BIBLIOGRAPHY OF HYDROLOGIC AND WATER-QUALITY INVESTIGATIONS CONDUCTED IN OR NEAR THE ALBEMARLE-PAMLICO SOUNDS REGION, NORTH CAROLINA

U.S. GEOLOGICAL SURVEY OPEN-FILE REPORT 88-480

ALBEMARLE-PAMLICO ESTUARINE STUDY

APES REPORT NO. 88-06

Prepared in cooperation with the
NORTH CAROLINA DEPARTMENT OF
NATURAL RESOURCES AND COMMUNITY DEVELOPMENT

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By Jerad D. Bales and Thomas M. Nelson

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Raleigh, North Carolina

1988

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ABSTRACT

A bibliography containing 1,100 citations is presented. The cited works are primarily reports of investigations of the effects of land use and land-use change on water quality, artificial drainage, hydrology and hydrodynamics, and water quality in the Albemarle-Pamlico Sounds region, North Carolina. The bibliography is indexed according to research topic and geographic location of the investigation. The bibliography is also computerized and has been transferred to the Albemarle-Pamlico Estuarine Study data-management system.

INTRODUCTION

The Albemarle-Pamlico Estuarine Study (APES), which began in 1986, is a joint effort of the State of North Carolina, the Federal Government, and local interests. APES is authorized under Section 320 (the National Estuary Program) of the Clean Water Bill Amendments of 1987. Scientific research directed toward evaluation of potential management alternatives is being funded by APES in an effort to better preserve the natural productivity of the Albemarle-Pamlico system (Rader, 1988).

Assessment of water-quality conditions and quantification of processes that affect water quality is a major component of the APES. A comprehensive knowledge of present conditions and a thorough understanding of the water-quality effects resulting from various inputs, management practices, and natural processes is required to effectively manage the Albemarle-Pamlico system and to ensure a healthy fishery and biotic community. New and innovative research will be required to reach these goals. Nevertheless, the great body of existing data and research results cannot be ignored and should be a valuable guide in the search for new information and insight.

In order to consolidate and analyze existing hydrologic and water-quality data from Albemarle and Pamlico Sounds and the surrounding area, the APES Project Office, located within the North Carolina Department of Natural Resources and Community Development (NRCD), and the U.S. Geological Survey began an 18-month cooperative investigation in October 1987. This bibliography is the first product of that cooperative work.

Purpose and Scope

The purpose of this report is to provide a bibliography of hydrologic and water-quality investigations that were conducted in or near the Albemarle and Pamlico Sounds, North Carolina (fig. 1). An alphabetical listing of the citations is provided. The cited reports are also indexed by study site location and investigation topic. The bibliography is computerized and has been transferred to the APES data-management system, which is housed in NRCD's Land Resources Information Service.

The bibliography contains 1,100 citations. Although approximately 75 percent of the publications listed in the bibliography were examined in preparation for this report, not all citations could be located. The decision to include a work in the bibliography was based on the topic and geographic location of the investigation. Works included in the bibliography are primarily investigations related to artificial drainage, hydrology and hydrodynamics, water quality, and the effects of land use and land-use change on water quality. Also included are some selected citations of ground-water and geologic investigations that relate to surface-water issues. The bibliography generally includes citations of investigations that were conducted on lands or in waters seaward of the head-of-tide in the Albemarle and Pamlico Sound tributary rivers.

