AN ENVIRONMENTAL BIBLIOGRAPHY

FOR NORTHWEST FLORIDA

1900-1985

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BREAM FISHERMAN

ASSOCIATION

An Environmental Bibliography

for Northwest Florida

1900 - 1985

compiled by

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January 1987

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Preface

Northwest Florida, renowned for its pine barrens and sugar-white sand beaches, is the locus of phenomenal population growth and development. Growth, development and natural beauty are not necessarily incompatible, but require special care to achieve an acceptable balance. The sponsors of this bibliography, the Sierra Club, the Bream Fisherman's Association, and the Florida Department of Community Affairs believe that technical data and scientific information can significantly impact the balancing process. An informed public and management/regulatory officials are fundamental to this process, as is an accurate understanding of the physical, chemical biological and social processes involved. Toward that end, we have assumed the responsibility of publishing this document and of making it available to primary users, management officials and the interested public.

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Introduction

This bibliography is intended to achieve several purposes. It is meant to serve, first, a regional information need for the Northwest Florida area. This coastal geographic region is undergoing the rapid development and urbanization that has characterized other sections of Florida, specifically, and the Sunbelt area, in general. Land-use planning, the protection of fragile coastal resources and considered application of technical data must preceed local decisions which affect basic amenities. In this context the bibliography attempts to identify, acquire and index the available literature resources which bear on these interests and which will be useful for guiding decision-makers or for educating concerned citizens.

The second purpose is to determine and catalog, as far as possible, the technical data base for the area proximal to the ERL/GB Laboratory. This is a natural extension of the laboratory mission and its research interest in marine science and technology.

Scope

Bibliographies reflect the interest and bias of their compilers. This effort is strongly coastal and estuarine in its coverage and is limited, geographically, to the area between Cape San Blas, Florida and Baldwin County, Alabama. Comparatively fair data bases exist for the areas east and west of these limits, although they may not be found in a single reference document. The items included are strongly technical in nature and emphasize biological/ecological source materials. Species accounts, distribution and abundance data and related materials form the bulk of the listed references, although fate, transport and physical processes

are included where available. Semi-technical materials relating to ground water supplies, waste water and solid waste disposal, wasteload allocations and engineering studies are also included. References dealing with inland or upland terrestrial fauna and flora are included where these have direct pertinence to coastal areas, marshes or wetlands. No attempt was made to rigorously compile all hydrologic or oceanographic sources beyond materials which define or describe specific embayments or near-shore circulation. Also, there is a voluminous literature describing Gulf circulation, predominantly the Loop Current, and these have been omitted. The report covers the period 1900-1985 and contains references to over seven hundred papers. Some 1986 publications have been included, although it is by no means a comprehensive listing.

Format

Three publications constituted major reference sources for the compilation of this bibliography. These were:

Johnson, Darlene, and Robin Fletcher. 1984. Florida Water Resources Bibliography. Tallahassee, FL: Dept. of Environmental Regulation, Water Quality Monitoring & Quality Assurance Section. 432 p.

Jones, James I. et al. (Eds.). 1973. A Summary of Knowledge of the Eastern Gulf of Mexico. St. Petersburg, FL: State University System of Florida, Institute of Oceanography. 605 p.

Servies, James Albert. 1982. A Bibliography of West Florida, 3rd ed. Pensacola, FL: University of West Florida. 4 Vols.

In addition, a literature search of the following databases was conducted:

BIOSIS PREVIEWS
Biosciences Information Service
2100 Arch Street
Philadelphia, PA 19103

NTIS
U.S. Dept. of Commerce
National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161

Construction of this bibliography was supported by a database management system, EPALIT, run on the Laboratory's DEC PDP 11/70 mini-computer. Information concerning its operational characteristics is available on request. In addition to its text management features, EPALIT permits the keyword analyses and indexing which provide multiple access points for the records contained in the bibliography.

Use

The documents listed [see (1), pg. vii] include books, journal articles, theses and dissertations, government reports, conference proceedings and some unpublished items. Much of this material is held in the ERL/GB Library; where this is not the case, every effort was made to obtain hard copy for review. References (2) are arranged alphabetically by senior author and then chronologically within each author. Abstracts (3) have been included when available. Alternatively, descriptive and/or introductory remarks [see also (3)] accompanying the text have been used if an abstract was not provided. Where no suitable descriptive information was available, this field has been omitted altogether. Where items are actually held in the ERL,GB Library, this is noted following the citation (4). Primary data fields are shown below.

Hopkins, T.S. 1973. Marine Ecology in Escarosa. Tallahassee, FL: Florida Coastal Coordinating Council. 100 p. (2)

(1)

This research report is intended to fill the deficiency of knowledge about the marine ecology of the Escarosa area and provide a basis for making rational decisions about activities that may affect Escarosa's valuable marine resources. (3)

ERL,GB (4)

To facilitate usage, author and title-keyword indices are provided. The author index lists complete titles for each author, joint author and editor. The title-keyword index is a KWIC (KeyWord-In-Context) index consisting of the keyword and one line of surrounding title. Both indices refer the reader to a title's page number and position in the bibliography.

Summary

This report is intended to provide scientists, resource managers, regulators and the concerned public with a comprehensive reference to materials pertinent to the environmental issues affecting Northwest Florida. Many of the documents cited are actually held by the ERL/GB Library and are available for on-site use or through inter-library loan.

The project is considered an ongoing effort and has the potential for periodic updating or revision as needed. We actively solicit from our readership the identification of materials for future inclusion; the single constraint is that hard copy of the suggested item be provided for archiving at the ERL/GB Library. There is no desire or intention to duplicate other area holdings, but we are interested in continuing the present effort since a usable, centrally-located, technical archive and retrieval system for Northwest Florida appears to be lacking. Additionally, we invite comments and criticisms concerning this product, its use and application, and suggestions for future revisions. Correspondence should be addressed to:

Librarian
U.S. Environmental Protection Agency
Environmental Research Laboratory
Sabine Island
Gulf Breeze, FL 32561

Acknowledgements

We gratefully acknowledge the financial assistance provided by the Northwest Florida Chapter of the Sierra Club, the Bream Fishermen's Association and the Florida Department of Community Affairs (Costal Programs). We are indebted also to the management of the Gulf Breeze Environmental Research Laboratory for their support throughout this project. Other contributors include Champion International Corporation, Cantonment, Fla., Elite Printing, Mary M. Callaway, and Charles W. Faircloth, Pensacola, Fla. The cover illustration was provided by Roxann Lloyd with layout and typesetting done by Martha Bruce and their efforts are greatly appreciated.

Appreciation is also expressed to the following reviewers: Dean DeBolt (UWF), William Kruczynski, (U.S. EPA, Region IV), Gerald Moshiri (UWF), Jeff Reidenauer (Fla. Dept. of Community Affairs), Robert Ryans (U.S. EPA, ERL/Athens), Dick Radford (Sierra Club), J.D. Brown (Bream Fishermen Association) and George M. Smith (Fla. Dept. of Community Affairs). Their insightful comments and suggestions greatly enhanced both the content and form of the final product.

Finally, special thanks are extended to Alice Pool for her assistance in locating and obtaining many of the documents cited, to Russ Ryder who developed the EPALIT Database Management System and then cheerfully modified it to accommodate this particular project, and to the rest of the computer operations staff for providing daily support in the production of this bibliography.

Abele, L.G. 1970. The Marine Decapod Crustacea of the Northeastern Gulf of Mexico. Tallahassee, FL: Florida State University. 137 p. Thesis.

One hundred and fifty four species of decapod crustaceans are reported from the shallow waters of the northeastern Gulf of Mexico. Forty of these species are recorded from this area for the first time. The distribution patterns of all species known from this area are analyzed. It is concluded that the northeastern Gulf of Mexico is 16.5% tropical, 13.3% endemic, 33.7% widespread and 36.5% Carolinian in character. Based on this data it is recommended that the concept of a Carolinian Province as defined by Hedgepath (1953) be re-examined. Six characteristic communities of decapod crustaceans are recognized. These communities inhabit: (1) rocky jetties, (2) sandy beaches, (3) mud flats, (4) Thalassia grass flats, (5) brackish water estuaries, and (6) offshore broken shell-coarse sand bottoms.

Abrams, K.S. 1982. State and Local Committees: Avoiding the Firestorm of Coastal Management. Fla. Environ. Urban Issues 9(2):1-6,22-24.

This article will discuss the concepts underlying the intergovernmental coastal management committee, and describe five examples of coastal management committees.

ERL,GB

Academy of Natural Sciences of Philadelphia. 1953. Escambia River, Florida, Vicinity of the Chemstrand Corporation Plant, Fall, 1952-Spring, 1953: Stream Survey Report for the E.I. du Pont de Nemours & Company. 165 p.

A study based on investigations made, 1951-1953, of the conditions of aquatic life in the Escambia River in the vicinity of the Chemstrand Plant Site.

ERL,GB

Adams, B.H. et al. 1972. Waste Source Study and Review of Waste Treatment and Control Practices: American Cyanamid Company, Milton, Florida. Athens, GA: U.S. Environmental Protection Agency, Surveillance and Analysis Div. 65 p.

This report presents an evaluation of waste treatment and waste controls at the American Cyanamid Company's Santa Rosa Plant located near Pensacola, Florida. The report specifically characterizes and quantifies all plant discharges into receiving waters and evaluates current waste treatment and waste control practices. The study, conducted by the Environmental Protection Agency during March 6-12, 1972, was in response to a recommendation of the third session of the Federal-State Enforcement Conference on Escambia Bay.

ERL,GB

Adams, J.K. 1972. A Comparative Study of Phytoplankton Primary Productivity and Related Parameters in Two Northwest Florida Estuarine Bayous. Pensacola, FL: University of West Florida. 14 p. Thesis.

This study compares phytoplankton primary productivity and related parameters in two geologically and morphometrically similar estuarine bayous: Mulatto Bayou and Catfish Basin. The former has been the recipient of industrial and municipal waste discharges, as well as the subject of unnatural physical alterations such as channelization and associated dredging practices. The latter, Catfish Basin, has remained relatively free from man-caused disturbances.

Ahearn, D.G., W.L. Cook, and S.A. Crow. 1981. Effects of Pollutants on Microbial Activities in Estuarine Surface Films. Gulf Breeze, FL: U.S. Environmental Protection Agency, Environmental Research Lab. 28 p. (EPA-600/4-81-009)

Samples of inshore surface films from Escambia Bay, Florida and from sites in the North Sea yielded populations of aerobic, heterotrophic microorganisms up to 10 to the 8th power per ml or 1,000,000 per sq cm. Hydrocarbonoclastic organisms were in relatively low populations. A comparison of species of yeasts prevalent in North Sea waters before and after oil production activities indicated a shift to a more widespread distribution of hydrocarbonoclastic forms with possible inhibition of a non-hydrocarbon utilizing species. Examination of various hydrocarbons and chlorinated compounds with the potential of being sequestered in natural films indicated that 66% could potentially alter microbial metabolic processes in the slick. In microcosm studies of estuarine systems representative compounds demonstrated a selective effect for microfungi.

ERL,GB

Ahearn, D.G., S.A. Crow, and W.L. Cook. 1977. Microbial Interactions with Pesticides in Estuarine Surface Slicks. Gulf Breeze, FL: U.S. Environmental Protection Agency, Environmental Research Lab. 32 p. (EPA/600/3-77/050)

Estuarine surface films from Escambia Bay, Florida, and adjacent waters were sampled by using the membrane adsorption technique to enumerate microbial populations. Samples of the upper 10 micrometers of estuarine surface films yielded microbial populations. These populations were 10 to 100 times greater than those in underlying waters of 10 cm. Predominant bacteria in surface films as isolated on Marine Agar were motile, nonpigmented, gram-negative rods. Colony-forming units of yeasts and molds on Mycological Agar prepared with 50 per cent seawater were found. A greater proportion of the surface film bacteria, as compared to those at 10 cm depth, were capable of growth on freshwater media. With selective isolation media, amyloytic, and lipolytic bacteria appeared to comprise a more significant proportion of the total population. Twenty-one representative bacteria, yeasts, and filamentous fungi from initial sampling of surface microlayers were tested for the effects of selected pesticides on utilization of various substrates.

Alabama. Water Improvement Commission. 1956. Stream Study: Conecuh-Escambia River, September-November, 1956. 20 p.

A report attempting to establish a base line of the sanitary condition of the stream prior to the operation of a paper mill presently under construction near Brewton, Alabama.

Anonymous. 1981. Terrestrial Arthropods of Northwest Florida Salt Marshes: Coleoptera. Fla. Entomol. 64(3):405-411.

Partial results of a 15-mo. sampling program to enumerate the species of terrestrial arthropods in northwest Florida salt marshes are presented. Fifty-one identified species of Coleoptera are listed. This number of species compares favorably with the largest numbers recorded from elsewhere in the US. Several specimens of a new species of Carpophilus (Nitidulidae) were collected.

Anonymous. 1978. Rare and Endangered Biota of Florida, Vols. 1-7. Gainesville, FL: University Presses of Florida.

Contents: v. 1--Mammals; v. 2--Birds; v. 3--Amphibians and reptiles; v. 4--Fishes; v. 5--Plants; v. 6--Invertebrates; v. 7--Recommendations and liason.

Anonymous. 1975. Florida Red Tide. Mar. Pollut. Bull. 6(1):5.

On the 'Red Tide' caused by the passage of Hurricane Carmen through the northern Gulf of Mexico on 7 and 8 September, 1974.

ERL,GB

Anonymous. 1971. Final Environmental Impact Statement for SR 87 (Stewart Street), from SR 10 (U.S. 90)...Milton, Santa Rosa County. Tallahassee, FL: U.S. Dept. of Transportation. 8 p.

Anonymous. 1958. Engineers Report Covering Proposed Canal across Santa Rosa Peninsula from East Bay to Santa Rosa Sound, Santa Rosa County, Florida.

Armstrong, H.C., and C.M. Robinson. 1930. History of Escambia County, Florida: Narrative and Biographical. St. Augustine, FL: The Record Company.

Arvik, J.H. 1970. Soil Algae of Northwest Florida. Q. J. Fla. Acad. Sci. 33(4):247-252.

This investigation was undertaken to provide a portion of a continuing program of ecological research sponsored by the Air Force Armament Laboratory, Eglin AFB, Florida. The Eglin Reservation, occupying approximately 750 square miles in northwestern Florida, was the study area. Soil types vary considerably in the area, but are generally moderately thick acid sands of either Lakeland-Eustis-Blandon or Lakeland-Eustis-Norfolk association.

ERL,GB

Atlantis Scientific. 1976. Environmental Impact Assessment, Water Quality Analysis, Escambia River and Bay. Washington, DC: National Commission on Water Quality. 269 p.

A comprehensive water quality analysis and environmental impact assessment at the Escambia River and Bay was undertaken as part of a national assessment of anticipated environmental impacts of theoretically achieving or not achieving the requirements of the Federal Water Pollution Control Act Amendments of 1972 (P.L. 92-500). Authors (1) characterized historical and existing water quality and environmental conditions, (2) projected resultant water quality, assuming specific levels of wastewater treatment to point source effluents entering the study site, and (3) anticipated biological, ecological and environmental effects, impacts and benefits to result from projected changes in water quality.

Aumen, N.G. 1980. Microbial Succession on a Chitinous Substrate in a Woodland Stream. Microb. Ecol. 6(4):317-328.

Plate counts, scanning electron microscopy (SEM) and direct observations were utilized to determine successional trends of different groups of microorganisms on Procambarus versutus exoskeletons incubated in situ in a 2nd-order, acidic woodland stream in northwest Florida. Plate counts and SEM observations indicated a definite successional pattern dominated in numbers initially by the nonbranching bacteria, followed by the actinomycetes. The greatest number of fungal propagules coincided with the least number of bacterial colony-forming units. Chitinoclastic bacterial colonizers increased on the substrate throughout the study, comprising as much as 88% of the total bacterial community during the final stages of chitin decomposition. Scanning electron micrographs revealed the abundance of an actinomycete, identified as a species of Streptomyces, on the exoskeleton. Enumeration of microorganisms in the stream sediment was performed in conjunction with the exoskeleton analysis. Relatively constant numbers of bacteria and fungi were observed, with chitinoclastic bacteria comprising between 3 and 11% of the total sediment bacterial community.

ERL,GB

Austin, G.B. 1955. Hydrographic Survey of Santa Rosa Island: A Two Week Survey of Tidal Currents around Sabine Island, Santa Rosa Sound, Florida, Site of U.S. Bureau of Commercial Fisheries Biological Laboratory. College Station, TX: Agricultural and Mechanical College. (Unpublished)

An unpublished report, dated May-June, 1955, prepared for the U.S. Bureau of Commercial Fisheries. Includes tables on water currents, temperature, and salinity in the area.

Austin, G.B. et al. 1958. Observations from an Oceanographic Survey Conducted Off Panama City, Florida, 8 April 1958, on the USS VIGOR. Panama City, FL: U.S. Navy Mine Defense Lab. (Unpublished)

Austin, G.B., and W.H. Tolbert. 1957. On the Results of an Oceanographic Survey Conducted in Waters Adjacent to Panama City, Florida, May - June 1958. Panama City, FL: U.S. Navy Mine Defense Lab. (Unpublished)

Bader, R. et al. 1956. Sedimentary Analysis of Panama City, Florida, Bottom Samples. College Station, TX: Texas A & M University, Dept. of Oceanography. (Unpublished)

Bailey, R.M., H.E. Winn, and C.L. Smith. 1954. Fishes from the Escambia River, Alabama and Florida, with Ecologic and Taxonomic Notes. Proc. Acad. Nat. Sci. Phila. 106:109-164.

A report on the occurrence and distribution of fishes in the Escambia River, based primarily on surveys made in 1952-1953. Includes notes on collecting stations and a list of species. Also includes a summary of salinity relations and seasonal factors and Provisional classification of Escambia River fishes based on salinity tolerance.

ERL,GB

Ballard, R.D., and E. Uchupi. 1970. Morphology and Quaternary History of the Continental Shelf of the Gulf Coast of the United States. Bull. Mar. Sci. 20(3):548-559.

Sea-level fluctuations of the Quaternary have greatly influenced the surface morphology of the continental shelf of the gulf coast of the United States. Two prominent shorelines, at 60- and 160-meter depths, and other features found on the gulf shelf can be related to the relatively recent events of the Quaternary, particularly those of the Holocene transgression. Landward of the 40-meter contour, the slow rise of the sea surface and modern sedimentation have produced a complex mixture of topographic expressions. diapiric structures, which are abundant from De Soto Canyon westward, appear to be of secondary importance in contributing to the shelf's surface relief.

ERL,GB

Balsillie, J.H. 1975. Analysis and Interpretation of Littoral Environment Observation (LEO) and Profile Data along the Western Panhandle Coast of Florida. Fort Belvoir, VA: U.S. Army. Corps of Engineers. 104 p. (Tech. Memo. 49)

Daily and monthly observations of wave characteristics, currents, and windspeeds at six points along the 100-mile segment of the Gulf Coast from St. Andrew Bay to Pensacola Bay.

Bandy, O.L. 1956. Ecology of Foraminifera in Northeastern Gulf of Mexico. Washington, DC: U.S. Geological Survey. 204 p. (Prof. Paper 274-G)

Frequency distribution of Recent Foraminifera in the coastal waters of western Florida.

Barada, B. 1972. Death Trap. Skin Diver 21(Feb):20-23.

On the introduction of pollutants into Escambia Bay by the Escambia Chemical, Monsanto, American Cyanamid, Container Corporation of America, and Gulf Power companies.

Barnett, E., and J. Gunter. 1985. Comprehensive Shellfish Growing Area Survey Pensacola Bay System, Pensacola, Florida. Tallahassee, FL: Florida Dept. of Natural Resources. 146 p.

Barr, D.E. et al. 1981. Water Resources of Southern Okaloosa and Walton Counties, Northwest Florida. Havana, FL: Northwest Florida Water Management District. 41 p.

Barraclough, J.T. 1967. Ground-Water Features in Escambia and Santa Rosa Counties, Florida. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 26)

Text with maps and charts indicating the type of water and its probable availability at a given location.

Barraclough, J.T. 1966. Waste Injection into a Deep Limestone in Northwestern Florida. Ground Water 4(1):22-24.

During a three-month trial period, 70 million gallons of industrial wastes were successfully injected at moderate pressures into a deep limestone in the westernmost part of Florida. The movement of these wastes is expected to be predominantly southward toward the natural discharge area which is presumed to be far out in the Gulf of Mexico. The limestone lies between two thick beds of clay (aquicludes) and contains 13,000 parts per million salty water. A series of aquifers and aquicludes appear capable of preventing contamination of the overlying fresh-water aquifers.

ERL,GB

Barraclough, J.T., and O.T. Marsh. 1962. Aquifers and Quality of Ground Water Along the Gulf Coast of Western Florida. Tallahassee, FL: Florida Geological Survey. 28 p. (Rept. of Inv. 29)

A study of electric logs, well cuttings, and chemical analyses of water from wells in the western Florida Panhandle reveals the relation of the quality of ground water to the geology. Three aquifers separated by clay aquicludes underlie the panhandle west of the Choctawhatchee River: (1) the sand-and-gravel aquifer at the surface, (2) the upper limestone of the Floridan aquifer, and (3) the lower limestone of the Floridan aquifer. The remarkably soft and relatively unmineralized water in the sand-and-gravel aquifer supplies most of the wells in the western half of the area. In the eastern half of the area, where this aquifer is thin, most wells obtain water from the upper limestone of the Floridan aquifer.

Baseline, Inc. 1974. Anticipated Impact on the Biotic Components of the Natural Resources of the Region of the Proposed Development Known as Sandestin II in Coastal Walton County, Florida. 142 p.

An environmental impact statement, with a survey of plant and animal life on the proposed development tract.

Baseline, Inc. 1973. An Assessment of the Assimilative Capacity of Pensacola Bay for Treated Sewage Effluent. 89 p.

Baskerville-Donovan Engineers, Inc. 1975. Engineer's Preliminary Report on Feasibility of a Solid Waste Transfer Station for the City of Gulf Breeze, Florida. 33 p.

Baskerville-Donovan Engineers, Inc. 1975. Feasibility of Proposed Water Booster Station and Ground Storage Facilities for the City of Gulf Breeze, Florida.

A report to the U.S. Farmers Home Administration.

Baskerville-Donovan Engineers, Inc. 1975. Feasibility of Reopening Navarre Pass, Santa Rosa Island, Florida.

Baskerville-Donovan Engineers, Inc. 1975. Shoreline Park/Casablanca Drainage Study.

Drainage study of south central Gulf Breeze prepared for the city of Gulf Breeze, Florida.

Baskerville-Donovan Engineers, Inc. 1975. The Feasibility of Reopening Navarre Pass, Volume I.

Bass, D.G., Jr., and V.G. Hitt. 1978. Sport Fishery Ecology of the Escambia River, Florida. De Funiak Springs, FL: Florida Game and Fresh Water Fish Commission.

Bass, D.G., Jr., D. Yeager, and V.G. Hitt. 1979. Ecology of the Yellow River System, Florida. De Funiak Springs, FL: Florida Game and Fresh Water Fish Commission.

Bass, D.G., Jr., D.M. Yeager, and V.G. Hitt. 1980. Ecology of the Choctawhatchee River System, Florida. De Funiak Springs, FL: Florida Game and Fresh Water Fish Commission.

Beccasio, A.D. et al. 1982. Gulf Coast Ecological Inventory: User's Guide and Information Base. Washington, DC: U.S. Fish and Wildlife Service, Biological Services Program. 191 p. (FWS/OBS-82/55)

This study provides an inventory of important ecological resources along the Gulf coast, an area of some 475,000 square kilometers (183,400 square miles). It is intended to provide government and industry decisionmakers with valuable ecological information which will assist in the regional siting of oil and gas processing and manufacturing facilities and their respective transportation systems. It is organized in accordance with the hierarchical classification scheme for coastal ecosystems devised by Terrell (1979). Ecological resources are summarized by their appropriate geographic zone, and descriptions and locations of species with special status and aquatic and terrestrial species of high commercial, recreational, and aesthetic value are included. The designation of more than 270 special land use areas along the Gulf coast also is provided.

ERL,GB

Beck, A.N., and D.B. Lee. 1958. Joint Stream Sanitation Study of the Conecuh-Escambia River System. Montgomery, AL: Alabama Water Improvement Commission. 47 p.

On the condition of the stream with respect to the effects of alleged pollution caused by the discharge of industrial wastes.

Beck, W.M., Jr. 1954. Choctawhatchee Bay Pollution Survey, April, 1954. Jacksonville, FL: Florida State Board of Health, Bureau of Sanitary Engineering. 5 p.

A water quality survey, conducted in April, 1954, of the western section of Choctawhatchee Bay, eastern Santa Rosa Sound and bayous in the vicinity of Niceville, Valparaiso, Fort Walton and Mary Esther. Includes preliminary sanitary survey of Niceville-Valparaiso area.

Beck, W.M., Jr. 1954. Stream Quality Survey of the Escambia River. Jacksonville, FL: Florida State Board of Health, Bureau of Sanitary Engineering. 5 p.

A report of surveys conducted in 1952-1953, prior to operation of the new Chemstrand Plant at Gonzalez. Includes a map of the Escambia River giving the location of survey points.

Beecher, H.A., and W.C. Hixson. 1982. Seasonal Abundance of Fishes in 3 Northwest Forida Rivers. Fla. Sci. 45(3):145-171.

The seasonal abundance of 39 fish species in electrofishing collections were compared in the Escambia, Choctawhatchee and Apalachicola rivers of northwest Florida. Relative abundances, as indicated by catch per unit effort of electrofishing, were examined in the Escambia River. Lepisosteus osseus, Dorosoma cepedianum, D. petenense and Mugil cephalus were abundant during winter and spring high water in all 3 rivers, but seasonal patterns were less distinct in the larger Apalachicola. These seasonal euryhaline fishes and the catostomids contributed the greatest amounts to the fish biomass in the Escambia River. The abundance of Carpiodes cyprinus declined in the fall during low water, despite increased catch rates of other resident fishes. Female C. velifer outnumbered males during summer, but in winter sex ratios approached 1:1. Male C. velifer were more numerous downstream in late summer. A mark-and-recapture study of Moxostoma poecilurum, a dominant resident in the Escambia River, indicated 1095 +- 504 in a 1 km segment of the Escambia River. Lepomis macrochirus and L. megalotis were 2 of the most abundant fishes in the Escambia River.

ERL,GB

Beecher, H.A., W.C. Hixson, and T.S. Hopkins. 1977. Fishes of a Florida Oxbow Lake and Its Parent River. Fla. Sci. 40(2):140-154.

An electrofishing and seining survey of a 70-80 yr old oxbow lake and an adjacent section of the Escambia River in northwest Florida yielded 29 spp. of fishes in the lake and 58 spp. in the adjacent river. Electrofishing results indicated different abundances of individuals of species common to both areas. A decrease in number of species corresponds to a decrease in habitat diversity in the oxbow lake.

ERL,GB

Bell, O.G. 1924. A Preliminary Report on the Clays of Florida (Exclusive of Fuller's Earth). Fla. Geol. Survey Ann. Rpt. 15:53-266.

In this investigation no attempt has been made to cover completely the clay deposits of the entire State of Florida. It is intended to be only a preliminary report which will make available at an early day data concerning the clays within reach of transportation. It will, moreover, furnish a basis or foundation upon which further and more extensive work on the clay resources of the State can be based as it becomes expedient to do so.

Bennett, C.M., and F.C.W. Olson. 1971. An Assay of Environmental Data Collected Off Panama City, Florida from 1962 to 1968. Panama City, FL: U.S. Naval Ship Research and Development Lab. 314 p. (NSRDL/PC 3444)

An assay of some environmental data collected at two offshore stages in the Gulf of Mexico off Panama City, Florida, in a joint effort of the Texas A&M University, Office of Naval Research, and the Naval Ship Research and Development Laboratory, Panama city, is presented. The philosophy of the assay procedure used, necessary background details, and notes on the data collection are presented along with some observations and remarks about the data and its assay. The original data will be made available to the oceanographic community through the National Oceanographic Data Center in Washington, DC.

ERL,GB

Bense, J.A. 1978. Cultural Resource Reconnaissance in the St. Marks National Wildlife Refuge, Florida. Pensacola, FL: University of West Florida. 80 p.

The project was a cultural resource survey and evaluation of historic and prehistoric properties in certain areas of the St. Marks National Wildlife Refuge in northwest Florida. The survey was performed in preparation for a construction and land modification program being initiated in the St. Marks Refuge. Both intensive and reconnaissance surveys were performed and resulted in the discovery of 12 new sites which lie in the proposed construction areas. The sites contained cultural material from the Late Archaic period through the Confederate period. Evaluations and recommendations of this survey are presented. One District containing at least 12 sites was formally nominated to the National Register. Background information contains a synthesis of the paleoenvironmental and cultural historical data of northwest Gulf Coastal Florida. Extensive references are included.

Black, A.P., and E. Brown. 1951. Chemical Character of Florida's Waters. Tallahassee, FL: Florida State Board of Conservation, Div. of Water Survey and Research.

Black, D.A., and W.M. Howell. 1979. The North American Mosquitofish Gambusia-Affinis A Unique Case in Sex Chromosome Evolution. Copeia (3):509-513.

ERL,GB

Blanchard, J. 1968. Escambia River Report. De Funiak Springs, FL: Florida Game and Fresh Water Fish Commission. 13 p.

A report on the serious decline in the fishery of the Escambia River, caused primarily by pollution from various sources in Alabama.

ERL,GB

Bohannon, B.J. 1971. The Occurrence of Nitrogen Fixation in Escambia Bay and Mulatto Bayou. Pensacola, FL: University of West Florida. 66 p. Thesis.

A survey of the occurrence of nitrogen fixation in Escambia Bay and Mulatto Bayou was made during the fall of 1970 and the winter of 1971. Water and sediment samples were examined for nitrogen fixation by the acetylene reduction test. During the winter months, the amounts of nitrogen fixation by Mulatto Bayou sediments were compared with other environmental parameters. The data suggest that the amount of nitrogen fixed by Mulatto Bayou sediments is related to conductivity, concentration of dissolved oxygen, and depth of the water column. Although nitrogen fixation was found to occur over most of the bay and bayou floors, poorly flushed areas, deep pits, and areas in immediate association with city and industrial effluents either fixed at low rates or did not fix nitrogen at all. Anaerobic, nitrogen-fixing bacterial cultures were isolated from Mulatto Bayou sediments. It is suggested that the major contributors to biological nitrogen fixation in Escambia Bay and Mulatto Bayou are aerobic and anaerobic bacteria.

Boone, P.A. 1973. Depositional Systems of the Alabama, Mississippi, and Western Florida Coastal Zone. Trans. Gulf Coast Assoc. Geol. Soc. 23(Oct):266-277.

On the characteristics of the Gulf Coast from the Pearl to the Choctawhatchee rivers.

Bortone, S.A. 1976. Effects of a Hurricane on the Fish Fauna at Destin, Florida. Fla. Sci. 39(4):245-248.

A pre- and post-storm SCUBA inspection of relative abundance of fish species was conducted at a rock jetty in the northern Gulf of Mexico. As little or no change occurred in the fish fauna between the sampling dates, it is concluded that the storm had little effect on the fauna.

ERL,GB

Bortone, S.A., W.K. Bradley, and J.L. Oglesby. 1978. The Host Parasite Relationship of 2 Copepod Species and 2 Fish Species. J. Fish Biol. 13(3):337-350.

A total of 2494 Menidia beryllina and 717 M. peninsulae (Atherinidae) were examined from the Pensacola Bay area for parasitic copepods. M. peninsulae was infested with Bomolochus and had incidences (and intensities) of 12.3% (1.6) and 4.2% (1.3), respectively. Only 7 M. peninsulae were infested with both species of parasites. M. beryllina was infested only with E. manicatus and showed different incidences (and intensities) in 2 areas: Mulatto Bayou, 13.2% (1.9); Catfish Basin, 53.0% (2.3). Fishes with parasites were significantly longer than fishes without parasites and the case of increasing number of parasites with increasing fish length was reinforced. B. concinnus is a warm water parasite on M. peninsulae while E. manicatus acts as a cold water parasite on M. peninsulae and a warm water parasite on M. beryllina. The parasites tended to be overdispersed on their hosts but at the same time showed evidence of negative intraspecific associations within a host. These data suggest intraspecific avoidance by the parasite but active acquisition by the host.

ERL,GB

Boston, E.J. 1964. Observations of Tidal Periodic Internal Waves Over a Three Day Period Off Panama City, Florida. College Station, TX: Texas A & M University, Dept. of Oceanography and Meteorology. 49 p. (A&M Proj. 286-D)

This is a report on some of the results of a 72 hour survey undertaken to examine internal wave phenomena off Panama City, Florida, during the period 19-22 June, 1962.

Bouma, A.H. (Ed.). 1976. Shell Dredging and Its Influence on Gulf Coast Environments. Houston, TX: Gulf Publishing Co. 454 p.

On the economic and environmental impact of dredging.

Brendemuehl, R.H. 1981. Options for Management of Sandhill Forest Land. South. J. Appl. For. 5(4):216-222.

Thirty-eight species of pines, 4 other conifers and 5 hardwoods were included in trial plantings established on sandhill land in northwest Florida during the past 50 yr. Of these, only longleaf pine (Pinus palustris Mill.) and Choctawhatchee sand pine (Pinus clausa var. immuginata Ward) are recommended for sandhill reforestation without reservation. Choctawhatchee sand pine will produce twice the volume of wood in 25 yr, as will longleaf pine when growing on a Florida sandhill site of similar quality and in stands of comparable density. A 3rd option is to retain the land in scrub oaks and wiregrass.

Briggs, J.C. 1958. A List of Florida Fishes and Their Distribution. Bull. Fla. State Mus. Biol. Sci. 2(8):223-318.

A systematic list which provides information about the range, habitat, and common name of each species. A bibliography includes those references necessary for the identification of Florida freshwater, euryhaline, and marine shore fishes.

ERL,GB

Brinson, S.T., and J.M. Keltner, Jr. 1981. Water Quality and Biological Assessment of Bayou Chico, Florida: A Two Part Study. Tallahassee, FL: Florida Dept. of Environmental Regulation. 127 p.

A two-part study was conducted to determine (1) the effects of removal of a limited quantity of contaminated sediments on water quality and benthos, and (2) the characteristics of stormwater entering Bayou Chico.

ERL,GB

Broadhead, G.C. 1953. Investigations on the Black Mullet, Mugil cephalus L., in Northwest Florida. Coral Gables, FL: University of Miami, Marine Lab. 34 p. (Tech. Series 7)

This paper reports results of the mullet investigation undertaken by the Marine Laboratory of the University of Miami in 1948. It is limited to the study of the mullet populations of northwest Florida.

ERL,GB

Broadhead, G.C., and C.P. Idyll. 1953. Proposed New Regulations for the Northwest Florida Mullet Fishery. In: Proceedings of the Gulf and Caribbean Fisheries Institute, 5th Session. 146-151.

ERL,GB

Broadhead, G.C., and H.P. Mefford. 1956. The Migration and Exploitation of the Black Mullet, Mugil Cephalus L. in Florida, as Determined from Tagging During 1949-1953. Coral Gables, FL: Florida State Board of Conservation, Marine Lab. 32 p. (Tech. Series 18)

Brower, W.A., J.M. Meserve, and R.G. Quayle. 1972. Environmental Guide for the U.S. Gulf Coast. Asheville, NC: U.S. National Climatic Center. 177 p.

This report presents detailed environmental profiles for seven potential Gulf Coast Deep Water Port sites: Corpus Christi, Galveston-Freeport, Sabine Pass, Bayou Lafourche, Southwest Pass, Mobile-Pascagoula and Panama City. Narrative, tabulation and map presentations are included.

Brown, J.D. 1979. 1979 Water Monitoring Stations Pensacola Bay Studies. Pensacola, FL: Bream Fishermen Association. (Unpublished)

Brown, R.J., J.L. Kupper, and W.P. Trevethan. 1973. Classification, Analysis, and Interpretation of Animal Neoplasms in Northwest Florida and NAMRL. Pensacola, FL: U.S. Naval Aerospace Medical Research Lab. 10 p. (NAMRL-SR-73-1)

Disease surveillance in animals closely associated with man provides important xoonotic sentinel information. Often animals are accurate models of response to environmental factors that also affect man. This is especially true and of even greater significance in recent years with the ever increasing list of viral and chemical carcinogens. One hundred and fifty neoplastic cases from Northwest Florida were reviewed. Ninety-one (60.7%) were benign and 59 (39.3%) were malignant. Dogs accounted for the majority of the tabulations. The skin was the most common site of both malignant and benign neoplasms. The occurrence of lymphosarcoma in the dog was higher than reported as average in the United States.

Bruno, R.O. 1971. Longshore Current System, Panama City to Pensacola, Florida. Tallahassee, FL: Florida State University. 169 p. Thesis.

One year's data from six beach observation stations between Panama City and Pensacola, Florida were used to generate an empirical predicting equation for longshore current using stepwise multiple regression. Wind roses, surf histograms, and average current conditions are presented for each observation site. Offshore and nearshore currents are discussed and it is shown that the longshore current system is a result of wave generated currents and an additive translatory motion.

Bruun, P. 1957. Coastal Engineering Investigation at the Freeport Causeway. Gainesville, FL: University of Florida, College of Engineering, Coastal Engineering Lab.

Notes on the design of causeway sea walls at Choctawhatchee Bay.

Bruun, P. 1955. Coastal Development and Coastal Protection, With Special Reference to Conditions in Florida. Gainesville, FL: University of Florida, College of Engineering. 30 p. (Bull. Series 76)

An attempt is made to explain the connection between coastal development and coastal protection.

Bruun, P. et al. 1962. Storm Tides in Florida in Relation to Coastal Topography. Gainesville, FL: University of Florida, College of Engineering, Coastal Engineering Lab. 76 p. (Bull. 109)

The topography of the Atlantic and Gulf coastal zones of the state of Florida is described first in general, then specifically with reference to elevation. . . Primarily, the description covers only the outside areas which bear the brunt of storm tides and hurricane tides.

Bruun, P., W.H. Morgan, and J.A. Purpura. 1962. Review of Beach Erosion and Storm Tide Conditions in Florida, 1961-1962. Gainesville, FL: University of Florida, College of Engineering. 104 p.

Bryan, O.C. 1962. Soils of Florida and Their Crop Adaptation. Tallahassee, FL: Florida Dept. of Agriculture. 48 p. (Bull. 42)

The purpose of this bulletin is to bring together the available knowledge concerning the soils of Florida, giving their general location, identifications, characteristics and crop adaptations.

Bullis, H.R., Jr., and R.M. Ingle. 1958. A New Fishery for Scallops in Western Florida. In: Proceedings of the Gulf and Caribbean Fisheries Institute, 11th Annual Session. Coral Gables, FL: Florida State Board of Conservation. 75-78.

ERL,GB

Burch, T. 1981. Significant Environmental Investigations in the Northwest Florida Water Management District: A Bibliography. Havana, FL: Northwest Florida Water Management District. 56 p. (WRSR 81-2)

A list of studies published, 1970-1980, with an index by county and river basin.

Burkhalter, J.R. 1980. Three Additions to the Pteridophyte Flora of Escambia County, Florida. Am. Fern J. 70(July-Sept):12.

