IMS. List of species with distribution information.)

Benthos and the Sargassum Community

ADAMS, J. A.

1960. A contribution to the biology and postlarval development of the sargassum fish, *Histrio histrio* (Linnaeus), with a discussion of the *Sargassum* complex. Bull. Mar. Sci. Gulf Caribb. 10:55-82. (ALL except UNC-MAIN and NMFS. Includes a list of invertebrates associated with *Sargassum*.)

BISHOP, S. H.

1960. Outer banks benthic fauna of the tidal flats in Pamlico Sound, N.C. M.A. Thesis, Duke Univ., Durham, 103 p.

BOESCH, D. F.

1972. Species diversity of marine macrobenthos in the Virginia area. Chesapeake Sci. 13:206-211. (ALL except UNC-MAIN.)

BRETT, C. E.

1963. Relationships between marine invertebrate infauna distribution and sediment type distribution in Bogue Sound, North Carolina. Ph.D. Thesis, Univ. North Carolina, Chapel Hill, 202 p. (UNC-GEOL, IMS.)

CAIN, T. D.

1972. Additional epifauna of a reef off North Carolina. J. Elisha Mitchell Sci. Soc. 88:79-82. (ALL except UNC-ZOOL.)

CALDER, D. R., and M. L. BREHMER.

1967. Seasonal occurrence of epifauna on test panels in Hampton Roads, Virginia. Int. J. Oceanol. Limnol. 1:149-164. (NCSU, NMFS, UNC-WILM.)

CERAME-VIVAS, M. J., and I. E. GRAY.

1966. The distribution pattern of benthic invertebrates of the continental shelf off North Carolina. Ecology 47:260-270. (ALL except UNC-MAIN. Includes a list of species and analysis of their distributions.)

CORY, R. L.

1967. Epifauna of the Patuxent River estuary, Maryland, for 1963 and 1964. Chesapeake Sci. 8:71-89. (ALL except UNC-MAIN.)

DAY, J. H., J. G. FIELD, and M. P. MONTGOMERY.

1971. The use of numerical methods to determine the distribution of benthic fauna across the continental shelf of North Carolina. J. Anim. Ecol. 40:93-125. (ALL except UNC-MAIN.)

DEXTER, D. M.

1969. Structure of an intertidal sandy-beach community in North Carolina. Chesapeake Sci. 10:93-98. (ALL except UNC-MAIN. Discusses diversity and niches of the six most abundant species.)

DÖRJES, J.

1972. Georgia coastal region, Sapelo Island, U.S.A.: VII. Distribution and zonation of macrobenthic animals. Senckenb. Marit. 4:183-216. (Results of a survey along three transects extending from the beach about 15 km seaward.)

FENCHEL, T. M., and R. J. RIEDL.

1970. The sulfide system: a new biotic community underneath the oxidized layer of marine sand bottoms. Mar. Biol. 7:255-268. (ALL except UNC-MAIN and DUKE-BIOL.)

FREY, D. G.

1946. Oyster bars of the Potomac River. U.S. Fish Wildl. Serv., Spec. Sci. Rep. 32, 93 p. (NMFS. Lists common marine invertebrates.)

FREY, R. W., and J. D. HOWARD.

1969. A profile of biogenic sedimentary structures in a Holocene barrier island-salt marsh complex, Georgia. Trans. Gulf Coast Assoc. Geol. Soc. 19:427-444. (UNC-GEOL, NCSU. Surveys burrowing animals in marine habitats around Sapelo Island.)

HACKETT, H. E.