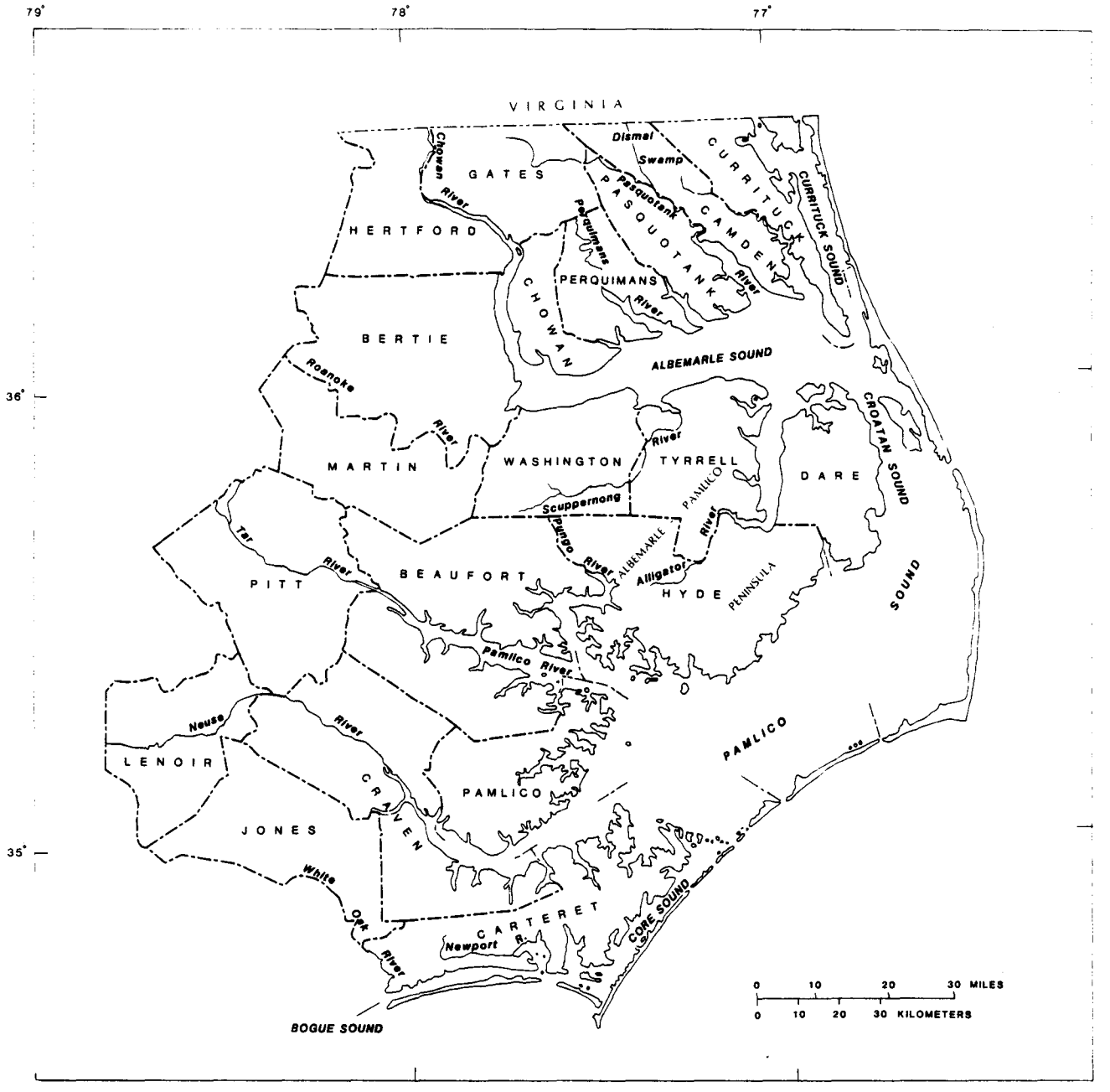

Figure 1.--The Albemarle-Pamlico Sounds region.

The bibliography includes only investigations in which Albemarle-Pamlico site-specific data were collected or interpreted. For example, there are numerous publications on the general topic of brackish-water chemistry that are helpful in providing insight into geochemical processes in Albemarle-Pamlico waters; however, if these publications do not include Albemarle-Pamlico data, they are not included in this bibliography.

The bibliography was compiled from computerized searches, visits to university and agency libraries, previously published and unpublished bibliographies, and discussions with researchers. Libraries that were visited included those at North Carolina State University, the Water Resources Research Institute library at North Carolina State University, the University of North Carolina at Chapel Hill, Duke University, East Carolina University, the University of North Carolina Institute of Marine Sciences, the Duke University Marine Laboratory, the East Carolina University Institute of Coastal and Marine Resources, NRCD, the North Carolina Department of Cultural Resources, the North Carolina Department of Agriculture, the Soil Conservation Service in Raleigh, the National Marine Fisheries Service in Beaufort, the Fish and Wildlife Service in Raleigh, the U.S. Army Corps of Engineers in Wilmington, and the U.S. Geological Survey in Raleigh.

Previous Bibliographies

Several published and unpublished bibliographies concerning various aspects of the Albemarle-Pamlico region have been compiled in the past. A 1982 bibliography (Garlo, 1982) of Currituck Sound reports includes both scientific and popular citations. The unpublished "Albemarle Basin Bibliography" was compiled by NRCD in 1985 and mainly contains citations of water-quality studies in the Chowan River. The geological bibliography of Riggs and O'Connor (1975) contains a complete compilation of pre-1975 geological investigations conducted in the Coastal Plain, coastal zone, and continental shelf of North Carolina. Dubach (1977) also compiled information on the North Carolina coastal zone. Finally, Collins and Sylvester (1986) published a data characterization of Albemarle and Pamlico Sounds that contained 57 citations.

Acknowledgments

This report was prepared in cooperation with the NRCD Albemarle-Pamlico Estuarine Study Project Office. Compilation of the bibliography was facilitated by assistance from librarians at the many institutions and agencies that were visited. Jane Basnight, NRCD librarian, was particularly helpful in locating old and obscure State documents. Dr. Robert E. Holman, APES project director, and Dr. Douglas N. Rader, former APES project director, were also instrumental in identifying potential sources of information.

DESCRIPTION OF BIBLIOGRAPHY

The bibliography consists of three sections: (1) an alphabetical listing of the citations, (2) an index of the citations by study location, and (3) an index of the citations by investigation topic. The alphabetical listing of the citations also includes a notation of the location(s) and study topic(s) under which the report is indexed.

Locations used to index the reports are listed in Table 1 and are shown in Figure 1. The location identifiers are only general indications of the investigation study site. The cited reference should be consulted for a complete description of the study location. Likewise, the study topic(s) used to categorize the citations reflect only the general thrust of the investigation. Study-topic categories are given in Table 2.

Table 1.--*Study site locations used in location index*

Counties	Waterbodies	Other locations
Beaufort	Albemarle Sound	Albemarle-Pamlico Peninsula
Bertie	Alligator River	Barrier Islands
Camden	Bogue Sound	Offshore
Carteret	Chowan River	System-wide
Chowan	Core Sound	Virginia
Craven	Croatan Sound	
Currituck	Currituck Sound	
Dare	Dismal Swamp	
Hyde	Neuse River	
Jones	Newport River	
Lenoir	Pamlico River	
Pamlico	Pamlico Sound	
Pasquotank	Pasquotank River	
Perquimans	Perquimans River	
Pitt	Pungo River	
Tyrrell	Roanoke River	
Washington	Scuppernong River	
	Tar River	
	White Oak River	

Table 2.--*Primary investigation topics used in topic index*

- Artificial drainage
- Geology
- Ground water
- Hydrology/hydrodynamics
  - General
  - Meteorology
- Land-use effects
  - Agriculture
  - General
  - Mining
  - Silviculture
  - Urbanization
  - Wetlands
- Water quality
  - General
  - Invertebrates
  - Macrophytes
  - Nutrients
  - Phytoplankton
  - Salinity
  - Sediments
  - Shoreline changes

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Collins, E., and Sylvester, J., 1986, Data characterizations for Albemarle/Pamlico Sounds: Washington, D.C., U.S. Department of Commerce, National Oceanographic Data Center, NODC Informal Report No. 3.

Dubach, H.W., 1977, North Carolina coastal zone and its environment: U.S. Department of Energy, Savannah River Laboratory, Report No. 147.