CH2M Hill. 1983. Interim Report: Effluent Mixing Zone Study, Summer 1981 - Summer 1982. Pensacola, FL: Air Products and Chemicals, Inc.

CH2M Hill. 1981. 1980 Biological Monitoring Results for Upper Escambia Bay. Pace, FL: American Cyanamid Company.

Annual report of semi-annual surveys.

CH2M Hill. 1980. 1970 Biological Monitoring Results for Upper Escambia Bay. Pace, FL: American Cyanamid Company.

CH2M Hill. 1980. 1979 Biological Monitoring Results for Upper Escambia Bay. Pace, FL: American Cyanamid Company.

Caine, E.A. 1983. Community Interactions of Caprella penantis Crustaceana Amphipoda on Sea Whips. J. Crustacean Biol. 3(4):497-504.

Sea whips, Leptogorgia virgulata L., occurring in Thalassia testudinum (Konig) meadows in northwestern Florida support an epifaunal community which is dominated by the caprellid amphipod Caprella penantis Leach. C. penantis densities were 23 times greater when T. testudinum was more dense. Observations made during seasonal collections indicate that most fish predators of C. penantis are absent during the winter. C. penantis densities may have been decreased by fish predation, but the density increases were due to reproductive output. When C. penantis densities on sea whips decreased, postlarval and juvenile decapod crustaceans colonized the sea whip. The reptantians remained on the sea whips through several molts and then dropped from the sea whips to join the benthic macrofaunal community. Epibiotic communities are thus involved in at least 3 important marine ecosystems processes: they serve as a concentrated and recognizable food source for nekton; epibionts graze periphyton and detritus from the biotic substream, thereby preventing smothering; and some benthic invertebrates temporarily join the epibiotic community during their transition from planktonic to epibenthic life styles.

ERL,GB

Caine, E.A. 1978. Habitat Adaptations of Isocheles wurdemanni Crustacea Anomura Diogenidae and Seasonality of Occurrences in Northwestern Florida. Contrib. Mar. Sci. 21:117-124.

I. wurdemanni Stimpson seasonally occurs in the nearshore waters off high energy sand beaches in northwestern Florida. Peak occurrences are in spring (May-June) and fall (Sept.-Nov.) with maximum densities in the fall. Reproductive periodicity coincides with the spring and fall occurrence with 76.1% of females carrying eggs in the fall and 8.3% in the spring. Food is obtained by filtering wave-generated currents with the 2nd antenna; particles as small as 25 .mu. are retained. The hermit crab is usually buried but is found on the substrate surface when feeding. Respiratory water currents are the same whether specimens are buried or are actively moving over the substrate. Currents are drawn from a water filled cavity maintained by the position of the gastropod shell upon burial. A preference for shells of Thais floridana Conrad is found, especially among ovigerous females (95.6% found in Thais shells).

ERL,GB

Caine, E.A. 1974. Comparative Functional Morphology of Feeding in 3 Species of Caprellids Crustacea Amphipoda from the Northwestern Florida Gulf Coast. J. Exp. Mar. Biol. Ecol. 15(1):81-96.

ERL,GB

Caldwell, D.K. 1963. Tropical Marine Fishes in the Gulf of Mexico. Q. J. Fla. Acad. Sci. 26(2):188-191.

Recently the Los Angeles County Museum received a small collection of marine fishes obtained near Fort Walton Beach, Florida, by Winfield Brady, then of Florida's Gulfarium. Among them were specimens that represent two new records of tropical forms from the northeastern Gulf of Mexico and others that clarify the distribution of a third such species.

ERL,GB

Caldwell, D.K. 1959. Observations on Tropical Marine Fishes from the Northeastern Gulf of Mexico. Q. J. Fla. Acad. Sci. 22(1):69-74.

Recent reports have revealed the presence of a Florida marine tropical shorefish fauna in the northeastern Gulf of Mexico extending for approximately 60 miles of shoreline from about Panama City to Destin, with the greater concentration of records at Panama City. The tropical fauna at Panama City and Destin is a summer one, and a possible explanation for its occurrence may lie in a combination of factors--pelagic larvae (or at least young that are known to drift in the shelter of floating seaweed) of the tropical species of fish there, and the recently discovered current patterns in the Gulf of Mexico.

ERL,GB

Caldwell, D.K., A. Inglis, and J.B. Siebenaler. 1960. Sperm and Pigmy Sperm Whales Stranded in the Gulf of Mexico. J. Mammal. 41(1):136-138.

ERL,GB

Caldwell, D.K., J.N. Layne, and J.B. Siebenaler. 1956. Notes on a Killer Whale (Orcinus orca) from the Northeastern Gulf of Mexico. Q. J. Fla. Acad. Sci. 19(4):189-196.

Notes on a specimen discovered May 27, 1956 washed up on the beach 6.5 miles east of East Pass (Destin), Okaloosa County, Florida.

ERL,GB

Caldwell, M.C., D.K. Caldwell, and J.B. Siebenaler. 1965. Observations on Captive and Wild Atlantic Bottlenosed Dolphins, Tursiops truncatus, in the Northeastern Gulf of Mexico. Los Ang. Cty. Mus. Contrib. Sci. 91:1-10.

Data are presented concerning scouting behavior by wild specimens; learning by observation by captive animals; directional swimming of captives; evidence for stress-caused ulcers in captive specimens; ingestion of foreign objects by both captive and wild cetaceans; seasonal micro-distribution of wild animals; and a shark bite and infestations of the whale barnacle Xenobalanus globicipitus on wild specimens. Included also are additional records for the pigmy sperm whale, Kogia breviceps, and Cuvier's beaked whale, Ziphius cavirostris, in the northeastern Gulf of Mexico.

ERL,GB

Calver, J.L. 1949. Florida Kaolins and Clays. Tallahassee, FL: Florida Geological Survey. 59 p. (Info. Circ. 2)

Florida kaolins, because of certain superior properties, are used almost exclusively for fine ceramic whitewares and are incorporated in nearly all standard whiteware bodies. The known extent of the proven kaolin deposits of Florida is limited and a great deal of exploratory drilling and testing will be necessary before reserves can be fully established. The data presented here were gathered during an investigation to determine the quality of undeveloped kaolin outcroppings, old workings, and deposits reported from well drillers records.

Camber, C.I. 1955. A Survey of the Red Snapper Fishery of the Gulf of Mexico, With Special Reference to the Campeche Banks. Coral Gables, FL: Florida State Board of Conservation, Marine Lab. 64 p. (Tech. Series 12)

The object of this study was to obtain basic information on the catch, taxonomy, biology, and ecology of the main species in the red snapper catch, Lutjanus aya.

Campbell, J.A. 1962. The Littoral Phytomacrofauna and Benthos of a Pond and a Portion of a Creek in Northwest Florida. University Park, PA: Pennsylvania State University. 75 p. Dissertation.

This study was designed to determine the major plant and animal communities in a lake and creek, in Northwest Florida, commonly referred to as River Lake Pond and Cedar Creek, and to determine some of the relations which exist between the biotic and abiotic factors.

Canfield, D.E., Jr. et al. 1983. Limnological Features of Some Northwestern Florida Lakes. J. Freshwater Ecol. 2(1):67-80.

A limnological survey of 9 lakes located in the sandhills of northwestern Florida was conducted to determine general physical, chemical and biological characteristics. Lake mean depth ranged from 6.3-27 m. Secchi disc values ranged from 3.2-8.1 m. Thermal stratification occurred in all lakes. Chemically, the lakes can be characterized as acidic, soft-water lakes of low mineral content. Average total P values ranged from 3.1-10 mg/m3, and average chlorophyll a values ranged from 0.5-1.4 mg/m3. These lakes are among the most oligotrophic lakes in Florida.

Cantelmo, F.R., M.E. Tagatz, and K.R. Rao. 1980. Effect of Barite on Meiofauna in a Flow-Through Experimental System. Mar. Environ. Res. 301-309. (EPA-600/J-79-118)

The effects of barite (BaSO4), a major constituent of drilling muds used in marine oil drilling operations, on meiofauna were studied in an experimental flow-through system. Aquaria containing sand or varying proportions of barite and sand received a continuous supply of unfiltered seawater from Santa Rosa Sound, Florida, for ten weeks. At the end of this period the composition, biomass and vertical distribution of the meiofauna were determined. Rotifera, Foraminifera, Hydrozoa, Turbellaria, Ostracoda, Polychaeta and Bivalvia did not exhibit significant differences between control and experimental aquaria. A marked decrease in meiofaunal density was evident in aquaria containing 5.5 cm of sand covered with a 0.5 cm layer of barite.

Carpenter, J.S. 1965. A Review of the Gulf of Mexico Red Snapper Fishery. U.S. Fish Wildl. Serv. Circ. 208:1-35.

The developments of the fishery are shown by the following comparisons: Vessels; Fishing grounds; Gear, equipment, and fishing methods; Handling and marketing; and Production.

Carr, A., and C.J. Goin. 1959. Guide to the Reptiles, Amphibians and Fresh-Water Fishes of Florida. Gainesville, FL: University of Florida Press. 341 p.

ERL,GB

Carter, L.J. 1974. The Florida Experience: Land and Water Policy in a Growth State. Baltimore, MD: Johns Hopkins University Press. 355 p.

Contents: 1.--The Land and the Crisis; 2.--The Fight Against Pork Chop Rule; 3.--Land Disposal and Drainage; 4.--The Park and the Flood Control District; 5.--The Years of Drought and the Land and Water Laws of 197.2; 6.--Dade County: The Mini-State; 7--The Jetport: Misplaced Responsibility; 8.--Saving the Big Cypress; 9.--The Barge Canal: The Uses of Power; 10.--Finding the Way.

Cato, J.C., and F.J. Prochaska. 1977. Landings, Values, and Prices in Commercial Fisheries [1952-1974] for the Florida Northwest Coast. Gainesville, FL: Florida Cooperative Extension Service. 42 p. (SUSF-SG-77-004)

Chabreck, R.H. (Ed.). 1973. Proceedings of the Coastal Marsh and Estuary Management Symposium, July 17-18, 1972. Baton Rouge, LA: Louisiana State University, Div. of Continuing Education.

Chen, C.S. 1965. The Regional Lithostratigraphic Analysis of Paleocene and Eocene Rocks of Florida. Tallahassee, FL: Florida Geological Survey. 105 p. (Geol. Bull. 45)

This paper is in the nature of a reconnaissance study or a progress report on investigations of the complex stratigraphy of the Paleocene and Eocene strata in peninsular and panhandle Florida.

Cherr, G. 1974. Species Composition and Diel Variations in the Icthyofaunal Community of Intertidal Grassbeds in the Northeastern Gulf of Mexico. Tallahassee, FL: Florida State University. 141 p. Thesis.

Chesser, S.A. 1974. Sediments of the West Florida Shelf. Tallahassee, FL: Florida State University. 71 p. Thesis.

Christman, S.P., and W.S. Lippincott, Jr. 1978. Rare and Endangered Vertebrates of the Southeastern United States Coastal Plain--A Summary of Public Concern for Sensitive Wildlife. Washington, DC: U.S. Fish and Wildlife Service. 46 p. (FWS/OBS-78/31)

Churgin, J., and S.J. Halminski. 1974. Temperature, Salinity, Oxygen, and Phosphate in Waters off United States, Volume II: Gulf of Mexico. Washington, DC: U.S. National Oceanographic Data Center. 116 p.

Presents temperature, salinity, oxygen, and phosphate data for oceanic waters along and adjacent to the Gulf Coast. Provides a general picture of the variability of the four four parameters over large oceanic areas. Data is presented in formats that can be easily understood by nonphysical oceanographers--by biologists, engineers, and others having responsibilities for the development, utilization, and management of the ocean and its resources, and for planning and managing programs, projects, and surveys that relate to use of the ocean. The data are of value in studies of marine productivity, pollution, corrosion, fouling, waste receiving capacity, and oceanic circulation and in designing instruments and planning structures.

ERL,GB

Coastal Zone Resources Corporation. 1971. Plan and Program for Amenities and Aesthetics in the Escarosa Pilot Area.

A preliminary land use survey of Escarosa coastal zones. A working paper report to the Coastal Coordinating Council, Florida Department of Natural Resources.

Cockerham, L.G., and A.L. Young. 1982. The Absence of Hepatic Cellular Anomalies in 2,3,7,8-Tetrachloro Di Benzo-P-Dioxin Exposed Beach Mice in a Field Study. Environ. Toxicol. Chem. 1(4):299-308.

ERL,GB

Coffin, J.E. 1982. Summary of Ground-Water and Surface-Water Data for City of Pensacola and Escambia County, Florida. Tallahassee, FL: U.S. Geological Survey. 131 p.

Hydrologic, geologic, and water-quality data collected in Escambia County, Florida, October 1962 through September 1980, are presented. The data were collected by the U.S. Geological Survey as part of a cooperative investigation with the City of Pensacola and Escambia County to provide information on the quality and quantity of water available in Escambia County. Ground-water data include records of 440 wells, chemical and physical analyses of water for 325 wells, 6 long-term hydrographs, and 19 lithologic logs. Surface-water data include stream-flow measurements and analyses of water collected at 9 sites. Maps of the county show the locations of the data-collection sites.

Collard, S.B. et al. 1976. Occurrence of a Florida Manatee at Pensacola Bay. Fla. Sci. 39(1):48.

A solitary manatee Trichechus manatus was observed entering Santa Rosa Sound, Florida, USA on June 30, 1975. Water depth was approximately 2 m and air and sea temperatures were, respectively, 28.9 degree C and 28.6 degree C. The weather was fair and the sea was calm.

Collier, A., and K.H. Drummond. 1958. Gulf of Mexico Physical and Chemical Data from Alaska Cruises. Washington, DC: U.S. Fish and Wildlife Service. 417 p.

This report is principally a list of chemical data collected aboard the U.S. Fish and Wildlife Service M/V Alaska while she was engaged in a biological and oceanographic survey of the Gulf of Mexico. The tables include observations on salinity, temperature, sigma-t, nitrate-nitrite nitrogen, total phosphorus, inorganic phosphorus, "carbohydrates", and "proteins". Some special data on the uranium and phosphorus content of certain water samples and sediments are included. A brief introduction includes remarks on the physical oceanography of the Gulf of Mexico and the study of organic compounds.

ERL,GB

Collins, W.D., and C.S. Howard. 1928. Chemical Character of Waters of Florida. Washington, DC: U.S. Govt. Print. Off. 177-233.

Samples have been obtained especially from the public water supplies of the State. Sources not now used for public supplies but likely to be used in the future are also represented. In each county other samples have been take to indicate the quality of water available at different depths in the ground. Samples have been taken from lakes and rivers throughout the State, from large springs and from wells or springs supplying water that is bottled and sold. Thus the analyses give a reasonably complete picture of the chemical character of the waters of Florida.

ERL,GB

Consoer, Townsend & Associates. 1976. Solid Waste Management Study, Escambia County, Florida. 289 p.

Converse, J.B. & Co., Inc. 1972. City of Fort Walton Beach, Florida: Engineering Report on Waste Treatment and Effluent Disposal. 27 p.

Converse, J.B. & Co., Inc. 1970. Okaloosa County, Florida, Study: Water Supply and Wastewater Disposal. 42 p.

Report dated December 1970, for the Board of County Commissioners, Okaloosa County, Florida.

Cooke, C.W. 1945. Geology of Florida. Tallahassee, FL: Florida Geological Survey. 339 p. (Geol. Bull. 29)

Cooke, C.W. 1939. Scenery of Florida, Interpreted by a Geologist. Tallahassee, FL: Florida Geological Survey. 118 p. (Geol. Bull. 17)

Cooley, N.R. 1978. An Inventory of the Estuarine Fauna in the Vicinity of Pensacola, Florida. St. Petersburg, FL: Florida Dept. of Natural Resources, Marine Research Lab. 119 p. (Mar. Res. Publ. 31)

This faunal inventory of the Pensacola Estuary, Florida, records 654 species of benthic and pelagic animals collected systematically from 1961 through 1963 and casually in other years. Sampling dates were correlated with approximate mid-points of spring rise and autumnal decline as well as annual extremes of water temperature. Biological sampling was coordinated with seasonal studies of hourly variation in salinity and water temperature during single maximum amplitude tidal cycles recorded simultaneously at six stations along the salinity gradient. Data for each species include salinity of sampling station, habitat, season in which collected, and relative abundance.

ERL,GB

Cooley, N.R. 1974. Occurrence of Snook on the North Shore of the Gulf of Mexico. Fla. Sci. 37(2):98-99.

The known range of snook is extended about 100 miles westward to Santa Rosa Sound.

ERL,GB

Cooley, N.R. 1970. Effects of Pesticides Studied at Florida Fisheries Center. Pollut. Abstracts 1(2):16-20.

On the Pesticide Field Station of the Bureau of Commercial Fisheries, located at Sabine Island, Santa Rosa Sound.

ERL,GB

Copeland, B.J. 1966. Effects of Industrial Waste on the Marine Environment. J. Water Pollut. Control Fed. 38(6):1000-1010.

Water quality characteristics of St. Joseph's Bay, Florida, a bay heavily polluted by industrial effluents, were used to show the effects of industrial pollution on a marine estuary.

ERL,GB

Coppage, D.L., and T.W. Duke. 1972. Effect of Pesticides in Estuaries along the Gulf and Southeast Atlantic Coasts. In: Proceedings of the 2nd Gulf Coast Conference on Mosquito Suppression and Wildlife Management. Schmidt, C.H. (Ed.). pp. 24-31.

The presence of persistent pesticides in Gulf and Southeast Atlantic estuaries is well documented. Examples of these are the chlorinated hydrocarbon pesticides DDT, dieldrin, endrin, aldrin, BHC-Lindane, heptachlor, toxaphene, and mirex. Pesticides are detected through monitoring programs in which organisms, sediment, and water are collected and analyzed. With these data and laboratory data on response of living organisms to pesticides, we can determine effects of environmental levels of the chemicals in an ecological and physiological context. In this report, we (i) review some of the findings on residues of persistent pesticides in estuaries, (ii) some effects of these pesticides found in field and laboratory studies, and (iii) present some of our recent research on effects of malathion, a less persistent organophosphate pesticide used for mosquito control.

ERL,GB

Couch, J.A. 1985. Prospective Study of Infectious and Noninfectious Diseases in Oysters and Fishes in Three Gulf of Mexico Estuaries. Dis. Aquat. Org. 1(1):59-82.

This study of 3 northern US Gulf Coast estuaries (Pensacola and Escambia Bays in Northwest Florida; Mobile Bay, Alabama; Pascagoula Harbor, Mississippi Sound, Mississippi) investigates: (1) frequencies of known or new diseases, including neoplasms, in oysters and fishes at sites among the estuaries; (2) general relations between disease frequency and human activity in influencing disease prevalences in fish and shellfish populations in coastal regions characterized by varying degrees of human impact. Though far from pristine, the estuaries studied were not severely unhealthy environments as evidenced by scattered and relatively low disease prevalences. However, because the Gulf Coastal Plain will probably be the fastest growing region in the USA in the next decade, this study assists in providing base-line data for studies that should be made periodically on the health status of coastal biota in relation to the expected increase in human impact.

ERL,GB

Couch, J.A., M.D. Summers, and L. Courtney. 1975. Environmental Significance of Baculovirus Infections in Estuarine and Marine Shrimp. Ann. N.Y. Acad. Sci. 266:528-536.

On the significance of a virus infecting shrimp taken from the waters of Apalachee Bay, Port St. Joe, and Pensacola.

ERL,GB

Coultas, C.L. 1970. Some Saline Marsh Soils in North Florida, Part II. Soil Crop Sci. Soc. Fla. Proc. 30:275-282.

Two additional saline marsh soils on the northwestern coast of Florida were examined and described.

ERL,GB

Coultas, C.L. 1969. Some Saline Marsh Soils in North Florida: Part I. Soil Crop Sci. Soc. Fla. Proc. 29:111-123.

Three saline marsh soils from Florida's North Coast were examined and described. Analyses included particle size distribution, pH, organic C, total N, salinity, bulk density, CEC, and exchangeable cations on all horizons. Clay mineralogy, extractable Fe and Al, C14 dating, and total S were determined on selected horizons.

ERL,GB

Coultas, C.L. et al. 1978. Vegetative Stabilization of Dredge Spoil in North Florida. J. Soil Water Conserv. 33:183-185.

The purpose of this study was to determine the suitability of certain introduced grasses for soil stabilization and measure the effect of fertilizer on the growth of these supertidal plants.

ERL,GB

Crawford, R.L. 1981. Weather Migration and Autumn Bird Kills at a North Florida Television Tower. Wilson Bull. 93(2):189-195.

Autumn bird kills at the 308 m WCTV tower in northwest Florida during 1962-1966 were strongly associated with north winds and overcast. Nights with north winds (n = 313, 74.5% of total) accounted for 6744 (83%) dead birds; south-wind nights (n = 107, 25.5%) had 1379 (17%) dead birds. Cloudy nights (n = 214, 50.9%) had 6686 (82.3%) birds killed; non-cloudy nights (n = 206, 49.1%) had 1437 (17.7%) dead birds. Large kills were usually associated with the passage of a cold front, but birds were killed on all but 32 (7%) of the nights. The data seem consistent with radar and direct visual studies of migration in the southeastern USA.

Crawford, R.L. 1980. Wind Direction and the Species Composition of Autumn Television Tower Kills in Northwest Florida. Auk 97(4):892-895.

Crawford, R.L., and H.M. Stevenson. 1984. Patterns of Spring and Fall Migration in Northwest Florida. J. Field Ornithol. 55(2):196-203.

TV-tower kill data from 25 yr and 23 yr of concurrent field data from northwest Florida are compared. The data agree with other studies indicating that northerly-breeding passerine trans-Gulf migrants have the bulk of their spring migration to the west of Florida. New evidence suggests that some non-breeding winter residents may leave northwest Florida by daytime flights rathern than by nocturnal flights.

Crew, J.L., and T.L. Vaughn. 1971. Escambia River Summary Report. De Funiak Springs, FL: Florida Game and Fresh Water Fish Commission.

Crittenden, E. 1958. A Pre-Impoundment Fishery Study of North Bay and Associated Waters, Bay County, Florida. In: Proceedings of the Eleventh Annual Conference of the Southeastern Association of Game and Fish Commissioners. Webb, J.W. Columbia, SC: Southeastern Association of Game and Fish Commissioners. 211-219.

A proposed impoundment in Bay County, Florida will create a 5,000-acre body of fresh water in a portion of North Bay, presently a salt water bay connected with the Gulf of Mexico. The primary purpose of the impoundent is to provide water for domestic and industrial use in the county, but it should also provide excellent sport fishing. In order to better formulate plans for future fish management, the Florida Game and Fresh Water Fish Commission initiated a pre-impoundment investigation. This was conducted by the Commission's Lake and Stream Survey and Fish Management Investigations Projects and financed by Federal Aid through the Dingell-Johnson Act. The field work, conducted from December 1956 into February 1957, consisted of fish population studies and water quality analyses.

ERL,GB

Croker, R.A., and A.J. Wilson. 1965. Kinetics and Effects of DDT in a Tidal Marsh Ditch. Trans. Am. Fish. Soc. 94(2):152-159.

A tidal marsh ditch near Pensacola, Florida was treated with 0.2 pound of DDT per acre in March 1963, and observed for 4 months. Ninety-eight per cent of the animal mortality occurred within 3 weeks after treatment. A population of cyprinodont fish was restored by reproduction of surviving and introduced fish. DDT was detected in surface water samples 8 days after treatment but not after 14 days, while DDT was not detected in bottom water samples later than 1 day after treatment. Seven weeks after treatment, vegetation samples averaged 9.1 ppm of DDT, after reaching a maximum of 75 ppm of DDT 3 to 4 weeks after treatment. Sediment samples yielded more variable residues, averaging 0.76 ppm of DDT at 7 weeks after reaching a maximum of 3.35 ppm of DDT 6 weeks after treatment. Fish accumulated up to 90 ppm of DDT within 5 weeks after treatment. Highest DDT residues detected in fiddler crabs and snails ranged from 15 to 25 per cent of the average residues detected in fish. The net water movement as indicated by the distribution of Rhodamine B dye, the general distribution of DDT residues in all samples, and the difference in mortality of fish at two holding sites, indicated an accumulation of DDT in the lower marsh after treatment.

ERL,GB

Curl, H. 1959. THe Hydrography of the Inshore Northeastern Gulf of Mexico. Publ. Inst. Mar. Sci. Univ. Tex. 6:193-205.

D'Asaro, C.N. 1986. Egg Capsules of Eleven Marine Prosobranchs from Northwest Florida. Bull. Mar. Sci. 39(1):76-91.

Egg capsules of eleven prosobranchs are described and illustrated. Enumerations of capsules and embryos, and capsular dimensions, development pattern, and observations on reproductive behavior are given.

ERL,GB

Dahlberg, M.D. 1970. Atlantic and Gulf of Mexico Menhadens, Genus Brevoortia (Pisces: Clupeidae). Bull. Fla. State Mus. Biol. Sci. 15(3):91-162.

This study presents a key to the menhaden species and hybrids, describes the various forms, presents synonymies and recent references, and discusses hybridization, geographic variation, population structure, and zoogeography.

Dalton, R., and W. Menzel. 1984. Seasonal Gonadal Development of Young Laboratory-Spawned Southern Mercenaria campechiensis and Northern Mercenaria mercenaria Quahogs and Their Reciprocal Hybrids in Northwest Florida. J. Shellfish. Res. 3(1):11-18.

ERL,GB

Davis, J.H., Jr. 1975. Stabilization of Beaches and Dunes by Vegetation in Florida. Gainesville, FL: Florida Sea Grant Program. 52 p. (Sea Grant Rept. 7)

The purpose of this report is to provide coastal strand property owners and managers with guidelines for the use of vegetation in the protection and restoration of Florida beaches and dunes.

ERL,GB

Dawson, C.E., Jr., and F.G.W. Smith. 1953. The Gulf of Mexico Sponge Investigation. Coral Gables, FL: Florida State Board of Conservation. 28 p. (Tech. Series 1)

Results of a survey of the Florida commercial sponge beds from the Dry Tortugas to Panama City carried out during 1947 and 1948.

ERL,GB

De Laubenfels, M.W. 1953. Sponges from the Gulf of Mexico. Bull. Mar. Sci. Gulf Caribb. 2(3):511-557.

In 1948, a collection of sponges was made by the Marine Laboratory of the University of Miami in the eastern Gulf of Mexico. Twenty-two stations were studied, at depths from 6 to 20 meters, in the area between Dry Tortugas and the northeastern part of the Gulf. The collection comprises 52 species in 41 genera, all within the class Demospongea. Of these, 11 species are new. An analysis of the sponge collection by stations is included.

ERL,GB

De Sylva, D. 1955. Report on Pollution and Fish Mortality in Bayou Chico, Pensacola, Florida. Coral Gables, FL: University of Miami, Marine Lab. 4 p. (Rept. 55-31)

A report on the cause of an extensive fish mortality in Bayou Chico, May 21-22, 1955.

De Sylva, D.P., H.B. Stearns, and D.C. Tabb. 1956. Populations of the Black Mullet (Mugil cephalus L.) in Florida. Coral Gables, FL: Florida State Board of Conservation, Marine Lab. 45 p. (Tech. Series 19)

In order to corroborate tagging information and to identify the taxonomic units involved in the Florida black mullet (Mugil cephalus L.) fishery a series of 319 black mullet were obtained from 11 different localities (including Pensacola) for biometric analyses of meristic characters.

ERL,GB

Dean, R.G., and T.Y. Chiu. 1986. Combined Total Storm Tide Frequency Analysis for Escambia County, Florida. Tallahassee, FL: Florida State University, Beaches and Shores Resource Center. 66 p.

Deason, T.R. 1982. Effects of Uranium Oxides on Some of the Algae Native to Eglin Air Force Base, Florida. University, AL: Alabama University, Dept. of Biology. (AFATL-TR-82-40)

Population studies were made for algae collected from creeks on the Eglin Air Force Base reservation in Northwest Florida. Cultures of several of the algal species found in the creeks were isolated and exposed to various concentrations of U02 and U308 to determine how the algae responded, how much uranium they took up, and what uptake mechanism was involved. Factors related to mobility of uranium on the reservation are discussed.

Donaldson, W.T., and J.H. Gakstatter. 1966. Investigation of Complaints Concerning the Conecuh-Escambia River. Athens, GA: U.S. Federal Water Pollution Control Administration, Southeast Water Lab.

A report based on field trips and other studies undertaken September-October, 1966, concluding that fish in the river are not being seriously harmed by industrial outfalls in the area of Brewton, Alabama.

Dover, W.D., and B. Johnson. 1968. Florida's Ocean Boundaries. In: Proceedings of the Sea and the States Conference. Miami, FL: Florida Commission on Marine Sciences and Technology. 67-76.

Drennan, K.L. 1968. Hydrographic Studies in the Northeast Gulf of Mexico. New Iberia, LA: Gulf South Research Inst. 111 p.

The major circulatory features and distribution of physical properties in the northeast Gulf of Mexico are presented from a series of eight quasi-synoptic surveys. Seasonal changes in hydrography and circulation over the continental shelf are shown and discussed in terms of their relationship to the offshore currents, river discharge, winds, and tides. Surface current speed and direction are determined from an extensive drift bottle study and distribution of density.

ERL,GB

Duke, T.W., and D.P. Dumas. 1974. Implications of Pesticide Residues in the Coastal Environment. In: Pollution and Physiology of Marine Organisms. Vernberg, F.J., and W.B. Vernberg (Eds.). New York, NY: Academic Press. Pp. 137-164.

This paper briefly reports the state-of-the-art of research on the effects of pesticides on coastal aquatic organisms.

ERL,GB

Duke, T.W., J.I. Lowe, and A.J. Wilson, Jr. 1970. A Polychlorinated Biphenyl (Aroclor 1254) in the Water, Sediment, and Biota of Escambia Bay, Florida. Bull. Environ. Contam. Toxicol. 5(2):171-180.

We have detected a polychlorinated biphenyl (PCB), Aroclor 1254, in the biota, sediment, and water of estuarine areas near Pensacola, Florida. Only one source of the chemical, an industrial plant on the Escambia River, has been located. However, the chemical occurs in tissues of pelagic and sessile organisms that are widely distributed within the estuary. This distribution of Aroclor 1254 could be due to dispersion of the chemical from the river by currents and biota to other parts of the system. Alternatively, it could have entered the system from more than one source. In this paper we report the occurrence of Aroclor 1254 in the estuarine environment and discuss its possible effects on some estuarine organisms.

ERL,GB

Dysart, J.E. et al. 1977. Water Resources Inventory of Northwest Florida. Tallahassee, FL: Florida Geological Survey. 114 p.

A summary of resources in the 15-county area.

Earler, S.A. 1969. Phaeophyta of the Eastern Gulf of Mexico. Phycologia 7(2):71-254.

A study was made of the taxonomy, distribution, and ecology of the Phaeophyta of the eastern Gulf of Mexico, a region defined as the coastline and adjacent continental shelf from the Mississippi Delta at Barataria Pass, Louisiana, to Dry Tortugas, Florida. Data from many sources are compiled to show conditions of temperature, salinity, and light in the eastern Gulf of Mexico, and the diversified substrata are described, with lists of species given for each habitat. Two new terms are introduced to characterize species with regard to their range of potential substrata: euryancyric, denoting species which attach to diverse substrata, and stenancyric, which applies to species with a narrow range of possible attachment sites.

Edmisten, J.A., and A.F. Harris. 1977. A Survey of Marine and Estuarine Resources of Northwest Florida. Mobile, AL: U.S. Army. Corps of Engineers. 139 p.

Edwards, N.C., Jr. 1976. A Study of the Circulation and Stratification of Escambia Bay, Florida During the Period of Low Fresh Water Inflow. Tallahassee, FL: Florida State University. Thesis.

The object of this study is to understand the circulation patterns and the estuarine dynamics, which occur during low river discharge.

Ehrlich, G.G. et al. 1979. Chemical Changes in an Industrial Waste Liquid During Post-Injection Movement in a Limestone Aquifer, Pensacola, Florida. Ground Water 17(6):562-573.

An industrial waste liquid containing organonitrile compounds and nitrate iron has been injected into the lower limestone of the Floridan aquifer near Pensacola, Florida since June 1975. There are substantial changes in the water quality of the injected waste liquid, occurring after subsurface injection. This has been determined through analyses of liquid backflowed from the injection well and also by analyses of water samples from nearby monitoring wells. This report documents the changes observed and interprets them in relation to the biochemical processes operating within the injection zone.

ERL,GB

Eichholz, N.F. 1980. Osprey Pandion-Haliaetus Nest Concentrations in Northwest Florida. Fla. Field Nat. 8(1):18-19.

Eleuterius, L.N. 1975. The Life History of the Salt Marsh Rush, Juncus roemerianus. Bull. Torrey Bot. Club 102(3):135-140.

The major stages of development of the gynodioecious rush, Juncus roemerianus Scheele, representative of both plant forms as based on the occurrence of pistillate and perfect flowers, are traced through the basic differences in floral morphology, seed production, germination, seedling and mature plant development. The significance of the major features of this species' life history is discussed in terms of its ecology.

ERL,GB

Ellis, E.E. 1969. Some Basic Dynamics of the Pensacola Estuary. Tallahassee, FL: Florida Air and Water Pollution Control Commission. 19 p.

Ellis, R.W., A. Rosen, and A.W. Moffett. 1958. A Survey of the Number of Anglers and of Their Fishing Effort and Expenditures in the Coastal Recreational Fishery of Florida. Miami, FL: Florida State Board of Conservation. 50 p. (Tech. Series 24)

The purposes of the survey were: 1. To determine the number of resident anglers who fish in Florida's salt and brackish waters. 2. To determine the amount of time spent by resident and visiting anglers engaged in such fishing. 3. To determine the amount of money spent by anglers which can be attributed to the pursuit or attraction of the salt and brackish water recreational fisheries.

ERL,GB

Environmental Analysts of Florida, Inc. 1979. Background Environmental Information and a Proposed Monitoring Program for Oil/Gas Exploration in the Pensacola Bay System. 47 p.

Environmental Analysts of Florida, Inc. 1979. Environmental Impact Assessment Regarding the Drilling of an Exploratory Oil Well in East Bay of the Pensacola Bay System (Santa Rosa County, Florida).

Escambia County. Dept. of Community Development. 1975. Resource Utilization Plan for Pensacola Beach. 82 p.

The Pensacola Beach Plan presents strategies for the management of the natural resources on Pensacola Beach. These strategies include proposals for positive action and controls which will help develop the Island's potential and bring physical, social and economic assets into a harmonious relationship. The plan provides a comprehensive program for an orderly growth pattern which will facilitate the attainment of goals established by the people of Escambia County and the region.

Escambia County. Dept. of Community Development. 1974. Land Use and Environmental Management Plan for Escambia County, Florida. 182 p.

Proposed land use and environmental management ordinance, June, 1974; summary of state laws, local ordinances, and other regulations governing land use planning.

Escambia County. Dept. of Community Development. 1974. Proposed Land Use and Environmental Management Ordinance. 139 p.

Escambia County. Dept. of Community Development, and Durham Henningson, Richardson and Hart, Inc. 1974. Stormwater Management Plan for Escambia and Santa Rosa Counties. Pensacola, FL: West Florida Regional Planning Council. 157 p.

A report on the hydrology of Escambia and Santa Rosa Counties as it relates to storm water runoff. Seven major stream basins were studied to determine potential strom water problem areas and implications of a 50-year flood. There is also a discussion of the field dreainage factor from roads, agriculture septic tanks, and erosion. Includes hydrological data and maps. The data were formulated as computer models and used to determine the best strategies for storm water management in the two counties.

Escambia County. Division of Community Development. 1977. Santa Rosa Island Comprehensive Plan. 205 p.

Escambia County. Health Dept. Environmental Health Div. 1968. Inventory of Public Water & Sewerage Systems in Escambia County, 1968. 134 p.

With notes on water quality and rates charged; includes maps of the regions served by the more than 26 systems.

Escambia County. Planning Division. 1981. Perdido Key Land and Resource Management Plan. 58 p.

Plan adpoted by the Board of County Commissioners, August 4, 1981.

Escambia County. Special Committee for Solid Waste Disposal Study. 1972. Escambia County Interim Solid Waste Disposal Plan. 62 p.

Escambia-Santa Rosa Regional Planning Council. 1971. Grant Application to the Environmental Protection Agency for Escambia-Santa Rosa Regional Water Quality Planning Study. 142 p.

Water pollution control planning application to EPA. A five-year water quality management plan for Escarosa.

Escambia-Santa Rosa Regional Planning Council. 1970. Overall Program Design, 1970-1973. 56 p.

A report, dated March, 1970, on the programs to be carried out by the Council.

Escambia-Santa Rosa Regional Planning Council. 1969. Final Report: A Comprehensive Areawide Plan for Water and Sewer Systems for Escambia County (Outside the Urban Area).

Report, dated September, 1969, prepared in cooperation with Farmers Home Administration, U.S. Department of Agriculture.

Escambia-Santa Rosa Regional Planning Council. 1968. Planning and Land Use Control Legislation and Administrative Organization for Planning in Escambia and Santa Rosa Counties: Analysis and Recommendations. 201 p.

A study, dated March, 1968, of the legislation and administrative organization needed by Escambia and Santa Rosa Counties and their incorporated municipalities in order to make and implement comprehensive plans for future growth and development of the area.

Evermann, B.W., and W.C. Kendall. 1900. Check-List of the Fishes of Florida. In: Rep. U.S. Comm. Fish. Fish., pt. 25. Washington, DC: U.S. Govt. Print. Off. pp. 35-103.

The list includes all species of fishes known...to occur in the fresh and brackish waters of Florida, and all salt-water species known from Florida waters within the depth limit of 1,000 fathoms. Under each species are given all the Florida localities from which it has been reported, and in the parenthesis following each locality are the name of the author reporting the species and the year when it was so reported.

ERL,GB

Faulkner, G.L., and C.A. Pascale. 1975. Monitoring Regional Effects of High Pressure Injection of Industrial Waste Water in a Limestone Aquifer. Ground Water 13(2):197-208.

The purpose of this paper is to describe the monitoring network and data collection program designed and operated to determine the long-term effects of large volume high pressure liquid waste injection in an aquifer of low transmissivity in the west end of Panhandle Florida. Of particular interest are determination of potential long-term effects on fresh ground-water supplies and the limits of the hydrogeologic system to receive the waste without harm to the fresh ground-water supplies.

ERL,GB

Ferguson, G.E. et al. 1947. Springs of Florida. Tallahassee, FL: Florida Geological Survey. 196 p. (Geol. Bull. 31)

Contains information on the hydrology and geology of Florida springs, their discharge, and water quality. Also includes descriptions of individual springs throughout the state.

Fernald, E.A. (Ed.). 1981. Atlas of Florida. Tallahassee, FL: Florida State University Foundation. 276 p.

This full color atlas of Florida portrays the major characteristics of the state's resources, largely in graphic form. A combination of maps, graphs, photographs, text, and artwork reveals the complexity of this unique, peninsular state. Introductory text to each of the eight sections provides the reader with an overview, while text blocks on the map pages provide information and explanation for the patterns and distributions shown by the maps and graphs. The major emphasis, however, is on maps. They portray significant aspects of Florida's physical environment, population, economy, history, and culture.