1963. A preliminary list of the organisms of the

- pelagic sargassum complex. Mimeogr., 4 p. (DUML-Ref. Museum.)
- MARSH, G. A.
1973. The *Zostera* epifaunal community in the York River, Virginia. Chesapeake Sci. 14:87-97. (ALL except UNC-MAIN. Lists species in order of abundance and discusses affinity, diversity, periodicity, and trophic relationships.)
- McCLOSKEY, L. R.
1970. The dynamics of the community associated with a marine scleractinian coral. Int. Rev. Gesamten Hydrobiol. 55:13-81. (NCSU, DUKE-BIOL, UNC-ZOOL, DUML. Includes a list of animals in the community.)
- McDOUGALL, K. D.
1943. Sessile marine invertebrates of Beaufort, North Carolina. Ecol. Monogr. 13:321-374. (UNC-ZOOL, NCSU, DUKE-BIOL, DUML. Concerns settling rates, growth, and seasonal fluctuations of fouling organisms.)
- MENZIES, R. J., O. H. PILKEY, B. W. BLACKWELDER, D. DEXTER, P. HULING, and L. McCLOSKEY.
1966. A submerged reef off North Carolina. Int. Rev. Gesamten Hydrobiol. 51:393-431. (NCSU, DUKE-BIOL, UNC-ZOOL, DUML. Includes lists of species, underwater photographs, hydrography, and sediment information.)
- MENZIES, R. J., and R. D. TURNER.
1957. The distribution and importance of marine wood borers in the United States. Am. Soc. Test. Mater., Spec. Tech. Publ. 200:3-21. (NCSU, DUKE-BIOL.)
- PATTON, W. K.
1972. Studies on the animal symbionts of the gorgonian coral, *Leptogorgia virgulata* (Lamarck). Bull. Mar. Sci. 22:419-431. (ALL except UNC-MAIN.)
- PEARSE, A. S.
1947. On the occurrence of ectoconsortes on marine animals at Beaufort, N.C. J. Parasitol. 33:453-458. (UNC-ZOOL, DUKE-BIOL, NCSU, IMS-Repr., DUML.)
- PEARSE, A. S., H. J. HUMM, and G. W. WHARTON.
1942. Ecology of sand beaches at Beaufort, N.C. Ecol. Monogr. 12:136-190. (UNC-ZOOL, NCSU, DUKE-BIOL, DUML. Lists species in various habitats and discusses seasonal progression and adaptations to beach life.)
- PEARSE, A. S., and L. G. WILLIAMS.
1951. The biota of the reefs off the Carolinas. J. Elisha Mitchell Sci. Soc. 67:133-161. (ALL except UNC-ZOOL, IMS. A list of species.)
- SCHWARTZ, F. J., and H. J. PORTER.
1977. Fishes, macroinvertebrates, and their ecological interrelationships with a calico scallop bed off North Carolina. Fish. Bull., U.S. 75:427-446. (ALL except UNC-MAIN. Includes a list of species with their seasonal abundance.)
- STEPHENSON, T. A., and A. STEPHENSON.
1952. Life between tide-marks in North America, II. Northern Florida and the Carolinas. J. Ecol. 40:1-49. (UNC-BOT, NCSU, DUKE-BIOL.)
- SUTCLIFFE, W. H.
1947. Animals associated with marine algae on the jetty of Cape Lookout, North Carolina. M.A. Thesis, Duke Univ., Durham, 26 p. (DUKE-BIOL.)
- SUTHERLAND, J. P., and R. H. KARLSON.
1973. Succession and seasonal progression in the fouling community at Beaufort, North Carolina. In Proceedings of the Third International Congress on Marine Corrosion and Fouling, p. 906-929. Northwestern Univ. Press, Evanston.
- SWEDMARK, B.
1964. The interstitial fauna of marine sand. Biol. Rev. (Camb.) 39:1-42. (ALL except UNC-MAIN.)
- TENORE, K. R.
1972. Macrobenthos of the Pamlico River estuary, North Carolina. Ecol. Monogr. 42:51-69. (ALL except UNC-MAIN. See UNC Water Resour. Res. Inst. Rep. 40 for a longer account of this work.)
- VERNBERG, F. J., and W. B. VERNBERG.
1970. Lethal limits and the zoogeography of the faunal assemblages of coastal Carolina waters. Mar. Biol. (Berl.) 6:26-32. (ALL except UNC-MAIN and DUKE-BIOL. Determined in the lab, the upper and lower lethal thermal limits of species from the Gulf Stream and inshore waters off Cape Hatteras.)
- WELLS, H. W.
1961. The fauna of oyster beds, with special reference to the salinity factor. Ecol. Monogr. 31:239-266. (ALL except UNC-MAIN. Lists 303 species and relates their distribution to physical factors. Salinity tolerances of 20 species were determined in the laboratory.)
- WELLS, H. W., M. J. WELLS, and I. E. GRAY.
1964. The calico scallop community in North Carolina. Bull. Mar. Sci. Gulf Caribb. 14:561-593. (ALL except UNC-MAIN. Includes a list of species and discussion of geographical distribution and reproductive condition.)
- WIRTEINSON, M. E.
1964. Epifaunal associations on living bay scallops from North Carolina. M.A. Thesis, Duke Univ., Durham, 103 p. (DUKE-BIOL.)