Garlo, E., 1982, Currituck Sound bibliography: North Carolina Department of Natural Resources and Community Development, 49 p.

Rader, D.N., 1988, The Albemarle-Pamlico estuarine study--first year progress report: North Carolina Department of Natural Resources and Community Development Report No. APES 88-04, 52 p.

Riggs, S.R., and O'Connor, M.P., 1975, Geological bibliography of North Carolina's Coastal Plain, coastal zone, and continental shelf: North Carolina State University, University of North Carolina Sea Grant College Program, Report No. UNC-SG-75-13, 141 p.

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Adams, D.A., and Barnes, J.S., 1986, First Colony Farms reclamation plan: Creswell, North Carolina, First Colony Farms, 27 p.
Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (agriculture)

Adams, D.A., Beninger, L.K., Hosier, P.E., Overton, M.F. and Reed, J.P., 1982, White Oak River management project - final report: Raleigh, Office of Water Resources, North Carolina Department of Natural Resources and Community Development.
Location: White Oak River
Topic: Water Quality

Adams, D.A., and Overton, M.F., 1984, The impact of salinity introduction upon fish habitat in Currituck Sound--results of species-habitat modeling: Raleigh, Report prepared for the North Carolina Department of Natural Resources and Community Development, 29 p.
Location: Currituck Sound
Topic: Water Quality (salinity)

Airan, D.S., 1974, Explicit modeling of circulation and water quality for two-dimensional unsteady flow: Raleigh, unpublished Ph.D. dissertation, North Carolina State University, 234 p.
Location: Pamlico Sound
Topic: Hydrology/Hydrodynamics

Albert, D.B., 1980, In situ measurements of sediment-water nutrient exchange rates in the Chowan River: Chapel Hill, unpublished M.S. thesis, University of North Carolina.
Location: Chowan River
Topic: Water Quality (nutrients, sediments)

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Location: Dare County
Topic: Land-Use Effects

Allen, D.W., 1964, Clay minerals of Tar-Pamlico sediments: Chapel Hill, unpublished M.S. thesis, University of North Carolina, 34 p.
Location: Pamlico River
Topic: Water Quality (sediments)

[1/] This bibliography does not conform strictly to U.S. Geological Survey format for citing references in Survey reports; therefore, Survey authors should reformat, if necessary, for purposes of compiling reference lists.

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (silviculture)

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Topic: Hydrology/Hydrodynamics

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Topic: Water Quality (nutrients)

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Location: Neuse River
Topic: Water Quality

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Location: Carteret County
Topic: Land-Use Effects (urbanization)

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (wetlands), Artificial Drainage

Ash, A.N., McDonald, C.B., Pories, C.A., and Kane, E.S., 1982, Natural and modified pocosins--management options for protection and enhancement of aquatic and terrestrial wildlife (draft report): Greenville, North Carolina, Department of Biology and Institute for Coastal and Marine Resources, East Carolina University, 54 p.
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Topic: Land-Use Effects (wetlands)

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Topic: Water Quality

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Topic: Water Quality

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Topic: Water Quality

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Topic: Water Quality (macrophytes)

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Topic: Water Quality (sediments)

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Location: System Wide
Topic: Water Quality (sediments)

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Topic: Geology

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Topic: Water Quality

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Topic: Water Quality (macrophytes)

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Topic: Water Quality

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Topic: Water Quality (macrophytes)

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Topic: Water Quality (nutrients)

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Topic: Water Quality (nutrients)

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Location: Tar River
Topic: Water Quality (nutrients)

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Topic: Water Quality (sediments)

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Location: Beaufort County
Topic: Ground Water

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Location: Barrier Islands, Offshore
Topic: Water Quality (shoreline changes)

Brauner, J.F., 1975, Seasonality of epiphytic algae on Zostera marina at Beaufort, North Carolina: Nova Hedwigia, v. 26, p. 125-133.
Location: Bogue Sound
Topic: Water Quality (macrophytes)

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Location: Bogue Sound
Topic: Water Quality (sediments, invertebrates)

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Location: Tar River
Topic: Water Quality (nutrients)

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Topic: Water Quality (nutrients)

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Topic: Water Quality (nutrients)

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Location: Pamlico River
Topic: Land-Use Effects (wetlands), Water Quality (salinity)

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Location: Tar River, Pitt Co.
Topic: Water Quality (nutrients)

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Location: Tar River
Topic: Water Quality (nutrients)

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Topic: Water Quality (nutrients, macrophytes)

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Topic: Water Quality (nutrients)

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Location: System-Wide
Topic: Hydrology/Hydrodynamics, Water Quality

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Location: System-Wide
Topic: Land-Use Effects (wetlands), Artificial Drainage

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Location: Barrier Islands
Topic: Water Quality (macrophytes)

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Location: Barrier Islands
Topic: Hydrology/Hydrodynamics

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Topic: Land-Use Effects

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Location: System-Wide
Topic: Land-Use Effects

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Location: Barrier Islands
Topic: Water Quality (macrophytes)

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Location: Neuse River
Topic: Water Quality (sediments)

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Location: Neuse River
Topic: Water Quality (sediments)

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Location: Pamlico River
Topic: Geology

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Location: Beaufort County
Topic: Ground Water

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Location: Barrier Islands
Topic: Ground Water

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Location: Albemarle Sound
Topic: Geology

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Topic: Ground Water

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Location: System-Wide
Topic: Land-Use Effects (wetlands)

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Location: Offshore
Topic: Hydrology/Hydrodynamics

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Location: Offshore
Topic: Water Quality, Hydrology/Hydrodynamics

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Location: System-Wide
Topic: Land-Use Effects (wetlands), Artificial Drainage

_____1967, An investigation of the alteration of coastal marshes in North Carolina: Raleigh, Division of Game, North Carolina Wildlife Resources Commission,, 11 p.
Location: System-Wide
Topic: Land-Use Effects (wetlands), Artificial Drainage