ERL,GB

Fernald, E.A., and D.J. Patton (Eds.). 1984. Water Resource Atlas of Florida. Tallahassee, FL: Florida State University. 291 p.

Fischer, D.W. 1985. Florida's Sandy Beaches: An Access Guide. Pensacola, FL: University of West Florida Press. 218 p.

This guide assists in matching interests with beaches by showing where they are, how to get there, and what to expect on arrival. It is designed to provide most of the information needed for finding and using Florida's beaches.

Fiskel, J.G.A., and S.B. McCaleb. 1953. Nature of the Clay Fractions of Some Soils in Florida. Soil Sci. 76:431-446.

The mineralogical composition of the clay fractions of the soils in Florida has received little attention, probably because most of the soil series have a low clay content in the upper horizons. The purpose of the present study was to determine the mineralogical nature of the clay fractions of several soil series in different counties of the state to provide basic information for soil survey and for soil fertility evaluation.

ERL,GB

Flood & Associates, Inc. 1978. South Escambia and Santa Rosa Counties 201 Facilities Plan.

A study of the long-term water quality management strategy in the region.

Flood & Associates, Inc. 1973. Project Plan for Water Quality Management: Pensacola Urban Area. (WPC-FLA-428)

Includes area between Perdido River and Bay...and Escambia River and Bay.

Flood & Associates, Inc. 1972. Metropolitan Pensacola - Five Year Water Plan.

Prepared for the Escambia-Santa Rosa Regional Planning Council.

Flood & Associates, Inc. 1971. Metropolitan Pensacola - Five Year Sewer Plan. 73 p.

Prepared for Escambia-Santa Rosa Regional Planning Council. Report develops a plan for sewerage based on rational planning and pollution control criteria.

Florida State University. Dept. of Urban and Regional Planning. 1973. Walton County, Florida, Coastal Zone Development Plan.

Contents: v. 1--Area studies: opportunities, issues, and objectives; v. 2--Development alternatives and strategies; v. 3--Development plan and implementation; v. 4--Summary report.

Florida State University. Resources and Environmental Analysis Center. 1978. Water Resources Study: Northwest Florida Region. Mobile, AL: U.S. Army. Corps of Engineers. 122 p.

An inventory, presented in cartographic and catalog form, of the unique and important physiographic, biological, cultural and environmental elements of the sixteen counties in northwest Florida.

Florida. Coastal Coordinating Council. 1973. Marine Environmental Studies of Florida's Gulf Coast: Summary and Selected Bibliography. 20 p.

ERL,GB

Florida. Coastal Coordinating Council. 1972. Florida Coastal Zone Management Atlas: A Preliminary Survey and Analysis. 172 p.

The basic purpose of this publication is to provide decision-makers and concerned citizens with an overview of the components that make up the coastal environment of Florida. The atlas delineates the areas already developed by our rapidly expanding coastal populations at this point in time. It also indicates those areas physically suited to accommodate future development where such development will have a minimum detrimental effect on the environment. Moreover, the atlas contains an inventory of the natural features still relatively undisturbed and recommends that essential, indicated segments of these be "preserved" in order to insure the maintenance of living marine resources, the aesthetic qualities of the coast and the physical integrity of the shorelands.

ERL,GB

Florida. Coastal Coordinating Council. 1971. Coastal Zone Management in Florida - 1971. 11 p.

A pilot study area for the coastal zone management plan was selected in Escambia-Santa Rosa counties in the western Panhandle centered on Pensacola. A suggested state zoning system is proposed for land and water areas utilizing the three basic categories of "Preservation" (no further development), "Conservation" (limited development permitted), and "Development" (suitable for intensive development). The geographic extent of each category in the pilot area has been mapped using aerial photography, soil surveys, topographic maps, and spot field checks. Totals for land zoning categories in Escarosa are: Preservation--6.5%; Conservation--30.5%; and Development--63%. Environmental aspects and uses for each Preservation and Conservation category are enumerated.

ERL,GB

Florida. Coastal Coordinating Council. 1971. Escarosa: A Preliminary Study of Coastal Zone Management Problems and Opportunities in Escambia and Santa Rosa Counties, Florida. 30 p.

An overview of the principal problems of coastal zone management in Escarosa developed by the staff of the CCC from a preliminary survey of existing data.

Florida. Coastal Coordinating Council. 1971. Florida Coastal Zone Applied Research Needs, Revised. 38 p.

This document supersedes the Coastal Coordinating Council's publication of April 1, 1971: Florida Coastal Zone Applied Research Needs, A Cursory Review. Presents research and informational needs, discusses further plans for research coordination and prioritizes needs for the development of a management plan.

Florida. Dept. of Administration. Bureau of Planning. 1972. Final Environmental Statement on Outlease of Land to Gulf Power Company at Eglin Air Force Base, Florida. 69 p.

Florida. Dept. of Community Affairs. Div. of Technical Assistance. 1976. The Local Government Comprehensive Planning Act. 15 p.

Notes on what the Act means to local governments, the planning process, requirements of the Act, citizen participation, and available assistance.

Florida. Dept. of Environmental Regulation. 1983. Deepwater Ports Maintenance Dredging Study: Ports of Jacksonville, Tampa, Manatee, and Pensacola.

Florida. Dept. of Environmental Regulation. 1977. Regional Water Quality Study: Sixteen Counties of Northwest Florida. Mobile, AL: U.S. Army. Corps of Engineers. 66 p.

The study area includes all West Florida counties.

Florida. Dept. of Environmental Regulation. 1976. Perdido-Escambia River Basin Water Quality Management Plan. 180 p.

Florida. Dept. of Environmental Regulation. 1975. Choctawhatchee River Basin Water Quality Management Plan. 352 p.

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1985. Bioassays of Air Products and Chemicals, Inc., Santa Rosa County, Florida. 26 p.

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1984. Bioassay of American Cyanamid Fibers Division, Milton, Santa Rosa County, Florida. 14 p.

Results of a 72 hour static acute toxicity bioassay performed on a grab sample of effluent using Mysidopsis bahia as the test organism.

ERL,GB

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1984. Bioassays of Air Products and Chemicals, Inc., Santa Rosa, Florida. 18 p.

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1984. Bioassays of Pensacola Naval Air Station Sewage Treatment, Escambia County, Florida. 11 p.

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1983. Bioassays of the Dubose Oil Products Hazardous Waste Sample, Escambia County, Florida. 16 p.

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1981. Bioassays of Century Sewage Treatment Plant, Escambia County Utilities Department, Century, Escambia County, Florida. 15 p.

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1981. Bioassays of Monsanto Textiles Company, Escambia County, Florida. 15 p.

Results of bioassays conducted to evaluate the observed toxicity of Monsanto's #001 effluent to Daphnia pulex and possibly to other biota of the receiving waters.

ERL,GB

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1981. Bioassays of St. Regis Paper Company, Kraft Division, Pensacola Mill, Escambia County, Florida. 13 p.

Results of three separate static bioassays on effluent samples from the St. Regis Paper Company, Kraft Division, Pensacola Mill to determine the existence and extent of toxicity to the biota of the receiving waters.

ERL,GB

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1981. Bioassays of the City of Pensacola Main Street Sewage Treatment Plant, Escambia County, Florida. 14 p.

Results of a series of bioassays conducted on effluent from the Pensacola Main Street Plant.

ERL,GB

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1980. Bioassay of Air Products and Chemicals, Inc., Santa Rosa, Florida. 10 p.

Results of static bioassays performed on effluent samples from outfall #001 to determine the existence and the extent of toxicity to the biota of the receiving water.

ERL,GB

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1980. Bioassay of Saufley Field Sewage Treatment Plant, Escambia County, Florida. 8 p.

Results of a static bioassay conducted with 24 hour composite effluent samples from the Saufley Field Plant to determine the existence and extent of toxicity to the biota of Perdido Bay.

ERL,GB

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1980. Bioassay of the City of Pensacola Main Street Sewage Treatment Plant, Escambia County, Florida. 7 p.

Results of a static bioassay performed on 24-hour composite samples to determine the existence and extent of toxicity to the biota of Pensacola Bay.

ERL,GB

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1980. Bioassays of American Cyanamid Company, Fibers Division, Santa Rosa County. 16 p.

Results of static bioassays performed on effluent samples from outfall #001 to determine the existence and the extent of toxicity to the biota of the receiving water.

ERL,GB

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1980. Bioassays of Pensacola Naval Air Station Sewage Treatment, Escambia County, Florida. 15 p.

Florida. Dept. of Environmental Regulation. Bureau of Water Analysis. 1979. Limiting Nutrient Algal Assays of Pensacola Bay. 15 p.

Limiting nutrient algal assays were performed on water samples from three stations near the outfall of Main Street Pensacola Waste Water Facility on Pensacola Bay. The purpose of the assay was to determine the nutrient limiting algal growth and to assess the impact (in terms of algal biomass) of increasing the phosphorus concentration of the STP effluent.

ERL,GB

Florida. Dept. of Environmental Regulation. Div. of Environmental Programs. 1985. Bioassays of Beulah Landfill, Pensacola, Escambia County, Florida. 10 p.

Florida. Dept. of Environmental Regulation. Div. of Environmental Programs. 1985. Bioassays of the Dubose Oil Products Pond Discharge, Escambia County, Florida. 11 p.

Florida. Dept. of Environmental Regulation. Nonpoint Source Management Section. 1978. Nonpoint Source Management: A Manual of Reference Management Practices for Urban Activities. 96 p.

This manual serves as a reference guide to those interested in the abatement of nonpoint source pollution.

Florida. Dept. of Environmental Regulation. Northwest District. 1983. A Hydrolab (Dissolved Oxygen) Survey of Blackwater - East Bay, Santa Rosa, Escambia Counties.

Florida. Dept. of Environmental Regulation. Northwest District. 1983. A Hydrolab (Dissolved Oxygen) Survey of Escambia Bay to Devils Point, Escambia, Santa Rosa Counties.

Florida. Dept. of Environmental Regulation. Northwest District. 1983. A Hydrolab (Dissolved Oxygen) Survey of Lower Perdido Bay, Escambia County.

Florida. Dept. of Environmental Regulation. Northwest District. 1983. A Hydrolab (Dissolved Oxygen) Survey of Pensacola Bay, Escambia, Santa Rosa Counties.

Florida. Dept. of Environmental Regulation. Northwest District. 1983. A Hydrolab (Dissolved Oxygen) Survey of Santa Rosa Sound, Okaloosa, Santa Rosa Counties.

Florida. Dept. of Environmental Regulation. Northwest District. 1983. A Hydrolab (Dissolved Oxygen) Survey of Upper Perdido Bay, Escambia County.

Florida. Dept. of Environmental Regulation. Northwest District. 1982. A Biological Assessment of Dubose Chemical Company Impact on Jack's Branch Tributary.

Florida. Dept. of Environmental Regulation. Northwest District. 1980. Experimental Dredging Study of Bayou Chico.

Florida. Dept. of Environmental Regulation. Northwest District. 1979. Biological Assessment of the Effects of the L&N Derailment at Pretty Branch near Molino, November, 1979.

Florida. Dept. of Environmental Regulation. Northwest District. 1978. Assessment of Radcliff Material Company's Shell Dredging in Mobile Bay and Application of Findings to Proposed Dredging in Choctawhatchee and East (Pensacola) Bay.

Florida. Dept. of Environmental Regulation. Northwest District. 1978. Results of Biological Sampling: Beulah Landfill.

Florida. Dept. of Environmental Regulation. Northwest District. 1976. Synoptic Reports of Water Quality and Biological Conditions in the Northwest District Coastal Waters During 1975 and 1976.

Florida. Dept. of Environmental Regulation. Northwest District. 1975. Summer Alga "Blooms" and Marine Organism Problems of Northwest Florida Gulf Beach Waters.

Florida. Dept. of Natural Resources. Div. of Beaches and Shores. 1986. Coastal Construction Control Line Review and Reestablishment Study for Escambia County. 43 p.

Florida. Environmental Land Management Study Committee. 1984. Final Report of the Environmental Land Management Study Committee. 107 p.

This report covers the work of the Environmental Land Management Study Committee (the ELMS Committee) from its first meeting, on December 1, 1982 through February 15, 1984.

Florida. Game and Fresh Water Fish Commission. 1982. List of Florida's Endangered and Threatened Species.

Florida. Game and Fresh Water Fish Commission. 1960/63. Florida Fishing: The Blackwater River Watershed and the Escambia River Watershed.

Florida. Game and Fresh Water Fish Commission. Varied. Fish Management Report, Northwest Region.

Florida. Game and Fresh Water Fish Commission. Northwest Florida Region. 1958. Conecuh-Escambia River Survey, August, 1958. 42 p.

A study of the river's fish population near the Alabama-Florida line.

Florida. Office of Planning and Budgeting. Program Review and Evaluation Unit. 1980. Evaluation of the Coastal Construction Control Line Program. Tallahassee, FL: Executive Office of the Governor. 47 p.

Contents: I. Program Definition; II. Data Presentation and Analysis of Findings; III. Conclusions and Recommendations.

Florida. State Board of Conservation. Annual. Summary of Florida Commercial Marine Landings.

ERL,GB (scattered issues)

Florida. State Board of Health. Bureau of Sanitary Engineering. 1970. Report of Sanitary Survey of Santa Rosa Sound, Escambia, Santa Rosa, and Okaloosa Counties. 80 p.

Florida. State Board of Health. Bureau of Sanitary Engineering. 1969. Escambia River Progress Report, December, 1968. 16 p.

A study of the upper Escambia and lower Conecuh river, with a report of the continuing degradation of the stream by discharges upstream of the [Florida] State Line.

Florida. State Board of Health. Bureau of Sanitary Engineering. 1967. Inventory of Public Sewerage Systems in Florida--1966.

Florida. State Board of Health. Bureau of Sanitary Engineering. 1967. Survey of Perdido River and Bay 1966-1967.

Florida. State Board of Health. Bureau of Sanitary Engineering. 1966. Biological Survey of Escambia River, 1966.

A report on organic pollution in the river as reflected in the invertebrate community. The authors conclude that water quality is being degraded by waste materials from the Chemstrand Corporation.

Florida. State Board of Health. Bureau of Sanitary Engineering. 1966. Classified Shellfish Areas.

Florida. State Board of Health. Bureau of Sanitary Engineering. 1966. Escambia River Progress Report, October, 1966.

A report of a chemical, biological and bacteriological survey, with notes on previous studies of pollution in the river.

Florida. State Board of Health. Bureau of Sanitary Engineering. 1964. Survey of City of Pensacola, Escambia County, July 1961 - March 1964.

Florida. State Board of Health. Bureau of Sanitary Engineering. 1963. Stream Pollution Survey of Escambia River, October 28, 1963.

A study of the river south of the Florida-Alabama line in order to compare results with those published in the Joint stream sanitation study of the Alabama Water Improvement Commission.

Florida. State Board of Health. Bureau of Sanitary Engineering. 1958. Escambia Bay Bioassay, April-May 1958. 13 p.

A bioassay of the wastes being released to Escambia Bay by the Escambia Chemical Corporation and Columbia-National Corporation.

Florida. State Board of Health. Bureau of Sanitary Engineering. 1957. Pollution Survey of Wastes from Escambia Chemical Corporation and Columbia-National Corporation, Flowing into Escambia Bay, Santa Rosa County, August 6 - September 13, 1957.

A survey of portions of Escambia Bay made in order to determine the causes of fish kills, colored and odorous waters in the vicinity of Fisherman's Point and Sandy Point on Escambia Bay.

Foose, D.W., and J.E. Sohm. 1983. Long-Term Streamflow Stations in Florida, 1980. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 107)

The flow of streams varies daily, monthly, annually, and over a period of years as a result of variation in rainfall and changes brought about by man. A record of these variations is useful for predicting future streamflow and the longer the streamflow record, the greater its usefulness and reliability in making these predictions. This map shows the location of the 236 streamflow stations in Florida with 10 or more years of record as of 1980. It also shows stations (through 1980) with 10 to 20, 20 to 30, 30 to 40, 40 to 50, and more than 50 years of record, respectively. These 236 long-term streamflow stations meet the criteria for statistical analysis as defined in a study of the national streamflow network. The authors of that report conclude that a reasonable period for determining the flow characteristics of any point on a stream that drains an area of less than 500 square miles is 10 or more years of daily record at that point. For larger drainage areas 25 years of record are needed.

ERL,GB

Foose, D.W., and M.E. Thagard. 1981. Index to Active Hydrologic Data Collection Sites in Florida, 1980-81. Tallahassee, FL: U.S. Geological Survey. 308 p.

This index contains a list of active data-collection sites in Florida operated by the U.S. Geological Survey in cooperation with local, State, and Federal agencies during the period from October 1, 1980 through September 30, 1981. The index shows the location of the site, the cooperator or cooperators supporting the data collection activities, the type and frequency of data collection, and the U.S. Geological Survey office responsible for collecting and processing the data.

Foster, J.B., and D.A. Goolsby. 1972. Construction of Waste-Injection Monitor Wells near Pensacola, Florida. Tallahassee, FL: Florida Geological Survey. 34 p. (Info. Circ. 74)

The effects of injection of liquid chemical waste into the lower Floridan aquifer at the Monsanto Company plant near Pensacola, Florida, have been monitored since July 1963. Near the end of 1968, high concentrations of waste were found in water samples from the monitor well that tapped the aquifer receiving the waste. This monitor well was plugged in February 1969 to eliminate the possibility that acid waste might corrode the well casing and escape from the injection zone into the fresh water strata of the sand-and-gravel aquifer. In order that the monitoring program might be continued, two additional monitor wells were drilled during the period December 1969-January 1970 at distances 1.5 miles south and 1.9 miles north of the injection wells. This report compiles the geologic and hydrologic data that pertain to the two monitor wells and were collected during the period of construction of these wells. Included are records of drill cuttings, water samples, temperatures, rates of artesian flow, aquifer tests, geophysical logs, and chemical analyses.

Foster, J.B., and C.A. Pascale. 1971. Selected Water Resource Records for Okaloosa County and Adjacent Areas. Tallahassee, FL: U.S. Geological Survey. 95 p. (Info. Circ. 67)

This report presents water resources records for Okaloosa County, the upper drainage area of Shoal River, coastal areas in Walton County, and selected areas in Santa Rosa County. These records were collected from January 1966 through September 1968.

Franklin, M.A., and L.R. Bohman. 1980. Hurricane Frederic Tidal Floods of September 12-13, 1979, Along the Gulf Coast, Oriole Beach, Garcon Point, Holley, South of Holley, and Navarre Quadrangles, Florida. Tallahassee, FL: U.S. Geological Survey. (Atlas HA-641)

Shows the areas flooded along the shores of Santa Rosa Sound and the Gulf of Mexico from Pensacola Beach eastward to The Narrows near Fort Walton Beach, Fla. The areas flooded along the shores of Pensacola, Escambia, Blackwater and East Bays were not delineated; however, floodmark elevations were determined.

Franklin, M.A., and L.R. Bohman. 1980. Hurricane Frederic Tidal Floods of September 12-13, 1979, Along the Gulf Coast, West Pensacola Quadrangle, Florida. Tallahassee, FL: U.S. Geological Survey. (Atlas HA-639)

Shows the elevations of floodmarks along the eastern shore of Perdido Bay.

Franklin, M.A., and J.C. Scott. 1980. Hurricane Frederic Tidal Floods of September 12-13, 1979, Along the Gulf Coast, Gulf Breeze-Fort Barancas Quadrangles, Florida. Tallahassee, FL: U.S. Geological Survey. (Atlas HA-640)

Shows the areas flooded along the shores of Big Lagoon, Pensacola Bay, Santa Rosa Sound and the Gulf of Mexico from Seaglades eastward to Pensacola Beach. Inundated areas along the shores of Pensacola Bay north of a line from Chevalier Field to Fair Point were not delineated; however, floodmark elevations were determined.

French, C.O., and J.W. Parsons. 1983. Florida Coastal Ecological Characterization: A Socioeconomic Study of the Northwestern Region. Slidell, LA: U.S. National Coastal Ecosystems Team. (FWS/OBS-83/15)

Data are compiled from existing sources on the social and economic characteristics of the Northwestern coastal region of Florida, which is made up of Escambia, Santa Rosa, Okaloosa, Walton, Bay, Gulf, and Franklin Counties. Described are the components and interrelationships among complex processes that include population and demographics characteristics, mineral production, multiple-use conflicts, recreation and tourism, agricultural production, sport and commercial fishing, transportation, industrial and residential development, and environmental issues and regulations. Energetics models of socioeconomic systems are also presented. The report consists of one volume of text and two volumes of data.

Futch, C.R., and J. Martina, Jr. 1967. A Survey of the Oyster Resources of Bay County, Florida, with Special Reference to Selection of Cultch Planting Sites. St. Petersburg, FL: Florida State Board of Conservation, Marine Lab. 22 p.

Field investigations for this report were made on two occasions, the first in mid-July and early August, the second during mid-September, 1966. Because of heavy rains in the midst of the first investigation, a second study was deemed necessary to gain better insight into the hydrography of the area. Salinities and temperatures (surface, mid-depth, and bottom), tides, bottom types, and abundance of oysters were noted at 159 stations in North, West, St. Andrews, and East Bays.

ERL,GB

Gallagher, R.M. 1971. Preliminary Report on the Hydrography of the Pensacola Bay Estuary, Florida. St. Petersburg, FL: Florida Dept. of Natural Resources, Marine Research Lab. 36 p. (Spec. Sci. Rept. 29)

Temperature, salinity, dissolved oxygen, and pH were monitored from September through December 1970 in the Pensacola Estuary, Florida. Temperatures ranged from 12.3 to 32.0 C, salinities rom 0.0 to 34.5%. These values did not fluctuate beyond those normally expected in respect to meteorlogical influences. Dissolved oxygen values at the surface were generally saturated but bottom values during September were generally below 58% of saturation in Escambia Bay, probably because of increased salinity stratification during periods of higher rainfall runoff and elevated temperatures. Analyses of pH values (which approached oceanic conditions except near river mouths) were inconclusive.

ERL,GB

Galtsoff, P.S. 1954. Gulf of Mexico: Its Origin, Waters, and Marine Life. U.S. Fish Wildl. Serv. Fish. Bull. 55(89):1-604.

Contents: I. Historical sketch of the explorations in the Gulf of Mexico; II. Geology; III. Marine meteorology of the Gulf of Mexico, a brief review; IV. Physics and chemistry of Gulf waters; V. Plant and animal communities; VI. Bacteria, fungi, and unicellular algae; VII. Protozoa; VIII. Sponges, coelenterates, and ctenophores; IX. Free-living flatworms, nemerteans, nematodes, tardigrades, and chaetognaths; X. Parasitic worms; XI. Bryozoa, Brachiopoda, Phoronida, and Enteropneusta; XII. Echinoderm; XIII. Annelids and miscellaneous worms; XIV. Arthropods; XV. Mollusks; XVI. Tunicates and lancelets; XVII. Fishes and sea turtles; XVIII. The birds of the Gulf of Mexico; XIX. Mammals of the Gulf of Mexico; XX. Pollution of water.

ERL,GB

Garrett, E.E. 1966. Comparison of Ground Mobility Characteristics of Land-Marine Interfaces of Florida and Thailand. Vicksburg, MS: U.S. Army Engineer Waterways Experiment Station. 79 p.

A semiquantitative system for describing the pertinent characteristics of land-marine interfaces with regard to ground mobility is developed and presented. The description involves the subjective identification of characteristic zones of the interface, and the measurement or designation of significant properties of those zones. The range of values or designation exhibited by each property is divided into suitable classes, and each class is assigned a code number. A total of 27 coastal sites in northwest and west central Florida and the Florida Keys and 14 coastal sites in Thailand are evaluated according to the newly developed system. A comparison of the Florida and Thailand coastal sites based on relative frequencies of occurrence of the range of values of each property is presented, and areas that may be expected to show some degree of similarity are identified.

Gartner, S., M.P. Chen, and R.J. Stanton. 1983. Late Neogene Nanno Fossil Bio Stratigraphy and Paleo Oceanography of the Northeastern Gulf of Mexico and Adjacent Areas. Mar. Micropaleontol. 8(1):17-50.

Two 305 m cored sections from the northwest Florida continental shelf contain a nearly complete record of Late Neogene hemipelagic sedimentation. One of the sites, south and east of De Soto Canyon, is isolated from terrigenous sediment except for sediment transported in suspension. This site contains a continuous record from the late Miocene to the Recent. The 2nd site, on the western rim of De Soto Canyon, is more expanded and continuous from the late Pliocene to the Recent.

Gaul, R.D. 1966. Circulation Over the Continental Margin of the Northeast Gulf of Mexico. College Station, TX: Texas A & M Research Foundation. 116 p. (A&M Project 286-D)

The quasi-steady ocean circulation over the continental margin of the northeast Gulf of Mexico has been delineated on the basis of three years of hydrographic and direct current observations. Observations were made by a wide range of techniques at two fixed platforms in the nearshore region off Panama City, Florida, and from small vessels during periodic surveys conducted over a larger area. Special attention has been given to the accuracy of measurements and to the temporal and spatial distribution of sampling relative to scales of observed circulatory phenomena.

Gaul, R.D. 1966. Environmental Research Off Panama City, Florida. College Station, TX: Texas A & M University, Dept. of Oceanography. 69 p. (A&M Project 286-D)

Initiation, conduct and general results of environmental research program in the Gulf of Mexico are described.

Gaul, R.D. 1963. Status of Environmental Research Off Panama City, Florida. College Station, TX: Texas A & M University, Dept. of Oceanography and Meteorology. 82 p. (A&M Project 286-D)

This report, prepared in the middle of the second year of contract work, is intended to encompass the major aspects of technological and research progress not covered in the three technical reports previously submitted to the Office of Naval Research.

Gaul, R.D. 1962. Instrumentation and Data Handling System for Environmental Studies Off Panama City, Florida. College Station, TX: Texas A & M University, Dept. of Oceanography and Meteorology. 54 p. (A&M Project 286-D)

A summary of the instrumentation and data handling equipment procured and installed prior to February 1962 for environmental studies off Panama City, Florida under Office of Naval Research contract Nonr2119(4).

Gaul, R.D. et al. 1964-66. Northeast Gulf of Mexico Hydrographic Survey Data Collected in 1963-65. College Station, TX: Texas A & M University, Dept. of Oceanography and Meteorology.

These reports summarize data collected during periodic hydrographic surveys over the continental shelf and slope of the northeast Gulf of Mexico. The survey region extends from the Mississippi Delta to Cape San Blas, Florida (about 300 nautical miles) and offshore to about the 1,000 fathom depth contour (100 to 110 nautical miles). Hydrographic observations consisted mainly of vertical profiles of temperature and salinity obtained by means of bathythermographs and salinity determinations of water samples taken at selected depths or by a salinity/temperature/depth (STD) instrument. In addition, several thousand drift bottles were released at selected locations in the survey area.

Gaul, R.D., A.D. Kirwan, Jr., and N.E.J. Boston. 1962. Opportunities for Environmental Research off Panama City, Florida. College Station, TX: Texas A & M University, Dept. of Oceanography and Meteorology. 17 p.

Summary of existing and potential research utilizing support and facilities available through the Office of Naval Research, the U.S. Navy Mine Defense Laboratory and the A. & M. College of Texas. Includes description of offshore Navy platforms located in waters off Panama City, Fla.

Geraghty & Miller, Inc. 1976. Status of the Fresh Ground-Water Resources of the Fort Walton Beach Area, Okaloosa County, Florida--with Special Emphasis on the Threat of Salt-Water Encroachment. 50 p.

Getty Oil Company. 1980. Supplemental Information: Getty Oil Company East Bay Project, Santa Rosa County, Florida.

An application to the Florida Department of Environmental Regulation to permit the drilling of an exploratory well in a part of the Bay approved for shellfish harvesting.

Getty Oil Company. 1979. East Bay Project: Santa Rosa County, Florida.

A collection of documents favoring the proposal to drill an exploratory natural gas well to the depth of 17,800 feet near the center of East Bay.

ERL,GB

Girvin, J. 1976. Blackwater Wildlife Management Area. Fla. Wildl. 29(9):8-11.

ERL,GB

Gittings, S.R., G.D. Dennis, and H.W. Harry. 1986. Annotated Guide to the Barnacles of the Northern Gulf of Mexico. College Station, TX: Texas A & M University, Sea Grant College Program. 36 p. (TAMU-SG-86-402)

The 49 species of thoracican barnacles that are known to occur in the northern Gulf of Mexico are differentiated by a taxonomic key based on external characters, with extensive illustrations and a glossary. The guide also includes an annotated list of those species and three systematically questionable ones, with areal range, bathymetry, substratum type and other data; a list of 16 species that have been found in the southern Gulf of Mexico but not in the northern Gulf; directions for collecting and examining specimens; and a list of references especially useful for further study of particular groups.

ERL,GB

Glassen, R.C. et al. 1977. Bayou Chico Restoration Study. Tallahassee, FL: Florida Dept. of Environmental Regulation. 47 p.

ERL,GB

Goldsmith, V. 1966. The Recent Sedimentary Environment of Choctawhatchee Bay, Florida. Tallahassee, FL: Florida State University. 75 p. Thesis.

The purpose of this study of the sedimentary environment of Choctawhatchee Bay is to delineate the complex of physical, biological, and chemical conditions under which the recent sediments have accumulated. This environmental study is meant not only as a contribution to the study of Florida marine geology, but also as a guide to the study of similar ancient sedimentary environments, found within the geological column.

Goodman, L.R. 1977. Occurrence of 'Esox niger' in Santa Rosa Sound, Florida. Fla. Sci. 40(4):393-400.

This is the first report of Esox niger collected from the normally saline portion of the lower Pensacola estuary. A 109 mm standard length chain pickerel was seined on 7 August 1975 from Santa Rosa Sound, in Santa Rosa County, Florida, from Thalassia beds about 300 m W. of the N. end of State Highway 399 bridge. The specimen is in the Environmental Research Laboratory Museum as catalog no. GBERL-1914.

Goodwin, J.M., IV, and J.H. Finucane. 1985. Reproductive Biology of Blue Runner Caranx crysos from the Eastern Gulf of Mexico. Northeast Gulf Sci. 7(2):139-146.

Blue runner were obtained from commercial fisheries in south Florida, northwest Florida, and the Mississippi Delta. Monthly mean gonadosomatic indices indicated that peak spawning occurred in June, July, and Aug. for all areas with a secondary peak in Oct. for northwest Florida. The spawning season was confirmed for the south Florida collection by histological examination of gonads. Probit analysis of 185 northwest Florida blue runner captured during peak spawning months indicated a length-at-maturity of 267 mm. Fecundity varied from 41,000 ova in a 243-mm-FL, 288-gram fish to 1,546,000 ova in a 385-mm-FL, 1076-gram fish. Sex ratios were 1.15F:1M for Mississippi Delta, 1.66F:1M for northwest Florida and 1.91F:1M for south Florida.

ERL,GB

Goolsby, D.A. 1972. Geochemical Effects and Movement of Injected Industrial Waste in a Limestone Aquifer. Am. Assoc. Pet. Geol. Mem. 18:355-368.

This paper includes an up-to-date case history of Monsanto's injection-well system and, to the extent possible, a discussion of the hydraulic and geochemical effects of this injection system on the subsurface environment.

ERL,GB

Goolsby, D.A. 1971. Hydrogeochemical Effects of Injecting Wastes Into a Limestone Aquifer Near Pensacola, Florida. J. Natl. Well Assoc. 9(1):13-19.

Acidic industrial wastes have been injected into deep wells in a limestone aquifer near Pensacola, Florida, since 1963. Prior geohydrologic studies in the area had indicated that the limestone aquifer contained nonpotable water and was overlain by an extensive clay confining layer. Two injection wells are presently being used to inject the waste at a rate of approximately 2,000 gallons per minute.

ERL,GB

Gorsline, D.S. 1966. Dynamic Characteristics of West Florida Gulf Coast Beaches. Mar. Geol. 4:187-206.

Notes on beach profiles, sediments, wave conditions, water characteristics and wind speed and direction based on observations made in 1962 at 15 beach stations from Keaton Beach to Gulf Shores, Alabama.

ERL,GB

Gould, H.R., and R.H. Stewart. 1955. Continental Terrace Sediments in the Northeastern Gulf of Mexico. In: Finding Ancient Shorelines. Hough, J.L., and H.W. Menard (Eds.). Tulsa, OK: Society of Economic Paleontologists and Mineralologists. 2-20. (Spec. Publ. 3)

Numerous bottom samples collected from two segments of the continental shelf and the upper part of the continental slope provide a fairly complete picture of the distribution of sediments and environments of deposition in the northeastern Gulf of Mexico. Off northern Florida and Alabama, detrital quartz is the dominant constituent of the unconsolidated sediments for a distance of about 50 miles from the coast. Compared to the central Florida sediments, the greater seaward extent of the terrigenous materials in the northern Florida and Alabama area is attributed chiefly to a much greater supply of detritus from adjacent rivers during the low stand ofthe sea in the Pleistocene and since the rise in sea level from that stage. Seaward of this broad detrital zone, the sediments consist mainly of calcareous organic debris.

Grady, J.R. 1981. Properties of Sea Grass and Sand Flat Sediments from the Intertidal Zone of St. Andrew Bay, Florida. Estuaries 4(4):335-344.

Organic and carbonate carbon and textural properties of the substrates underlying Halodule wrightii and Thalassia testudinum sea grass beds in the intertidal zone of St. Andrew Bay, Florida were compared to adjacent unvegetated sand flats by physiographic divisions within the bay and to the subtidal slopes of the bay. Sea grass and sand flat sediments were principally fine-grained quartz sands. The mean particle-size of the sea grass sediments were finer-grained than those of the sand flats only in the west arm and lagoon of the bay. Size-frequency distributions of the sea grass sediments were generally slightly more negatively skewed and more leptokurtic than those of the sand flats. The sea grass sediments were less well sorted than were the sand flat sediments. The average organic and carbonate carbon contents of the sea grass beds were 1.9-fold greater than that of the sand flats but much less than that of the subtidal sea grass meadows. In the areas of pollution, sea grasses were absent; near this area Halodule wrightii was the dominant sea grass.

ERL,GB

Green, F.M. 1973. Nitrogen Fixation in Salt Marshes of the Northern Gulf Coast of Florida. Pensacola, FL: University of West Florida. 30 p. Thesis.

On the nitrogen-fixing capabilities of salt marsh materials in Pensacola and Escambia bays.

Greene, J. 15Jan84. Florida's Environmental Laws Aren't Doing the Job. Miami Herald 6E.

ERL,GB

Grice, G.D., Jr. 1957. The Copepods of the Florida West Coast. Tallahassee, FL: Florida State University. 253 p. Dissertation.

Notes on the species encountered in the inshore and offshore waters of the Florida west coast, including distribution of congeneric species, coastwise distribution and geographic relationship of Florida west coast copepods.

Griffin, G.M. 1972. Sources and Dispersal of Clay Minerals in the ESCAROSA Area of Northwest Florida as Related to the Movement of Particulate Pollutants. 17 p.

Guest, W.C., and G. Gunter. 1958. The Sea Trout or Weakfishes (Genus Cynoscion) of the Gulf of Mexico. 40 p. (Tech. Summ. 1)

Contents: 1.--Characteristics; 2.--Distribution; 3.--Life Histories; 4.--Habits of Adult Fish; 5.--Parasitism; 6.--Commercial Fishery; and 7.--Sport Fishery.

Gunn, D.R., and J.V. Dennis. 1973. Tropical and Temperate Stranded Seeds and Fruits from the Gulf of Mexico. Contrib. Mar. Sci. 17(Aug):111-121.

Literature pertaining to buoyant tropical seeds and fruits (disseminules) seldom mentions the Gulf of Mexico. Yet some northern and western Gulf beaches regularly receive large numbers of tropical disseminules that have been carried by currents from the Caribbean region, northern South America, and Mexico. Frequent strandings coincide with onshore winds that move other tropical debris like Sargassum to shore. Padre Island, Texas beaches are especially rich in tropical disseminules. Other beaches which receive disseminules are located northward along the Texas coast, along the western coast of Louisiana, and on Santa Rosa Island, Florida. Disseminules of 34 tropical species and 24 temperate species have been collected from these beaches. Some of the temperate disseminules were carried by United States rivers into the Gulf currents and then stranded on Gulf Coast beaches.

ERL,GB

Gunn, R.A. et al. 1982. Norwalk Virus Gastro Enteritis Following Raw Oyster Consumption. Am. J. Epidemiol. 1115(3):348-351.

In Jan., 1980, 6 out of 13 persons (46%) attending a party in a small northwest Florida town near the Gulf of Mexico became ill with Norwalk virus gastroenteritis after eating raw oysters. Symptoms experienced by the ill persons were principally nausea (100%), vomiting (83%) and diarrhea (50%) and were of brief duration. The symptom complex and epidemiology of Norwalk virus infection closely resemble the gastrointestinal illness commonly referred to as the 24 h intestinal flu or stomach flu. Norwalk virus infection was identified in this outbreak by application of a recently developed sensitive and specific serologic radioimmunoassay. Oysters from the incriminated batch had fecal coliform levels above recommended standards; however, recent studies of oyster-harvesting waters have shown only a weak correlation between fecal coliforms and the presence of enteric viruses. Whether modifications of monitoring modalities for oyster-harvesting waters are needed should be studied further.

Gunter, G., and J.Y. Christmad. 1960. A Review of Literature on Menhaden with Special Reference to the Gulf of Mexico Menhaden, Brevoortia patronus Goode. U.S. Fish Wildl. Serv. Spec. Sci. Rep. 363:31 p.

The chief papers on Atlantic menhaden and practically every piece of biological literature on Gulf of Mexico menhaden are cited. Atlantic and Gulf menhaden literature are treated separately in topical arrangement.

ERL,GB

Gunter, H. et al. 1948. Elevations in Florida. Tallahassee, FL: Florida Geological Survey. 1158 p. (Geol. Bull. 32)

A comprehensive listing, by counties, of Florida's permanent bench marks and some temporary ones upon which elevations had been established.

Haburay, K. 1976. New Locality Records for Spirobranchus giganteus var. Giganteus in the Northeastern Gulf of Mexico. Fla. Sci. 39(2):127-128.

On the occurrence of the marine worm near Destin, Fla., an extension of its known range by 200 miles.

ERL,GB

Haburay, K. et al. 1974. Tropical Marine Fishes from Pensacola, Florida. Fla. Sci. 37(2):105-109.

Corniger spinosis is newly reported for the Gulf of Mexico; Pomacentrus fuscus, P. Partitus, Pomacanthus arcuatus, and P. paru are new to Pensacola. Pearlfish-sea cucumber symbiosis occurs frequently in the area.

ERL,GB

Haburay, K., C.F. Crooke, and R. Hastings. 1968. Tropical Marine Fishes from Pensacola, Florida. Q. J. Fla. Acad. Sci. 31(3):213-219.

A description of specimens collected, 1965-1967.

ERL,GB

Hall, J.S. 1972. Wastewater Discharges into Pensacola Bay, Escambia Bay and River (Excluding Monsanto, American Cyanamid and Air Products). Athens, GA: U.S. Environmental Protection Agency, Surveillance and Analysis Div. 39 p.

The investigation of significant wastewater sources in the Escambia-Pensacola Bay drainage basin consisted of a review of the types of industries in the study area, a review of waste discharge permits on file with the Florida Department of Pollution Control and an on-site investigation of each major potential pollution source. Eight pollution sources discharging waters directly into Escambia-Pensacola Bay receiving waters were sampled for a 24-hour period. Analyses varied with the types of wastewaters sampled and they are included in the report.