Plankton

- COWLES, R. P.
1930. A biological study of the offshore waters of Chesapeake Bay. U.S. Bur. Fish., Bull. 46:277-381. (UNC-ZOOL.)
- CRONIN, L. E., J. C. DAIBER, and E. M. HULBERT.
1962. Quantitative seasonal aspects of zooplankton in the Delaware River estuary. Chesapeake

Sci. 3:63-93. (ALL except UNC-MAIN. Discusses occurrence of major species.)

DEEVEY, G. B.

1960. The zooplankton of the surface waters of the Delaware Bay region. Bull. Bingham Oceanogr. Collect., Yale Univ. 17(2):5-53. (IMS, UNC-ZOOL, DUKE-BIOL, NMFS.)

GRICE, G. D., and A. D. HART.

1962. The abundance, seasonal occurrence and distribution of the epizooplankton between New York and Bermuda. Ecol. Monogr. 32:287-309. (ALL except UNC-MAIN.)

HERMAN, S. S., J. A. MIHURSKY, and A. J. McERLEAN.

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de LAUBENFELS, M. W.

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ALLWEIN, J.

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1959. The hydromedusae of the Atlantic Ocean and adjacent waters. Dana Rep. 46, 284 p. (NCSU, UNC-WILM.)
1961. Synopsis of the medusae of the world. J. Mar. Biol. Assoc. U.K. 40:7-469. (ALL except UNC-MAIN. Species diagnoses and records from the literature.)
- LARSON, R. J.
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- BAYER, F. M., et al.
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MAYER, A. G.

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MILLER, R. J.

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NELSON, T. C.

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PHYLUM PLATYHELMINTHES

Class TURBELLARIA

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CREZÉE, M.

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PEARSE, A. S.

1938. Polyclads of the east coast of North America. Proc. U.S. Natl. Mus. 86:67-98. (ALL except UNC-ZOOL. Species descriptions and illustrations.)

PEARSE, A. S., and J. W. LITTLER.

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RIEGER, R. M.

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ANDERSON, H. G., JR.

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BYCHOWSKY, B. E.

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HARGIS, W. J., JR.

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KORATHA, K. J.

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MANTER, H. W.

1947. The digenetic trematodes of marine fishes of Tortugas, Florida. *Am. Midl. Nat.* 38:257-416. (UNC-ZOOL, DUKE-BIOL, NCSU. An annotated list of species with some descriptions and illustrations; 44 new species described.)

McMAHON, J. W.

1963. Monogenetic trematodes from some Chesapeake Bay fishes. Part I. The superfamilies Capsaloidea Price, 1936 and Diclidophoroidea Price, 1936. *Chesapeake Sci.* 4:151-160. (ALL except UNC-MAIN. Nine species described and three illustrated.)

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OVERSTREET, R. M.