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Location: Barrier Islands
Topic: Water Quality (macrophytes)

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Location: Pamlico River
Topic: Water Quality (nutrients)

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Topic: Water Quality

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Topic: Land-Use Effects (silviculture)

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Topic: Water Quality (sediments)

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Topic: Water Quality (sediments)

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Location: System-Wide
Topic: Water Quality (nutrients)

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Location: Pamlico River
Topic: Water Quality (nutrients)

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Location: Dismal Swamp
Topic: Land-Use Effects (wetlands)

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Location: Core Sound
Topic: Water Quality (invertebrates, macrophytes)

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Location: Newport River
Topic: Water Quality (invertebrates)

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Topic: Water Quality (invertebrates, macrophytes)

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Location: Bogue Sound
Topic: Water Quality (nutrients, phytoplankton)

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Location: System-Wide
Topic: Land-Use Effects (silviculture)

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Topic: Land-Use Effects (silviculture, wetlands)

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Topic: Land-Use Effects (mining, agriculture)

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Topic: Water Quality

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Topic: Hydrology/Hydrodynamics (meteorology)

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Location: Pamlico River
Topic: Water Quality (nutrients, phytoplankton)

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Location: Pamlico River
Topic: Water Quality (nutrients, phytoplankton)

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Topic: Land-Use Effects (mining)

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Location: Bogue Sound, Core Sound
Topic: Water Quality (macrophytes)

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Location: System-Wide
Topic: Land-Use Effects (agriculture)

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Location: System-Wide
Topic: Land-Use Effects (agriculture)

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Location: Currituck Sound
Topic: Water Quality (salinity, macrophytes)

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Topic: Water Quality

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (agriculture), Hydrology/Hydrodynamics

Chang, S.Y., 1977, Nonsteady state model of phosphorus and nitrogen for Pamlico River Estuary, North Carolina: Chapel Hill, M.S. Report, Department of Environmental Sciences and Engineering, University of North Carolina, 75 p.
Location: Pamlico River
Topic: Water Quality (nutrients)

Chao, T.-Y., 1981, The response of the Pamlico Sound sea level to atmospheric forcing: Raleigh, unpublished Ph.D. dissertation, North Carolina State University, 122 p.
Location: Pamlico Sound
Topic: Hydrology/Hydrodynamics

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Location: Offshore
Topic: Hydrology/Hydrodynamics (meteorology)

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Location: Pitt County
Topic: Water Quality (invertebrates)

Chescheir, G.M., Gilliam, J.W., Skaggs, R.W., Broadhead, R.G., and Lea, R., 1987, The hydrology and pollutant removal effectiveness of wetland buffer areas receiving pumped agricultural drainage water: Raleigh, Report No. UNC-WRRI-87-231, Water Resources Research Institute, North Carolina State University, 170 p.
Location: Dare County, Tyrrell County
Topic: Land-Use Effects (agriculture, wetlands)

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Location: Dare County, Tyrrell County
Topic: Land-Use Effects (agriculture, wetlands)

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Location: Dismal Swamp
Topic: Land-Use Effects (wetlands)

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Location: Neuse River
Topic: Water Quality (phytoplankton)

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Location: Neuse River
Topic: Water Quality (nutrients)

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Location: Neuse River
Topic: Water Quality

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Location: Pamlico Sound
Topic: Hydrology/Hydrodynamics

Chynoweth, D.P., 1965, Baseline survey of the benthic macroinvertebrates of the Pamlico River: Chapel Hill, Department of Environmental Sciences and Engineering Technical Report No. 264, School of Public Health, University of North Carolina, 55 p.
Location: Pamlico River
Topic: Water Quality (invertebrates)

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Location: Currituck Sound
Topic: Water Quality (salinity)

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Location: Pamlico River
Topic: Water Quality (invertebrates)

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (wetlands, mining)

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Location: System-Wide
Topic: Geology

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Location: System-Wide
Topic: Land-Use Effects

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (agriculture, mining)

Cobb, C., 1903, Recent changes in the North Carolina coast with special reference to Hatteras Island: Science, v. 17, no. 423, 227 p.
Location: Barrier Islands
Topic: Water Quality (shoreline changes)

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Location: System-Wide
Topic: Water Quality (shoreline changes)

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Location: Barrier Islands
Topic: Geology

_____1907, Notes on the geology of Core Banks: Journal of the Elisha Mitchell Scientific Society, v. 23, p. 26-28.
Location: Barrier Islands
Topic: Geology

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Location: Tyrrell County
Topic: Land-Use Effects

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Location: Beaufort County
Topic: Land-Use Effects

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Location: Dismal Swamp
Topic: Land-Use Effects (wetlands)

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Location: Pamlico Sound
Topic: Water Quality (invertebrates)

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Location: Pamlico Sound
Topic: Water Quality (invertebrates)

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Location: System-Wide
Topic: Water Quality (shoreline changes)

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Location: Chowan River
Topic: Hydrology/Hydrodynamics, Water Quality

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Location: System-Wide
Topic: Land-Use Effects

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Location: System-Wide
Topic: Land-Use Effects

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Location: System-Wide
Topic: Land-Use Effects (wetlands)

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Location: System-Wide
Topic: Water Quality

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Location: System-Wide
Topic: Water Quality

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Location: System-Wide
Topic: Water Quality, Land-Use Effects, Hydrology/Hydrodynamic

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Location: Pamlico River
Topic: Water Quality (nutrients)

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Location: Albemarle Sound
Topic: Water Quality, Land-Use Effects, Hydrology/Hydrodynamics

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Location: Pamlico River
Topic: Water Quality, Land-Use Effects, Hydrology/Hydrodynamics

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Location: Pamlico Sound
Topic: Water Quality (salinity), Hydrology/Hydrodynamics

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Location: System-Wide
Topic: Land-Use Effects (silviculture)

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Location: Neuse River
Topic: Water Quality (sediments)