ERL,GB

Hall, J.S. 1972. Wastewater Survey: St. Regis Paper Company, Cantonment, Florida. Athens, GA: U.S. Environmental Protection Agency, Surveillance and Analysis Div. 53 p.

The report contains an evaluation of waste treatment at St. Regis Paper Company's integrated pulp and paper mill located at Cantonment, FL. Reported results are from a ten-daystudy which was requested by the conferees at the Perdido Bay Federal-State Enforcement Conference Progress Meeting held in Gulf Breeze, FL, during January 1972. The study was designed to determine waste removal effectiveness of treatment facilities serving the paper mill and to characterize the wastes discharged into Elevenmile Creek.

ERL,GB

Hall, J.S., B.H. Adams, and J.A. Little. 1972. Waste Source and Water Quality Survey: Perdido Bay and Tributaries, Alabama-Florida. Athens, GA: U.S. Environmental Protection Agency, Surveillance and Analysis Div. 117 p.

This report presents the results of a 10-day waste characterization and water quality study conducted by the Environmental Protection Agency during June 1972. The report specifically characterizes and quantifies the wastes discharged into upper Perdido Bay and its tributaries and assesses the waste's effects on receiving streams. The study, requested by the conferees at the Perdido Bay Federal-State Enforcement Conference Progress Meeting held in Gulf Breeze, Florida, during January 1972, presents the results with regard to the enforcement conference recommendations and compares study results with previous Federal findings.

ERL,GB

Hannah, R.P. 1972. Primary Productivity and Certain Limiting Factors in a Bayou Estuary. Pensacola, FL: University of West Florida. 21 p. Thesis.

The project presented here was aimed at the delineation of certain aspects of organic production in Bayou Texar. The rates of surface carbon fixation by the bayou phytoplankton were monitored using a spatial regimen designed to use variations in carbon fixation rates for the purpose of evaluating the status of certain abiotic factors in Bayou Texar waters. Of particular interest was the relationship between organic production and the dynamics of ammonia, nitrate and phosphate in the system and those entering it. Consideration was also given to some of the other major factors in the photosynthetic environment such as light penetration, temperature, and dissolved oxygen as these relate to organic production in the bayou.

Hannah, R.P., A.T. Simmons, and G.A. Moshiri. 1973. Nutrient-Productivity Relationships in a Bayou Estuary. J. Water Pollut. Control Fed. 45(12):2508-2520.

This report is based on both field and laboratory studies designed to delineate some aspects of temporal and spatial distribution of nitrogen and phospherus in Bayou Texar as related to the major source of these nutrients and the extent of carbon fixation in the system. Also included is a preliminary report on the kinetics of water-column phosphorus exchange with the sediment. Some evidence has already been presented to demonstrate the adsorption of orthophosphate ions by estuarine silt particles, and one report indicates that higher primary productivity may result in systems with higher sediment phosphorus content compared with similar systems with lower mud phosphorus.

ERL,GB

Hansen, D.J. 1969. Food, Growth, Migration, Reproduction, and Abundance of Pinfish, Lagodon rhomboides, and Atlantic Croaker, Micropogon undulatus, near Pensacola, Florida, 1963-65. U.S. Fish Wildl. Serv. Fish. Bull. 68(1):135-146.

The abundance, growth, age composition, food, migration, and reproduction of the two species were studied at two locations for each species from August 1963 to December 1965. The materials comprised 22 fish collections at each station, taken in about 500 hours of trawling.

ERL,GB

Hansen, D.J., and A.J. Wilson, Jr. 1970. Significance of DDT Residues From the Estuary near Pensacola, Fla. Pestic. Monit. J. 4(2):51-56.

Pesticide residues in fishes from the estuary near Pensacola, Fla., monitored from April 1964 to November 1965, are compared with residues in fishes exposed to DDT in the laboratory. DDT in fish exposed to 0.1 ppb p,p'-DDT for 5 weeks failed to increase after the second week, when maximum concentrations reached 38,000 times that in the test water. Loss of DDT from these fish was slow, 78%-87% in 8 weeks. The amounts of DDD or DDE in fish did not increase either during or after exposure. Residues in fish from the estuary rarely exceeded 0.1 ppm except in those collected from the lower estuary in the summer and fall when the amount of DDT and its metabolites reached 1.3 ppm. Fish from the lower estuary had more DDT and less DDD and DDE than fish from the upper estuary. The DDT content in lower estuarine fish increased in July, August, and September. One source of DDT was a county-sponsored spray program centered in the lower estuary in July and August.

ERL,GB

Harper, R.M. 1914. Geography and Vegetation of Northern Florida. In: Florida Geol. Survey, 6th Ann. Rept. Tallahassee, FL: Florida Geological Survey. 163-451.

Notes on the native vegetation of northern Florida in relation to the geographic divisions of the state, the topographic and drainage conditions and the soils.

Hastings, P.A., and S.A. Bortone. 1976. Additional Notes on Tropical Marine Fishes in the Northern Gulf of Mexico. Fla. Sci. 39(2):123-125.

Halichoeres poeyi is recorded from the Gulf of Mexico and its presence is attributed to the transport of pelagic eggs and larvae from more southerly populations; and H. radiatus is now known to occur at Destin, Florida perhaps by recruitment of individuals from offshore reefs. A second Gulf locality for Oostethus lineatus and a second specimen of Corniger spinosus are also reported.

ERL,GB

Hastings, R.W. 1972. The Origin and Seasonality of the Fish Fauna on a New Jetty in the Northeastern Gulf of Mexico. Tallahassee, FL: Florida State University. 555 p. Dissertation.

The establishment of the fish fauna on a new jetty at East Pass at the mouth of Choctawhatchee Bay, Okaloosa County, Florida, was studied during the period from June, 1968, to January, 1971. Both successional and seasonal changes occurring in the fish fauna were analyzed and compared with observations on older reef habitats in the northeastern Gulf of Mexico, such as jetties at St. Andrew Bay, Bay County, Florida, and also several natural reefs offshore at depths of 18 to 30 m.

Hays, K.L., and M.A. Tidwell. 1967. The Larval Habitats of Some Tabanidae diptera from Alabama and Northwest Florida. J. Ala. Acad. Sci. 38(3):197-202.

Head, C.M., and R.B. Marcus. 1984. The Face of Florida. Dubuque, IA: Kendall/Hunt Publishing Co. 209 p.

The material covered in the book is intended to provide a knowledge of the special aspects and features of Florida's physical geography. Special attention is directed to Florida's paleogeography, as well as Florida's present landscape, climate, soils and vegetation.

Heald, E.J. 1970. Fishery Resources Atlas II: West Coast of Florida to Texas. Miami, FL: University of Miami Sea Grant Program, Estuarine and Coastal Studies. (Tech. Bull. 4)

This report shows the location and magnitude of the principal fishery resources on the continental shelf of the United States, from the west coast of Florida to Texas.

Healy, H.G. 1972. Public Water Supplies of Selected Municipalities in Florida, 1970. Tallahassee, FL: U.S. Geological Survey. 213 p. (Info. Circ. 81)

This report summarizes municipal use of water in 138 selected municipalities in Florida as of December 1970 and includes the following: 1) Tabulation of data on water-use for each listed municipality; 2) tabulation of chemical analyses of water for each listed municipality; and 3) graphs of pumpage, included when available.

Healy, H.G. 1962. Piezometric Surface of the FLoridan Aquifer in Florida, July 6-17, 1961. Tallahassee, FL: Florida State Board of Conservation, Div. of Geology. (Map Series 1)

Heard, R.W. 1982. Guide to Common Tidal Marsh Invertebrates of the Northeastern Gulf of Mexico. Ocean Springs, MS: Mississippi-Alabama Sea Grant Consortium. 82 p. (MASGP-79-004)

This guide covers the common brackish water macroinvertebrates that live or occur in the salt marshes along the Mississippi-Alabama coast and immediately adjacent areas of Florida and Louisiana.

ERL,GB

Heath, R.C. 1954. Results of Ground-Water Studies on the Western End of Fair Point Peninsula, Santa Rosa County, Florida. Tallahassee, FL: U.S. Geological Survey.

Heath, R.C., and W.E. Clark. 1951. Potential Yield of Ground Water on the Fair Point Peninsula, Santa Rosa County, Florida. Tallahassee, FL: Florida Geological Survey. 55 p. (Rept. of Inv. 7)

Test wells drilled on the western end of Fair Point Peninsula show that the area is underlain by two relatively shallow aquifers. The upper aquifer extends from the land surface to a depth of 60 to 85 feet and is composed of sands of Pleistocene and Recent age. The lower aquifer begins at a depth of 80 to 110 feet and extends to a depth of 120 to 160 feet and is composed of coarse to fine slightly argillaceous sand of Pliocene(?) age. The two aquifers are separated by a layer of relatively impervious clay, ranging from 10 to 20 feet in thickness, which retards the movement of water from one aquifer to the other. An inventory of the supply wells in the area, made in the spring of 1950, showed that 79 of them drew water from the upper aquifer and only one drew water from the lower aquifer. The wells yield only small supplies of water for homes and tourist courts. Their aggregate draft is probably less than 50,000 gallons a day, most of which is returned to the ground.

ERL,GB

Heins, D.C. 1985. Life History Traits of the Florida Sand Darter, Ammocrypta bifascia, and Comparisons with Naked Sand Darter, Ammocrypta beani. Am. Midl. Nat. 113(2):209-216.

ERL,GB

Henderson, J.R. 1939. The Soils of Florida. Gainesville, FL: University of Florida, Agricultural Experiment Station. 67 p.

The aim of this publication is to present: first, as a background, a discussion of the characteristics, development and classification of soils in general; and, second, a discussion of Florida soils, including their development, characteristics, classification, utilization and management.

ERL,GB

Henningson, Durham & Richardson. 1977. Study of Water Supply Alternatives for Northwest Florida.

Contents: v. 1--Development of alternative public water supply systems; v. 2--Technical supplement. An investigation of current and future public water supply systems to meet the requirements at the year 2020 in the 16-county region.

Henningson, Durham and Richardson, Inc. 1975. Bayou Texar Restoration Study.

This report is the evaluation of data collected from sampling and analysis studies done by various agencies, including HDR, on Bayou Texar. There is a discussion of water quality and the sources and nature of some pollutants--nitrogen, phosphorus, sediment, and biochemical oxygen demand. Corrective measures and controls to be taken and a plan of implementation are provided.

Henry, V.J., and E.H. Shenton. 1955. Literature Survey of Lake Charles, La., Gulfport & Mobile, Ala., and Pensacola, Fla., and Their Approaches, Volume I: Geological Oceanography. College Station, TX: Texas A & M University, Dept. of Oceanography. (A&M Project 98)

Hinson and Associates. 1966. Preliminary Engineering Report on Sanitary Sewerage, Pensacola and Adjacent Areas, for City of Pensacola, Florida. 110 p.

Hixson, W.C., J.I. Niven, and T.S. Hopkins. 1971. Results of a Creel Census of the Lower Escambia River Sports Fishery. Pensacola, FL: Bream Fishermen Association. 18 p.

A comprehensive creel census for the lower Escambia River sports fishery was conducted to determine its yield status. The census was implemented in the spring of 1970 and covered the months of April, May, and June. The selection of the spring spawning season for the census was deliberate in that the best fishing conditions arise at this time of year and fisherman activity is at its peak. It is felt that this survey fully accomplished its objectives relative to establishing a baseline reference for evaluating any changes in the yield of the Escambia River sports fishery that may be detected by future creel census programs. Furthermore, in the opinion of the authors, the creel data proper document the contention of local sports fishermen that pollution has indeed adversely affected the tidewater sections of the Escambia River sports fishery.

ERL,GB

Hobbs, H.H. 1942. Crayfishes of Florida. Gainesville, FL: University of Florida Press. 179 p.

Holmes, C.W., and H.G. Goodell. 1964. The Prediction of Strength in the Sediments of St. Andrew Bay, Florida. J. Sediment. Petrol. 34(1):134-143.

The cohesion, or strength, of sediments from cores taken at ten sites in St. Andrew Bay, Florida, have been investigated as a function of a number of other sediment characteristics by multiple linear regression and non-linear regression. Cohesion was measured by unconfined compression of vane shear tests. Strength in these sediments is found to decrease as sediment water content increases, to increase with depth in the core, and to increase with an increase in the ratio of kaolinite to illite. All of these variables are linearly related to strength. Water content, depth in core and the ratio of K:I are associated with a number of second order effects, most of which both increase and decrease strength. Penetration depends upon sediment water content, mean grain size, sorting, and void ratio.

ERL,GB

Hood, M.A., and G.A. Moshiri. 1978. Environmental Assessment of Potential Restoration Programs for Bayou Texar, Pensacola, Florida. Pensacola, FL: University of West Florida. (Unpublished)

Hopkins, T.L. 1966. The Plankton of the St. Andrew Bay System, Florida. Publ. Inst. Mar. Sci. Univ. Tex. 11:12-64.

Plankton were collected in the St. Andrew Bay System, Florida from 1959 to 1962. Data are presented on seasonal changes in plankton composition and biomass and on some of the environmental parameters which may have strongly influenced observed biological variations.

ERL,GB

Hopkins, T.S. 1973. Marine Ecology in Escarosa. Tallahassee, FL: Florida Coastal Coordinating Council. 100 p.

This research report is intended to help fill the deficiency of knowledge about the marine ecology of the Escarosa area and provide a basis for making rational decisions about activities that may affect Escarosa's valuable marine resources. Includes notes on the effects of pollution and the status of sport and commercial fisheries in the region.

ERL,GB

Hopkins, T.S. 1969. The Escambia River and Escambia Bay during Summer, 1969: A Report in Two Parts. Washington, DC: U.S. Bureau of Commercial Fisheries. 54 p.

Pt. I. Physical/chemical studies on Escambia River complex; Pt. II. Physical/chemical/biological studies on Escambia Bay.

ERL,GB

Horvath, G.J. 1968. The Sedimentology of the Pensacola Bay System, Northwestern Florida. Tallahassee, FL: Florida State University. 89 p. Thesis.

This study of bottom sediments was made to determine the sedimentological characteristics of the Pensacola Bay System, in order to draw conclusions about these estuarine depositional environments.

Howe, H.V. 1935. Ostracoda of the Arca Zone of the Choctawhatchee Miocene of Florida. Tallahassee, FL: State Board of Conservation, Geological Dept. 47 p. (Geol. Bull. 13)

Description of genera and species.

ERL,GB

Howell, W.K. et al. 1973. Forest Resource Report for the Escambia-Santa Rosa Regional Planning Council. 88 p.

A study of the forest resources of Multi-county Planning District One, comprising Escambia, Santa Rosa, and Okaloosa counties. With notes on recreational facilities, forest products, and a list of fire departments in the region.

Hulings, N.C. 1961. The Barnacle and Decapod Fauna from the Nearshore Area of Panama City, Florida. Q. J. Fla. Acad. Sci. 24(3):215-222.

Findings of a survey of the nearshore benthonic fauna off Panama City, Florida, begun during the summer of 1957 and continued for two years.

ERL,GB

Hulings, N.C. 1958. An Ecological Study of the Recent Ostracods of the Gulf Coast of Florida. Tallahassee, FL: Florida State University. 214 p. Dissertation.

In view of the paucity of information concerning the ostracods of the Gulf of Mexico, especially ecological information, it was thought worthwhile to undertake an investigation that would contribute to the knowledge of the ecology of Recent marine ostracods. Most of the published work on the Gulf ostracods, as well as other areas, has been taxonomic with little or no ecological data. Therefore, the emphasis of this investigation has been on ecology rather than taxonomy.

Hull, R.W., and J.B. Martin. 1982. Data on Subsurface Storage of Liquid Waste Near Pensacola, Florida, 1963-1980. Tallahassee, FL: U.S. Geological Survey. 179 p.

This report presents hydrogeologic data on two subsurface storage systems near Pensacola, Florida, both of which inject liquid industrial waste through deep wells into a saline aquifer. Injecting sites are described, including details of injection and testing; geologic data from cores and grab samples; graphs of injection rates, volume, pressure, and water levels; and chemical and physical data from water-quality samples collected from injection and monitor wells.

ERL,GB

Humm, H.J. 1964. Epiphytes of the Sea Grass, Thalassia testudinum, in Florida. Bull. Mar. Sci. Gulf Caribb. 14(2):306-341.

One hundred and thirteen species of algae are reported occurring as epiphytes on the seagrass, Thalassia testudinum, 92 of which have been recorded from the south Florida area, 20 to 25 per cent of the total algal flora. Two groups of epiphytes are recognized, the year-round species and the seasonal annuals. Among the former are calcareous Corallinaceae which contribute significantly to the sediments of sea grass beds; among the latter is a group of large plants which may become sufficiently abundant during winter and spring to shade the Thalassia significantly.

ERL,GB

Humm, H.J. 1956. Sea Grasses of the Northern Gulf Coast. Bull. Mar. Sci. Gulf Caribb. 6(4):305-308.

On the basis of observations in Mississippi Sound and elsewhere, it is known that at least five species of marine monocotyledonous plants commonly known as "sea grasses" occur in abundance along the northern Gulf coast and may be virtually continuous between Florida and Aransas, Texas. An annotated list of species and key are included.

ERL,GB

Humm, H.J., and S.E. Taylor. 1961. Marine Chlorophyta of the Upper West Coast of Florida. Bull. Mar. Sci. Gulf Caribb. 11(3):321-380.

Sixty-five species of marine Chlorophyta are reported from the Florida Gulf coast between Tampa Bay and Pensacola, about half of which are newly reported for this area. A key, descriptions, and many illustrations are included.

ERL,GB

Hutton, R.F. et al. 1959. Investigations on the Parasites and Diseases of Saltwater Shrimps (Penaeidae) of Sports and Commercial Importance to Florida (Preliminary Report). St. Petersburg, FL: Florida State Board of Conservation, Marine Lab. 31 p. (Tech. Series 26)

This publication constitutes a preliminary report on the parasites and diseases of penaeid shrimps of sports and commercial importance to the State of Florida.

ERL,GB

Hyde, L.W. 1965. Principal Aquifers in Florida. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 16)

Hyne, N.J. 1965. Sedimentary Environments and Submarine Geomorphology of the Continental Shelf in the Area of Choctawhatchee Bay, Florida. Tallahassee, FL: Florida State University. 126 p. Thesis.

The purpose of this study of the continental shelf in the area of Choctawhatchee Bay, Florida is to define the sedimentary characteristics and distributional patterns and to relate these to the submarine geomorphology. The study of this marine environment is justified not only in its interest to the marine geologist but also as an aid to any geologist who describes and interprets ancient, sedimentary rocks. Thus, it is also the purpose of this study to provide another guide to the recognition and interpretation of similar, ancient environments.

Hyne, N.J., and H.G. Goodell. 1967. Origin of the Sediments and Submarine Geomorphology of the Inner Continental Shelf off Choctawhatchee Bay, Florida. Mar. Geol. 5:299-313.

A portion of the inner continental shelf in the northern Gulf of Mexico exhibits sinusoidal, submarine ridges and troughs oriented roughly 70 degrees to the strand line. Almost perpindicular to the ridges and troughs are two linear sand bodies lying at 70 and 90 ft. depths. A thin lamina of clayey silt covers the coarse, clean sands forming this topography. Sediments comprising the sand bodies are distinguishable from surrounding sediments by their larger grain size and higher heavy mineral content. The ridges display coarser, better sorted sediments with higher heavy mineral percentages than the troughs. It is proposed that the sand bodies originated as barrier islands and/or spits during the Late Wisconsin regression. Fluvial action cut the ridge and trough topography into the terrace and the recent, Wisconsin sea level rise modified the topography to its present form. Radiocarbon dates the youngest aspects of the 70 ft. deep sand body as at least 5,000 years B.P.

ERL,GB

Ichiye, T., and M.L. Jones. 1961. On the Hydrography of the St. Andrew Bay System, Florida. Limnol. Oceanogr. 6(3):302-311.

The St. Andrew Bay System consists of a group of coastal plain estuaries on the northern Gulf coast of Florida. Hydrographic and marine biological surveys of this area have been continued since 1957 by the Oceanographic Institute with cooperation from the U.S. Navy Mine Defense Laboratory, Panama City, under the sponsorship of Office of Naval Research.

ERL,GB

Idyll, C.P., and J.W. Sutton. 1952. Results of the First Year's Tagging of Mullet, Mugil cephalus L., on the West Coast of Florida. Trans. Am. Fish. Soc. 81(1):69-77.

This paper reports results of the first year's tagging experiment on black or striped mullet, Mugil cephalus, carried on by the Marine Laboratory of the University of Miami on behalf of the Florida State Board of Conservation.

ERL,GB

Ingle, R.M., R.F. Hutton, and R.W. Topp. 1962. Results of the Tagging of Salt Water Fishes in Florida. St. Petersburg, FL: Florida State Board of Conservation, Marine Lab. 57 p. (Tech. Series 38)

The tagging of salt water fishes in the 1960-61 Schlitz Tagging Program was carried out in Zone IV (including northwest Florida from the Wacasassa River to the western Escambia County line) from March 12, 1961 through May 5, 1961.

Institute of Paper Chemistry. 1968. Biological Survey of the Conecuh-Escambia Rivers in the Vicinity of Brewton, Alabama - 1967. 44 p. (Project 2024)

Irby, E.W., Jr. 1974. A Fishing Survey of Choctawhatchee Bay and Adjacent Gulf of Mexico Waters. St. Petersburg, FL: Florida Dept. of Natural Resources, Marine Research Lab. 26 p. (Mar. Res. Publ. 2)

A survey of sports and commercial fishing was conducted in the Choctawhatchee Bay area from October 1970 to November 1971. Personal interviews of fishermen in the field were used to obtain basic fishing data, including catch-per-unit-effort (CPUE), man-hours fished, gear, catch location, species, and numbers of fish landed. Ten aerial surveys were flown to estimate total number of fishermen. A postcard questionnaire was sent to all boat owners in Okaloosa and Walton Counties, Florida to obtain supplementary data.

ERL,GB

Isphording, W.C., J.A. Stringfellow, and G.C. Flowers. 1985. Sedimentary and Geochemical Systems in Transitional Marine Sediments in the Northeastern Gulf of Mexico. Trans. Gulf Coast Assoc. Geol. Soc. 35:397-408.

The coastal zone of the northeastern Gulf of Mexico is marked by a series of bays and estuaries that serve as the principal depositional basins for rivers draining an area of greater than 160,000 km. These rivers actually contribute a sediment load to the basins in excess of 12 million tons. Because each river drains a watershed of different lithologic character and each river is further characterized by a different flow regime and hydraulic properties, the sediments deposited in the marginal basins have their own uniqueness. Extensive municipal and industrial "dumping" of effluent over the years has also acted to imprint geochemical differences on each of the depositional basins. Depending upon the degree of industrialization within the watershed, the bays and estuaries may be described as ranging from "heavily impacted" (Mobile Bay), "moderately impacted" (Apalachicola Bay, Mississippi Sound) or "slightly impacted" (Pensacola Bay). A strong correlation was observed between the degree of heavy metal contamination and the textural and organic content of the sediments. Analyses further indicated that most metals were partitioned in the bottom sediments in forms that would permit their subsequent release back into the water column or would allow transference of the metal to fauna by ingestion.

ERL,GB

Jackson, B.P. (Ed.). 1978. Symposium on Protecting the Marine Environment: Research and Regulation. Gulf Breeze, FL: U.S. Environmental Protection Agency, Environmental Research Lab. 38 p. (EPA-600/9-78-006)

Program held at the dedication of the new toxicological testing facility at the U.S. EPA laboratory in Gulf Breeze, Fla., October, 1977.

ERL,GB

Jacob, C.E., H.H. Cooper, Jr., and S.A. Stubbs. 1940. Report on the Ground-Water Resources of the Pensacola Area, in Escambia County, Florida. Tallahassee, FL: U.S. Geological Survey. 91 p.

This report presents the results of an investigation of ground-water conditions in Escambia County, Florida, especially in the vicinity of the city of Pensacola. The field studies began about December 15, 1939, and the present report is based on field work done up to about April 10, 1940.

Jarvis, N.D. 1935. Fishery for Red Snappers and Groupers in the Gulf of Mexico. Washington, DC: U.S. Govt. Print. Off. 29 p. (Inv. Rept. 26)

Contents: 1.--Species taken; 2.--Fishing methods; 3.--Boats; 4.--Production; 5.--Handling and marketing; 6.--Problems of the industry; 7.--Studies on fishing gear and methods of preservation.

ERL,GB

Jeffrey, L.M., and G. Moskovits. 1955. Literature Survey of Lake Charles, La., Gulfport & Mobile, Ala., and Pensacola, Fla., and Their Approaches, Volume II: Physical Oceanography and Marine Biology. College Station, TX: Texas A & M University, Dept. of Oceanography. (A&M Project 98)

Contents: Sect. II. Water Mass Characteristics; Sect. III. Transparency; Sect. IV. Currents; Sect. V. Sea and Swell; Sect. VI. Marine Biology.

Jendrzejewski, J.P., and G.F. Hart. 1978. Distribution of Siliceous Micro Fossil in Surficial Bottom Sediments of the Gulf of Mexico. Palynology 2:159-166.

Johnson, A.G., and C.H. Saloman. 1984. Age, Growth, and Mortality of Gray Triggerfish, Balistes capriscus, from the Northeastern Gulf of Mexico. Fish. Bull. 82(3):485-492.

Age, growth, and mortality of gray triggerfish, Balistes capriscus, from the northeastern Gulf of Mexico were estimated from sections of the first dorsal spine of 1,746 fish. The oldest female was estimated to be 12 years old and the oldest male was 13 years old.

ERL,GB

Johnson, C.W. 1934. List of Marine Mollusca of the Atlantic Coast from Labrador to Texas. Proc. Boston Soc. Nat. History 40(1):1-204.

Jolley, J.W., Jr. 1972. Exploratory Fishing for the Sunray Venus Clam, Macrocallista nimbosa, in Northwest Florida. St. Petersburg, FL: Florida Dept. of Natural Resources, Marine Research Lab. 42 p. (Tech. Series 67)

Exploratory fishing to locate commercially significant beds of the sunray venus clam, Macrocallista nimbosa (Solander), and to survey benthic fauna from 68 ft shoreward was conducted with a 48-in. hydraulic Nantucket clam dredge. Sampling was dependent on mild weather and was usually confined to sandy substrates. One hundred seventy-three stations were established from the Alabama-Florida boundary line to Cedar Keys with five additional stations in southwest Florida.

ERL,GB

Jones, J.I. et al. (Eds.). 1973. A Summary of Knowledge of the Eastern Gulf of Mexico, 1973. St. Petersburg, FL: State University System of Florida, Inst. of Oceanography. 607 p.

This report represents a compilation and evaluation of selected studies of the significant natural and artificial environmental characteristics of the eastern Gulf of Mexico. It has been prepared by a group of qualified scientists collectively conversant with the major environmental aspects of the subject region. The purpose of this report is to provide an overview of the current status of knowledge and information on past and ongoing studies which are significant for a more complete understanding of the environment and ecology of this area. Selected investigations have been utilized by the respective authors, and there has been no attempt to list or discuss all studies within the area.

ERL,GB

Joyce, E.A., Jr. 1971. History and Current Status of the Sunray Venus Clam Fishery in Northwest Florida. Am. Malacol. Union Inc. Annu. Rep. 1970:29-30.

A new fishery was initiated in February 1967 near Port St. Joe, Florida, for the sunray venus clam, Macrocallista nimbosa (Solander). This marked the first commercial harvest of this species and was accomplished under a permit issued by the Florida Department of Natural Resources which required that a Department biologist accompany the clam vessel during the first few months of harvesting. Thus was realized a very rare opportunity: to observe the initial utilization of a virgin resource.

ERL,GB

June, F.C., and J.L. Chamberlin. 1959. Role of the Estuary in the Life History and Biology of Atlantic menhaden. In: Proceedings of the Gulf and Caribbean Fisheries Institute, 11th Annual Session. pp. 41-45.

KRS Associates Inc. 1976. A Local Officials Guide to the Local Government Comprehensive Planning Act. Tallahassee, FL: Florida Dept. of Community Affairs. 248 p.

Contents: 1.--Executive Summary; 2.--Comprehensive Planning Process and Program; 3.--The Comprehensive Plan; 4.--Public Participation in the Planning Process; 5.--Administrative Responsibility for the Comprehensive Planning Program; 6.--Comprehensive Plan Adoption and Legal Status; 7.--Implementation of the Comprehensive Plan; 8.--Plan Amendment and Evaluation; 9.--Approach to Work Program and Plan Elements.

Kaufman, M.I. 1975. The pH of Water in Florida Streams and Canals. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 37)

This report presents in a succinct and usable form information on the pH of streams and canals throughout Florida as an aid to water managers, users, and planners.

Kaufman, M.I. 1973. Subsurface Wastewater Injection, Florida. J. Irrig. Drain. Div. Proc. Am. Soc. Civil Eng. 99(IR1):53-70.

This paper contains both a summary of data and present status of subsurface waste injection in Florida, including observed hydraulic and geochemical effects and a descriptive regional portrayal of the lithology and hydrogeochemistry of the saline-aquifer systems. Subsurface disposal of oilfield brines is excluded.

ERL,GB

Kenner, W.E. 1969. Seasonal Variation of Streamflow in Florida. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 31)

This map shows seasonal variations of streamflow by graphically comparing monthly average flow in terms of the percentage of average annual flow. Florida's pattern of streamflow variation is unusual in two respects. First, the month-to-month variation in average streamflow is relatively small; second the seasonal variations of streams in different sections of the state are different.

ERL,GB

Kenner, W.E., E.R. Hampton, and C.S. Conover. 1969. Average Flow of Major Streams in Florida. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 34)

Kent, B.W. 1983. Natural History Observations on the Busyconine Whelks, Busycon contratium and Busycotypus spiratum. J. Molluscan Stud. 49(1):37-42.

Several aspects of the natural history of the sympatric busyconine whelks, Busycon contrarium and Busycotypus spiratum, were examined along the northwest Gulf coast of Florida. Field and laboratory observations were made on feeding rate, crawling speed, size distributions, growth rate and reproduction. The 2 spp. were similar in several respects. Both were slow-growing with growth occurring only above 20 degree C. Modal sizes for both species have markedly declined over the past 2 decades. Feeding rates and crawling speeds were affected by seasonal temperature changes, being highest at intermediate temperatures. Both species copulate in late autumn to early winter, lay egg capsules in early spring, with hatching beginning in May. One major interspecific difference was observed; the crawling speed of B. spiratum was twice that of B. contrarium. This difference was correlated with the larger foot of B. spiratum.

Kent, B.W. 1983. Patterns of Coexistence in Busyconine Whelks. J. Exp. Mar. Biol. Ecol. 66(3):257-284.

ERL,GB

Kent, B.W. 1981. Prey Dropped by Herring Gulls, Larus argentatus, on Soft Sediments. Auk 98(2):350-354.

The prey dropped by herring gulls (L. argentatus) on soft sediment substrates in northwest Florida were examined between Jan. and April 1979. Bivalves were the dominant prey, with the scallop (Argopecten irradians) accounting for over half of the prey dropped. Only the largest available prey were dropped. Gastropods were abundant but were not dropped due to greater resistance to breakage than bivalves.

Kent, H.C., S.J. Williams, and J.D. Howard. 1976. Distribution and Relation of Physical and Biogenic Sedimentary Structures: Shallow Continental Shelf Off Northwestern Florida and Alabama. Am. Assoc. Pet. Geol. Bull. 60(4):687.

Keppner, E.J. 1986. New Species of Free-Living Marine Nematodes (Nematoda: Enoplida) from Bay County, Florida, U.S.A. Trans. Am. Microsc. Soc. 105(4):319-337.

Six new species of free-living marine nematodes of the order Enoplida are described from unvegetated, subtidal sediments from St. Andrew Bay and Lake Powell, Bay County, Florida, U.S.A.

ERL,GB

Ketchen, H.G. 1979. A Hydrographic Survey in Pensacola Bay. Tallahassee, FL: Florida State University. 117 p. Thesis.

During the summer and fall of 1974, a study of Pensacola Bay was conducted in an attempt to determine the flushing tendencies and circulation patterns in this estuary. The objectives of this study were to: (a) classify Pensacola Bay as a particular dynamic type and suggest how this classification might change under various influences, (b) gain some insight into the flow patterns and mechanisms responsible for transporting dissolved or suspended materials from the Bay, and (c) collect a set of hydrographic data and present some findings and interpretations which would prove valuable to other investigators as a base for additional research in the Bay.

Kirst, A., Jr., and R.D. Gaul. 1964. Summary of Automated Environmental Data Collected Off Panama City, Florida, June 1962 - December 1964. College Station, TX: Texas A & M University, Dept. of Oceanography and Meteorology. 61 p. (A&M Project 286-D)

This report lists the type of data and the periods during which they were acquired by automated data systems located off Panama City, Florida.

Kirst, A., Jr., and C.W. McMath, Jr. 1966. Automated Environmental Data Collected Off Panama City, Florida, January 1965 - April 1966. College Station, TX: Texas A & M University, Dept. of Oceanography. 118 p. (A&M Project 286-D)

This report is a summary of the environmental air-sea data collected in the nearshore region off Panama City, Florida by an automated data acquisition system. The data was collected between January 1965 and April 1966. Various phases of the data acquisition and reduction system are also discussed.

Kirst, A., Jr., and C.W. McMath, Jr. 1966. Automated Environmental Data Collected Off Panama City, Florida, June 1962 - December 1964. College Station, TX: Texas A & M University, Dept. of Oceanography. 92 p. (A&M Project 286-D)

This report is a summary of the environmental air-sea data collected in the nearshore region off Panama City, Florida by an automated data acquisition system. The data was collected between June 1962 and December 1964. Various phases of the data acquisition, handling and reduction system are also discussed.

Klima, E.F., and D.A. Wickham. 1971. Attraction of Coastal Pelagic Fishes with Artificial Structures. Trans. Am. Fish. Soc. 100(1):86-99.

Artificial structures positioned off Panama City, Florida, during July 1969 proved effective in attracting commercial quantities of round scad, Spanish sardines, and scaled sardines. The structures' position in the water column and their design were important in attracting up to 25 metric tons of fish and consistently attracted from 1/2 to 5 metric tons daily. SCUBA divers made visual estimates of the number of each species present at the structures. We discuss the behavior of the fish and present a possible explanation of why fish are associated with submerged structures.

ERL,GB

Knight, H.A. 1969. Forest Statistics for Northwest Florida, 1969. Asheville, NC: Southeastern Forest Experiment Station. 35 p. (Res. Bull. SE-14)

This report highlights the principal findings of the fourth Forest Survey of the timber resources in Northwest Florida. The survey was started in July 1968 and completed in March 1969. Findings of the three previous surveys, completed in 1934, 1949, and 1959, provide the basis for measuring changes that have occurred and trends that have developed over the past 35 years. However, in this report, the primary emphasis is on the changes and trends that have taken place since the last survey.

Kruczynski, W.L. 1982. Salt Marshes of the Northeastern Gulf of Mexico. In: Creation and Restoration of Coastal Plant Communities. Lewis, R.R., III (Ed.). Boca Raton, FL: CRC Press. 71-87.

Reviews the characteristics of those natural marshes which exist along the Gulf coastline from Tarpon Springs (Pinellas County), Fla. through Mississippi, and summarizes studies on the establishment of marsh communities on dredged spoil.

ERL,GB

Kruczynski, W.L., and C.B. Subrahmanyam. 1978. Distribution and Breeding Cycle of Cyathura polita (Isopoda:Anthuridae) in a Juncus roemerianus Marsh of Northern Florida. Estuaries 1(2):93-100.

Cyathura polita was the most common infaunal macroinvertebrate in a north Florida Juncus roemerianus marsh. Density was 58 and 75/m2 in lower and upper marsh zones, respectively, during a 19 month study period. It was randomly distributed in both marsh zones, but density was greatest 200 m from low water. Population analysis indicated that reproduction occurred in April, young were common in May and these produced young the following April. Males matured first, and there was some evidence for possible protogynous hermaphroditism. Smaller body size, shorter maturation period and a different environment from previously reported populations of C. polita suggest that we have described a new ecotype located in a distinctively different biotope.

ERL,GB

Kruczynski, W.L., C.B. Subrahmanyam, and S.H. Drake. 1978. Studies on the Plant Community of a North Florida Salt Marsh, Part I: Primary Production. Bull. Mar. Sci. 28(2):316-334.

Juncus roemerianus is the dominant salt marsh angiosperm in northwestern Florida, and its growth and production was determined in three soil zones. Productivity of Spartina alterniflora and Distichlis spicata was also measured.

ERL,GB

Kruczynski, W.L., C.B. Subrahmanyam, and S.H. Drake. 1978. Studies on the Plant Community of a North Florida Salt Marsh. Part II. Nutritive Value and Decomposition. Bull. Mar. Sci. 28(4):707-715.

Nutritive values of dominant halophytes in a Juncus roemerianus marsh at St. Marks, Florida were measured bimonthly from September 1974 through August 1975. Leaves and rhizomes of J. roemerianus and leaves of Spartina alterniflora were sampled from three marsh zones; Distichlis spicata leaves were collected only from the high marsh. Changes in nutrient composition in decomposing Juncus and Spartina were followed at three locations within the marsh as well as in a tidal stream.

ERL,GB

Kurz, H. 1942. Florida Dunes and Scrub, Vegetation and Geology. Tallahassee, FL: Florida Dept. of Conservation, State Geological Survey. 154 p. (Geol. Bull. 23)

Contents: 1.--Dunes; 2.--East Coast Barrier-Islands and Lagoons; 3.--East Coast Dunes; 4.--Northwest Gulf Coast Dunes; 5.--Dune Patterns as Determined by Plants; 6.--Dune Migration; 7.--Soil Reactions; 8.--Recognition of Plants.

Kurz, H., and R.K. Godfrey. 1962. Trees of Northern Florida. Gainesville, FL: University of Florida Press. 311 p.

The trees included in this book are those kinds which are native to northern Florida and those which have been introduced into cultivation and have become established as wild.

Kurz, H., and K. Wagner. 1957. Tidal Marshes of the Gulf and Atlantic Coasts of Northern Florida and Charleston, South Carolina: Geology, Elevations, Soil Factors, Water Relations, Plant Zonation and Succession. Tallahassee, FL: Florida State University. 168 p. (FSU Studies 24)

Localities include a number of stations selected along the Gulf of Northern Florida from Pensacola to St. Marks...the major attack, however, was in the Apalachee and St. Josephs Bay marshes.

Kwon, H.J. 1969. Barrier Islands of the Northern Gulf of Mexico Coast: Sediment Source and Development. Baton Rouge, LA: Louisiana State University Press. 51 p.

Examines major sources of sediment supply and the transportation patterns of barrier-forming sand, along with results of oceanographic investigations in the Gulf of Mexico.

Lago, P.K., and S.C. Harris. 1983. New Species of Trichoptera from Florida and Alabama. Ann. Entomol. Soc. Am. 76(4):664-667.

Three new species of Trichoptera, Nyctiophylax morsei (Polycentropodidae), Polycentropus floridensis (Hydropsychidae), are described from 3 stream systems in northwestern Florida and from several areas of the Alabama Coastal Plain.