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PRICE, E. W.

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SKINNER, R.

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Class CESTODA

CHANDLER, A. C.

1954. Cestoda. In Galtsoff, P. S. (coordinator), Gulf of Mexico - its origin, waters, and marine life. U.S. Fish Wildl. Serv., Fish. Bull. 55:351-353. (ALL except UNC-MAIN. Annotated list of species.)

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COE, W. R.

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CORRÉA, D. D.

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KIRSTEYER, E.

1971. The interstitial nemertean fauna of marine sand. In N. C. Hulings (editor), p. 17-19 (see Invertebrates - General).

McCAUL, W. E.

1963. Rhynchocoela: nemerteans from marine and estuarine waters of Virginia. J. Elisha Mitchell Sci. Soc. 79:111-124. (ALL except NMFS. Short descriptions, distribution records, and a key for 22 Virginia species, 2 of them new. Also a list of all species known from the Atlantic coast of North America.)

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PHYLUM GNATHOSTOMULIDA

RIEDL, R. J.

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BOADEN, P. J.

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BRUNSON, R. B.

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HUMMON, W. D.

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- RUPPERT, E. E.
1970. On *Pseudostomella* Swedmark, 1956 with descriptions of *P. plumosa* nov. spec., *P. caphracta* nov. spec., and a form of *P. roscovita* Swedmark, 1956 from the west Atlantic coast. *Cah. Biol. Mar.* 11:121-143. (UNC-ZOOL, DUML, DUKE-BIOL, NCSU. Very thorough species descriptions covering both internal and external anatomy, good illustrations, and a key to the genus.)
- SCHOEPPER-STERRER, C.
1969. *Chordodasys riedli* gen. nov., spec. nov., a macrodasyoid gastrotrich with a chordoid organ. *Cah. Biol. Mar.* 10:391-404. (UNC-ZOOL, DUML, DUKE-BIOL, NCSU.)
- THANE-FENCHEL, A.
1970. Interstitial gastrotrichs in some south Florida beaches. *Ophelia* 7:113-138. (UNC-ZOOL, DUKE-BIOL, NCSU, DUML. Primarily species descriptions, illustrations, and distributional information; plus an excellent list of references.)

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- CHITWOOD, B. G.
1936. Some marine nematodes from North Carolina. *Proc. Helminthol. Soc. Wash.* 3:1-16. (DUKE-BIOL, NCSU, UNC-HEALTH.)
1937. A new genus and ten new species of marine nematodes from North Carolina. *Proc. Helminthol. Soc. Wash.* 4:53-59. (DUKE-BIOL, NCSU, UNC-HEALTH.)
1951. North American marine nematodes. *Tex. J. Sci.* 3:617-672. (UNC-MAIN, NCSU, DUKE-BIOL, NMFS. Describes 3 new genera and 33 new species; provides a key to the known species but cautions that many more remain to be found.)
- CRITES, J. L.
1961. Some free-living marine nematodes from the sand beaches of Piver's Island, North Carolina. *J. Elisha Mitchell Sci. Soc.* 77:75-80. (ALL except UNC-ZOOL and NMFS. Describes five species, three of them new.)
- de CONINCK, L.
1965. Systématique des Nématodes. *In* P. P. Grasse (directeur), *Traité de zoologie*, p. 586-731. Tome IV, Fasc. 2. Masson et Cie., Paris. (UNC-ZOOL.)
- GOSNER, K. L.
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- HOPPER, B. E.
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Class SCAPHOPODA

- DALL, W. H.
1889. (See Phylum Mollusca, General.)
- EMERSON, W. K.
1962. A classification of the scaphopod mollusks. J. Paleontol. 36:461-482. (UNC-GEOL, DUKE-GEN, NCSU, IMS-Repr.)
- HENDERSON, J. B.
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Class APLACOPHORA

HEATH, H.