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Location: System-Wide
Topic: Land-Use Effects (wetlands)

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Location: Dismal Swamp
Topic: Land-Use Effects (wetlands)

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Location: Chowan River
Topic: Land-Use Effects, Water Quality (nutrients)

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Location: Currituck Sound
Topic: Water Quality (macrophytes)

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Location: System-Wide
Topic: Land-Use Effects (silviculture)

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Location: Pamlico Sound
Topic: Water Quality (invertebrates)

Cumming, W.P., 1966, North Carolina in maps: Raleigh, North Carolina, State Department of Archives and History, (Set of fifteen maps plus text).
Location: System-Wide
Topic: Land-Use Effects, Artificial Drainage

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Location: System-Wide
Topic: Water Quality (sediments)

Dachnowski-Stokes, A.P., and Wells, B.W., 1929, The vegetation, stratigraphy, and age of the "open land" peat area in Carteret County, North Carolina: Journal of the Washington Academy of Science, v. 19, p. 1-11.
Location: Carteret County
Topic: Land-Use Effects (mining)

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Topic: Land-Use Effects (agriculture)

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Topic: Land-Use Effects (wetlands)

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Topic: Water Quality (nutrients)

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Topic: Land-Use Effects

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Topic: Water Quality

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Topic: Land-Use Effects

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Topic: Water Quality (nutrients, sediments)

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Topic: Land-Use Effects (mining)

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Topic: Land-Use Effects (urbanization)

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Topic: Water Quality (sediments)

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Topic: Water Quality (sediments)

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Topic: Water Quality (nutrients)

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Location: Bogue Sound
Topic: Water Quality

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Topic: Water Quality

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Topic: Land-Use Effects (agriculture)

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Topic: Water Quality (shoreline change)

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Topic: Water Quality (shoreline changes)

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Topic: Water Quality (sediments)

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Topic: Water Quality (shoreline change)

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Topic: Geology

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Location: System-Wide
Topic: Water Quality, Land-Use Effects (urbanization)

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Topic: Water Quality (nutrients)

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Topic: Water Quality (nutrients)

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Location: Craven County
Topic: Ground Water

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Topic: Ground Water

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Topic: Water Quality (sediments)

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Topic: Water Quality

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Topic: Water Quality

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Topic: Land-Use Effects (mining), Ground Water

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Topic: Land-Use Effects (wetlands)

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Topic: Land-Use Effects

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Location: Beaufort County
Topic: Water Quality (macrophytes)

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Topic: Water Quality

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Topic: Land-Use Effects (mining)

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Topic: Land-Use Effects (wetlands)

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Topic: Hydrology/Hydrodynamics

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Topic: Water Quality

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Topic: Land-Use Effects

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Topic: Land-Use Effects

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Topic: Land-Use Effects

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Topic: Water Quality (salinity)

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Location: Currituck Sound
Topic: Water Quality (macrophytes)

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Topic: Water Quality (macrophytes)

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Location: System-Wide
Topic: Hydrology/Hydrodynamics, Water Quality

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Topic: Water Quality (sediments)

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (agriculture)

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Location: Albemarle-Pamlico Peninsula
Topic: Water Quality (nutrients), Ground Water

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Location: System-Wide
Topic: Land-Use Effects, Water Quality (nutrients)

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Location: Pamlico River
Topic: Artificial Drainage, Hydrology/Hydrodynamics, Water Quality (nutrients)

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects, Artificial Drainage

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Topic: Land-Use Effects, Artificial Drainage

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects, Artificial Drainage

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Location: System-Wide
Topic: Water Quality (nutrients)

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Location: System-Wide
Topic: Hydrology/Hydrodynamics

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Location: Barrier Islands
Topic: Water Quality (sediments)

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Topic: Hydrology/Hydrodynamics, Land-Use Effects (wetlands)

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Location: Barrier Islands
Topic: Land-Use Effects

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Location: Bogue Sound
Topic: Water Quality (sediments)

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Location: Currituck Sound
Topic: Water Quality (shoreline change)

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Location: System-Wide
Topic: Water Quality

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Location: Offshore
Topic: Hydrology/Hydrodynamics

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (mining)

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Location: Neuse River
Topic: Water Quality (sediments)

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Location: Neuse River
Topic: Water Quality (sediments)

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Location: Roanoke River, Neuse River
Topic: Water Quality (phytoplankton)

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Location: System-Wide
Topic: Hydrology/Hydrodynamics

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Location: Barrier Islands
Topic: Water Quality (sediments)

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Location: System-Wide
Topic: Land-Use Effects

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (agriculture, wetlands)

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (wetlands), Artificial Drainage

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Location: Pamlico Sound
Topic: Hydrology/Hydrodynamics

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Location: Pamlico River
Topic: Geology, Water Quality (sediments, shoreline changes)

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Topic: Water Quality (sediments)

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Location: System-Wide
Topic: Hydrology/Hydrodynamics (meteorology)

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Location: System-Wide
Topic: Hydrology/Hydrodynamics (meteorology)

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Topic: Water Quality (nutrients, sediments)

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Location: Neuse River
Topic: Water Quality

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Topic: Hydrology/Hydrodynamics

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Topic: Ground Water

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Location: Barrier Islands
Topic: Ground Water

_____1967, Geology and ground-water resources of the Hertford-Elizabeth City area, North Carolina: Raleigh, Ground-Water Bulletin 10, North Carolina Department of Water Resources, 89 p.
Location: Pasquotank County
Topic: Ground Water

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Location: System-Wide
Topic: Land-Use Effects (wetlands), Artificial Drainage

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Location: Pamlico Sound
Topic: Water Quality (nutrients, phytoplankton)

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Location: Pamlico River
Topic: Water Quality (nutrients)

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Location: System-Wide
Topic: Water Quality (nutrients)

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Location: Pamlico River
Topic: Water Quality (nutrients)

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Location: Chowan River
Topic: Hydrology/Hydrodynamics