Lair, M.D. et al. 1972. Waste Source Study and Review of Waste Treatment and Control Practices: Monsanto Chemical Company, Pensacola, Florida. Athens, GA: U.S. Environmental Protection Agency, Surveillance and Analysis Div. 92 p.

This report presents an evaluation of waste treatment and waste control practices at the Monsanto Chemical Company nylon plant at Pensacola, Florida. The objectives of the studies outlined in this report are to: (1) Characterize and quantify all plant wastes discharged by Monsanto into receiving waters; (2) Evaluate and document current waste treatment and control practices; and (3) Propose alternatives to utilize the best available technology for waste treatment.

ERL,GB

Landry, G.C. 1974. Analysis of Certain Aspects of Sea Water Foam. Pensacola, FL: University of West Florida. 62 p. Thesis.

An analysis of paper mill effluent in Perdido and Blackwater bays.

Lanton, T.R., and D.A. Jones (Eds.). 1979. Biological Aspects of Water Quality in Florida, Pt. I: Escambia-Perdido, Choctawhatchee, Apalachicola, Aucilla-Ochlochonee-St. Marks, and Suwannee Drainage Basins. Tallahassee, FL: Florida Dept. of Environmental Regulation. 516 p.

Report on the biota of aquatic ecosystems in northwest Florida, with empahsis on water quality and the general efficacy of pollution abatement programs.

LeFebvre, E.E. 1974. Water Surveillance Program, Eglin AFB, Fla. Kelly AFB, TX: Environmental Health Lab. 28 p. (EHL(K)-74-23)

The present water quality surveillance program at Eglin AFB, FL was evaluated. Although the base has an excellent program, it does not include the entire military reservation. A program for the surveillance of the test areas has been suggested along with recommendations for increase in personnel authorizations to accomplish the task.

Leach, S.D. 1984. Projected Public Supply and Rural (Self-Supplied) Water Use in Florida Through Year 2020. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 108)

This report portrays Florida's past, present, and future freshwater requirements for public supplies and for rural domestic and livestock self-supplied use.

ERL,GB

Leach, S.D. 1982. Consumptive Use of Freshwater in Florida, 1980. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 105)

In Florida, an average of 7,309 million gallons per day (Mgal/d) of freshwater was withdrawn for all uses in 1980. Of this amount, 66 percent (4,831 Mgal/d) was returned for reuse and 2,478 Mgal/d, or about one third, of the water was consumed. The total consumptive use by counties is shown. Also shown is the consumptive use by county for public supply, rural (self-supplied), industrial (self-supplied), irrigation, and thermoelectric power generating plants.

ERL,GB

Levi, E.J. 1973. An Unusual Estuarine Record of Oceanic Squid, Cranchia scabra. Fla. Sci. 36(2-4):196-197.

A live male was collected about a mile inside the Pensacola Bay Entrance.

ERL,GB

Little, E.G., Jr. 1973. Reestablishment of Destroyed Oyster Reefs. Tallahassee, FL: Florida Dept. of Natural Resources. 4 p. (NOAA-74022629)

Samples of oysters taken in the first few days of the open oyster season after September 1, 1971, indicated that between 70 and 99% of all oysters along the east bank of Escambia Bay perished from the oyster parasitic fungus disease Labyrinthomyxa marina. The areas destroyed by the kill in 1971 constituted more than 60% of the total natural approved acreage used prior to the 1971-72 oyster season. The Department of Natural Resources has successfully carried on and supervised oyster reef planting and rehabilitation projects for many years. Constructed reefs are planted in the form of a natural reef. Planted reefs are constructed in mounds with the tops just emergent at very low tides. A series of gaps are made in the new reefs to further increase oyster production by allowing a free flow of food-bearing water between the reefs to nourish the oysters. Reefs planted by the Department have been found to be permanent, economically feasible and justified.

ERL,GB

Little, E.J., and J.A. Quick, Jr. 1976. Ecology, Resource Rehabilitation, and Fungal Parasitology of Commercial Oysters, Crassostrea virginica (Gmelin), in Pensacola Estuary, Florida. St. Petersburg, FL: Florida Dept. of Natural Resources, Marine Research Lab. 89 p. (Mar. Res. Publ. 21)

Between April 1972 and July 1973, 452 moundlike artificial oyster reefs constructed with 26,000 cubic meters of Rangia cuneata clam shell and/or oyster mudshell were placed on approximately 8.5 hectares (23 acres) at two sites in East Bay and three sites in Escambia Bay to help replenish oyster stocks depleted by poor recent annual recruitment and by a severe epizootic of parasitic fungus Labyrinthomyxa marina, in September 1971. Rehabilitation was preceded by a hydrographic and bathymetric survey characterizing local oyster ecology and identifying bottoms suitable for reef construction.

ERL,GB

Livingston, R.J. 1977. Analysis of the Environmental Implications Associated with the Reopening of the Navarre Pass (Santa Rosa Sound, Santa Rosa County, Florida). Tallahassee, FL: Florida Dept. of Environmental Regulation, Bureau of Environmental Permitting.

Livingston, R.J. 1976. Diurnal and Seasonal Fluctuations of Organisms in a North Florida Estuary. Estuarine Coastal Mar. Sci. 4:373-400.

This study involved an analysis of the efficacy of tepetitive trawling techniques in various types of shallow estuarine areas. Using established sampling techniques, several richness and diversity indices were compared in an analysis of diurnal and seasonal variations of estuarine organisms (fishes and invertebrates) in a shallow bay system.

ERL,GB

Livingston, R.J. et al. 1972. The Effects of Dredging and Eutrophication on Mulat-Mulatto Bayou (Escambia Bay; Pensacola, Florida). Tallahassee, FL: Florida State University. 175 p.

Report on a 1 year study (June, 1971-June, 1972) of the effects of dredging and advanced eutrophication on the Mulat-Mulatto Bayou (Escambia Bay; Pensacola, Florida).

ERL,GB

Lowman, S.W. 1951. The Relationship of the Biotic and Lithic Facies in Recent Gulf Coast Sedimentation. J. Sediment. Petrol. 21(4):233-237.

The structural setting of Gulf of Mexico sedimentation is outlined against a backdrop of Tertiary stratigraphy. Regional biotic and lithic facies are described and examples of typical interrelationships are given. Some possible applications are suggested.

ERL,GB

Lowman, S.W. 1949. Sedimentary Facies in Gulf Coast. Am. Assoc. Pet. Geol. Bull. 33(12):1939-1997.

The biological and lithological aspects of sedimentary facies in the Gulf Coast are reviewed. The principal results of investigations of "fossil" foraminifera in the Recent bottom sediments of the Gulf of Mexico are described. The patterns of distribution of foraminifera may be helpful in outlining a frame of reference for further sedimentary investigations in the Recent. General methods of applying the results of investigations to older rocks are described.

ERL,GB

Ludwick, J.C. 1964. Sediments in Northeastern Gulf of Mexico. In: Papers in Marine Geology. Miller, R.L. New York, NY: The Macmillan Company. 204-238.

The purpose of this paper is to describe and interpret the distribution pattern of modern surficial sediment deposits on the continental shelf and in nearshore areas in a previously little-studied area in the northeastern Gulf of Mexico.

ERL,GB

Madsen, G.C., and C.S. Nielsen. 1950. Check List of the Algae of Northern Florida II. Q. J. Fla. Acad. Sci. 13(1-4):3-21.

The collections for the present report were made from January 1, 1949, to April 1, 1949, in seventeen northern counties and comprised a list of 117 species.

ERL,GB

Mahadevan, S. et al. 1984. A Review and Annotated Bibliography of Benthic Studies in the Coastal and Estuarine Areas of Florida. Gainesville, FL: Florida Sea Grant Program. 576 p. (SGR-66)

Intended to provide scientists and resource managers a readily accessible document for obtaining background information on the benthos of Florida's estuarine and coastal environs. Except for studies on freshwater benthos, it includes all available literature on the benthos (and its environment) through the year 1982.

ERL,GB

Maloney, F.E., and R.C. Ausness. 1974. The Use and Legal Significance of the Mean High Water Line In Coastal Boundary Mapping. North Carolina Law Rev. 53(2):185-273.

Examines a number of physical and legal problems associated with coastal boundary determinations and offers some solutions within the framework of the legislative proposal which accompanies this discussion.

Maloney, F.E., B.D.E. Canter, and R.G. Hamann. 1980. Legal Aspects of Recreational Marina Siting in Florida. Gainesville, FL: Florida Sea Grant Program. 52 p. (Rept. 36)

This report has two major purposes. First, it is designed to inform pubilc and private planners and decision-makers of the major environmental regulatory controls to which a marina construction project in Florida is subject. Second, is to make available a compilation of criteria that can be used to assess the merits of recreational marina proposals and to facilitate planning for meeting marina facility demands in a municipality, a county, a region or the entire state

ERL,GB

Mansell, R.S. et al. 1977. Fertilizer and Pesticide Movement from Citrus Groves in Florida Flatwood Soils. Athens, GA: U.S. Environmental Protection Agency, Environmental Research Lab. 133 p. (EPA-600/2-77-277)

This study was conducted to investigate the influence of applied fertilizers and pesticides upon the water quality of surface and subsurface drainage. Various soil management practices, particularly tillage systems, were evaluated as controls for losses of fertilizer and pesticide from the rapidly expanding citrus groves of southern Florida. If guidelines furnished here are followed, citrus grove managers can make more efficient, cost-effective use of fertilizers and herbicides and, at the same time, reduce the contribution of this non-point source of pollution to our waterways.

ERL,GB

Mansfield, W.C. 1932. Miocene Pelecypods of the Choctawhatchee Formation of Florida. Tallahassee, FL: Florida Geological Survey. 240 p. (Geol. Bull. 8)

This report is a continuation of a study of the molluscan fauna of the Miocene Choctawhatchee formation of Florida. The discovery of new fossil beds in the Alaqua Creek Valley has afforded more substantial evidence of the close faunal relationship of the Shoal River formation to the succeeding Choctawhatchee formation and has established a more complete sequence of deposits in the Alaqua Creek Valley and in the area to the east.

Marks, H., and G.B. Riggs. 1975. Rivers of Florida. Atlanta, GA: Southern Press. 53 p.

Includes notes on the Apalachicola and the Choctawhatchee.

Marmer, H.A. 1942. Tide at Pensacola. Proc. U.S. Naval Inst. 68:1427-1431.

On the unusual characteristics of tides in Pensacola waters.

Marsh, O.T. 1967. Evidence for Deep Salt Deposits in Western Florida Panhandle. Am. Assoc. Pet. Geol. Bull. 51(2):212-222.

Salt domes derived from the Louann Salt of Jurassic(?) age are abundant in the Gulf coastal plain and are found from Texas to Alabama. The economic importance of these domes is attested by the many oil fields that tap the structural traps produced by the domes. Many persons have speculated that salt underlies western Florida, but, to the writer's knowledge, no one has assembled the evidence. The purpose of this paper is to bring together the evidence which indicates that salt deposits also may be present beneath the western Florida Panhandle. Although salt has not yet been reached by drilling in Florida--probably because of its great depth and possible discontinuous distribution--the evidence for its presence is highly suggestive. Admittedly, the interpretation of some of the evidence cited is speculative.

ERL,GB

Marsh, O.T. 1966. Geology of Escambia and Santa Rosa Counties, Western Florida Panhandle. Tallahassee, FL: Florida Geological Survey. 140 p. (Geol. Bull. 46)

Results of a detailed study of the water resources of Escambia and Santa Rosa counties, Florida which produced a large amount of new geologic data. Includes a description of the area's stratigraphy, structure and economic geology.

ERL,GB

Marsh, O.T. 1962. Relation of Bucatunna Clay Member (Byram Formation, Oligocene) to Geology and Ground Water of Westernmost Florida. Geol. Soc. Am. Bull. 73:243-252.

The Bucatunna dips southwest about 30 feet per mile and thickens from a featheredge 8 miles east of the Okaloosa-Walton County line, Florida, to a maximum of 215 feet near Pensacola. In the Florida panhandle the Bucatunna rests unconformably upon limestones of late Eocene age and is overlain conformably by limestones of late Oligocene age. The Bucatunna Clay Member is a hydrologically important aquiclude below which ground water is under artesian pressure. In places the clay prevents the salt water below from rising and contaminating the fresh water above. In the northern half of the area the Bucatunna is probably underlain by several hundred feet of fresh water which as yet is virtually untapped by wells. Rapid settlement and industrialization of the area suggest that this supply of fresh water may become important; for to the south, the Bucatunna is underlain only by salt water.

ERL,GB

Marshall, A.R. 1958. A Survey of the Snook Fishery of Florida, with Studies of the Biology of the Principal Species, Centropomus undecimalis (Bloch). Miami, FL: Florida State Board of Conservation. 39 p. (Tech. Series 22)

ERL,GB

Martens, J.H. 1928. Sand and Gravel Deposits of Florida. In: Florida Geol. Survey, 19th Ann. Rept. Tallahassee, FL: Florida Geological Survey. 33-123.

This investigation was undertaken for the purpose of making available information regarding the location, geological occurrence, and quality of the sand and gravel deposits of the State.

Martens, J.H.C. 1931. Beaches of Florida. In: Florida Geol. Survey, 21st-22nd Ann. Repts. Tallahassee, FL: Florida Geological Survey. 67-119.

ERL,GB

Martin, D.F., M.T. Doig, III, and R.H. Pierce, Jr. 1971. Distribution of Naturally Occurring Chelators (Humic Acids) and Selected Trace Metals in Some West Coast Florida Streams, 1968--1969. St. Petersburg, FL: Florida Dept. of Natural Resources, Marine Research Lab. 52 p.

Surface water samples collected over a twelve-month period in 1968-1969 were analyzed for humic acid and trace metal constituents to determine the association of one or more of these parameters with outbreaks of the red tide organism G. breve.

Matson, G.C., and S. Sanford. 1913. Geology and Ground Waters of Florida. Washington, DC: U.S. Geological Survey. 445 p.

The present report contains data derived from many sources. The authors have carefully studied the earlier literature and have compared the different views presented, which are here summarized.

Mattraw, H.C., Jr., and B.J. Franks. 1986. Movement and Fate of Creosote Waste in Ground Water, Pensacola, Florida: U.S. Geological Survey Toxic Waste-Ground-Water Contamination Program. Alexandria, VA: U.S. Geological Survey. 63 p.

Ground- and surface-water contamination by pesticides used in the wood-preserving industry is widespread in the United States. Pine poles were treated with wood preservatives from 1902 to 1981 at a creosote works near Pensacola, Florida. Diesel fuel, creosote, and pentachlorophenol were discharged to two unlined impoundments that had a direct hydraulic connection to the sand-and-gravel aquifer. Evidence of wood-preserving waste contamination appears to be confined to the upper 30 meters of the aquifer. The waste plume extends downgradient approximately 300 meters south toward Pensacola Bay. In 1983, the creosote works site was selected by the U.S. Geological Survey's Office of Hazardous Waste Hydrology as a national research demonstration area to apply the latest techniques for characterizing hazardous waste problems. The multidisciplinary research effort is aimed at studying processes that affect the occurrence, transport, transformations, and fate of the toxic contaminants associated with wood preservatives in the environment.

ERL,GB

McAfee, R.O. 1984. Pensacola Bay Water Quality Monitoring Program Review and Assessment: June 30, 1983 to July 1, 1984. Pensacola, FL: Escambia County Utilities Authority. 98 p.

This twelve month study was conducted to determine the potential environmental effects of treated effluent from the ECUA's Main Street WWTP into Pensacola Bay. The major emphasis was placed on nutrient concentrations, namely total nitrogen and total phosphorous, and the biological information for chlorophyll production and phytoplankton counts. These parameters plus various physical measurements, oxygen concentrations, water temperatures, tidal information, salinity and pH were gathered to determine not only the present effects on the Bay but the limiting factors for future plant effluent guidelines.

ERL,GB

McAfee, R.O. 1979. City of Pensacola Monitoring Report on Pensacola Bay. Pensacola, FL: Escambia County Utilities Authority. (Unpublished)

McCoy, E.D., and J.R. Rey. 1981. Patterns of Abundance, Distribution and Alary Polymorphism Among the Salt Marsh Delphacidae homoptera Fulgoroidae of Northwest Florida. Ecol. Entomol. 6(3):285-292.

The species of Delphacidae captured in nearly 16,000 sweeps of salt marsh vegetation in northwest Florida are examined. Individuals belonging to 14 spp. were captured during the 15 mo. study, a larger number than is found in most locations. Abundances ranged from 1-1064 individuals/species. The abundances, habitat preferences and patterns in wing-polymorphism among the species collected were similar to those reported previously from other locations, but important differences were found which reflect the vegetational composition typical of the study area.

McGee, DeWitt & Associates. 1965. General Development Plan.

Prepared for Santa Rosa Island Authority, Pensacola Beach, Florida. Contents include: v. 1, pt. 1--Resources survey and analysis; v. 1, pt. 2--Development potential study; v. 2, pt. 3--The general development plan.

McMurry, J.H. 1958. Shoretype Classification of the Gulf Coast of Florida. Pap. Mich. Acad. Sci. Arts Lett. XLIII:259-266.

The major objectives of the project were the delineation and classification of the study area into its component parts, and, in addition, the origination and development of methods and techniques which might be usefully employed in coastal research of this type elsewhere.

ERL,GB

McNeil, C.R. 1974. The Red Snapper Industry in Pensacola, 1845-1965: An Historical Perspective. Pensacola, FL: University of West Florida. 67 p. Thesis.

McNulty, J.K., W.N. Lindall, Jr., and J.E. Sykes. 1972. Cooperative Gulf of Mexico Estuarine Inventory and Study, Florida: Phase I, Area Description. Seattle, WA: U.S. National Marine Fisheries Service.

Newly-developed tables and maps depict the dimensions, submerged vegetation, tidal marshes, mangrove swamps, commercial oyster beds, leased oyster-rearing areas, sources of pollution, drained tidal marshes, and filled areas of Florida's west coast estuaries. Published and unpublished information on temperature, salinity, geology, artificial fishing reefs, stream discharge, human population, commercial fishing, and economic development is presented in new form.

Menzel, R.W. et al. 1976. Clam Mariculture in Northwest Florida: Observations on Selection and Hybridization. Proc. Natl. Shellfish. Assoc. 66:103.

Menzel, R.W. et al. 1974. Clam Mariculture in Northwest Florida: Field Study on Predation. Proc. Natl. Shellfish. Assoc. 65:59-62.

Small hatchery reared Mercenaria clams (20,000) were planted for a period of 9 mo. in a predation experiment at 2 field locations in NW Florida. At each location four 4.5 m2 plots were established; in each plot 2500 clams were planted. Before planting the clams, 1 plot was prepared with a substrate of pea gravel and one with crushed oyster shell at each location. Two plots at each location received no substrate additive and served as controls. One control plot at each location was covered with a wire cage to exclude predators. Survival was over 50% in the wire covered control plots; less than 1% in the unprotected control plots; slightly more than 2% in the plots with shell and 10% in the plots with gravel. In this area of Florida gravel and crushed shell added to the substrate do not ensure satisfactory survival of small clams.

Merritt, M.L. 1984. Digital Simulation of the Regional Effects of Subsurface Injection of Liquid Waste Near Pensacola, Florida. Tallahassee, FL: U.S. Geological Survey. 73 p.

This report documents the methodology used and significant results achieved in (1) the generalized simulation of the regional flow system; (2) the simulation of observed water-level changes; and (3) incorporation of transport calculations into the regional flow model.

ERL,GB

Mettee, M.F. 1977. A Study on the Distribution of Etheostoma okaloosae, the Okaloosa Darter, and Etheostoma edwini, the Brown Darter, in Northwest Florida. J. Ala. Acad. Sci. 48(3):65.

Miller, R.E. 1972. Normal Fatty Acids in Estuarine and Tidal-Marsh Sediments of Choctawhatchee and Apalachee Bays, Northwest Florida. In: U.S. Geological Survey Prof. Paper 724-5. Washington, DC: U.S. Govt. Print. Off. 13 p.

Mitchell, D.K. 1969. River Survey, Pensacola Plant: Characteristics and Effects of Salinity Intrusion in the Escambia River. Pensacola, FL: Monsanto Textiles Division, Waste and Water Services Group, Technical Services Section. 25 p.

This is a report of a river survey conducted from May through August, 1968, which characterizes the movement of the salt tongue in the lower Escambia River, and establishes as a natural phenomenon the low dissolved oxygen levels present in the river during periods of high salt concentration.

ERL,GB

Moe, M.A. 1970. Florida's Fishing Grounds. St. Petersburg, FL: Great Outdoors Publishing Company. 80 p.

Moe, M.A., Jr. 1963. A Survey of Offshore Fishing in Florida. St. Petersburg, FL: Florida State Board of Conservation, Marine Lab. 117 p.

This generalized survey of offshore fishing in Florida ia presented to provide valuable background information for future research and to report the present development of the offshore fisheries of each coastal community.

ERL,GB

Moore, D.R. 1963. Distribution of the Sea Grass, Thalassia, in the United States. Bull. Mar. Sci. Gulf Caribb. 13(2):329-342.

The distribution of Thalassia testudinum in the United States is found to depend on a number of ecological factors. Limiting factors are temperature, depth of water, tubidity, salinity and wave action. Gaps in distribution of Thalassia are due to one or more unfavorable conditions, such as the greatly increased turbidity and lowered salinity along the Louisiana coast. Thalassia beds are considered to be of great importance to shallow water animal populations, and commercially important species derive both food and shelter from grassy areas.

ERL,GB

Moore, J.C. 1953. Distribution of Marine Mammals to Florida Waters. Am. Midl. Nat. 49(1):117-158.

A list of species presently known for Florida waters, and also a key for identification of these forms.

Morgan, W.H. 1962. The Seacoast of Northwest Florida: A Geographic Appraisal. Gainesville, FL: University of Florida. 185 p. Dissertation.

This study provides a geographic background for recommeded control, disposition and use of the upland, tidal and submerged land along the seacoast of northwest Florida. Emphasis is placed on land tenure and land use.

Morrow, J.E. 1972. Economic Impact of Striped Bass Stocking in Four Counties Located in Northwest Florida. Atlanta, GA: Georgia State University, Environmental Research Group. 37 p.

An annual progress report, 1971/72, of a study conducted in Choctawhatchee Bay.

Moshiri, G.A. 1978. Certain Mechanisms Affecting Water Column-to-Sediment Phosphate Exchange in a Bayou Estuary. J. Water Pollut. Control Fed. 50(2):392-394.

Prior studies by Hannah, et al., on Bayou Texar, a mesotrophic bayou estuary in northwest Florida, have produced preliminary evidence to indicate that the low but somewhat constant water column phosphorus concentrations evidenced in this system are caused by the existence of an equilibrium between dissolved and adsorbed phosphates. Evidence indicates that inorganic phosphate that is adsorbed by sediment particles is released into the water column during periods of inorganic phosphate depletion by algae. Although such an exchange does occur in aerobic systems, the rate is much slower than in anaerobic conditions. It was suggested by Hannah, et al., that reducing conditions might permit the release of substantial amounts of adsorbed inorganic phosphate into the water column. The present study was undertaken to determine the effect of reducing conditions on the release of inorganic phosphate from the sediment-water interface in Bayou Texar.

ERL,GB

Moshiri, G.A. et al. 1981. Biological Impact of Four Alternatives of the University of West Florida's Santa Rosa Island Property. 124 p.

Includes an environmental inventory of the University of West Florida's Santa Rosa Island property plus appendices. The baseline study of the tract recommends that it be preserved in its natural state.

Moshiri, G.A. et al. 1978. Water-Column and Benthic Invertebrate and Plant Associations as Affected by the Physico-Chemical Aspects in a Mesotrophic Bayou Estuary, Pensacola, Florida. Gainesville, FL: University of Florida, Water Resources Research Center. 160 p. (Res. Ctr. Publ. 41)

Water column samples were collected every two weeks over a one-year period from three stations in mesotrophic Bayou Texar, Pensacola, Florida. The samples were analyzed for -NO3, -NH3, -PO4, and total organic carbon against a background of physical parameters. Phytoplankton and zooplankton populations present during the study period were identified and enumerated. Benthic core samples were collected to assess the macroinvertebrate populations; however, analysis indicated a paucity of organisms in general. Data was subjected to appropriate statistical analysis to indicate possible relationships among aspects studied. Negative correlations appeared between salinity and nitrates, between ammonia and dissolved oxygen (at some stations), between Brachionus plicatilus and dissolved oxygen, and between Cryptophytes and dissolved oxygen. Positive correlations were indicated between total organic carbon and ammonia, between Brachionus and Cryptophytes, and between Brachionus and Oithona colcarva.

ERL,GB

Moshiri, G.A. et al. 1976. Interrelationships Between Certain Microorganisms and Some Aspects of Sediment-Water Nutrient Exchange in Two Bayou Estuaries, Phases I and II. Gainesville, FL: University of Florida, Water Resources Research Center. 45 p. (Res. Ctr. Publ. 37)

Over a two-year period, certain aspects of nutrient exchange and regeneration were studied as related to major physical, chemical, and microbial parameters in two bayou estuaries. Sediment to water phosphate exchange was found to be affected by dissolved oxygen concentrations in both systems, but Eh effects of oxygen depletion on sediment to water phosphate exchange kinetics differs in the two bayous. Sediment Eh profiles were observed to follow a temporal pattern perhaps related to the bacterial activity. Glucose concentrations and uptake were monitored as related to possible sources and utilizers respectively.

Moshiri, G.A. et al. 1974. Determination of a Nitrogen-Phosphorus Budget for Bayou Texar, Pensacola, Florida. Gainesville, FL: University of Florida, Water Resources Research Center. 86 p. (Res. Ctr. Publ. 29)

The extent of nitrogen and phosphorus inputs and their effects on algal productivity in Bayou Texar, Pensacola, Escambia County, Florida, has been under investigation since June, 1971. To date results indicate that there are numerous sources of nutrients into the Bayou, of which Carpenter's Creek and storm water runoff are the major contributors. Other sources are runoff from fertilizers applied to lawns, overflow of inadequate sewer lines, and to a much lesser extent, from sources such as rainwater and encroaching Pensacola Bay waters. Ecologically, the Bayou is approaching eutrophication as is evidenced by highly fluctuating oxygen and primary productivity patterns well correlated with algal cell numbers and distribution. Recommendations made for the improvement of water quality in the Bayou include 1) Improvement of circulation by the construction of a new channel, 2) Improvement of storm water and sewage facilities, 3) Improvements in the Carpenter's Creek channel to alleviate erosion, and 4) Selected dredging in areas of heavy siltation in the Bayou in order to improve flushing and circulation.

Moshiri, G.A., N.G. Aumen, and W.G. Swann, III. 1980. Water Quality Studies in Santa Rosa Sound, Pensacola, Florida. Gulf Breeze, FL: U.S. Environmental Protection Agency, Environmental Research Lab. 71 p.

Water samples were colleced from six stations in Santa Rosa Sound and Little Sabine Bay, Florida, every two weeks between October, 1977, and June, 1979. The samples, taken at the surface, mid-depth, and bottom of each station, were analyzed for temperature, salinity, pH, transparency, inorganic carbon, 5-day biochemical oxygen demand, dissolved oxygen, orthophosphate, poly-phosphate, ammonia, nitrate, and non-volatile grease and oil; bacteria were enumerated; phytoplankton were identified and enumerated; and the water column primary productivity was measured. Although there were seasonal changes, there were few intra or inter station differences on each sampling day. However, Little Sabine Bay exhibited lower water transparency, higher BOD, higher rates of primary production, higher concentrations of non-volatile grease and oil, and larger numbers of bacteria and phytoplankton than Santa Rosa Sound.

ERL,GB

Moshiri, G.A., and W.G. Crumpton. 1978. Some Aspects of Redox Trends in the Bottom Muds of a Mesotrophic Bayou Estuary. Hydrobiologia 57(2):155-158.

The bacterial assays were taken from Bayou Texar.

Moshiri, G.A., W.G. Crumpton, and N.G. Aumen. 1979. Dissolved Glucose in a Bayou Estuary, Possible Sources and Utilization by Bacteria. Hydrobiologia 62(1):71-74.

Surface and bottom samples were collected twice a month over a period of one year from three stations in Bayou Texar, Pensacola, Florida. Samples were analyzed for primary productivity, inorganic carbon, bacterioplankton heterotrophic productivity, dissolved glucose, and bacterial numbers. Dissolved glucose concentrations were generally high and displayed a seasonal pattern with variations be accompanied by corresponding changes in rates of glucose uptake by bacteria. A relationship between dissolved glucose and carbon fixation was found to exist at the upper station but diminishes toward the lower stations. It is believed that this is most likely the result of increased mixing by wind action.

ERL,GB

Moshiri, G.A., W.G. Crumpton, and D.A. Blaylock. 1978. Algal Metabolites and Fish Kills in a Bayou Estuary: An Alternative Explanation to the Low Dissolved Oxygen Controversy. J. Water Pollut. Control Fed. 50(8):2043-2046.

ERL,GB

Mueller, T.M. 1977. A Comparison Between the Summer Algal Communities Inhabiting Offshore Platforms on the Louisiana and Northwestern Florida Nearshore Continental Shelves. Fla. Sci. 40(1):9.

ERL,GB

Murdock, J.F. 1955. An Evaluation of Pollution Conditions in the Lower Escambia River. Coral Gables, FL: University of Miami, Marine Lab. 7 p.

A report of investigations, September, 1955, into the pollution problem that exists in the Escambia River area and the conditions that were observed. Includes anecdotes based on interviews with fish camp owners and fishermen along the river.

ERL,GB

Murrill, W.A. 1945. A Guide to Florida Plants. Gainesville, FL: Rose Printing Company. 89 p.

This booklet is intended as a guide and help to teachers, students, tourists and those who simply make a hobby of some branch of nature-study.

Musgrove, R.H. et al. 1966. Water Resources Records of Escambia and Santa Rosa Counties, Florida. Tallahassee, FL: U.S. Geological Survey. 106 p. (Info. Circ. 50)

In 1958, the U.S. Geological Survey in cooperation with the Florida Geological Survey began a 4-year comprehensive investigation of the surface-water and ground-water resources of the area and the possible effect that municipal and industrial expansion would have on these resources. The information collected during the investigation will serve two major purposes: (1) it will provide an inventory of the water in the area; and (2) it will provide a sound basis for planning development and use of the water resources of the area. The data contained herein consist of a complete compilation of records collected during the 4-year study. Included are records of streamflow, chemical analyses, temperature, and specific conductance records of surface water, chemical analyses of ground water, well descriptions, and records of ground-water levels.

ERL,GB

Musgrove, R.H., J.T. Barraclough, and R.G. Grantham. 1965. The Pensacola Area's Water. Tallahassee, FL: Florida Geological Survey. 11 p. (Leaflet 3)

ERL,GB

Musgrove, R.H., J.T. Barraclough, and R.G. Grantham. 1965. Water Resources of Escambia and Santa Rosa Counties, Florida. Tallahassee, FL: Florida Geological Survey. 102 p. (Rept. of Inv. 40)

Results of a 4-year study to determine the quantity and quality of Escambia and Santa Rosa counties' ground and surface water and the possible effect of municipal and industrial expansion on the water.

Musgrove, R.H., J.T. Barraclough, and O.T. Marsh. 1961. Interim Report on the Water Resources of Escambia and Santa Rosa Counties, Florida. Tallahassee, FL: Florida Geological Survey. 89 p. (Info. Circ. 30)

The purpose of this report is to make available, to community and industrial planners, information collected prior to 1960 on the quantity and quality of water in the area and on certain characteristics such as fluctuations in supplies because of uneven distribution of rainfall. It contains a brief discussion of climate, a geologic description of the area, information on streamflow and streamflow characteristics, principles of the occurrence and movement of ground water, properties of the ground-water aquifers, and chemical characteristics of the area's water resources. It discusses present use of water, some existing problems associated with water, and potential water supplies of the area.

Nahhas, F.M., and E.C. Powell. 1971. Digenetic Trematodes of Marine Fishes from the Floridian Northern Gulf of Mexico. Tulane Stud. Zool. Bot. 17(1):1-9.

Seventy-three fishes representing 50 species from the Northern Gulf of Mexico in Florida were examined for digenetic trematodes. Thirty-two species harbored 27 Digenea. Two new species are described: the hemiurid Ectenurus yamagutii from Caranx crysos, C. hippos, and Lagodon rhomboides, and the lepocreadiid Lepocreadium sogandaresi from Eupomacentrus leucostictus. Monascus filiformis Looss, 1907, known previously from the Mediterranean and reported for the first time from North American waters, is described and figured.

ERL,GB

Nakamura, E.L. 1976. Recreational Fisheries for Snappers and Groupers in the Gulf of Mexico. In: Proceedings: Colloquium on Snapper-Grouper Fishery Resources of the Western Central Atlantic Ocean. Bullis, H.R., Jr., and A.C. Jones (Eds.). Gainesville, FL: Florida Sea Grant Program. 77-85.

The recreational fisheries for snappers and groupers in the Gulf of Mexico is principally a boat fishery in oceanic waters. Catches by recreational anglers appear to be substantially greater than those by commercial fishermen. Statistics on catch and effort exist, but their use is limited due to small sample sizes, long intervals between surveys, and lack of specific identification of the species. The need for more refined and intensive surveys of the recreational fisheries for snappers and groupers is evident.

Nakamura, E.L., and L.R. Rivas. 1972. Big Game Fishing in the Northeastern Gulf of Mexico During 1971. Panama City, FL: U.S. National Marine Fisheries Service. 37 p.

The objectives of the Big Game Fish Program of the Panama City Laboratory are: (1) To determine the distribution and abundance of big game fishes; (2) To determine the relation between their occurrence and environmental factors; (3) And to determine the biology of these fishes.

Nakamura, E.L., J.R. Taylor, and I.K. Workman. 1980. The Occurrence of Life Stages of Some Recreational Marine Fishes in Estuaries of the Gulf of Mexico. Panama City, FL: U.S. National Marine Fisheries Service. 53 p. (NMFS-SEFC-45)

We reviewed what was known of the distribution and occurrence of the various life stages of recreational fishes in estuaries along the U.S. coast of the Gulf of Mexico. We examined various publications and tallied, by species and by life stages, those recreational fishes that had been reported in estuaries. The presence of a species in an estuary does not necessarily imply its dependence upon that habitat; it may be an adventitious visitor (McHugh 1967). But, if the life history is not fully known, we may be in error in identifying adventitious visitors. Therefore, we included all of the selected species of recreational fishes in our tally.

ERL,GB

Nelson, R.S., and C.S. Manooch, III. 1982. Growth and Mortality of Red Snappers in the West-Central Atlantic Ocean and Northern Gulf of Mexico. Trans. Am. Fish. Soc. 111:465-475.

This paper examines annual growth, mortality, and age structure in populations of red snapper Lutjanus campechanus from four widely separated geographic areas.

ERL,GB

Nielsen, C.S. 1955. Florida Oscillatoriaceae III. Q. J. Fla. Acad. Sci. 18(2):84-112.

ERL,GB

Nielsen, C.S. 1954. The Multitrichomate Oscillatoriaceae of Florida. Q. J. Fla. Acad. Sci. 17(1/2):25-42,87-104

ERL,GB

Nielsen, C.S. 1954. The Non-Sheathed Oscillatoriaceae of Northern Florida. Hydrobiologia VI(3-4):352-368.

The Oscillatoriaceae are distinguished from other families of the blue-green algae by their filamentous form, and lack of heterocysts and resting cells of any type. The genera Oscillatoria, Spirulina, and Arthrospira which lack sheaths constitute the subject of this paper.

ERL,GB

Nielsen, C.S., and G.C. Madsen. 1956. Florida Scytonemataceae I. Am. Midl. Nat. 55(1):194-198.

Florida collection records and reports for the species Scytonema.

ERL,GB

Nielsen, C.S., and G.C. Madsen. 1956. Florida Scytonemataceae II. Am. Midl. Nat. 56(1):116-125.

Florida collection records and reports for the species Scytonema.

ERL,GB

Nielsen, C.S., and G.C. Madsen. 1948. Check List of the Algae of Northern Florida I. Q. J. Fla. Acad. Sci. 11(2-3):63-66.

The first check list of algae of the northern area of the state of Florida listed 102 species. The collections for the present report were made from July 1, 1948 to December 15, 1948.

ERL,GB

Nimmo, D.R. 1976. Polychlorinated Biphenyls (PCB). In: Hearings Before the Subcommittee on Fisheries and Wildlife Conservation and the Environment of the Committee on Merchant Marine and Fisheries, House of Representatives, 94th Congress. Washington, DC: U.S. Govt. Print. Off. 138-145. (Serial No. 94-24)

ERL,GB

Nimmo, D.R. et al. 1975. Toxicity of Aroclor 1254 and Its Physiological Activity in Several Estuarine Organisms. Arch. Environ. Contam. Toxicol. 3(1):22-39.

The occurrence of high concentrations of a PCB (Aroclor 1254) in the Pensacola estuary prompted field and laboratory studies by the Gulf Breeze Environmental Reesarch Laboratory (EPA). Monitoring of the estuary indicates the chemical is present in all components--particularly in sediments and fishes. Residues appear to be diminishing in sediments. Toxicity tests show estuarine species sensitive at ppb concentration in water, with a ciliate protozoan (Tetrahymena pyriformis W), shrimps (Penaeus duorarum, P. aztecus, and Palaemonetes pugio), and a fish (Fundulus similis), affected at or near 1.0 ppb. Tissue concentrations of Aroclor 1254 similar to those found in natural populations of shrimps from the contaminated estuary were successfully duplicated in laboratory experiments. Shrimps also concentrated the PCB from very low concentrations (0.04 ppb) in the water. Three estuarine species demonstrated pathologic changes at tissue and cellular level after chronic exposure to the chemical. Oysters (Crassostrea virginica) developed abnormal infiltration of leukocytes in the connective tissue, spot (Leiostomus xanthurus) developed fatty changes in their livers, and shrimp (Penaeus duorarum) developed crystalloids in hepatopancreatic nuclei.

ERL,GB

Nimmo, D.R. et al. 1971. Polychlorinated Biphenyl Absorbed from Sediments by Fiddler Crabs and Pink Shrimp. Nature 231(5297):50-52.

Polychlorinated biphenyls (PCBs) are manufactured in the United States, Europe, and Japan and used as plasticizers, flame retardants, insulating and heat exchange fluids and in many other products. Structurally related to DDT, soluble in lipid but relatively insoluble in water, and extremely persistent in the environment, they have been reported in many marine and estuarine organisms. One PCB, 'Aroclor 1254' (Monsanto), was reported in water, sediments, and biota from Escambia Bay, Florida.

ERL,GB

Nimmo, D.R. et al. 1971. Toxicity and Distribution of Aroclor 1254 in the Pink Shrimp Penaeus duorarum. Mar. Biol. 11(3):191-197.

The polychlorinated biphenyl Aroclor 1254 was released in an accidental leakage of heat-exchange fluid from an industrial plant, into the Escambia River, near Pensacola, Florida, USA. This material was carried downstream, and is now found in the fauna of Escambia Bay and its contiguous waters, prime nursery areas for fishes and invertebrates such as penaeid shrimp. The significance of pollution by this chemical was assessed by establishing toxicity levels, determining routes of entry, and investigating its movement and distribution in various tissues of shrimp under controlled conditions in the laboratory. Aroclor 1254 added to the water was toxic to the juvenile pink shrimp Penaeus duorarum at a concentration of 1.0 part per billion within 15 days, but was less toxic to adult pink shrimp. Shrimp obtained the contaminant from water and food and concentrated it to 510.0 parts per million in the hepatopancreas. Aroclor 1254 residue data from shrimp collected in the estuary are included in the study.