1918. Solenogastres from the eastern coast of North America. Mem. Mus. Comp. Zool., Harvard Coll. 45:187-264. (NCSU. Genus and species descriptions and illustrations.)

HYMAN, L. H.

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Class POLYPLACOPHORA

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TURNER, R. D.

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VOSS, N. A.

1969. A monograph of the Cephalopoda of the North Atlantic. The family Histiotteuthidae. Bull. Mar. Sci. 19:713-867. (ALL except UNC-MAIN. Includes a key, species descriptions, and distribution data.)

PHYLUM ARTHROPODA

Most members of the Classes Chilopoda, Diplopoda, Insecta, and Arachnida are terrestrial or freshwater animals. Only a few (for example, the members of the insect genus *Halobates* and most of the mite family Halacaridae) are wholly marine; however, many others spend a portion of their life in marine or brackish waters, or may occur there accidentally. Still others occur on the land bordering the ocean or estuaries. In addition to the references listed under the classes, the following will be useful for identifying some of these animals:

EDMONDSON, W. T. (editor).

1959. Ward and Whipple's freshwater biology. 2nd ed. John Wiley & Sons, Inc., N.Y., 1248 p. (UNC-ZOOL, IMS.)

PENNAK, R. W.

1953. Fresh-water invertebrates of the United States. Ronald Press, N.Y., 769 p. (UNC-ZOOL, IMS.)

Class PYCNOGONIDA

HEDGPETH, J. W.

1948. The Pycnogonida of the western North Atlantic and the Caribbean. Proc. U.S. Natl. Mus. 97:157-342. (ALL except UNC-ZOOL. Very useful; includes good keys and descriptions.)

KRAEUTER, J. N.

1973. Pycnogonida from Georgia, U. S. A. J. Nat. Hist. 7:493-498. (IMS, NCSU. A list of species with distribution data.)

McCLOSKEY, L. R.

1967. New and little-known benthic pycnogonids from North Carolina. J. Nat. Hist. 1:119-134. (IMS, NCSU. Descriptions and illustrations of five species.)
1973. Marine flora and fauna of the Northeastern United States. Pycnogonida. U.S. Dep. Commer., NOAA Tech. Rep. NMFS Circ.-386, 12 p. (IMS, NMFS, NCSU, DUKE-BIOL. Based largely on Hedgpeth 1948, above. The pictorial key is helpful for nonspecialists, although it must be used with caution because some southeastern U.S. species are not included.)

Class MEROSTOMATA

GOSNER, K. L.

1971. Pages 403-405. (See Invertebrates - General.)

LOCHHEAD, J. H.

1950. *Xiphosura polyphemus*. In F. A. Brown, Jr. (editor), Selected invertebrate types, p. 360-381, 584-585. John Wiley & Sons, Inc., N.Y. (IMS, UNC-ZOOL. Includes a small amount of ecological information.)

SHUSTER, C. N., JR.

1950. Observations on the natural history of the American horseshoe crab, *Limulus polyphemus*. In Third report on investigations of methods of improving shellfish resources of Massachusetts. Mass. Dep. Conserv., Div. Mar. Fish., Boston, p. 18-23.; also, 1952. Collect. Repr. Woods Hole Oceanogr. Inst. 564:18-23. (ALL except NCSU. Short, with information on feeding, growth, migration, and breeding.)

Classes CHILOPODA and DIPLOPODA

GOSNER, K. L.

1971. Page 396. (See Invertebrates - General.)

Class ARACHNIDA

BARNES, B. M., and R. D. BARNES.

1954. The ecology of the spiders of maritime drift lines. Ecology 35:25-35. (ALL except DUML and UNC-MAIN.)

BARNES, R. D.

1953. The ecological distribution of spiders in non-forest maritime communities at Beaufort, North Carolina. Ecol. Monogr. 23:315-337. (ALL except UNC-MAIN.)

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GERTSCH, W. J.