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Location: Pamlico River
Topic: Water Quality (sediments)

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Topic: Land-Use Effects (agriculture)

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Topic: Water Quality (macrophytes)

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Topic: Water Quality

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Location: System-Wide
Topic: Land-Use Effects (wetlands)

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Location: Barrier Islands
Topic: Hydrology/Hydrodynamics (meteorology)

Hayden, B., and others, 1979, Spatial and temporal analysis of shoreline variations: Coastal Engineering, v. 2, p. 351-361.
Location: Barrier Islands
Topic: Water Quality (shoreline change)

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Location: Beaufort County
Topic: Geology

Hazlet, D.C., 1938, Beach erosion control at Cape Hatteras, North Carolina: Geological Society of America Bulletin, v. 49, p. 1950.
Location: Barrier Islands
Topic: Water Quality (shoreline changes)

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Location: Chowan County
Topic: Land-Use Effects

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Location: Pungo River
Topic: Water Quality (sediments)

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects

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Location: System-Wide
Topic: Ground Water

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Location: Bogue Sound
Topic: Water Quality (sediments)

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Location: System-Wide
Topic: Land-Use Effects (urbanization)

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Topic: Water Quality

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Location: Barrier Islands
Topic: Water Quality (shoreline change)

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Location: Bogue Sound
Topic: Water Quality

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Topic: Hydrology/Hydrodynamics

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Location: Roanoke River
Topic: Water Quality, Hydrology/Hydrodynamics

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Location: Albemarle Sound, Neuse River
Topic: Water Quality

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Location: System-Wide
Topic: Hydrology/Hydrodynamics

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Location: System-Wide
Topic: Hydrology/Hydrodynamics

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Location: Pamlico Sound, Core Sound
Topic: Water Quality

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Location: Beaufort County
Topic: Land-Use Effects (mining)

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Location: Barrier Islands
Topic: Hydrology/Hydrodynamics

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Location: Barrier Islands, Pamlico Sound, Albemarle Sound, Core Sound
Topic: Hydrology/Hydrodynamics

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Location: Bogue Sound
Topic: Hydrology/Hydrodynamics

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Location: Pamlico River
Topic: Water Quality (nutrients)

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Location: Pamlico River
Topic: Water Quality (nutrients)

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Topic: Water Quality (salinity)

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Topic: Water Quality (phytoplankton)

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Location: Pamlico River
Topic: Water Quality (nutrients)

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Topic: Water Quality (nutrients)

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Location: System-Wide
Topic: Water Quality (nutrients)

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Topic: Water Quality (nutrients)

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Topic: Water Quality (nutrients)

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Location: Neuse River
Topic: Water Quality (nutrients)

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Location: System-Wide
Topic: Hydrology/Hydrodynamics

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Location: Washington County
Topic: Water Quality

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Location: Chowan River
Topic: Water Quality

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Location: Chowan River
Topic: Water Quality (nutrients)

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Location: Chowan River
Topic: Water Quality (point sources)

Holmes, R.N., 1977, Phosphorus cycling in an alluvial swamp forest in the North Carolina Coastal Plain: Greenville, unpublished M.S. thesis, East Carolina University, 92 p.
Location: Pitt County
Topic: Water Quality (nutrients)

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Topic: Hydrology/Hydrodynamics

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Location: Neuse River
Topic: Water Quality

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Location: Pamlico River
Topic: Hydrology/Hydrodynamics

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Location: Barrier Islands
Topic: Water Quality (shoreline changes)

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Location: Bogue Sound
Topic: Water Quality (phytoplankton)

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Location: Albemarle-Pamlico Peninsula
Topic: Artificial Drainage, Land-Use Effects

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Location: System-Wide
Topic: Water Quality

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Location: Neuse River
Topic: Water Quality (nutrients)

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Location: Chowan River
Topic: Land-Use Effects, Water Quality

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Location: System-Wide
Topic: Water Quality

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Location: Chowan River
Topic: Land-Use Effects

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Location: Chowan River
Topic: Land-Use Effects (agriculture)

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Location: Pamlico Sound
Topic: Water Quality (salinity)

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Location: Bogue Sound
Topic: Water Quality (sediments)

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Location: System-Wide
Topic: Water Quality (sediments)

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (mining)

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Location: Craven County, Jones County, Carteret County
Topic: Land-Use Effects (mining)

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Location: Dismal Swamp
Topic: Land-Use Effects (mining)

_____1981c, Peat in North Carolina wetlands, *in* Richardson, C.J., ed., Pocosin wetlands: Stroudsburg, Pennsylvania, Hutchinson Ross Publishing Co., p. 125-134.
Location: System-Wide
Topic: Land-Use Effects (mining)

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (mining)

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Topic: Water Quality

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Location: Pamlico River
Topic: Water Quality

_____1978, Annual report for research on the ecology of the Pamlico River Estuary, for the period September 1, 1977 - August 31, 1978: Greenville, North Carolina, East Carolina University, 19 p.
Location: Pamlico River
Topic: Water Quality

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Location: Pamlico River
Topic: Water Quality

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Location: Pamlico River
Topic: Water Quality

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Location: Pamlico River
Topic: Water Quality

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Location: Pamlico River
Topic: Water Quality

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Location: Chowan River
Topic: Hydrology/Hydrodynamics

_____1976, Magnitude and frequency of floods in North Carolina: U.S. Geological Survey Water-Resources Investigations Report 76-17, 26 p.
Location: System-Wide
Topic: Hydrology/Hydrodynamics

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects, Water Quality (nutrients)

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Location: Pamlico Sound
Topic: Hydrology/Hydrodynamics

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Location: Barrier Islands, Offshore
Topic: Hydrology/Hydrodynamics

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Location: Newport River
Topic: Water Quality (sediments)