ERL,GB

Nimmo, D.R., and L.H. Bahner. 1974. Some Physiological Consequences of Polychlorinated Biphenyl- and Salinity-Stress in Penaeid Shrimp. In: Pollution and Physiology of Marine Organisms. Vernberg, F.J., and W.B. Vernberg (Eds.). New York, NY: Academic Press. pp. 427-443.

ERL,GB

Northwest Florida Development Council. 1973. Natural Resource Inventory and Soils Analysis. 35 p.

Northwest Florida Planning and Advisory Council. 1970. Proposal to EDA: A Demonstration Study of the Striped Bass Program in the Choctawhatchee Bay and River Basin. 21 p.

Northwest Florida Water Management District. 1980. Initial Investigation Toward the Development of a Management Program for Choctawhatchee Bay, Florida. 70 p.

A study of water quality in the Choctawhatchee River basin.

Northwest Florida Water Management District. 1979. Water Resources Management Plan.

Northwest Florida Water Management District. 1978. Evaluation of the Sedimentation and Hydraulic Characteristics of Bayou Texar and Carpenter's Creek, Escambia County, Florida.

Nowlin, W.D., Jr., and H.J. McLellan. 1967. Characterization of the Gulf of Mexico Waters in Winter. J. Mar. Res. 25(1):29-59.

The results of a rapid survey of the Gulf of Mexico in the winter of 1962 are presented. Variations in the characteristics of the water in several core layers are described. Circulation has been examined on the basis of dynamic computations and G.E.K. measurements. In the eastern Gulf, water enters through the Yucatan Strait and leaves through Florida Strait, flowing in an anticyclonic loop that extends well into the Gulf. In the western Gulf, circulation is anticyclonic around an elongated cell oriented NE-SW over the Gulf Basin. Sufficient similarities are seen in data obtained in other years to suggest that this pattern is typical of the circulation in winter. The complexity of the circulation pattern deduced from this survey is considerably less than that of patterns presented by others.

ERL,GB

O'Connell, D.W. 1984. Growth Management in Florida: Will State and Local Governments Get Their Acts Together. Fla. Environ. Urban Issues 9(3):1-5.

The ELMS II report and recommendations include unfinished business from ELMS I and fine tuning of Florida's growth management system. As exective director of ELMS I, the author provides a historical perspective of and insight into the complex issues covered in the ELMS II report.

ERL,GB

Oesterling, M.J. 1976. Reproduction, Growth, and Migration of Blue Crabs Along Florida's Gulf Coast. Gainesville, FL: Florida Sea Grant Program. 19 p. (SUSF-SG-76-003)

The blue crab population along Florida's Gulf coast appears to behave contrary to previous studies in regards to their migratory habits. Instead of the classic description of an onshore/offshore pattern, an onshore/along-shore type movement was described, where, following mating, female blue crabs leave the mating estuary and move towards specific spawning areas.

ERL,GB

Olinger, L.W. 1975. Environmental and Recovery Studies of Escambia Bay and the Pensacola Bay System, Florida. Atlanta, GA: U.S. Environmental Protection Agency, Surveillance and Analysis Div. 438 p. (EPA-904/9-76-016)

The studies represented in this report indicate that an environmentally damaged estuary can improve rapidly when wastewater discharges are reduced. The effort expended to abate pollution appears worthwhile, and the additional pollution abatement efforts recommended in the report are necessary for continued recovery of the system. The Escambia Bay Recovery Study was initiated as a result of concern over the degraded condition of Escambia Bay. The success of the Study was due to the cooperation of conservation and sportsmens groups, academic institutions, industries, government agencies, and concerned citizens. The studies indicated that environmental protection is not an impossible goal.

ERL,GB

Olsen, R.G., J.M. Lentz, and J.D. Brown. 1980. The Water Quality of Brush Creek in Escambia County, Florida. Pensacola, FL: Bream Fishermen Association. 19 p. (Spec. Rept. 80-1)

This report describes a dangerous pollution problem in Escambia County, Florida. The data indicate the water quality of Brushy Creek to be very poor to the point of being a public menace. It is hoped that this report will be the catalyst to cause those governing agencies responsible for the public safety and water quality to take effective action to remove the pollutants from the waters of Brushy Creek and restore its value as a significant and beautiful natural resource of Escambia County, Florida.

ERL,GB

Osborn, K.W., B.W. Maghan, and S.B. Drummond. 1969. Gulf of Mexico Shrimp Atlas. Washington, DC: U.S. Govt. Print. Off. 20 p. (Circular 312)

This atlas portrays the distribution and relative catches of brown, white and pink shrimp in the U.S. offshore commercial fishery. It also gives summaries of catch and effort of the U.S. commercial fleet and the results of 15 years of exploratory shrimp fishing in the Gulf of Mexico by the Bureau of Commercial Fisheries and its predecessor, the Fish and Wildlife Service.

ERL,GB

Otvos, E.G. 1982. Santa Rosa Island Florida Panhandle: Origins of a Composite Barrier Island. Southeast. Geol. 23(1):15-24.

Outcalt, K.W., and R.H. Brendemuehl. 1984. Sand Pine, Pinus clausa, Survival and Growth on Prepared and Unprepared Sites. South. J. Appl. For. 8(2):96-99.

Sand pine seedlings were planted on sites prepared by double chopping and on unprepared sites in scrub oak stands in the northwest Florida sandhills. Although survival was lower on unprepared areas, plantations of both Ocala (P. clausa var. clausa Ward) and Choctawhatchee sand pine (P. clausa var. immuginata Ward) still had acceptable stocking on unprepared sites at age 10. Thus, both varieties can be successfully established by underplanting among scrub hardwoods. Chopping, however, increased height, diameter and volume growth. Total stem volume per acre was 3-4 times greater on chopped sites, and this difference continues to increase. Therefore, chopping prior to planting sand pine on these areas should be economically advantageous.

Overman, A., and T. Schanze. 1984. Overland Flow Treatment of Municipal Wastewater in Florida. Gainseville, FL: Florida University, Dept. of Agricultural Engineering. (EPA/600/2-84/163)

Overland flow has been demonstrated as a feasible method of treating municipal wastewater in most climates throughout the United States. However, optimum design criteria for year round operation in warm humid climates have not been completed. Treatment performance of four overland flow plots sodded with native turf grasses were evaluated using both primary and secondary municipal wastewater in northwestern Florida. The prime objective of this study was to optimize loading of both effluents to exceed secondary wastewater discharge standards during year round operation. The project was successful and has been used as a pilot scale study for development of a number of other full scale overland flow systems in Florida.

Palacas, J.G., A.H. Love, and P.M. Gerrild. 1972. Hydrocarbons in Estuarine Sediments of Choctawhatchee Bay, Florida, and Their Implications for Genesis of Petroleum. Am. Assoc. Pet. Geol. Bull. 56(8):1402-1418.

Results of this study and related studies show that recent sands contain bituminous substances, including hydrocarbons, in geologically significant amounts. The inference is drawn that, if the bitumen disseminated in large volumes of interconnected sands is converted, even in part, to crude oil and concentrated in pools, the sands themselves may contribute substantial amounts of the petroleum crude oil in sandstone reservoirs.

ERL,GB

Parker, N.M. 1968. A Sedimentologic Study of Perdido Bay and Adjacent Offshore Environments. Tallahassee, FL: Florida State University. 57 p. Thesis.

This investigation of the estuary-bay complex and adjacent continental shelf defines and maps the textural and mineralogical characteristics of the sediments in order to delineate their interrelationships and aerial distributions.

Parks, W.J., and O.J. Semmes, Jr. 1969. Report on Sanitary Sewerage Facilities, 1969 through 1980. 62 p.

Pascale, C.A. 1976. Construction and Testing of Two Waste-Injection Monitor Wells in Northwest Florida. Tallahassee, FL: U.S. Geological Survey, Water Resources Div. 42 p.

Two test wells were constructed by the U.S. Geological Survey into an injection zone at sites 35 kilometres east and 27 kilometres northeast of an active injection system to monitor the injection zone and to provide additional data for evaluating the regional effects of deep-well waste injection. Test wells 1 and 2 are cased to a depth of 372 metres and 300 metres below land surface and are completed open hole in limestone to 457 metres and 393 meters, respectively. Total porosity of the lower limestone was 21 percent at test well 1 and 18 percent at test well 2. Calculated values of transmissivity ranged from 328 to 468 metres squared per day at test well 1 and from 21.6 to 48.2 metres squared per day at test well 2. All major chemical constituents of water in the lower limestone of the Florida aquifer were in greater concentrations in test well 1.

ERL,GB

Pascale, C.A. 1975. Estimated Yield of Fresh-Water Wells in Florida. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 70)

Pascale, C.A. 1975. Hydrogeologic Data Collected During the Construction of a Deep Waste-Injection System, Santa Rosa County, Florida. Tallahassee, FL: U.S. Geological Survey.

Pascale, C.A. 1974. Water Resources of Walton County, Florida. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. 65 p. (Rept. of Inv. 76)

This report evaluates the water resources of the county and provides information that will aid in the development and use of ground and surface water for current and future needs. It also provides information concerning the potential for salt-water encroachment of the Floridan aquifer.

Pascale, C.A., C.F. Essig, Jr., and R.R. Herring. 1972. Records of Hydrologic Data, Walton County, Florida. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. 103 p. (Info. Circ. 78)

This report presents discharge, chemical analyses, temperatures, and specific conductance records collected at 25 surface-water sites and chemical analyses of ground water, well descriptions and records of ground-water levels collected at 164 ground-water sites. It also contains 35 logs of the sedimentary rocks penetrated in the drilling of wells and test borings ranging in depth from 147 to 625 feet.

ERL,GB

Pascale, C.A., and J.B. Martin. 1978. Hydrologic Monitoring of a Deep-Well Waste-Injection System near Pensacola, Florida, March 1970-March 1977. Tallahassee, FL: U.S. Geological Survey. 61 p.

This report presents the hydraulic and chemical data collected through a monitoring program conducted by the U.S. Geological Survey at a industrial liquid-waste injection site 13 mi north of Pensacola in Escambia County. The injection system is also briefly described.

Pascale, C.A., and J.B. Martin. 1977. Hydrologic Monitoring of a Waste-Injection Well near Milton, Florida, June 1975 - December 1976. Tallahassee, FL: U.S. Geological Survey. 46 p.

This report presents the hydraulic and chemical data collected from June 1, 1975 to December 31, 1976 through a monitoring program at a deep-well waste-injection system at the American Cyanamid Company's plant near Milton, Florida. The injection system is also briefly described. The data are presented in graphs and tables and include injection rates, volumes and pressures, water-level data at three monitor wells and a standby injection well, and field and laboratory analyses of water samples from the four wells.

Pastula, E.J. 1967. Ecology and Distribution of Recent Foraminifera of Choctawhatchee Bay, Florida. Tallahassee, FL: Florida State University. 104 p. Thesis.

An analysis of sediments collected June, 1965.

Patrick, R. et al. 1953. Stream Survey of the Lower Escambia River, Florida. Philadelphia, PA: Academy of Natural Sciences of Philadelphia. 165 p.

ERL,GB

Patterson Associates, Inc. 1970. Feasibility of Expanding the Water System and Constructing a Sewage System at Destin, Florida.

Patterson Associates, Inc. 1969. Engineering Feasibility of a Water System for the Berrydale Water System, Inc., Santa Rosa County, Florida.

Patterson Associates, Inc. 1966. Engineering Feasibility of a Water System for the Perdido Bay Utilities, Inc., Escambia County, Florida.

Patterson, Russell G. and Associates. 1961. Feasibility of Phase I of Proposed Development of Navarre Beach, Santa Rosa County, Florida.

Report dated July, 1961 on the proposed development of four miles of Santa Rosa Island...made possible by the recent completion of a bridge and causeway from the mainland at Navarre.

Patterson, Russell G. and Associates. 1957. Engineers Report: Proposed Development of Santa Rosa Island near Navarre, Santa Rosa County, Florida.

Letter of submission, dated September 1, 1957.

Patton, J.J. 1951. Beach Erosion at Perdido Pass. Shore and Beach 19(2):10-11.

ERL,GB

Pensacola City Planning Dept. 1981. City of Pensacola: Escambia Bay Bluffs and Shoreline Land Use Plan. 84 p.

Pensacola-Escambia County Regional Planning Council. 1965. Land Use Survey of the City of Pensacola and Escambia County, Florida. 30 p.

A general land use survey with analyzed statistical data on different types of land uses in Escambia County, Florida.

Pequegnat, W.E. 1966. Biofouling Studies Off Panama City, Florida. I. College Station, TX: Texas A & M University, Dept. of Oceanography. 33 p. (A&M Project 286-1)

This report on biofouling is based upon a part of the data derived to date from a comprehensive study of the accumulation of marine organisms upon plastic floats introduced into the northeastern Gulf of Mexico offshore from Panama City, Florida. The principal objectives of this study are 1) to anticipate the nature of the biofouling organisms likely to settle upon various types of underwater sensors, 2) to observe differences in the accumulations that result from such changes in the conditions of exposure as distance from shore, depth, duration, season, and the presence or absence of a specified antifoulant, and 3) to attempt to account for observed differences and to suggest ways by which a condition of minimal accumulation may be achieved.

Pequegnat, W.E. et al. 1983. The Ecological Communities of the Continental Slope and Adjacent Regimes of the Northern Gulf of Mexico: Text, Photographic Atlas, and Appendices. Metairie, LA: U.S. Minerals Management Service. 398 p.

This report deals in part with the macrofaunal assemblages that exist in that part of the offshelf Gulf of Mexico that lies north of the 25th parallel and west of the eastern wall of DeSoto Canyon. The study was based on 264 oceanographic stations occupied by R/V ALAMINOS in depths ranging from 150 to 3850 m. The report contains three substantial appendices. Appendix A is an atlas of bottom photographs selected to depict some of the biological constituents, physiography and surficial sediments of the five faunal zones. Appendix B contains a list of the species taken at the oceanographic stations and relates them to the related Lease Block. Appendix C presents an annotated bibliography of publications dealing with the oceanography of the Gulf of Mexico.

Pequegnat, W.E., R.S. Gaille, and L.H. Pequegnat. 1967. Biofouling Studies off Panama City, Florida. II. The Two Mile Offshore Station. College Station, TX: Texas A & M University, Dept. of Oceanography. 47 p. (A&M Project 286-6)

This report is based on a more extensive study of fouling involving three stations located in the Gulf of Mexico some 2, 11, and 25 miles offshore from Panama City, Florida. A previous report concentrated on results obtained from the 25-mile station. The 2-mile station is emphasized at this time.

Pequegnat, W.E., and L.H. Pequegnat. 1968. Ecological Aspects of Marine Fouling in the Northeastern Gulf of Mexico. College Station, TX: Texas A & M University, Dept. of Oceanography. 80 p. (A&M Project 286-6)

During the two-year period from May 1964 through May 1966 a biological fouling study was conducted in the northeastern Gulf of Mexico at three locations offshore from Panama City, Florida, involving periodic installation and removal of plastic peanut floats at varying depths and time intervals. This report is a summation of the two-year fouling study incorporating data from the 11-mile offshore station with that from the other two stations previously reported on.

Plumb, J.A. et al. 1974. Streptococcus sp. from Marine Fishes Along the Alabama and Northwest Florida Coast of the Gulf of Mexico. Trans. Am. Fish. Soc. 103(2):358-361.

Fish kills in estuarine bays along the Florida and Alabama Gulf Coast were investigated in August and September 1972. Eight species of moribund fish were examined. A nonhemolytic, group B, type I(b) Streptococcus sp. was isolated from over 90% of the fish examined. Parasites and toxicants were eliminated as possible causes of the kills.

ERL,GB

Price, D.J. 1975. Apparent Growth of Gulf Beach, Extreme West Florida. Trans. Gulf Coast Assoc. Geol. Soc. 25:369-371.

A study of the annual growth of Gulf Beach (Perdido Key) over a 108-year period due to sand deposited by Gulf currents.

Pride, R.W. 1973. Estimated Use of Water in Florida, 1970. Tallahassee, FL: U.S. Geological Survey. 31 p. (Info. Circ. 83)

Water-use data for this report are presented by principal use and by source for each of the 67 counties in Florida and by Water Resources Council subregions or parts of subregions in Florida.

Pride, R.W. 1970. Estimated Water Use in Florida, 1965. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 36)

This map shows the estimated water withdrawn in Florida in 1965 by counties by the major categories of public supply, self-supplied industrial, irrigation, and thermoelectric power generation.

Pride, R.W. 1958. Floods in Florida: Magnitude and Frequency. Tallahassee, FL: Florida Geological Survey. 136 p.

This report has been prepared to present a comprehensive summary of past floods in Florida and, from the pattern of recurrence of these floods, to develop an effective means of estimating the expectancy of floods in the future. Such information is a basic requirement in the proper design and location of structures placed in, across, or adjacent to flood plains.

Provenzano, A.J., Jr. 1959. The Shallow-Water Hermit Crabs of Florida. Bull. Mar. Sci. Gulf Caribb. 9(4):349-420.

Twenty-three spp of pagurid crabs from the tidal and immediately subtidal waters of Florida, including one new sp., Pagurus miamensis, are described, illustrated and discussed and keys are presented for their determination. Pagurus floridanus (Benedict) is synonymous with Pagurus pollicaris Say. Both Pagurus pollicaris and Pagurus longicarpus have disjunct ranges, southern Florida separating what are probably subspecific populations of each. Paguristes anomalus Bouvier, Pagurus pygmaeus (Bouvier), and Pagurus brevidactylus (Stimpson) are reported for the first time from Florida and the U.S.

ERL,GB

Provost, M.W. 1973. Mean High Water Mark and Use of Tidelands in Florida. Fla. Sci. 36(1):50-66.

An analysis of ocean tide patterns is used to explain the difficulties in determining the mean high water mark in Florida. Seasonal oscillations of the sea are so related to tide intervals that a submergence periodicity on the tidelands is created which is unique to the state. The high marsh remains dry during one part of the year and is almost continuously tide-flooded during the other. Important differences between Atlantic and Gulf coasts are demonstrated. The high marsh, located between mean neap high and mean spring high tide levels, occupies more of the tidelands in Florida than the low marsh. For the protection of tidelands it is recommended that they be delineated by their vegetation until more tidal bench marks are available.

ERL,GB

Puri, H.S. 1953. Contribution to the Study of the Miocene of the Florida Panhandle. Tallahassee, FL: Florida Geological Survey. 345 p. (Geol. Bull. 36)

The present study embraces Okaloosa, Walton, Holmes, Washington, Bay, Jackson, Calhoun, Gulf, Liberty, Franklin, Gadsden, Leon, and Wakulla counties. Samples from 58 outcrops, 20 auger holes and two water wells were studied. Stratigraphic sections and faunas of the Miocene of the Florida panhandle indicate the presence of a number of lithofacies and biofacies, which are a measure of recurrence of similar conditions and are reflected in both the lithology and fauna. Similar depositional types of equivalent age are considered as stages while the dissimilar components within the stages are designated as facies. Three stages are recognized, Tampa, Alum Bluff and Choctawhatchee.

Puri, H.S., and N.C. Hulings. 1957. Recent Ostracode Facies from Panama City to Florida Bay Area. Trans. Gulf Coast Assoc. Geol. Soc. VII:167-190.

The present study of the Recent ostracodes from the Panama City area to the Florida Bay area was undertaken in 1950, primarily to determine the environmental relationships of ostracodes.

ERL,GB

Puri, H.S., and R.O. Vernon. 1959. Summary of the Geology of Florida and a Guidebook to the Classic Exposures. Tallahassee, FL: Florida Geological Survey. 312 p. (Spec. Publ. 5)

Quick, J.A., Jr. 1972. Lethal Pathogen, Labyrinthomyxa marina, and other Causes of the Escambia Bay, Florida, Oyster Mortality of September, 1971 (Abstract). Q. J. Fla. Acad. Sci. 35(Sup.):12.

An oyster kill (Crassostrea virginica Gmelin) was reported on the commercial reefs in Escambia Bay, Florida, on September 7, 1971, and an immediate investigation was launched by the Florida Department of Natural Resources Marine Research Laboratory. Mortalities had been rapid, extensive, and severe with 100% oyster loss in most areas and most deaths occurring in three days. The direct cause was an epizootic of the pathogenic fungus, Labyrinthomyxa marina Mackin and Ray, but several other factors indirectly contributed to the kill, particularly the poor water quality of this industrially polluted bay system. Shell aging showed the commercial harvest to consist almost entirely of the second and third year classes indicating at least three years would be required for natural recovery. Extensive oyster relaying operations are underway to shorten this recovery period.

ERL,GB

Quick, J.A., Jr. 1971. Causes of the Escambia Bay Oyster Epizootic of September 1971. St. Petersburg, FL: Florida Dept. of Natural Resources, Marine Research Lab. 8 p.

Quick, J.A., Jr., and J.G. Mackin. 1971. Oyster Parasitism by Labyrinthomyxa marina in Florida. St. Petersburg, FL: Florida Dept. of Natural Resources, Marine Research Lab. 55 p.

The fungal oyster parasite, Labyrinthomyxa marine, was found to occur along the Gulf and Atlantic coasts of florida. It was found concomitantly with the host throughout the year and at salinities from 6% to 36%. High temperature was implicated as the most important factor contributing to high rates of parasitism. Field studies indicated that L. marina kills an average of over 50% of Florida's adult oysters yearly. Sampling and observation of the intermittent oyster epizootics caused by this fungus showed that mortalities could be very rapid and intense. Oyster mortality estimation methods were evaluated and one technique was developed for measuring animal death rates and another for estimating high, short-term oyster kills. An oyster-growing program is proposed for use in central Florida to obtain the most oyster meats of highest quality in the shortest time with the smallest effective mortality.

ERL,GB

Rackleff, R.B. 1972. Close to Crisis: Florida's Environmental Problems. Tallahassee, FL: New Issues Press. 158 p.

Includes notes on the pollution of Escambia Bay, the voting records on environmental issues of West Florida legislators and Congressional representatives, and notes of industrial sources of pollutants.

Radcliff Materials Corp., Inc. 1967. Shell Survey Maps of East Bay and Escambia Bay.

Rey, J.R. 1981. Ecological Bio-Geography of Arthropods on Spartina alterniflora Islands in Northwest Florida. Ecol. Monogr. 51(2):237-265.

ERL,GB

Rey, J.R., and E.D. McCoy. 1983. Terrestrial Arthropods of Northwest Florida Salt Marshes: Araneae and Pseudoscorpiones Arachnida. Fla. Entomol. 66(4):497-503.

A description of the arachnid species inhabiting various vegetational zones in northwest Florida salt marshes is presented. Data on qualitative abundance, habitat preference and seasonality are given for each of 47 spp. collected during the 15 mo. study. Sergiolus ocellatus (Walck.) (Gnaphosidae) is reported from Florida for the 1st time and the collection of Misumenops bellulus (Banks) (Thomisidae) is a northernmost record for the state. A new unnamed genus and species of pseudoscorpion is also reported.

Rhode, C., Jr. 1985. A Growth Study of Perdido Key, Florida. 59 p. (Unpublished)

This paper examines the what, why, and how of development on a coastal barrier using Perdido Key as an example. The Key was an ideal subject for study in that development did not occur until fairly recently, and when it did it was phenomenol. Also, the most powerful hurricane of the 20th century to affect the local coastal area occurred five years ago. Federal policies and planning regarding development and growth on coastal barriers are radically different from those of ten years ago. And the State of Florida is thinking about the once radical idea of controlled growth on its coastline. What is the local effect of changes at the federal and state levels of government?

ERL,GB

Ribelin, B.W., and A.W. Collier. 1979. Ecological Considerations of Detrital Aggregates in the Salt Marsh. In: Ecological Processes in Coastal and Marine Systems. Livingston, R.J. (Ed.). New York, NY: Plenum Press. 47-68.

Previously accepted concepts that stress the role of the decomposers in the production of detritus in tidal marshes are examined.

ERL,GB

Ritchie, T.P. 1961. Preliminary Report on the Hydrography and Oyster Growing Conditions in the Choctawhatchee Bay, July 11-13, 1961. Tallahassee, FL: Florida State Board of Conservation. 5 p. (Rept. OD-61-1)

Rivas, L.R. 1970. The Red Grouper of the Gulf of Mexico. Commer. Fish. Rev. 32(10):24-30.

Examines geographical and depth distribution, seasonal abundance and migration, temperature of occurrence and habitat for the red grouper (Epinephelus morio).

ERL,GB

Rivas, L.R. 1949. Check List of the Florida Game and Commercial Marine Fishes. Coral Gables, FL: Florida State Board of Conservation, Marine Lab. 39 p. (Educ. Series 4)

ERL,GB

Robins, C.R. 1958. Checklist of the Game and Commercial Marine Fishes of Florida and the West Indies with a Standardization of Common Names. Miami, FL: Florida State Board of Conservation. 46 p. (Educ. Series 12)

ERL,GB

Rogers, R.G. 1974. Seagrass Revegetation in Escambia Bay, Florida. In: Proceedings of the First Annual Conference on Restoration of Coastal Vegetation in Florida. pp. 21-25.

Rogers, R.G., and F.T. Bisterfield. 1975. Loss of Submerged Vegetation in the Pensacola Bay System, 1949-1974. In: Proceedings of the Second Annual Conference on Restoration of Coastal Vegetation in Florida. Lewis, R.R. (Ed.). pp. 35-51.

Rosenau, J.C. et al. 1977. Springs of Florida. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. 461 p. (Geol. Bull. 31)

The first comprehensive report of Florida's springs was published thirty years ago (Ferguson et al., 1947). Since then, much additional data have been gathered and this report is intended to provide sufficient background information for a lucid understanding of the nature and occurrence of the springs in the State.

Roszak-MacDonnell, D.B., and M.A. Hood. 1982. Distribution and Characterization of Luminous Bacteria from Northwest Florida Coastal Waters. In: Abstracts of the 82nd Annual Meeting of the American Society for Microbiology. Pensacola, FL: University of West Florida.

Rubino, R.G. 1984. Growth Management Initiatives in Florida: From River Ranch to Saddlebrook. Fla. Environ. Urban Issues XI(2):3-5,32.

Notes on two Florida conferences on growth management: the River Ranch Resort Conference held in the fall of 1971 and the Saddlebrook Resort Conference of October 1983.

ERL,GB

Rudloe, J. 1970. Northwest Florida: A Last Frontier. Underwater Nat. 6(4):8-15.

Russell & Axon, Inc. 1975. West Florida Regional Planning Council Solid Waste Management Plan for Escambia, Santa Rosa & Okaloosa Counties. 107 p.

Ryan, R.M. 1973. Engineering Feasibility Study of Sanitary Landfill Operations by the City of Pensacola, Florida. 15 p.

Salmon, M. et al. 1979. Behavioral and Biochemical Evidence for Species Distinctiveness in the Fiddler Crabs Uca speciosa and Uca spinicarpa. Evolution 33(1):182-191.

Salmon, M., and S.P. Atsaides. 1968. Behavioral, Morphological and Ecological Evidence for Two New Species of Fiddler Crabs (Genus Uca) From the Gulf Coast of the United States. Proc. Biol. Soc. Wash. 81:275-290.

The study reported here was carried out in order to examine both Gulf and Atlantic coast populations of U. pugnax in more detail so that their similarities and differences in behavior and morphology could be characterized. Our results indicate that the Atlantic coast populations are distinct from those found along the Gulf coast of the United States.

ERL,GB

Saloman, C.H. 1979. New Records of Caridean Shrimps (Decapoda, Caridea) From the Nearshore Area of Panama City Beach, Florida, U.S.A. Crustaceanna Suppl. 5:147-152.

This report presents part of the results from a survey of benthic invertebrates of the nearshore area of the Gulf of Mexico off Panama City Beach, Florida.

ERL,GB

Saloman, C.H. 1976. The Benthic Fauna and Sediments of the Nearshore Zone off Panama City Beach, Florida. Fort Belvoir, VA: U.S. Army Corps of Engineers, Coastal Engineering Research Center. 256 p. (MR 76-10)

This report provides basic scientific data on the benthic fauna and surface sediments collected during a 12-month period in the nearshore zone of Panama City Beach, Florida, before restoration of the beach, and the results of a study on the effect of Hurricane Eloise on the benthic fauna of the swash zone of Panama City Beach.

Saloman, C.H., and W.A. Fable, Jr. 1981. Length-Frequency Distributions of Recreationally Caught Reef Fishes from Panama City, Florida in 1978 and 1979. Panama City, FL: U.S. National Marine Fisheries Service. 22 p. (NMFS-SEFC-61)

The National Marine Fisheries Service Laboratory in Panama City, Florida has been engaged in life history research on recreationally and commercially important species of fishes from the Gulf of Mexico and southeast coast of the United States since 1977. A unique opportunity to sample fishes caught from charter and headboats was available by cooperating with the staff of Captain Anderson's fish house in Panama City. During 1978 and 1979, numerous lengths were measured of reef species caught within fifty miles of Panama City and landed at the fish house. Gonads, stomachs, and aging structures for other aspects of our research were collected at the same time.

ERL,GB

Saloman, C.H., S.P. Naughton, and J.L. Taylor. 1982. Benthic Community Response to Dredging Borrow Pits, Panama City Beach, Florida. Fort Belvoir, VA: U.S. Army Corps of Engineers, Coastal Engineering Research Center. 138 p. (MR 82-3)

This report gives preconstruction and postconstruction environmental data related to short-term effects of beach nourishment at Panama City Beach, Florida. Areas of study included water quality, sediments, and benthic invertebrates.

Saloman, C.H., S.P. Naughton, and J.L. Taylor. 1982. Benthic Faunal Assemblages of Shallow Water and Seagrass Habitats, St. Andrews Bay, Florida. Washington, DC: U.S. Fish and Wildlife Service. 27 p.

Salsman, G.G., and W.H. Tolbert. 1963. Surface Currents in the Northeastern Gulf of Mexico. Panama City, FL: U.S. Navy Mine Defense Lab. 43 p. (R&D Rept. 209)

In order to understand more fully the circulation of the surface waters of the Gulf of Mexico, the U.S. Navy Mine Defense Laboratory, in conjunction with the Woods Hole Oceanographic Institution, conducted a drift bottle study from a stationary platform located 11 nautical miles offshore at latitude 30 degrees 00.6'N, longitude 85 degrees 54.2'W, close to the 100-foot depth contour. It is the purpose of this report to present the results to date of this continuing study and to assess the major factors contributing to the horizontal transport of surface waters in the northeast Gulf of Mexico.

ERL,GB

Salsman, G.G., W.H. Tolbert, and R.G. Villars. 1966. Sand-Ridge Migration in St. Andrew Bay, Florida. Mar. Geol. 4:11-19.

This report presents the results of an investigation into the nature of a series of remarkably uniform sediment ridges found on the bottom of St. Andrew Bay, Florida.

ERL,GB

Sanders-Justice and Associates, Inc. 1966. Preliminary Engineering Report, Perdido Keys Proposed Water System to Serve Inerarity Point - Paradise Beach Area of Escambia County, Florida.

Schardt, J.D. 1983. 1983 Aquatic Flora of Florida Survey Report. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Aquatic Plant Research and Control. 143 p.

This report documents distributions of the 40 most abundant aquatic plants recorded during 1983 and compares these populations with the 1982 survey results.

Schmidly, D.J. 1981. Marine Mammals of the Southeastern United States Coast and the Gulf of Mexico. Washington, DC: U.S. Fish and Wildlife Service, Office of Biological Services. 163 p. (FWS/OBS-80/41)

Schneider, R.F. 1964. An Ecological Survey of the Escambia River, Florida. Normal, IL: Illinois State University. 108 p. Thesis.

A study of environmental conditions, 1960-1963, to determine the relative importance of natural factors and industrial or domestic pollution on the aquatic invertebrate community.

Schneider, R.F. 1962. Seasonal Succession of Certain Invertebrates in a Northwestern Florida Lake. Q. J. Fla. Acad. Sci. 25:127-141.

Schneider, R.F., C.G. Mauriello, and M.F. Skipper. 1962. Review of the Water Quality of the Escambia River, 1958-1961. Tallahassee, FL: Florida State Board of Health. 24 p.

Schneider, R.F., and M.R. Weldon. 1968. Escambia-Conecuh River Survey, Biological Section, September 28 - October 1, 1968. Athens, GA: U.S. Federal Water Pollution Control Administration, Southeast Water Lab.

A summary of biological data from ten sampling stations along the river.

Schomer, N.S. 1974. Systems Models and Simulations of the Recovery of Escambia Bay. Pensacola, FL: University of West Florida. 91 p. Thesis.

The purpose of this investigation is to develop and simulate system models of Escambia Bay that will be useful in evaluating the potential for recovery of the bay subsequent to the abatement of pollution sources. These models will be used to assess the responses of certain critical variables to alterations in flows from various sources from both within and outside of the study parameter.

ERL,GB

Sellards, E.H., and H. Gunter. 1912. The Underground Water Supply of West-Central and West Florida. In: Florida Geol. Survey, 4th Ann. Rept. Tallahassee, FL: Florida Geological Survey. 81-155.

This paper includes a report on the water supply of sixteen counties lying west of the Suwannee River. The area included in this report lies bordering the Gulf of Mexico from the Perdido to the Suwannee River, and has 500 miles of coast line. Along this coast are a number of excellent harbors among which may be mentioned Pensacola Harbor, Choctawhatchee Bay, St. Andrews Bay, St. Joseph Bay and other smaller harbors.

ERL,GB

Sensabaugh, W.M. 1975. The Beach -- A Natural Protection From the Sea. Gainesville, FL: Florida Sea Grant Program. 5 p. (SUSF-SG-75-002)

ERL,GB

Shabica, S.V., and C.W. Shabica. 1978. Management Strategies Applicable to Off-Road Vehicle Use of Perdido Key, Florida. In: Coping with the Coast: Gaining Access and Reacting to Change. Arlington, VA: The Coastal Society. pp. 67-88.

Shampine, W.J. 1975. Sulfate Concentration in Water from the Upper Part of the Floridan Aquifer in Florida. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 15)

Shampine, W.J. 1965. Hardness of Water from the Upper Part of the Floridan Aquifer in Florida. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 13)

Shaw, J.D. 1975. The Quantitative Distribution of Low Energy Beach Meio Fauna of Northwest Florida. Fla. Sci. 38(1):5.

ERL,GB

Sheridan, J., and L. Tucker. 1978. Sediment Redox Potentials of East Bay, Pensacola, Florida. ASB (Assoc. Southeast. Biol.) Bull. 25(2):77.

ERL,GB

Sheridan, P.F., D.L. Trimm, and B.M. Baker. 1984. Reproduction and Food Habits of 7 Species of Northern Gulf of Mexico Fishes. Contrib. Mar. Sci. 27:175-204.

Sex ratios, length-weight relationships, maturation, fecundity and food habits were determined from 7400 individuals of 7 spp. of inner continental shelf fishes. Samples were taken from trawl catches at depths of 9-91 m between Pensacola Bay, Florida and Brownsville, Texas and from the Campeche Bank, Mexico during Oct. 1980-June 1982.

Shier, D.E. 1964. Marine Bryozoa from Northwest Florida. Bull. Mar. Sci. Gulf Caribb. 14(4):603-662.

Sixty-two species of Bryozoa are described from the northwest coast of Florida. Four species are described as new; nine species were not previously reported from the Gulf of Mexico.

ERL,GB

Shipp, R.L. 1975. Pirates in the Northern Gulf of Mexico. Mar. Aquarist 6(July):16-20.

Notes on two rare species of fish known as Emblemaria piratula, or sailfin blenny, in Gulf waters off Destin, Fla., and Pensacola.

Shuba, P.J. 1981. Pensacola Bay Nutrient Monitoring Study, 15 July 1981 to 13 October 1981. Pensacola, FL: Escambia County Utilities Authority. (Unpublished)

Sierra Club. Northwest Florida Group. 1980. Response to Getty Oil Company's Application to Drill for Oil/Gas in East Bay in Santa Rosa County, Florida. 14 p.

Simmons, A.T. 1972. The Dynamics of Nitrogen and Phosphorus in a Bayou Estuary. Pensacola, FL: University of West Florida. 15 p. Thesis.

An extensive investigation of certain aspects of nitrogen and phosphorus distribution in Bayou Texar, Pensacola, Escambia County, Florida was conducted from March, 1971 to March, 1972. Surface and bottom samples were collected from five stations on the bayou. The forms of nitrogen and phosphorus under study were: nitrate, nitrite, ammonia, organic nitrogen, phosphate, and organic phosphorus. Spatial and temporal variations, as well as variation between surface and bottom concentrations, of these chemical species were investigated. Correlations of nitrogen and phosphorus data with carbon fixation and salinity were noted. Results indicate that Carpenter's Creek, which enters the bayou at its north end is a prime source of all nitrogen forms mentioned above, except for nitrites. The creek phosphorus levels, however, were much lower. Investigations into the role of sediments in the distribution of nutrients in the bayou demonstrated a significant degree of exchange between phosphates dissolved in the water and those adsorped onto sediment particles. The experiments also illustrated the buffering capacity of dissolved phosphate concentration by the bayou silts. Therefore, it is concluded that the phosphate adsorption phenomenon is responsible for the spatially uniform pattern of dissolved phosphates in Bayou Texar.

Skelton, L.W. (Ed.). 1977. Symposium on Coastal Zone Management. Pensacola, FL: University of West Florida. 80 p.

The symposium was divided into four very general discussion topics: (1) Coastal Mobility; (2) Administration of the Coastal Zone; (3) Planning; and (4) Coastal Resource Management.

ERL,GB

Slack, L.J. 1972. Quality of Surface Water of Escambia and Santa Rosa Counties, Florida, 1968-72. Tallahassee, FL: Florida Geological Survey. 24 p.

Sloan, W.H. 1984. Irrigation of Public Use Areas by Land Application of Combined Industrial and Domestic Waste Effluent. J. Water Pollut. Control Fed. 56(5):474-481.

Domestic wastewater and wastes from aircraft rework are treated at a unique plant at the Naval Air Station, Pensacola, Florida. Domestic and industrial wastes are separately collected and conveyed to the plant, pretreated then combined for secondary biological treatment and discharged to Pensacola Bay. A project now under construction will provide tertiary treatment, including land treatment by irrigation of 2 golf courses with a portion of the effluent. The existing golf course sprinkler systems are being modified to use treated effluent instead of potable water. The completed system will meet applicable requirements for land treatment on public use areas. The project will reduce the effluent loading to Pensacola Bay, the cost of golf course irrigation and demand on the potable water supply system.

ERL,GB

Smith and Gillespie Engineers, Inc. 1971. Report on Improvements to Waste-Water Facilities: De Funiak Springs, Florida. 58 p.

Smith, D.B. et al. 1954. Stream Sanitation in Florida. Gainesville, FL: University of Florida, College of Engineering. 149 p. (Engineer. Series 1)

A review of the quality and supply of water in the watersheds of Florida.