1949. American spiders. D. Van Nostrand Co., N.Y., 285 p.

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HOFF, C. C.

1958. List of the pseudoscorpions of North America north of Mexico. Am. Mus. Novit. 1875, 50 p. (UNC-ZOOL, DUKE-BIOL, NCSU. Includes a key to genera and distribution information.)

MUCHMORE, W. B.

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NEWELL, I. M.

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BATTLE, F. V., and E. C. TURNER, JR.

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CHENG, L.

1974. Notes on the ecology of the oceanic insect *Halobates*. Mar. Fish. Rev. 36(2):1-7. (ALL except UNC-ZOOL, DUML, DUKE-BIOL. Distribution, general biology, predators, and prey.)

CHENG, L. (editor).

1976. Marine insects. North-Holland Publ. Co., Amst., 581 p. (Covers many aspects of numerous insect groups. Also brief coverage of other arthropod classes.)

DAVIS, L. V., and I. E. GRAY.

1966. Zonal and seasonal distribution of insects in North Carolina salt marshes. Ecol. Monogr. 36:275-295. (ALL except UNC-MAIN. Insects were collected in salt marsh vegetation. They found no evidence that any spent time immersed in seawater.)

GOSNER, K. L.

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KING, W. V., G. H. BRADLEY, C. N. SMITH, and W. C. McDUFFIE.

1960. A handbook of the mosquitoes of the southeastern United States. U.S. Dep. Agric., Agric. Handb. 173, 188 p. (UNC-MAIN, DUKE-GEN, NCSU. Keys, short descriptions, and illustrations.)

SAVILOV, A. I.

1967. Oceanic insects of the genus *Halobates* (Hemiptera, Gerridae) in the Pacific. Oceanology 7:252-260. (UNC-GEOL, DUML, NMFS. General biology of the genus.)

SHELTEMA, R. A.

1968. Ocean insects. Oceanus 14(3):8-12. (UNC-ZOOL, IMS, NCSU, DUML. An informative popular-press account. Says *Halobates micans* is the only oceanic insect found in the Atlantic Ocean.)

STOJANOVICH, C. J.

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TESKEY, H. J.

1969. Larvae and pupae of some eastern North American Tabanidae (Diptera). Mem. Entomol. Soc. Can. 63, 147 p. (NCSU, UNC-ZOOL. Keys and species descriptions.)

USINGER, R. L.

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Class CRUSTACEA

Subclass Branchiopoda

BAKER, H. M.

1938. Studies on the Cladocera of Monterey Bay. Proc. Calif. Acad. Sci. 23:311-365. (UNC-MAIN, DUKE-BIOL, NCSU. Discusses the worldwide distribution of several species of Cladocera; provides detailed species descriptions.)

BOSCH, H. F., and W. R. TAYLOR.

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GOSNER, K. L.

1971. Pages 441-442. (See Invertebrates - General.)

LOCHHEAD, J. H.

1954. On the distribution of a marine cladoceran, *Penilia avirostris* Dana (Crustacea, Branchiopoda), with a note on its reported bioluminescence. Biol. Bull. (Woods Hole), 107:92-105. (ALL except UNC-MAIN.)

Subclass Cephalocarida

HESSLER, R. R., and H. L. SANDERS.

1973. Two new species of *Sandersiella* (Cephalocarida), including one from the deep sea. Crustaceana 24:181-196. (ALL except UNC-MAIN and NMFS. Includes a taxonomic and zoogeographic overview of the subclass.)

SANDERS, H. L.

1963. The Cephalocarida: functional morphology,

larval development, comparative external anatomy. Mem. Conn. Acad. Arts Sci. 15:1-80. (IMS-Repr.)

Subclass Mystacocarida

HALL, J. R.

1971. An autecological study of *Derocheilocaris typica* Pennak and Zinn (Crustacea, Mystacocarida). Ph.D. Thesis, Univ. North Carolina, Chapel Hill. (UNC-ZOOL, UNC-MAIN.)