Johnson, J.C., and Perdue, R.R., 1986, Marine recreational fishing, marine manufacturers, and marinas in North Carolina--an economic characterization: Raleigh, Report No. UNC-SG-WP-86-3, University of North Carolina Sea Grant College Program, North Carolina State University, 58 p.
Location: System-Wide
Topic: Land-Use Effects (urbanization)

Johnston, K.H., and Davis, J.R., 19??, Brackish-water investigations: Raleigh, unpublished report, Project F-13-R, Fisheries Research Investigations, North Carolina Wildlife Resources Commission, 21 p.
Location: Currituck Sound
Topic: Water Quality (salinity)

_____1963, Annual progress report--Currituck Sound investigations, March 7, 1962 to March 6, 1963: Raleigh, Project F-13-R, Fisheries Research Investigations, North Carolina Wildlife Resources Commission.
Location: Currituck Sound
Topic: Water Quality (salinity)

Jones, R.A., and Sholar, T.M., 1981, Effects of freshwater discharge on estuarine nursery areas of Pamlico Sound: Raleigh, Completion Report, Project CEIP 70-11, Division of Marine Fisheries Report No. 109, North Carolina Department of Natural Resources and Community Development, 60 p.
Location: Pamlico Sound
Topic: Artificial Drainage, Land-Use Effects

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Location: Pamlico River
Topic: Hydrology/Hydrodynamics

Jurgensen, M., 19??, Soil analysis of Texas Gulf sulfur effluent and Pamlico River bottom sediments: Aurora, North Carolina, unpublished report, Pamlico Marine Laboratory.
Location: Pamlico River
Topic: Water Quality (sediments, nutrients)

Kamprath, E.J., 1986, Nitrogen studies with corn on Coastal Plain soils: Raleigh, Technical Bulletin No. 282, North Carolina Agricultural Research Service, North Carolina State University, 15 p.
Location: System-Wide
Topic: Land-Use Effects

Kane, E.S., 1981, Swamp forest root systems--biomass distribution, nutrient content, and aspects of growth and mortality: Greenville, North Carolina, unpublished M.S. thesis, Department of Biology, East Carolina University, 94 p.
Location: Tar River
Topic: Water Quality

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Location: Pitt County
Topic: Land-Use Effects

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Location: System-Wide
Topic: Ground Water

_____1971, On the management of ground water in coastal aquifers: Ground Water, v. 9, no. 2, p. 12-20.
Location: System-Wide
Topic: Ground Water

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Location: Pamlico Sound
Topic: Geology

_____1974b, Physical and biogenic structures within three North Carolina Estuaries [abs.]: Southeastern Section, 23rd Annual Meeting, Geological Society of America, v. 6, no. 4, p. 370.
Location: Pamlico Sound, Albemarle Sound
Topic: Geology

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Location: Newport River
Topic: Hydrology/Hydrodynamics

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Location: Barrier Islands
Topic: Land-Use Effects

_____1901b, Report on a botanical survey of the Dismal Swamp region: Washington, D.C., Division of Botany, U.S. Department of Agriculture, v. 5, no. 6, p. 321-550.
Location: Dismal Swamp
Topic: Land-Use Effects (wetlands)

Kearson, L.L., 1971, Effects of stored pulp-mill waste releases upon Chowan River fishes: Raleigh, Division of Inland Fisheries, North Carolina Wildlife Resources Commission.
Location: Chowan River
Topic: Water Quality (point sources)

_____1976, Observations on the flora of Currituck Sound: Raleigh, North Carolina Wildlife Resources Commission, 30 p.
Location: Currituck Sound
Topic: Water Quality (macrophytes)

Kerr, W.C., 1884, The geology of Hatteras and the neighboring coasts: Bulletin of the Washington Philosophical Society, v. 6, p. 28-30.
Location: Barrier Islands
Topic: Geology

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Location: Neuse River
Topic: Water Quality (salinity)

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Location: Neuse River
Topic: Water Quality

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Location: Neuse River
Topic: Water Quality

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Location: Beaufort County
Topic: Geology

_____1965, Description of the Pungo River Formation in Beaufort County, North Carolina: Raleigh, Bulletin No. 79, North Carolina Division of Mineral Resources, 131 p.
Location: Beaufort County
Topic: Geology

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Location: Neuse River
Topic: Land-Use Effects (agriculture), Artificial Drainage

Kirk, P.W., ed., 1979, The Great Dismal Swamp: Charlottesville, Virginia, The University Press of Virginia.
Location: Dismal Swamp
Topic: Hydrology/Hydrodynamics, Water Quality, Land-Use Effects

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Location: System-Wide
Topic: Land-Use Effects (silviculture), Artificial Drainage

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Topic: Water Quality

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Location: Offshore
Topic: Water Quality (nutrients)

Knobel, L.L., 1985, Ground water quality data for the Atlantic Coastal Plain--New Jersey, Delaware, Maryland, Virginia, and North Carolina: U.S. Geological Survey Open-File Report 85-154.
Location: System-Wide
Topic: Ground Water

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Topic: Hydrology/Hydrodynamics

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Location: Currituck Sound
Topic: Water Quality (salinity, macrophytes)

_____1981a, Estimation of surface gravity-waves from subsurface pressure records for estuarine basins: Raleigh, Report No. UNC-SG-WP-81-6, University of North Carolina Sea Grant College Program, North Carolina State University, 18 p.
Location: Albemarle Sound
Topic: Hydrology/Hydrodynamics

_____1981b, Wind-wave climatology and wind-tides for Fort Raleigh wave-guage site: Raleigh, Report No. UNC-SG-WP-81-8, University of North Carolina Sea Grant College Program, North Carolina State University, 37 p.
Location: Offshore
Topic: Hydrology/Hydrodynamics

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Location: Barrier Islands
Topic: Water Quality (shoreline changes)

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Location: Barrier Islands, Offshore
Topic: Hydrology/Hydrodynamics

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Location: System-Wide
Topic: Water Quality (shoreline changes)

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Location: System-Wide
Topic: Geology

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (agriuclture, wetlands)