Smith, Milo & Associates, Inc. 1972. Pensacola Beach Land Management Plan. Pensacola, FL: Escambia-Santa Rosa Regional Planning Council. 62 p.

The Pensacola Beach Land Management Plan presents strategies for management of the limited land resources of Pensacola Beach. These strategies include proposals for development action and development control. Together they provide a comprehensive program for the implementation of a development scheme which would facilitate the attainment of local and regional development objectives.

Smith, Milo & Associates, Inc. 1972. Shoreline Management Plan for the Escambia - Santa Rosa Region. Pensacola, FL: Escambia-Santa Rosa Regional Planning Council. 57 p.

The Shoreline Management Plan is divided into six basic parts: (1) Environmental Impact of Major Land Use Classes; (2) Analysis of Coastal Environment; (3) Regional Design Analysis; (4) Existing Development Patterns; (5) Shoreline Development Plan; and (6) the Management Program. Combined, these parts make up a comprehensive policy statement and implementation program geared to optimum long-range use of the coastal zone.

Smith, Milo & Associates, Inc. 1971. The Beach, the Bay, and the City: Tourism at the Crossroads. 69 p.

Document includes the following elements: 1. Analysis of tourist market; 2. Examination of existing tourist facilities; 3. Study of tourist behavior and attitudes; 4. Discussion of the future of tourism; and 5. Proposal for major tourist-entertainment-shopping complex.

Smith, Milo & Associates, Inc. 1970. A Regional Development Plan for the Pensacola Metropolitan Region. 83 p.

A plan for the Pensacola region prepared for the Escambia-Santa Rosa Regional Planning Council.

Smith, Milo & Associates, Inc. 1969. Comprehensive Planning Analysis of the Pensacola Metropolitan Area -- Santa Rosa County.

Part III of a comprehensive planning report for the Escambia-Santa Rosa Regional Planning Council.

Smith, Milo & Associates, Inc. 1968. Comprehensive Planning Analysis of the Pensacola Metropolitan Area. 197 p.

This report provides a detailed analysis of such factors as population, existing land use, community facilities, and commercial areas in the Metropolitan Pensacola area.

Smith, R.E. (Ed.). 1974. Proceedings of Marine Environmental Implications of Offshore Drilling in the Eastern Gulf of Mexico, Conference/Workshops, January 31, February 1, 2, 1974. St. Petersburg, FL: State University System of Florida, Inst. of Oceanography. 455 p.

The impending Outer Continental Shelf (OCS) oil exploration and production activities in the eastern Gulf of Mexico have catalized the interest and concern of a significant cross section of individuals and organizations. The conference/workshops were planned and held to properly define by priority the critical research and/or information needs in the subject area, to discuss the development of a scientifically sound and relevant interdisciplinary program and to identify the persons to implement same. The conference/workshop sesseions were attended by 352 persons; participants came from many parts of the United States.

ERL,GB

Smith, T.M. 1955. The Distribution and Breeding of the Chaetognaths of the Northwest Coast of Florida. Tallahassee, FL: Florida State University. 41 p. Thesis.

The present study is an attempt to extend our knowledge of the distribution of chaetognaths along the west coast of Florida and to determine the annual abundance and reproduction of the five species encountered in the inshore waters of the northwest Florida gulf coast.

Spechler, R.M. 1983. Estimated Irrigation Water Use in Florida, 1980. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 106)

Estimates of water use in Florida in 1980 indicate that about 7,309 Mgal/d (million gallons per day) were withdrawn for all purposes, including public supply, rural, industrial, thermoelectric power, and irrigation. The greates use of freshwater was for irrigation, which accounted for 2,997 Mgal/d or 41 percent of the total freshwater used. The amount of water used for irrigation in 1980 was more than eight times the amount of water used for irrigation in 1950. This rapid and continuing growth in irrigation has put increasing demands on available freshwater supplies in much of Florida.

ERL,GB

Speed, D.C. 1973. Coastal Zone Water Quality Monitoring in the Pensacola Area. Anaheim, CA: Interstate Electronics Corp. 80 p. (68-01-0160)

This report was prepared for the U.S. Environmental Protection Agency. It presents the findings of a field case study of the Pensacola, Florida area. Purpose of the study was to determine the extent of, and need for, coastal zone water quality monitoring in the area. The report is a compendium of information including tabulations of organizations engaged in coastal zone water monitoring, their laboratory capabilities, data needs and internal organization. Separate sections are devoted to discussions of socio-economic problems associated with coastal zone water quality and recommendations for design and implementation of a coordinated coastal zone water quality monitoring network. A selected bibliography and list of personnel concerned with coastal zone water quality monitoring in the area is included.

ERL,GB

Springer, S. 1939. Notes on the Sharks of Florida. Proc. Fla. Acad. Sci. 3:9-41.

ERL,GB

Sprinkle, C.L. 1982. Sulfate Concentration in Water from the Upper Permeable Zone of the Tertiary Limestone Aquifer System, Southeastern United States. Atlanta, GA: U.S. Geological Survey.

This map shows the distribution of sulfate ions in water from the upper permeable zone of the limestone aquifer system. The upper permeable zone consists of several formations, primarily the Tampa, Suwannee, Ocala, and Avon Park Limestones.

Sprinkle, C.L. 1982. Total Hardness of Water from the Upper Permeable Zone of the Tertiary Limestone Aquifer System, Southeastern United States. Atlanta, GA: U.S. Geological Survey.

This map shows the distribution of total hardness (as calcium carbonate) of water from the upper permeable zone of the limestone aquifer system. The upper permeable zone consists of several formations, primarily the Tampa, Suwannee, Ocala, and Avon Park Limestones.

Stapor, F. 1973. History and Sand Budgets of the Barrier Island System in the Panama City, Florida, Region. Mar. Geol. 14:277-286.

Examines the history and sand budgets of Shell and Crooked Islands, components of a barrier island system which separate St. Andrew Sound from the Gulf of Mexico.

ERL,GB

Stapor, F.W. 1971. Sediment Budgets on a Compartmented Low-to-Moderate Energy Coast in Northwest Florida. Mar. Geol. 10(2):M1-M7.

Sediment budgets for portions of the Franklin and Gulf County, Florida, coasts have been determined through comparison of old (1860's-1940's) U.S. Hydrographic Office smooth sheets. Rate of erosion and deposition and, significantly, minimum distances of transport were computed. This coast is divided into at least six individual compartments (or longshore drift cells) which most probably experience minimal communication; in each instance erosion and deposition are nearly balanced. This compartmentalization is effected by the low-to-moderate wave energy and the off-shore bathymetry of the region.

ERL,GB

Stapor, F.W., Jr. 1975. Shoreline Changes Between Phillips Inlet and Pensacola Inlet, Northwest Florida Coast. Trans. Gulf Coast Assoc. Geol. Soc. 25:373-378.

Topographic and hydrographic surveys were used to measure erosion and deposition along the northwest Florida Gulf coast between Phillips Inlet and Pensacola Inlet. No significant net shoreline change was measured. Some erosion was noted on Santa Rosa Island.

Stapor, F.W., Jr. 1973. Coastal Sand Budgets and Holocene Beach Ridge Plain Development, Northwest Florida. Tallahassee, FL: Florida State University. 221 p. Dissertation.

State University System of Florida. Inst. of Oceanography. 1973. Escarosa I: An Oceanographic Survey of the Florida Territorial Sea of Escambia and Santa Rosa Counties. 366 p.

An interdisciplinary study of offshore environments, with maps of the distribution of nutrients, trace metals, and pesticides.

Stephens, C.F., and C.H. Oppenheimer. 1972. Silica Contents in the Northwestern Florida Gulf Coast. Contrib. Mar. Sci. 16:99-108.

ERL,GB

Stewart, R.A., and D.S. Gorsline. 1962. Recent Sedimentary History of St. Joseph Bay, Florida. Sedimentology 1(1):256-286.

The history of St. Joseph Bay, on the west coast of Florida, begins with the last rise in sea level about 5,000 years ago. The formation of an extensive cuspate spit has formed a basin which is now in the process of being filled by detrital sands delivered via longshore drift from the eastern Apalachicola River. Prior to or during early stages of spit development, a wedge of fine material was deposited over the old terrace surface from an old distributary of the Apalachicola. Present sedimentation has as yet failed to obscure portions of this older surface within the lagoon. Clean quartz sand and biological carbonates comprise the bulk of the present sediment contribution. The typical East Gulf "kyanite-staurolite" heavy mineral suite is present, as is the kaolinite-montmorillonite-illite clay mineral suite common to this coast. Sediments in this area have an average organic content of about 1.4%. A high organic carbon/organic nitrogen average of 15.4 has resulted from the accumulation of highly carbonaceous plant debris under the restrictive environment of the lagoon.

Stiling, P.D., B.V. Brodbeck, and D.R. Strong. 1982. Foliar Nitrogen and Larval Parasitism as Determinants of Leaf Miner Distribution Patterns on Spartina alterniflora. Ecol. Entomol. 7(4):447-452.

In northwest Florida, Hydrellia valida Loew (Diptera: Ephydridae) frequently mines the leaves of salt marsh cord grass, S. alterniflora. Larvae and pupae are more commonly found in shoreline plants within 3 m of the sea than in inland plants. Shoreline plants contain over twice as much total foliar N as inland plants. In transects from inland to shoreline plants, leafminer density is positively correlated with total leaf N content. Foliar N content was experimentally increased on inland Spartina patches to levels above those of shoreline plants. Leafminer densities of expermental centers remained far below those on control edges. Larval parasitism by Opius sp. (Hymenoptera: Braconidae) and Pteromalus sp. (Hymenoptera: Pteromalidae) reaches over 90%, with parasitism increasing from shoreline to inland plants. Gradients in leafminer densities appear to be caused by differences in parasitoid abundance.

Stiling, P.D., and D.R. Strong. 1982. Egg Density and the Intensity of Parasitism in Prokelisia marginata Homoptera Delphacidae. Ecology 63(6):1630-1635.

ERL,GB

Stiling, P.D., and D.R. Strong. 1981. A Leaf Miner Hydrellia valida Diptera Ephydridae and Its Parasitoids on Spartina alterniflora in Northwest Florida. Fla. Entomol. 64(4):468-471.

The shore fly, H. valida Loew, commonly mines the leaves of salt marsh cord grass, S. alterniflora Loisel, at Oyster Bay, northwest Florida. Its larvae are frequently parasitized by Opius sp. (Hymenoptera: Braconidae), and sometimes by Pteromalus sp. (Hymenoptera: Pteromalidae) and Sympiesis sp. (Hymenoptera: Eulophidae).

Stone, G.W. 1984. Interpretation of Paleo and Modern Coastal Geomorphic Process-Response Systems, Northwest Florida (GINS). Pensacola, FL: University of West Florida. 148 p.

Stone, G.W. 1984. Mathematical Modeling of the Nearshore and Implications for Coastal Management, Northwest Florida. Pensacola, FL: University of West Florida. 182 p. Thesis.

Stone, G.W. 1984. Nearshore Simulation of Shoaling Waves and Their Response to Channel and Jetty Construction at the Proposed Navarre Pass, Santa Rosa County, Florida. Pensacola, FL: University of West Florida. 106 p.

Stone, R.B. 1974. Low Streamflow in Florida--Magnitude and Frequency. Tallahassee, FL: Florida Dept. of Natural Resources, Bureau of Geology. (Map Series 64)

This report is meant to acquaint the reader with the concept of minimum streamflows and their frequency of occurrence. The range of minimum flow to be expected in the state can readily be seen on the map. By using the procedures and references presented, low-flow frequency curves can be constructed for a stream-gaging station. It is also possible to estimate minimum flows at nongaged sites where some discharge measurements have been made. Only gaging stations with 10 years or more of record were used in this report.

ERL,GB

Stout, J.P. 1984. The Ecology of Irregularly Flooded Salt Marshes of the Northeastern Gulf of Mexico: A Community Profile. Washington, DC: U.S. Fish and Wildlife Service. 98 p. (Biol. Rep. 85 (7.1)

The salt marshes of the northeastern Gulf of Mexico are distinguished by irregular flooding, low energy wave and tidal action, and long periods of exposure. The plant community is most often dominated by black needlerush (Juncus roemerianus), the species of focus in this synthesis.

ERL,GB

Stuck, K.C., H.M. Perry, and R.W. Heard. 1979. Records and Range Extensions of Mysidacea from Coastal and Shelf Waters of the Eastern Gulf of Mexico. Gulf Res. Rep. 6(3):239-248.

Records of seventeen species of Mysidacea from the Gulf of Mexico are presented. Bowmaniella portoricensis, Pseudomma sp., Siriella thompsonii and Bathymysis renoculata are recorded from the Gulf for the first time. Range extensions within the Gulf are established for Anchialina typica and Mysidopsis furca. Records of Brasilomysis castroi and Mysidopsis almyra from the Atlantic coast of the United States are reported.

ERL,GB

Subrahmanyam, C.B., and C.L. Coultas. 1980. Studies on the Animal Communities in Two North Florida Salt Marshes. Part III. Seasonal Fluctuations of Fish and Macroinvertebrates. Bull. Mar. Sci. 30(4):790-818.

A study of the fish and macroinvertebrate communities in two pristine north Florida salt marshes was made to determine the causes for temporal changes in species abundance, and to understand relations between the two communities and distribution patterns of species in coastal habitats.

ERL,GB

Subrahmanyam, C.B., and S.H. Drake. 1975. Studies on the Animal Communities in Two North Florida Salt Marshes. Part I. Fish Communities. Bull. Mar. Sci. 25(4):445-465.

A study of the seasonal fluctuations of temperature, salinity, numerical abundance, and biomass of fish in three tidal creeks located in northern Florida provided data for community diversity indices which were used to interpret the temporal changes in the compositions of fish communities.

ERL,GB

Subrahmanyam, C.B., W.L. Kruczynski, and S.H. Drake. 1976. Studies on the Animal Communities in Two North Florida Salt Marshes. Part II. Macroinvertebrate Communities. Bull. Mar. Sci. 26(2):172-195.

Species composition and fluctuations of abundance of macroinvertebrates of two Juncus tidal marshes of north Florida.

ERL,GB

Swanson, V.E., A.H. Love, and I.C. Frost. 1972. Types and Interrelations of Organic Matter and Sediments in the Tidal Marsh Environment, Northeastern Gulf of Mexico. Washington, DC: U.S. Geological Survey. 83 p. (Geol. Bull. 1360)

Swanson, V.E., and J.G. Palacas. 1965. Humate in Coastal Sands of Northwest Florida. Washington, DC: U.S. Govt. Print. Off. 29 p.

Notes on the distribution and probable origin of water-soluble organic material in shallow subsurface sands of the Florida panhandle.

ERL,GB

Tagatz, M.E. 1973. A Larval Tarpon, Megalops atlanticus, from Pensacola, Florida. Copeia 1(1):140-141.

A larval tarpon, Megalops atlanticus, an early Stage II as designated by Wade (1962), was collected in the upper reaches of East Bay, about 45 km from the Pensacola Inlet, Florida on 20 October 1970. It represents the second and most northern record of a larval tarpon from the Gulf of Mexico, and suggests late spawning in the Gulf.

ERL,GB

Tagatz, M.E. et al. 1974. Effects of Ground Applications of Malathion on Salt-Marsh Environments in Northwestern Florida. Mosq. News 34(3):309-315.

Effects of thermal fog [6 wt. oz/acre (420 g/ha)] and ULV aerosol spray [0.64 fl. oz/acre (57 g/ha)] applications of malathion 95 (0,0-dimethyl phosphorodithioate of diethyl mercaptosuccinate) on salt-marsh environments near Pensacola Beach, Florida, were investigated. Studies were conducted on selected plots after each of three treatments using a portable thermal fogger and three ultra low volume (ULV) sprays with a truck-mounted generator. The ULV sprays were typical of usual mosquito-control operations. The foggings were on a small scale and results should be considered as indicative of what may occur under usual conditions.

ERL,GB

Tagatz, M.E., N.R. Gregory, and G.R. Plaia. 1982. Effects of Chlorpyrifos on Field Developed and Laboratory Developed Estuarine Benthic Communities. J. Toxicol. Environ. Health 10(3):411-422.

Macrobenthic animal communities, developed in sand-filled aquaria in the laboratory and in the field, were exposed to various concentrations of the insecticide chlorpyrifos, and effects on community structure were assessed.

ERL,GB

Tagatz, M.E., and E.P.H. Wilkins. 1973. Seasonal Occurrence of Young Gulf Menhaden and Other Fishes in a Northwestern Florida Estuary. Seattle, WA: U.S. National Marine Fisheries Service. 14 p.

Gulf menhaden, Brevoortia patronus, and other species of fishes were collected by plankton net, seine, and surface trawl from Pensacola Bay, East Bay, and East Bay River from December 1969 to October 1971. Relative abundance, distribution, and relative growth of menhaden are given from the time they enter the estuary as larvae in December to the time they emigrate to the Gulf of Mexico as juveniles in September. Eighty-four species of fishes, representing 46 families, were captured. The number and length range of each species by month are presented for the areas from which it was caught. Also included are the salinity and temperature ranges at capture. Four species were not previously recorded from Pensacola estuaries.

ERL,GB

Tanner, W.F. 1964. Nearly-Ideal Drift System along the Florida Panhandle Coast. Z. Geomorphol. 8(3):334-342.

Notes on the sand ridges between Panama City and Pensacola and the probable forces involved in their development.

ERL,GB

Tanner, W.F. 1960. Florida Coastal Classification. Trans. Gulf Coast Assoc. Geol. Soc. 10:259-266.

A shoreline classification, based on the equilibrium concept, is developed in detail. It is shown that the basis equilibrium notion can be supplemented, to good advantage, by the observation that down-shore (i.e., littoral) changes in energy level or drift rates are important in shaping the coast. Other factors which are used in constructing the classification are tectonic stability, sea level stability, material present, and non-marine agencies involved.

ERL,GB

Terrebonne, R.P. 1973. Economic Losses from Water Pollution in the Pensacola Area. Naturalist 46(Oct):21-26.

Terrebonne, R.P. 1973. The Cost of Water Pollution to the Pensacola Area. Tallahassee, FL: Florida State University. 165 p. Thesis.

A study of the decline of water quality in the Pensacola area and its economic impact on fishing, tourism, recreation, and property values.

Tisdale, W.E. 1969. Report of Investigations Into Pollution of Pensacola Area Waters. Jacksonville, FL: Florida State Board of Health, Bureau of Sanitary Engineering.

A study of the physical, chemical and biological characteristics of Escambia River, Escambia Bay, Pensacola Bay, Bayou Chico, Perdido Bay, and adjacent bodies of water.

Tolbert, W., and G.B. Austin. 1956. Oceanographic Data Collected Off Panama City, Florida During Period April 1955 - December 1955. Panama City, FL: U.S. Navy Mine Defense Lab.

Tolbert, W.H., and G.B. Austin. 1959. On the Nearshore Marine Environment of the Gulf of Mexico at Panama City, Florida. Panama City, FL: U.S. Navy Mine Defense Lab. 104 p. (Tech. Paper TP161)

This report is a summary of the oceanography of the nearshore Gulf waters of Panama City, Florida, based upon a three-year accumulation of data.

Tolbert, W.H., and G.G. Salsman. 1964. Surface Circulation of the Eastern Gulf of Mexico As Determined by Drift-Bottle Studies. J. Geophys. Res. 69(2):223-230.

During the 28-month interval from September 1960 through December 1962, drift bottles were released periodically from a stationary platform located 20.4 km offshore from Panama City, Florida. Of the 951 bottles released, 276, or 29 per cent, were recovered. Approximately 67 per cent of the returns have been found along a 350-km section of coastline extending from Cape St. George west to the Florida-Alabama line; 20 per cent of the returns were from the Florida east coast and keys, and 12 per cent were found along the coasts of Alabama, Mississippi, Louisiana, and Texas. Comparison of the drift-bottle data with local wind information indicates that the primary mechanism of surface water transport in the vicinity of the release point is wind-induced currents, which either transport the bottles to local beaches or to regions where permanent or semipermanent currents can displace them to western or southern shores. The results of this study are also compared with other drift-bottle studies conducted in the Gulf of Mexico.

ERL,GB

Toler, L.G. 1966. Fluoride Content of Water From the Floridan Aquifer in Northwestern Florida. Tallahassee, FL: Florida State Board of Conservation, Div. of Geology. (Map Series 23)

Toler, L.G. 1965. Fluoride Content of Water From the Floridan Aquifer of Northwest Florida, 1963. Tallahassee, FL: Florida State Board of Conservation, Div. of Geology. (Map Series 11)

Toler, L.G., and W.J. Shampine. Quality of Water from the Floridan Aquifer of the Econfina Creek Basin Area, Florida. Tallahassee, FL: U.S. Geological Survey.

Topp, R. 1963. The Tagging of Fishes in Florida, 1962 Program. St. Petersburg, FL: Florida State Board of Conservation, Marine Lab. 76 p.

ERL,GB

Trapp, H. 1979. Water in the Pensacola, Florida, Area. Tallahassee, FL: U.S. Geological Survey. 16 p.

ERL,GB

Trapp, H., Jr. 1975. Hydrology of the Sand-and-Gravel Aquifer in Central and Southern Escambia County, Florida: Preliminary Report - November 1973. Tallahassee, FL: U.S. Geological Survey. 64 p.

This report summarizes the third year's findings of a 6-year study of the sand-and-gravel aquifer. The report contains maps showing concentrations of carbon dioxide, nitrate, and iron in water from the aquifer, potentiometric maps, geohydrologic sections, and lithologic and radioactive logs of test holes.

Trapp, H., Jr. 1973. Availability of Ground Water for Public-Water Supply in Central and Southern Escambia County, Florida, Interim Report, July 1972. Tallahassee, FL: U.S. Geological Survey. 100 p.

This investigation is intended to provide information on the quality and quantity of water available from the sand-and-gravel aquifer, the only fresh-water aquifer in central and southern Escambia County, and to delineate those areas favorable for public-supply well sites.

ERL,GB

Trapp, H., Jr. 1972. Availability of Ground Water for Public-Water Supply in the Pensacola Area, Florida. Tallahassee, FL: Florida Geological Survey. 56 p.

This report provides information on the quality and quantity of water available from the sand-and-gravel aquifer, the only fresh water aquifer in the Pensacola area, and to delineate those areas favorable for public-supply well sites. The investigation includes the collection of well data, chemical analyses of water samples, test drilling, readioactivity logging of test holes and other wells, and water level measurements.

Trapp, H., Jr., C.A. Pascale, and J.B. Foster. 1977. Water Resources of Okaloosa County and Adjacent Areas, Florida. Tallahassee, FL: Florida Geological Survey. 83 p.

Okaloosa County, located in the northwest Florida panhandle, depends almost entirely on the Floridan aquifer for water supply, although it also has abundant surface water and ground water in the surficial sand-and-gravel aquifer. Water levels have declined locally more than 90 feet in the upper limestone of the Floridan aquifer. This investigation was initiated to determine the extent of the decline and the potential for future development of local water resources.

Trent, L. et al. 1984. Size, Sex Ratio and Recruitment in Various Fisheries of King Mackerel, Scomberomorus cavalla, in the Southeastern USA. U.S. Natl. Mar. Fish. Serv. Fish. Bull. 81(4):709-722.

Data from over 54,000 king mackerel, S. cavalla, were analyzed to evaluate spatial and temporal variations in size and sex composition in 7 areas of the southeastern USA. Data were obtained from the recreational hook-and-line fishery of coastal states from Texas to North Carolina and from commercial hook-and-line and gill net fishes of south Florida.

ERL,GB

Turner, J.T. 1986. Zooplankton Feeding Ecology: Contents of Fecal Pellets of the Copepod Undinula vulgaris from Continental Shelf Waters of the Gulf of Mexico. Mar. Ecol. 7(1):1-14.

The in situ diet of the copepod Undinula vulgaris was examined by comparing contents of fecal pellets produced on natural food with assemblages of available phytoplankton. Samples were collected in continental shelf waters of the northern Gulf of Mexico. U. vulgaris was an indiscriminant suspension feeder, ingesting a broad size, shape, and taxonomic array of phytoplankters. Contents of fecal pellets generally matched those of available phytoplankton assemblages. The presence within the same fecal pellets of remains of microplankters ranging over two orders of magnitude in longest dimension suggests that feeding is nonselective, and that U. vulgaris may rapidly switch between several modes of feeding.

ERL,GB

Turner, J.T., M.T. Postek, and S.B. Collard. 1979. Infestation of the Estuarine Copepod Acartia tonsa with the Ciliate Epistylis. Trans. Am. Microsc. Soc. 98(1):136-138.

Adult A. tonsa specimens collected in Escambia Bay, Florida in Sept. 1977, were heavily infested with ciliates of the genus Epistylis. Investigation by SEM [scanning electron microscopy] revealed that lesions were produced in the copepod exoskeletons at the sites of attachment of the ciliate stalks. Bacterial colonization near the lesions suggests that the bacteria may utilize dissolved copepod body contents which are lost through the lesions. This may be a factor in the seasonal succession of copepod species in estuaries.

Turner, W.R. 1969. Life History of Menhadens in the Eastern Gulf of Mexico. Trans. Am. Fish. Soc. 98(2):216-224.

Biological material collected with plankton and gill nets during cruises of the R/V George M. Bowers in the eastern Gulf of Mexico indicated that menhadens spawned principally near shore from November through March. Gulf menhaden, the most important commercial species, occurred throughout the study area but its numbers decreased to the east and south.

ERL,GB

U.S. Army. Corps of Engineers. 1985. Reconnaissance Report on Escambia River, Escambia County, Florida. 31 p.

The purpose of this study is to determine whether the Federal project in Escambia Bay and up Escambia River to the head of commercial navigation at about mile 7 should be modified at this time.

ERL,GB

U.S. Army. Corps of Engineers. 1980. Water Resources Study: Pensacola, Tallahassee Metropolitan and Other Urban Areas, Florida.

The study embraced the 16-county area west of the Aucilla River. Contents: v. 1--Escambia-Yellow River basins; v. 2--Choctawhatchee River basin; v. 3--Apalachicola River basin; v. 4--Ochlockonee-St. Marks River basins; v. 5--Apendices.

U.S. Army. Corps of Engineers. 1979. The Ports of Panama City & Pensacola, FL and Pascagoula & Gulfport, MS. 130 p. (Port Series 19)

Includes descriptions of port and harbor conditions and facilities; selected views of waterfront facilities; various tables; and an index of piers, wharves and docks.

U.S. Army. Corps of Engineers. 1977. Northwest Florida Urban Study: Navigation. 6 p.

A public information pamphlet summarizing the significant findings of the Corps of Engineers' Navigation Assessment study.

ERL,GB

U.S. Army. Corps of Engineers. 1977. Northwest Florida Urban Study: Recreation. 6 p.

A public information pamphlet summarizing the significant findings of the Corps of Engineers' Water-Based Recreation Study.

ERL,GB

U.S. Army. Corps of Engineers. 1977. Northwest Florida Urban Study: Water Resources. 6 p.

A public information pamphlet summarizing the significant findings of the Corps of Engineers' Water Resources Inventory of Northwest Florida.

ERL,GB

U.S. Army. Corps of Engineers. 1976. Final Environmental Statement: Escambia River - Escambia Bay, Florida (Maintenance Dredging). 30 p.

U.S. Army. Corps of Engineers. 1976. Panama City Beaches, Florida: Interim Feasibility Report for the Shores of Northwest Florida between Indian Pass and the Alabama State Line.

A report on beach erosion control and hurricane protection in the area.

U.S. Army. Corps of Engineers. 1976. Revised Draft Environmental Statement: Beach Erosion Control and Hurricane Protection, Panama City Beaches, Fla. 84 p.

Includes photographs of damage caused by Hurricane Eloise, September 23, 1975.

U.S. Army. Corps of Engineers. 1975. Final Environmental Impact Statement: East Pass Channel, Okaloosa County, Florida (Maintenance Dredging).

U.S. Army. Corps of Engineers. 1973. Draft Environmental Impact Statement: La Grange Bayou (Maintenance Dredging), Walton County, Florida. 39 p.

U.S. Army. Corps of Engineers. 1973. Escambia River-Escambia Bay, Florida (Maintenance Dredging): Draft Environmental Impact Statement. 39 p. (ELR-73-1863)

The proposal is to maintain channel dimensions of 10x100 feet from the 10 foot contour in Escambia Bay to Escambia River, Mile 7, a total distance of 12.5 miles. Maintenance dredging is normally required about every two years. All spoil will be placed on upland sites. The proposed action will provide capacity of the channel for efficient and safe movement of commercial and recreational navigation. Routine maintenance removes accumulations of sludge and other materials from the channel. Natural production of vegetation and wildlife will be periodically disrupted by the spoil disposal operations.

U.S. Army. Corps of Engineers. 1973. Perdido Pass Channel (Maintenance Dredging), Baldwin County, Alabama: Draft Environmental Impact Statement. 26 p. (ELR-73-1870)

Continuation of routine maintenance dredging of Federally authorized navigation project consists of a 12-foot deep channel (150 feet wide) for about 1300 feet from the Gulf of Mexico into the Pass inlet. From this point, a 9-foot deep and 100-foot wide channel extends for about 2200 feet to the State Highway 182 bridge. At the bridge, the channel branches into two sections, one extending 3400 feet into Terry Cove (9 feet deep and 100 feet wide) and the other about 3200 feet into the southern arm of Perdido Bay at the same depth and width. The proposed action will provide an adequate channel for pleasure and commercial watercraft. This will permit continuing expansion of the local commercial and recreational fishing industry. There will be a loss of benthic organisms and emergent salt marsh vegetation, and a temporary increase in turbidity.

U.S. Army. Corps of Engineers. 1973. Plan of Study: Pensacola and Tallahassee Metropolitan and other Urban Areas, Northwest Florida. 52 p.

A review of water quality, water resource problems, and existing planning efforts in the 16-county region of northwest Florida.

U.S. Army. Corps of Engineers. 1972. Flood Plain Information: Gulf of Mexico--Big Lagoon--Santa Rosa Sound--Pensacola Bay--East Bay--Vicinity of Pensacola--Escambia and Santa Rosa Counties, Florida. 26 p.

This report was prepared because a knowledge of flood potential and flood hazards is important in land use planning and for management decisions concerning flood plain utilization. It includes a history of flooding in Pensacola and identifies those areas that are subject to possible future floods. Special emphasis is given to these floods through maps and photographs. The report does not provide solutions to tidal flood problems; however, it does furnish a suitable basis for the adoption of land use controls to guide flood plain development and thereby prevent intensification of the loss problems.

U.S. Army. Corps of Engineers. 1971. Draft Environmental Statement: Choctawhatchee River and Holmes Creek, Florida.

U.S. Army. Corps of Engineers. 1971. Final Environmental Statement: Panama City Harbor, Florida: Navigation. 51 p.

U.S. Army. Corps of Engineers. 1971. Flood Plain Information: Choctawhatchee Bay, Fort Walton Beach Vicinity, Okaloosa County, Florida.

This report contains information on the most severe known storms and tidal floods that occurred in the study area. The study area extends eastward from Hurlburt Field to Eglin Village and northward from Santa Rosa Sound to north of Garnier Bayou. It provides information on future floods--the Standard Project Tidal Flood and the Intermediate Regional Tidal Flood.

U.S. Army. Corps of Engineers. 1971. Florida, Panama City Harbor, Navigation Increasing Depths in the Existing Federal Project Channel From the Gulf of Mexico Across Lands End Peninsula into St. Andrew Bay. Washington, DC: Council on Environmental Quality. 24 p.

Panama City Harbor, Florida, is located on St. Andrew Bay, an arm of the Gulf of Mexico, about 105 miles east of Pensacola and 230 miles northwest of Tampa. The project modifications include a new depth of 40 feet in the Gulf entrance channel and an extension of the deeper channel both eastward and westward through St. Andrew Bay to serve existing dock facilities at Bay Harbor and Dyers Point. The environmental impacts will include some loss to marine ecosystems, wildlife, and water quality values due to dredge operations; improvement of tidal flushing of St. Andrew Bay; modification of 400 acres of bay bottom; dredge material to present relief from present severe erosion; and modification of 60 acres of land for dredge material disposal. Temporary increase in turbidity of adjacent waters will result from the dredging operations.

U.S. Army. Corps of Engineers. 1971. National Shoreline Study: Regional Inventory for the South Atlantic-Gulf Region, Puerto Rico and the Virgin Islands.

As part of the overall study of the national shorelines, this report will help provide a comprehensive assessment of shore erosion problems from the national viewpoint. It shows the nature and extent of shore erosion; provides conceptual plans for shore protection, accompanied by general order-of-magnitude estimates of cost; and breakdown of the shoreline by type of ownership and use.

U.S. Army. Corps of Engineers. 1971. Special Flood Hazard Information Report: Okaloosa Island Beaches on Santa Rosa Island. 3 p.

U.S. Army. Corps of Engineers. 1970. Flood Plain Information: Destin Coastal Area, Okaloosa County, Florida.

U.S. Army. Corps of Engineers. 1967. East Pass Channel, Florida, from the Gulf of Mexico into Choctawhatchee Bay: General Design Memorandum. 20 p.

On the construction of jetties at the seaward end of the channel.

U.S. Army. Corps of Engineers. 1965. Appraisal Report on Beach Conditions in Florida. 78 p.

The report is an appraisal of beach conditions along the entire State of Florida coastline from the Georgia-Florida line on the Atlantic Ocean to the Alabama-Florida line on the Gulf of Mexico. . . It defines the problem areas, and includes the status of existing Corps of Engineers shore protection projects and studies, and includes the need, cost, and relative priority of future studies for shore protection projects.

U.S. Army. Corps of Engineers. 1964. East Pass Channel from the Gulf of Mexico into Choctawhatchee Bay: Letter from the Secretary of the Army. In: 88th Cong., 2nd Sess., House Doc. 194. 48 p.

A letter from the Chief of Engineers, Department of the Army, Dated March 16, 1964, submitting a report, together with accompanying papers and illustrations, on a review of the report on East Pass Channel from the Gulf of Mexico into Choctawhatchee Bay, Florida, requested by resolutions of the Committees on Public Works, United States Senate and House of Representatives, adopted January 15, 1960 and May 19, 1960.

U.S. Army. Corps of Engineers. 1964. Survey Report on East Pass Channel from the Gulf of Mexico into Choctawhatchee Bay, Florida. In: 88th Cong., 2nd Sess., House Doc. 194. pp. 7-30.

U.S. Army. Corps of Engineers. 1963. Survey Report on Channel from Choctawhatchee Bay at Point Washington, Florida, to the Gulf of Mexico. 18 p.

U.S. Army. Corps of Engineers. 1963. Survey Report on Perdido Pass Channel, Alabama, Gulf of Mexico into Perdido Bay. 18 p.

U.S. Army. Corps of Engineers. 1957. Hurricane Wave Statistics for the Gulf of Mexico. 94 p. (Tech. Memo. 98)

This report contains the results of a statistical hindcast study of the heights and periods of significant waves generated by hurricanes in the Gulf of Mexico in the period 1900 to 1949. Results are presented in a series of polar plots of frequencies of occurrence of waves of given height and period at deep-water (100 fathoms depth) stations at different bearings offshore from five coastal stations.

U.S. Army. Corps of Engineers. 1955. Perdido Pass (Alabama Point), Alabama, Beach Erosion Control Study. In: 84th Cong., 2nd Sess., House Doc. 274. 30 p.

U.S. Army. Corps of Engineers. 1948. Preliminary Examination of Choctawhatchee River and Tributaries for Flood Control and Allied Purposes.

U.S. Army. Corps of Engineers. 1930. Escambia River, Ala. and Fla. In: 71st Cong., 2nd Sess., House Doc. 350, Serial 9257. 34 p.

Report on survey of the Escambia River, Ala. and Fla., with a view to the control of the floods.

U.S. Army. Corps of Engineers. Mobile District. 1979. Draft Detailed Project Report on Beach Erosion Control at Santa Rosa Island, Florida.

A study of erosion on the north shore of Santa Rosa Island near the city of Pensacola Beach, Florida.

U.S. Army. Corps of Engineers. Mobile District. 1975. Flood Plain Information: Blackwater Bay and Escambia Bay, Vicinity of Pensacola, Santa Rosa and Escambia Counties, Florida. 10 p.

U.S. Army. Corps of Engineers. Mobile District. 1975. Flood Plain Information: Perdido and Tributary Bays, Alabama and Florida. 17 p.

U.S. Army. Corps of Engineers. Mobile District. 1975. Floodplain information: Blackwater Bay and Escambia Bay, Vicinity of Pensacola, Santa Rosa and Escambia Counties, Florida. 10 p.

U.S. Army. Corps of Engineers. Mobile District. 1974. Draft Environmental Statement: Blackwater River, Florida (Maintenance Dredging).

U.S. Army. Corps of Engineers. Mobile District. 1971. Survey Report on Blackwater Bay and River and East Bay, Florida. 17 p.

Recommends against the proposed enlargement of East Bay Channel.

U.S. Army. Corps of Engineers. Mobile District. 1970. Survey Report on Escambia River (Big Escambia Creek), Florida and Alabama. 45 p.

Recommends flood control management to be undertaken by local governments.

U.S. Bureau of Commercial Fisheries. 1963. Inventory of Oceanographic Data for the Western North Atlantic Ocean and the Gulf of Mexico. 39 p. (Circular 176)

Oceanographic station data, bathythermograph observations, and sea-surface temperature observations.

ERL,GB

U.S. Bureau of Sport Fisheries and Wildlife. Div. of Fishery Services. 1968. Special Report, Cooperative Environmental Study, Choctawhatchee River System, Walton and Okaloosa Counties. 20 p.

On the experimental introduction of striped bass into Choctawhatchee River.

U.S. Coast Guard. District, 8th. 1973. Final Environmental Impact Statement for Proposed Maintenance Dredging of the Channel from U.S. Coast Guard Santa Rosa Station Moorings to Navigable Waters in Pensacola Bay. 22 p.

U.S. Coast Guard. District, 8th. 1973. Proposed Maintenance Dredging of the Channel from U.S. Coast Guard Santa Rosa Station Mooring to Navigable Watershed in Pensacola Bay: Final Environmental Impact Statement. 23 p. (ELR-73-2010)

The propsed project provides for maintenance dredging of the channel from the moorings at the U.S. Coast Guard Station Santa Rosa to navigable waters in Pensacola Bay, FL. The channel is 12 feet deep by 100 feet wide and about 300 yards long. Redredging of the channel will insure safe operation of Coast Guard boats to carry out search and rescue missions, pollution surveillance and enforcement operations, and aids to navigation maintenance. Disposal of the spoil behind retaining levees along the beach will restore the shoreline to its more original condition. Temporary increase in turbidity near the dredging operations will have minimal effects on the environment.

U.S. Dept. of Defense. Readiness Command. 1977. Final Environmental Impact Statement: Joint Readiness Exercise "Bold Eagle 78". 285 p.

On the exercise at Eglin AFB involving 22,000 troops and 280 aircraft, with a summary of animals, plants, and endangered species on the base.

U.S. Dept. of Housing and Urban Development. 1981. Final Environmental Impact Statement: Bluewater Bay Planned Unit Development, Niceville, FLorida. 224 p.

On a proposed residential subdivision near Rocky Bayou State Park.

U.S. Dept. of the Interior. 1970. Conference in the Matter of Pollution of the Conecuh-Escambia River, Pensacola, FL. 605 p.