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HALL, J. R., and R. R. HESSLER.

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HESSLER, R. R.

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DARBY, D. G.

1965. Ecology and taxonomy of Ostracoda in the vicinity of Sapelo Island, Georgia. In R. V. Kesling, D. G. Darby, R. N. Smith, and D. D. Hall, Four reports of ostracod investigations conducted under National Science Foundation Project GB-26, Report 2, 76 p. Univ. Michigan Mus. Paleontol., Ann Arbor.

DEEVEY, G. B.

1968. Pelagic ostracods of the Sargasso Sea off Ber-

- muda: Description of species, seasonal and vertical distribution. Peabody Mus. Nat. Hist., Yale Univ., Bull. 26, 125 p. (DUKE-BIOL, UNC-MAIN, IMS. Includes keys down to genus and descriptions of 43 species, 36 of them in the genus *Conchoecia*.)
- HULINGS, N. C.
1966. Marine Ostracoda from the western North Atlantic Ocean off the Virginia coast. Chesapeake Sci. 7:40-56. (ALL except UNC-MAIN. Includes some species descriptions and illustrations.)
1967. A review of the Recent marine podocopid and platycopid ostracods of the Gulf of Mexico. Contrib. Mar. Sci. 12:80-100. (ALL except UNC-MAIN.)
1967. Marine Ostracoda from the western North Atlantic Ocean between Cape Hatteras, North Carolina, and Jupiter Inlet, Florida. Bull. Mar. Sci. 17:629-659. (ALL except UNC-MAIN. Includes a list of species and illustrations.)
1971. Summary and current status of the taxonomy and ecology of benthic Ostracoda including interstitial forms. In N. C. Hulings (editor), p. 91-96 (see Invertebrates - General).
- KING, C. E., and L. S. KORNICKER.
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- KLIE, W.
1944. Ostracoda. Cons. Int. Explor. Mer, Fiches Identification Zooplankton 5. (DUML, NMFS, DUKE-BIOL.)
- KORNICKER, L. S.
1964. A seasonal study of living Ostracoda in a Texas bay (Redfish Bay) adjoining the Gulf of Mexico. Publ. Stn. Zool. Napoli 33 Suppl.:45-60. (UNC-ZOOL, DUML, DUKE-BIOL.)
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- NEALE, J. W. (editor).
1969. The taxonomy, morphology and ecology of Recent Ostracoda. Oliver and Boyd, Edinb., 553 p.
- POULSEN, E. M.
1962. Ostracoda-Myodocopa. Part I. Cypridiniformes-Cypridinidae. Dana Rep. 57, 414 p. (Includes a key to the four families recognized in suborder Cypridiniformes and a key to the genera of subfamily Cypridininae. Poulsen has three more taxonomic ostracod papers in Dana Rep. 65, 75, and 84.)
- SANDBERG, P. A.
1964. The ostracod genus *Cyprideis* in the Americas. Stockholm Contrib. Geol. 12:1-178. (UNC-GEOL.)
- SKOGSBERG, T.
1920. Studies on marine ostracods. 1: Cypridinids, halocyprids and polycopids. Zool. Bidr. Uppsala Suppl. 1:1-784. (UNC-ZOOL, DUKE-BIOL.)
- TRESSLER, W. L.
1940. Ostracoda from Beaufort, North Carolina, sand beaches. Am. Midl. Nat. 24:365-368. (UNC-ZOOL, NCSU, DUKE-BIOL. Lists eight species with distribution notes.)
- ### Subclass Copepoda
- BOWMAN, T. E.
1971. The distribution of calanoid copepods off the southeastern United States between Cape Hatteras and southern Florida. Smithson. Contrib. Zool. 96, 58 p. (IMS, NMFS, UNC-ZOOL. Distribution maps, diagnoses of a few species, and discussion of diversity and associations.)
- CAUSEY, D.
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