U.S. Environmental Protection Agency. 1985. Superfund Record of Decision (EPA Region IV): Whitehouse Waste Oil Pits, Whitehouse, Florida, May 1985. 32 p. (EPA/ROD/R04-85/003)

The Whitehouse Waste Oil Pits site is located near the community of Whitehouse, FL and occupies approximately seven acres of an upland area immediately adjacent to a cypress swamp. Two major east-west highways, U.S. Highway 90 and Interstate 10, are approximately 0.5 miles south of the site. A low-density residential area is located west and northwest of the site, and several miles northwest of the site is the Cecil Field U.S. Naval Air Station. The site itself consists of seven unlined pits, constructed by Allied Petroleum, where waste oil sludge, acid and contaminated waste oil from an oil reclaiming process were disposed. The first pits were constructed in 1958, and by 1968 the company had constructed and filled seven pits with approximately 127,000 cubic yards of waste. Allied Petroleum then went bankrupt. Consequently, the pits were abandoned, and remained an 'open dump' for several years. Recent activities have increased the volume of contaminated material to an estimated 240,000 cubic yards. The selected remedial action includes: construction of a slurry wall around the entire site; recovery and treatment of contaminated ground water; removal of the contaminated ground water; removal of the contaminated sediments from the northeast tributory of McGirts Creek; and capping the entire site.

U.S. Environmental Protection Agency. National Enforcement Investigations Center. 1975. Water Quality Study, St. Andrew Bay, Florida. 96 p. (EPA/330/2-75/003)

Objectives of the joint bacteriological, water quality and remote sensing investigations of the estuarine waters of St. Andrew and East Bays were as follows: (1) Define dispersion characteristics of the discharge of International Paper Company wastewaters from the Bay County Wastewater Treatment Plant (aerated lagoon) and determine the extent to which this discharge is dispersed into the East Bay by tidal action; (2) Assess the chemical and bacteriological quality of the waters overlying shellfish beds in East Bay to determine if violations of water quality standards are occurring; (3) Through correlation of observed wastewater dispersion patterns and bacterial levels, evaluate the contribution of International Paper Company to the observed water quality problems; and (4) Determine the distribution of commercially harvestable shellfish in East Bay and estimate the economic impact of closure of shellfish areas to harvesting.

ERL,GB

U.S. Environmental Protection Agency. Office of Water Planning and Standards. 1977. Estuarine Pollution Control and Assessment: Proceedings of a Conference, Vols. I-III. 753 p. (EPA-440/1-77-007)

This report is designed to provide information that could be used to establish a national program for the prevention, reduction, and elimination of pollution in estuaries. A number of issues are addressed with particular emphasis on (1) data systems, (2) utilization of estuarine resources, and (3) dredging and spoil disposal.

ERL,GB

U.S. Environmental Protection Agency. Region IV. 1984. Draft Environmental Impact Statement for South Escambia and Santa Rosa Counties, Florida. 138 p. (EPA-904/9-84-118)

ERL,GB

U.S. Environmental Protection Agency. Region IV. 1984. Final Environmental Impact Statement for South Escambia and Santa Rosa Counties, Florida. 124 p. (EPA-904/9-84-122)

This EIS addresses the provision of federal funds for the construction of wastewater management facilities in South Escambia and Santa Rosa Counties, Florida. This area is located in northwestern coastal Florida, adjacent to Alabama. Pensacola is the metropolitan center of the study area, which also includes the incorporated area of Gulf Breeze, the Gulf Breeze Peninsula, and two barrier islands: Santa Rosa Island and Perdido Key. Alternatives have been developed and evaluated for this EIS based on the existing sewer service areas in Escambia and Santa Rosa Counties. Projected sewer service areas have also been developed based on projected population densities and proximity to existing service areas.

ERL,GB

U.S. Environmental Protection Agency. Region IV. 1973. Ecosystems Analysis of the Big Cypress Swamp and Estuaries. 455 p. (EPA-904/9-74-002)

ERL,GB

U.S. Environmental Protection Agency. Southeast Water Lab. 1971. Circulation and Benthic Characterization Studies, Escambia Bay, Florida. 51 p.

The effects of pollution on water quality - Escambia River and Bay, Florida were investigated during a period of low Escambia River discharge (1,068 cfs) in September and October, 1969. The tidal circulation and bottom sediment characteristics of the bay were reported. Further circulation and more extensive sediment characterization studies were made in June, 1970, at much higher river flows (59,533 cfs). This report presents these results and compares them with those of the 1969 study. Both studies show that Escambia Bay sediments are highly organic and tidal circulation in Upper Escambia Bay is poor. Because of these conditions, sediment disturbances--such as result from dredging--can cause severe oxygen depletion. Massive fish kills could result.

ERL,GB

U.S. Environmental Protection Agency. Southeast Water Lab. 1971. Container Corporation of America, Brewton Plant, Conecuh-Escambia River Basin Study. 26 p.

Container Corporation of America's (CCA) integrated pulp and paper mill at Brewton, Alabama is in the process of increasing pulping capacity from 900 tons per day to 1050 tons per day. Its waste effluent flows into the Conecuh River and then into the Escambia River. Preceding this expansion is the installation of additional secondary waste treatment facilities. During August 17-28, 1970, prior to activating additional waste treatment units, the Southeast Water Laboratory, Technical Services Division, Federal Water Quality Administration, conducted a 10-day investigation of waste treatment facilities and related stream quality conditions. The report presents the results of this study.

ERL,GB

U.S. Environmental Protection Agency. Southeast Water Lab. 1971. Supplement to Effects of Pollution on Water Quality: Perdido River and Bay, Alabama and Florida. 17 p.

During November 1970, personnel from the Southeast Region, Federal Water Quality Administration (FWQA) conducted a 72-hour survey of waste discharges at the St. Regis Integrated Pulp and Paper Mill at Cantonment, Florida. The mill produces 950 tons per day of pulp, of which approximately 280 tons per day are bleached. Approximately 29 million gallons per day (mgd) of liquid wastes are discharged into Elevenmile Creek which flows into the Perdido River. Recommendations to abate the existing pollution in Perdido River and Bay, for water quality management and a waste abatement program are made.

ERL,GB

U.S. Environmental Protection Agency. Surveillance and Analysis Div. 1973. Effects of Heated Discharges from Gulf Power on the Temperature Regime and Biota of the Lower Escambia River. 71 p.

The report presents temperature studies of the Lower Escambia River. Studies of the invertebrate fauna and flora and in situ fish bioassay studies were conducted during September and October 1972. On July 20, 1972, discharges from the Gulf Power steam electric facility flowing into the Escambia River increased surface water temperature to 93F, 100 yards downstream from the point of discharge (POD). This represented an 11F increase over ambient temperatures recorded upstream from the point of discharge.

ERL,GB

U.S. Environmental Protection Agency. Surveillance and Analysis Div. 1972. Waste Source Study and Review of Waste Treatment and Control Practices: Air Products and Chemicals, Inc., Pensacola, Florida. 67 p.

This report presents an evaluation of waste treatment and waste control practices at the Air Products and Chemicals, Inc. plant located near Pensacola, Florida. The study objectives outlined in this report are to: Characterize and quantify all plant wastes discharged into receiving waters; Evaluate and document current waste treatment and control practices; and Propose alternatives for the best available technology for waste treatment.

ERL,GB

U.S. Environmental Protection Agency. Surveillance and Analysis Div. 1972. Water Quality Comparison Study: Escambia River and Other Northwest Florida Streams. 7 p.

A limited survey was conducted to produce data for use in comparing water quality (including nutrient quality) of the Escambia River with other streams in the Northwest Florida area. Of particular interest were the relative nitrogen, phosphorus and organic concentrations.

ERL,GB

U.S. Environmental Protection Agency. Surveillance and Analysis Div. 1971. Container Corporation of America, Brewton Mill, Conecuh-Escambia River Basin, Study II. 52 p.

The report contains an evaluation of waste treatment at Container Corporation of America's (CCA) Integrated Pulp and Paper Mill located at Brewton, Alabama. The study was designed to determine the volume of carbonaceous waste generated by increased production, evaluate treatement efficiency and qualify any relative changes in water quality in the Conecuh-Escambia River below CCS's discharge.

U.S. Environmental Protection Agency. Water Quality Office. 1972. Conference in the Matter of Pollution of the Interstate Waters of Perdido Bay, Third Session, Gulf Breeze, FL, Jan. 26-27, 1972. 237 p.

U.S. Environmental Protection Agency. Water Quality Office. 1972. Conference in the Matter of Pollution of the Interstate Waters of the Escambia River Basin (Alabama-Florida) and the Intrastate Portions of the Escambia Basin Within the State of Florida, In: Third Session, Gulf Breeze, FL, Jan. 24-26, 1972. 641 p.

U.S. Environmental Protection Agency. Water Quality Office. 1971. Conference in the Matter of Pollution of the Interstate Waters of Escambia River Basin (Alabama-Florida) and the Intrastate Portions of the Escambia Basin and Bay within the State of Florida, In: Second Session, Pensacola, FL, Feb. 23-24, 1971. 358 p.

ERL,GB

U.S. Environmental Protection Agency. Water Quality Office. 1971. Conference in the Matter of Pollution of the Interstate Waters of Perdido Bay and Its Tributaries--Florida and Alabama, Second Session, Pensacola, FL, Feb. 25-26, 1971. 248 p.

U.S. Federal Aviation Administration. 1973. Final Environmental Impact Statement: ADAP Project, Destin, Florida. 45 p.

U.S. Federal Highway Administration. Florida Div. 1973. State Project No. 48006-1501, Federal Aid Project Nos. U.S. 1390(1), and U.S. 1390(2): Construction of Shoreline Parkway from Barrancas Avenue to Pensacola Bay Bridge on U.S. 98, Florida. 67 p. (ELR-0754)

Construction is proposed of Shoreline Parkway from Barrancas Street to Pensacola Bay Bridge on U.S. 98 in Escambia County, Florida. The purpose is to provide a multi-laned, high-capacity facility for the southern belt in the vicinity of the Pensacola central business district. No significant impact in relation to the relocation of people is expected as a result of this proposal. It is estimated that four families and one small business will require relocation.

U.S. Federal Water Pollution Control Administration. 1970. Conference in the Matter of Pollution of the Interstate Waters of Perdido Bay and Its Tributaries, Florida and Alabama, Gulf Breeze, FL, Jan. 23, 1970. 283 p.

U.S. Federal Water Pollution Control Administration. 1970. Conference in the Matter of Pollution of the Interstate Waters of the Escambia River Basin (Alabama-Florida) and the Intrastate Portions of the Escambia Basin Within the State of Florida, In: Gulf Breeze, FL, Jan. 21-22, 1970. 608 p.

ERL,GB

U.S. Federal Water Pollution Control Administration. 1970. Conference in the Matter of Pollution of the Navigable Waters of Mobile Bay and Its Tributaries, Mobile, AL, Jan. 27-28, 1970. 539 p.

ERL,GB

U.S. Federal Water Pollution Control Administration. 1969. National Estuarine Pollution Study, Vols. I-III: A Report to the Congress.

This report presents a technical analysis of the estuarine zone, identification of scientific knowledge gaps, and an inventory of the available knowledge, all of which form the basis for the recommended comprehensive management program for the Nation's estuarine resources.

U.S. Federal Water Pollution Control Administration. Southeast Water Lab. 1970. Effects of Pollution on Water Quality: Escambia River and Bay, Florida. 177 p.

Interstate and intrastate pollution from waste sources entering the Conecuh-Escambia River downstream of Brewton, Alabama, and Escambia Bay near Pensacola, Florida was evaluated. An investigation of waste sources in Florida and Alabama and a detailed study of the receiving waters were conducted during the period of September 8-25, 1969 and October 22-30, 1969. The report presents an evaluation of the data collected during these studies.

ERL,GB

U.S. Federal Water Pollution Control Administration. Southeast Water Lab. 1970. Effects of Pollution on Water Quality: Perdido River and Bay, Alabama and Florida. 33 p.

A study of water quality conditions and sources of wastes in Perdido Bay based on investigations made in September, 1969. The report concludes: the inadequately treated waste effluent from the St. Regis Paper Company at Cantonment, Florida is the major cause of the...degraded water quality in Eleven Mile Creek, a tributary of Perdido Bay.

U.S. Federal Water Pollution Control Administration. Southeast Water Lab. 1969. Escambia River Fish Kills.

U.S. Fish and Wildlife Service. Office of Endangered Species and Office of Biological Services. 1980. Selected Vertebrate Endangered Species of the Seacoast of the United States: Brown Pelican, Eastern and California Subspecies. 16 p. (FWS/OBS-80/01.40)

ERL,GB

U.S. Fish and Wildlife Service. Office of Endangered Species and Office of Biological Services. 1980. Selected Vertebrate Endangered Species of the Seacoast of the United States: Green Sea Turtle. 9 p. (FWS/OBS-80/01.13)

ERL,GB

U.S. Fish and Wildlife Service. Office of Endangered Species and Office of Biological Services. 1980. Selected Vertebrate Endangered Species of the Seacoast of the United States: Hawksbill Turtle. 6 p. (FWS/OBS-80/01.22)

ERL,GB

U.S. Fish and Wildlife Service. Office of Endangered Species and Office of Biological Services. 1980. Selected Vertebrate Endangered Species of the Seacoast of the United States: Kemp's (Atlantic) Ridley Sea Turtle. 7 p. (FWS/OBS-80/01.30)

ERL,GB

U.S. Fish and Wildlife Service. Office of Endangered Species and Office of Biological Services. 1980. Selected Vertebrate Endangered Species of the Seacoast of the United States: Leatherback Sea Turtle. 7 p. (FWS/OBS-80/01.12)

ERL,GB

U.S. Fish and Wildlife Service. Office of Endangered Species and Office of Biological Services. 1980. Selected Vertebrate Endangered Species of the Seacoast of the United States: The Okaloosa Darter. 5 p. (FWS/OBS-80/01.43)

ERL,GB

U.S. Geological Survey. 1961. Surface Water Records of Florida: Streams. 286 p.

U.S. Geological Survey. 1952. Surface Water Supply of the United States. Part II: South Atlantic Slope and Eastern Gulf of Mexico Basins.

U.S. Geological Survey. Annual. Water Resources Data for Florida, Volume 4: Northwest Florida.

The data for northwest Florida includes continuous or daily stream discharges, periodic stream discharges, peak stream discharges, and continuous or daily stream stages; continuous lake elevations and periodic lake elevations; continuous well ground-water levels, periodic well ground-water levels, and miscellaneous well water-level measurements; quality of water for surface-water sites and wells. These data represent the National Water Data System records collected by the U.S. Geological Survey and cooperating local, state and federal agencies in Florida.

ERL,GB (scattered issues)

U.S. Geological Survey. Water Resources Div. 1978. Preliminary Hydrologic Budget of the Sand-and-Gravel Aquifer Under Unstressed Conditions, With a Section on Water-Quality Monitoring, Pensacola, Florida. 57 p.

This report summarizes the hydrologic budget of the sand-and-gravel aquifer in central and southern Escambia County under unstressed conditions.

U.S. House of Representatives. Commission on Public Works. 1950. East Pass from the Gulf of Mexico into Choctawhatchee Bay, Fla. In: 81st Cong., 2nd Sess., House Doc. 470, Serial 11428. 18 p.

A letter from the Chief of Engineers submitting a report on a preliminary examination and survey of East Pass, February 17, 1950.

U.S. House of Representatives. Commission on Rivers and Harbors. 1928. East Pass Channel from the Gulf of Mexico into Choctawhatchee Bay, Fla.: Report from the Chief of Engineers on Preliminary Examination and Survey of East Pass Channel. In: 70th Cong., 1st Sess., House Doc. 209, Serial 8900. 13 p.

U.S. National Climatic Center. Annual. Local Climatological Data: Pensacola, Florida.

Annual summaries with comparative data.

U.S. National Environmental Satellite, Data, and Information Service. 1985. Handbook of Federal Systems and Services for Marine Pollution Data and Information (Revised). 147 p.

The handbook briefly describes the characteristics of Federal systems and services identified as having data or information relevant to marine pollution or other man-induced perturbations to the marine environment.

ERL,GB

U.S. National Environmental Satellite, Data, and Information Service. 1985. NODC'S Water Temperature Guide to the Gulf Coast. Riverdale, MD: National Ocean Service.

This guide is based on monthly averages computed by the National Oceanographic Data Center. The coastal water temperatures were taken at the National Ocean Service tide stations. The buoy data was collected by the NOAA Data Buoy center.

ERL,GB

U.S. National Marine Fisheries Service. 1972—. Big Game Fishing in the Northern Gulf of Mexico During 1971—.

An annual report which (1) answers general questions such as: where was the best fishing? what was the best bait? how was the fishing season? etc.; and (2) provides scientific data about the distribution, abundance, and biology of marlins and sailfish in the Gulf of Mexico.

U.S. National Marine Fisheries Service. Annual. Florida Landings, Annual Summary.

ERL,GB (scattered issues)

U.S. National Ocean Service. Annual. Tidal Current Tables: Atlantic Coast of North America.

ERL,GB (current issue)

U.S. National Ocean Service. Annual. Tide Tables: East Coast of North and South America.

ERL,GB (current issue)

U.S. National Ocean Survey. Varied. Nautical Charts of the United States, Atlantic and Gulf Coasts.

U.S. National Oceanic and Atmospheric Administration. 1984. Inventory of Non-Federally Funded Marine Pollution Research, Development and Monitoring Activities: South Atlantic and Gulf Coastal Region. 294 p.

This inventory report includes projects in or related to the states of North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, and Texas, as well as the Commonwealth of Puerto Rico. In addtion to oceanic, coastal, and estuarine studies, projects specific to freshwater areas have been included if these areas are being studied for the purpose of determining sources of pollutants to estuarine and coastal areas or the effects of changes in freshwater areas on the marine environment.

ERL,GB

U.S. National Oceanic and Atmospheric Administration. 1983. Marine Environmental Assessment, Gulf of Mexico: Annual Summary, 1982. 80 p.

U.S. National Park Service. 1978. Final Environmental Statement: General Management Plan and Development Concept Plan: Gulf Islands National Seashore, Florida/Mississippi. 384 p.

A general management plan to guide the future management and development of Gulf Islands National Seashore, which proposes (1) establishment of visitor center/administrative offices at Davis Bayou and Naval Live Oaks Reservation; (2) major day-use beach recreation facilities at Santa Rosa Island, Fort Pickens, Perdido Key, and West Ship Island; (3) increased emphasis on boating access in the Florida and Mississippi Districts; (4) increased diversity of recreational and interpretive opportunities at most Seashore units; and (5) enhanced protection of natural and cultural resources.

ERL,GB

U.S. National Park Service. 1978. General Management Plan and Development Concept Plan: Gulf Islands National Seashore, Mississippi - Florida. 92 p.

The general management plan, formerly the master plan, is the parkwide plan for meeting the management objectives of the park. It should chart in succinct language, a long-range strategy for resources management, visitor use, and development at a level of detail that will facilitate implementation of proposed actions. The General Management Plan consists of three interrelated parts: The resources management plan, which outlines strategies for protecting, perpetuating and preserving natural and cultural resources; The visitor-use plan, which outlines strategies for interpreting park resources, for providing for visitor use and safety, and for supplying information and support services; and The general development plan, which outlines development to accomplish the resources management and visitor-use plans.

ERL,GB

U.S. National Park Service. 1976. Environmental Assessment: General Management Plan - Gulf Islands National Seashore.

U.S. Public Health Service. 1963. Water Pollution Surveillance System, Volume 3: Southeast Basin. 109 p.

The report presents water quality data for major river basins in the Southeast Basin. The data was compiled from October 1, 1962 thru September 30, 1963 and covers radioactivity, plankton, organic chemicals, ammonia, chlorine demand, color, oxygen demand, temperature, minerals, turbidity, trace elements, coliform bacteria, and stream flow.

U.S. Public Health Service. 1962. Conference on Interstate Pollution of the Conecuh-Escambia River. 68 p.

ERL,GB

U.S. Public Health Service. 1961. Report on Water Quality Basic Data, Southeast River Basins. 195 p.

A summary of the chemical, physical and environmental characteristics of the surface and groundwaters, prepared for the U.S. Study Commission, Southeast River Basins.

U.S. Soil Conservation Service. 1975. Soil Survey of Holmes County, Florida. 61 p.

U.S. Soil Conservation Service. 1972. Soil Survey -- Maps and Interpretations. 52 p.

Special report prepared in cooperation with Florida Agricultural Experiment Stations.

U.S. Soil Conservation Service. 1967. Watershed Work Plan, Pond Creek Watershed, Santa Rosa County, Florida.

U.S. Study Commission. Southeast River Basins. 1963. Plan for Development of the Land and Water Resources of the Southeast River Basins.

Each of the volumes in the Appendix considers an entire watershed in terms of its history, resources, economic development and characteristics of the population, with notes on geology, soils and climate. Also includes notes on needs and opportunities and projections of such factors as water supply, reclamation, industrial development, conservation, pollution, and related matters. Each report concludes with a comprehensive plan for the basin.

U.S. Study Commission. Southeast River Basins. 1962. Needs and Opportunities for Land and Water Resource Development for the Choctawhatchee-Perdido Basins: A Preliminary Report. 31 p.

University of Florida. Coastal and Oceanographic Engineering Lab. 1973. Coastal Engineering Study of Proposed Navarre Pass. 132 p.

University of Florida. Coastal and Oceanographic Engineering Lab. 1972. Hurricane Surge Analysis for Choctawhatchee Bay, Florida. 13 p.

A study of projected storm tides in the area.

University of Florida. College of Engineering. 1955. An Engineering Conference on Water Management in Florida. 96 p.

Proceedings of the Eighth Municipal and Public Health Engineering Conference, March 15 and 16, 1955.

University of West Florida. 1976. A Needs Analysis Seminar in Coastal Zone Management. 121 p.

This publication is a transcript of the one day session of the Needs Analysis Seminar.

ERL,GB

University of West Florida. 1974. Baseline Study of Physical, Chemical, Biological, and Socio-Economic Parameters of Navarre Beach. 156 p.

Bar built barrier islands parallel the northwestern coast of Florida for several miles. Santa Rosa Island extends from Pensacola to Destin, a distance of about 50 miles. Near the midpoint of the island is the community of Navarre Beach. There is great local interest in re-opening a pass through the island at this point to connect Santa Rosa Sound and the Gulf of Mexico. A pass was built there in 1965 but was not protected by jetties and so was closed by drifting sand within a few months. This study was prompted by a desire to gather baseline information on the chemical, physical, biological and socio-economic environment of the area prior to construction of the pass. This information could be useful in assessing the effect of re-opening the pass.

Vanlier, K.E. et al. 1975. Water Resources Information Needs for the Northwest Florida Water Management District. Tallahassee, FL: U.S. Geological Survey. 68 p.

Vashon, R.D., and B.S. Schwab. 1982. Mineralization of Linear Alcohol Ethoxylates and Linear Alcohol Ethoxy Sulfates at Trace Concentrations in Estuarine Water. Environ. Sci. Technol. 16(7):433-436.

ERL,GB

Vick, N.G. 1969. Summarized Report of the Striped Bass Stocking Project in Choctawhatchee Bay, Florida. Panama City, FL: U.S. Bureau of Sport Fisheries and Wildlife, Eastern Gulf Marine Lab.

Vilas, C.N., and N.R. Vilas. 1952. Florida Marine Shells: A Guide for Collectors of Shells of the Southeastern Atlantic Coast and Gulf Coast. New York, NY: Bobbs-Merrill Company. 170 p.

This book is intended to instruct the amateur collector without being too technical; aid in the identification of the most common shells without creating confusion; present a conception of the living mollusk; and create a substantial interest in shell collecting by means of colored illustrations, concise descriptions, clear basic classification, and general scientific facts.

Voss, G.L. 1956. A Checklist of the Cephalopods of Florida. Q. J. Fla. Acad. Sci. 19(4):274-282.

Thirty-nine species are listed in phylogenetic order in the following checklist, together with a note as to their habitat and all of the records available to the author at the present time.

ERL,GB

Voss, G.L. 1956. A Review of the Cephalopods of the Gulf of Mexico. Bull. Mar. Sci. Gulf Caribb. 6(2):1-178.

Three hundred and three specimens of cephalopods are reported upon, mostly captured by the U.S. Fish and Wildlife Service vessel OREGON in the Gulf of Mexico from 1950 to 1956. Thirty-five genera and 42 species are described and illustrated, of which 1 genus and 4 species are described as new. This list increases the number of known species from the Gulf of Mexico from 26 to 42.

ERL,GB

Wagner, J.R. et al. 1980. Hydrologic Data for Okaloosa, Walton, and Southeastern Santa Rosa Counties, Florida. Tallahassee, FL: U.S. Geological Survey.

A summary of hydrologic and water-quality data for all streams, wells, and ground water sources in the area. The data are presented in graphs and tables. Maps of the area show locations of wells and surface-water stations.

Walker, J.H., V.W. Carlisle, and A.H. Hasty. 1960. Soil Survey of Escambia County, Florida. Washington, DC: U.S. Soil Conservation Service. 87 p. (Series 1955, No. 8)

This survey is intended to help farmers in planning the kind of management that will protect their soils and provide good yields; assist engineers in selecting sites for roads, buildings, ponds, and other structures; aid foresters in managing woodlands; and add to the soil scientist's fund of knowledge.

Wallcraft, A.J. 1984. Gulf of Mexico Circulation Modeling Study: Annual Progress Report, Year I. Metairie, LA: U.S. Minerals Management Service. 106 p. (MMS 85-0025)

This final report gives details of the first year of a four year numerical ocean circulation modeling program for the Gulf of Mexico. The aim of the program is to progressively upgrade, in modest increments, an existing numerical ocean circulation model of the Gulf so that the final model has a horizontal resolution of about 10 km and vertical resolution approaching 1 to 10 m in the mixed layer, 10 m at the thermocline and 100 m in the deep water. Throughout the four year period, the validity of the upgraded model will be continuously tested, and velocity field time series delivered periodically based on the most realistic simulation of Gulf circulation available.

ERL,GB

Waller, R.A. 1961. Ostracods of the St. Andrew Bay System. Tallahassee, FL: Florida State University. 46 p. Thesis.

This study was undertaken in an attempt to determine the species of ostracods present and the physical factors influencing or controlling their seasonal distribution in an estuarine complex.

Walsh, G.E. 1975. Utilization of Energy by Primary Producers in Four Ponds in Northwestern Florida. In: Proceedings: Biostimulation - Nutrient Assessment Workshop. Corvallis, OR: U.S. Environmental Protection Agency, National Environmental Research Center. 249-274. (EPA-660/3-75-034)

The research reported here was concerned with seasonal changes in energy utilization. The objectives of the investigation were to: (1) determine the amount of solar energy incorporated into the first trophic level in each pond, (2) relate energy incorporated to the amount of solar radiation impinging upon the water, (3) determine the efficiency of incorporation of energy absorbed by primary producers into organic compounds, (4) study the role of CO2 concentration in limiting the rate of primary production, and (5) describe changes in phytoplankton over a seasonal cycle.

ERL,GB

Walsh, G.E. 1971. Energy Budgets of 4 Ponds in Northwestern Florida. Ecology 52(2):298-304.

ERL,GB

Ward, D.B., and J.R. Burkhalter. 1977. Rediscovery of Smalls Acacia in Florida. Fla. Sci. 40(3):267-270.

ERL,GB

Ward, D.B., and C.J. Chapman. 1973. Military Herbicide Driftage and Florida Vegetation. Fla. Sci. 36(2-4):110-122.

An Air Force program on the Eglin Air Force Base Reservation, Florida, of testing spray equipment designed to apply herbicides and other biologically active materials by aerial means, has given rise to the possibility that the testing program might affect the biota outside the test area. Observations made as part of the present project show that changes have been induced in the vascular flora, but that they are not extensive in terms of distance from the test area, duration, or magnitude. No species can be demonstrated to be reduced in numbers near the test area, although certain weedy species can be shown to increase in numbers near the area following the temporary defoliation of the forest canopy.

ERL,GB

Ward, G.M. 1972. Limnological Aspects of an Incipient Oxbow Lake with Notes on the Chironomidae (Insecta: Diptera). Pensacola, FL: University of West Florida. 79 p. Thesis.

The Escambia River exhibits a series of developing oxbow lakes (Pin Hook Lake, Horseshoe Lake, and Sixteenth Lake) which provide opportunities for study. Although numerous surveys have been conducted on the Escambia River since 1952, none have focused on backwater areas or oxbow lakes. The present study seeks to contribute to the knowledge of transitional systems by monitoring certain biological, chemical, and physical characteristics of Sixteenth Lake.

Wastler, T.A., and F.W. Kittrell. 1962. Report on Pollution of Interstate Waters of the Conecuh-Escambia River. Cincinnati, OH: U.S. Public Health Service. 17 p.

Waterbury, R.C. (Ed.). 1970. Florida Coastal Zone Land Use and Ownership. Tallahassee, FL: Florida Coastal Coordinating Council. 84 p.

ERL,GB

Wells, H.W. 1966. Barnacles of the Northeastern Gulf of Mexico. Q. J. Fla. Acad. Sci. 29(2):81-95.

In this report are listed the species of barnacles from inshore waters of the northeastern Gulf of Mexico with annotated remarks on their collection and distribution. A number of new records are included which extend known geographic ranges from other areas and from the southern part of the Gulf of Mexico, and which contribute to our knowledge of the local fauna and to the zoogeography of the Gulf.

ERL,GB

West Florida Regional Planning Council. 208 Areawide Waste Treatment Management Plan Executive Summary: Existing Data on the Physical and Biological Conditions, Work Element 305. Pensacola, FL: Henningson, Durham and Richardson, Inc. 17 p.

ERL,GB

West Florida Regional Planning Council. 1979. Summary of the Continuing Planning Program Work Plan for the 208 Clean Water Plan: Draft. 4 p.

The 208 Clean Water Plan for the West Florida Region (Escambia, Santa Rosa and Okaloosa Counties) culminates over three years of effort by the West Florida Regional Planning Council 208 Project Team (208 Staff and consultants) and the seven areawide advisory committees. The object of this plan is to present the recommended actions and programs necessary to improve water quality in the Region to meet the Federal Water Pollution Control Act, Amendments of 1972 Goals of "fishable, swimmable" waters, and to maintain or further improve area water quality over the twenty-year planning period (1976-1996).

ERL,GB

West Florida Regional Planning Council. 1978. 208 Areawide Waste Treatment Management Plan: Continuing Planning Program Workshop, Work Element 280. Pensacola, FL: Post, Buckley, Schuh & Jernigan, Inc. and Henningson, Durham and Richardson, Inc. 39 p.

To review and agree on first and second priority activities to be ultimately included in the continuing planning program; to review and agree on agencies to perform the various continuing planning program tasks; to review and agree on scale of costs and possible funding sources for continuing planning program activities; and suggestions on additions to and deletions from the proposed continuing planning program.

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West Florida Regional Planning Council. 1978. Regional Clean Water Plan.

West Florida Regional Planning Council. 1977. 208 Areawide Waste Treatment Management Plan: Develop Preliminary Evaluation Baseline, Work Elements 150 and 335 Workshop. Pensacola, FL: Post, Buckley, Schuh & Jernigan, Inc. and Henningson, Durham and Richardson, Inc. 11 p.

To develop with public input the criteria and ranking scores to be used to evaluate alternative plans.

ERL,GB

West Florida Regional Planning Council. 1977. 208 Areawide Waste Treatment Management Plan: Regional Water Quality Assessment Workshop. Pensacola, FL: Henningson, Durham and Richardson, Inc. 23 p.

To present to the public an assessment of existing water quality in the West Florida region, and to preview a methodology by which concerned citizens can actively participate in water pollution abatement.

ERL,GB

West Florida Regional Planning Council. 1977. 208 Areawide Waste Treatment Management Plan: Soil Type Association Relationships Summary, Work Element 445. Pensacola, FL: Henningson, Durham and Richardson, Inc. 5 p.

To associate the acreage and percentage of general soil types with the land use classifications.

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West Florida Regional Planning Council. 1976-77. Land Use Plan for the West Florida Region.

A study of physical characteristics, population, and economy of the region, with recommended policies for land development in Escambia, Santa Rosa and Okaloosa Countie.s

West Florida Regional Planning Council. 1975. Florida Regional Coastal Zone: Region I, West Florida.

This district includes portions of Escambia, Santa Rosa and Okaloosa counties. Contents: pt. 1--Environmental quality assessment; pt. 2--Land ownership analysis; pt. 3--Land use analysis; pt. 4--Support services analysis; pt. 5--Land ownership inventory (Escambia and Okaloosa counties); pt. 6--Land ownership inventory (Santa Rosa county); pt. 7--Population analysis; pt. 8--Economic analysis.

West Florida Regional Planning Council. 1975. Water Quality Management Plan for Escambia and Santa Rosa Counties. Pensacola, FL: Henningson, Durham and Richardson, Inc. 237 p.

Information on the physical environment with some data on climate and precipitation. Contains a brief summary of surface and groundwater features, including descriptions and maps of drainage basins, aquifer thickness, and groundwater availability (extent of salt water intrusion). Detailed discussion of existing pollution contributors, water quality and wastewater facilities, as background for proposed management plan.

ERL,GB

Wharton, C.H. et al. 1977. Forested Wetlands of Florida - Their Management and Use. Tallahassee, FL: Florida Division of State Planning. 348 p.

For public use, this paper summarizes new and old information about the beauty and utility of swamps as partners with humanity in maintaining a healthy and economically vital landscape for Florida and similar areas elsewhere. This summary draws on a series of research projects on wetlands, regional planning of wetlands regions, and especially on detailed studies of cypress that were conducted from 1972-1976 under several auspices.

Williams, J.L. 1976. A View of West Florida. Gainesville, FL: University Presses of Florida. 184 p.

A facsimile reproduction of the 1827 edition with prefatory material, introduction, and index added.

Williams, S.A. 1981. Salinity Differences Between a High and Low Marsh of Northwestern Florida. Fla. Sci. 44(4):224-228.

An analysis of soils from a high marsh and low marsh in northwestern Florida showed that they contained large amounts of sand, and were low in cation exchange capacity and exchangeable cations. The soils examined contained high levels of soluble salts. Soils from the low marsh had higher cation exchange capacities than did the layers below.

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Williams, S.J. 1974. Aspects of Barrier Island and Shallow Shelf Sedimentation: West of Pensacola, Florida. Golden, CO: Colorado School of Mines. 161 p. Thesis.

A study of the sedimentary environments as they occur in the barrier island shallow marine shelf complex west of Pensacola.

Wilson, A., and K.T. Iseri. 1969. River Discharge to the Sea from the Shores of the Conterminous United States, Alaska, and Puerto Rice: A Contribution to the International Hydrological Decade. Reston, VA: U.S. Geological Survey.

Wilson, A.J., and J. Forester. 1978. Persistence of Aroclor 1254 in a Contaminated Estuary. Bull. Environ. Contam. Toxicol. 19(5):637-640.

The brief report summarizes the concentrations of PCB's in oyster tissue (Crassostrea virginica) observed from April 1969 to June 1976 at three locations in the Escambia Bay estuary, following elimination of an accidental leak of Aroclor 1254 from an industrial site. Data showed that PCB's in oyster tissues decreased after the leak was eliminated, but a steady-state concentration was reached. No Aroclor 1254 was detectable in water at stations sampled, but sediments were found to contain relatively low amounts (less than 0.31 ppm) in 1970 and 1971. The study demonstrates the persistence of PCB's long after point-source discharges are eliminated.

Wilson, C.R. 1972. A Vitamin B-12 Study in Portions of Escambia and Blackwater Bays, Florida. Pensacola, FL: University of West Florida. 65 p. Thesis.

The purposes of this study were to compare the cobamide content of water samples collected from sections of Escambia and Blackwater Bays and to isolate and characterize combamide producing bacteria from the water column and sediments of the Mulatto Bayou section of Escambia Bay. The upper section of Escambia Bay including Mulatto Bayou is in a state of accelerated eutrophication. In contrast to Escambia Bay, the waters of nearby Catfish Basin in Blackwater Bay appear to be ecologically stable. This provided an opportunity to study the combamide content of water samples collected from two contrasting ecosystems. Bioassays employing Lactobacillus leichmannii ATCC 7830 and Ochromonas malhamensis ATCC 11532 were used to determine the cobamide content of bisulfite extracted water samples.

Winner, L. (Ed.). 1970. IEEE International Conference on Engineering in the Ocean Environment, 1st, Panama City, Fla.: Digest of Technical Papers. 259 p.

Winstead, J.T., and V. Mitchell. 1975. Macroinvertabrates of the Navarre Pass, Florida Area. Fla. Sci. 38(1):7.

A baseline study of macroinvertebrates in the Navarre Pass, Florida area was attempted in the summer of 1974 before the construction of a proposed pass across Santa Rosa Island. Benthic, epibenthic and shoreline areas were sampled. Sixty five benthic samples from thirteen stations were taken with a diver operated coring device. Epibenthic samples were taken with a one meter Otter Trawl while a ten meter sein was employed to sample shoreline areas. Results showed polychaete worms, especially Loimia viridis, comprised the majority of organisms with mollusks second and crustaceans third. Benthic biomass ranged from 260mg at station one to 4755 mg at station ten. The study should permit a follow up of assessment of the effects, if any, the completed pass will have upon the macroinvertebrate fauna of the area.

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Winston, G.O. 1969. A Deep Glimpse of West Florida's Platform. Oil Gas J. 67(48):128-133.

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Winter, P.A. 1978. Evaluation of Seagrass Resources: Santa Rosa Island, Florida. Mobile, AL: U.S. Army. Corps of Engineers. 26 p.

Woodson, R.D., and J. Corbett. 1979. Local Control Over the Onshore Impacts of Offshore Energy Development in Florida. Gainesville, FL: Florida Sea Grant Program. 11 p. (MAP-7)

Offshore oil and gas development, deepwater ports, shipping of petroleum products, and floating power plants are energy activities which could have great environmental, economic, and social impacts on Florida's coastal communities. A local government must be aware of pluses and minuses associated with these energy activities in order to effectively respond to any development proposal.

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Wurtz, C.B, and S.S. Roback. 1955. Invertebrate Fauna of Some Gulf Coast Rivers. Proc. Acad. Nat. Sci. Phila. 107:167-206.

Young, W.T. 1971. Investigations of Biological Conditions and Water Quality in Eastern Escambia Bay Relative to Fish and Oyster Mortality During September, 1971. Gulf Breeze, FL: Florida Dept. of Pollution Control, Northwest Region. 26 p.

A report on the causes of a large fish kill which occurred in the Bay, September 4, 1971.

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Young, W.T., and G.L. Butts. 1983. Hydrolab Survey of Pensacola Bay - August 9 and August 18, 1983. Pensacola, FL: Dept. of Environmental Regulation. (Unpublished)

Zetler, B.D., and D.V. Hansen. 1970. Tides in the Gulf of Mexico--A Review and Proposed Program. Bull. Mar. Sci. 20(1):57-69.

A study of tides in the Gulf of Mexico is propsed as part of the program for Gulf Science Year (1970). There are several existing hypotheses explaining the diurnal tides in the gulf. These are described and discussed and a new hypothesis is suggested. The semidiurnal tides are generally small, and therefore have had less attention; nevertheless, there are several hypotheses that are quite contradictory. A program of tide and tidal current observations is proposed which should permit discrimination among the various hypotheses.

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