Kriz, G.J., 1972, Analog modeling to determine the fresh water availability on the Outer Banks of North Carolina: Raleigh, Report No. UNC-WRRI-72-64, Water Resources Research Institute, North Carolina State University, 88 p.
Location: Barrier Islands
Topic: Ground Water

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Location: Bertie County
Topic: Land-Use Effects (wetlands)

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Location: Pamlico River
Topic: Water Quality (nutrients)

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Location: Bogue Sound
Topic: Water Quality

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Location: Chowan River
Topic: Land-Use Effects, Water Quality (nutrients)

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Location: Albemarle-Pamlico Peninsula
Topic: Artificial Drainage

Kuenzler, E.J., Mozley, S., Paerl, H., and Witherspoon, A.M., 1980, Chowan River nuisance algal blooms and probable causes--a position paper prepared for the North Carolina Department of Natural Resources and Community Development: Raleigh, Water Resources Research Institute, North Carolina State University.
Location: Chowan River
Topic: Water Quality (phytoplankton)

Kuenzler, E.J., Mulholland, P.J., Ruley, L.A., and Sniffen, R.P., 1977, Water quality in North Carolina Coastal Plain streams and effects of channelization: Raleigh, Report No. UNC-WRRI-77-127, Water Resources Research Institute, North Carolina State University, 160 p.
Location: System-Wide
Topic: Artificial Drainage, Land-Use Effects

Kuenzler, E.J., Mulholland, P.J., Yarbro, L.A., and Smock, L.A., 1980, Distributions and budgets of carbon, phosphorus, iron and manganese in a floodplain swamp ecosystem: Raleigh, Report No. UNC-WRRI-80-157, Water Resources Research Institute, North Carolina State University, 234 p.
Location: System-Wide
Topic: Water Quality (nutrients)

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Location: Pamlico River
Topic: Water Quality (nutrients, phytoplankton)

Kuenzler, E.J., Stone, K.L., and Albert, D.B., 1982, Phytoplankton uptake and sediment release of nitrogen and phosphorus in the Chowan River, North Carolina: Raleigh, Report No. UNC-WRRI-82-186, Water Resources Research Institute, North Carolina State University, 148 p.
Location: Chowan River
Topic: Water Quality (nutrients, phytoplankton, sediments)

Lamar, W.L., 1945, Chemical character of surface waters of North Carolina, 1943-1944: Washington, D.C., U.S. Geological Survey, U.S. Department of the Interior, 14 p.
Location: System-Wide
Topic: Water Quality

Laney, F.B., and Wood, K.H., 1909, Bibliography of North Carolina geology, mineralogy and geography: Raleigh, North Carolina, Bulletin 18, Geologic and Economic Survey, 428 p.
Location: System-Wide
Topic: Geology, Land-Use Effects

Langfelder, J., French, T., McDonald, R., and Ledbetter, R., 1974, A historical review of some of North Carolina's coastal inlets: Raleigh, Report No. 74-1, Center for Marine and Coastal Studies, North Carolina State University, 43 p.
Location: System-Wide
Topic: Water Quality (shoreline changes)

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Location: System-Wide
Topic: Water Quality (shoreline changes)

_____1970, Coastal erosion in North Carolina: Journal of the Waterways and Harbors Division, American Society of Civil Engineers, v. 96, no. WW2, Paper 7306, p. 531-545.
Location: Barrier Islands
Topic: Water Quality (shoreline change)

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Location: Albemarle Sound, Pamlico Sound
Topic: Water Quality (nutrients)

Lapennas, P.P., 1980, Demographic patterns of phytoplankton species in a variable estuary: Durham, North Carolina, unpublished Ph.D. dissertation, Department of Botany, Duke University, 213 p.
Location: Neuse River
Topic: Water Quality (phytoplankton)

Lapham, J.E., Lyman, W.S., 1905, Soil survey of Perquimans and Pasquotank Counties, North Carolina: Washington, D.C., Bureau of Soils, U.S. Department of Agriculture, 22 p.
Location: Perquimans County, Pasquotank County
Topic: Land-Use Effects

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Location: Carteret County
Topic: Artificial Drainage

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Location: Pamlico River
Topic: Water Quality (nutrients)

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Location: Chowan River
Topic: Water Quality (nutrients)

Lee, W.D., 1955, The soils of North Carolina, their formation, identification, and use: Raleigh, Technical Bulletin 115, North Carolina Agricultural Experiment Station, 187 p.
Location: System-Wide
Topic: Land-Use Effects

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Location: Barrier Islands
Topic: Land-Use Effects

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Location: System-Wide
Topic: Land-Use Effects (wetlands)

Lichtler, W.F., and Walker, P.N., 1974, Hydrology of the Dismal Swamp, North Carolina-Virginia: U.S. Geological Survey Open-File Report 74-39, 50 p.
Location: Dismal Swamp
Topic: Hydrology/Hydrodynamics

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Location: System-Wide
Topic: Land-Use Effects

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Location: System-Wide
Topic: Land-Use Effects

Lindskov, K.L., 1973, Water resources of northeast North Carolina above Cape Lookout: U.S. Geological Survey Open-File Report, 71 p.
Location: System-Wide
Topic: Ground Water

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Location: System-Wide
Topic: Land-Use Effects (urbanization)

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Location: Roanoke River
Topic: Water Quality

Livermore, S., 1939, Early American land companies: London, Oxford University Press, 327 p.
Location: System-Wide
Topic: Land-Use Effects

Lloyd, O.B., Jr., 1968, Ground water resources of Chowan County, North Carolina: U.S. Geological Survey Hydrologic Investigations Atlas HA-292.
Location: Chowan County
Topic: Ground Water

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Location: Barrier Islands
Topic: Ground Water

Lloyd, O.B., Jr., and Floyd, E.D., 1968, Ground-water resources of the Belhaven area, North Carolina: Raleigh, Report No. 8, Division of Ground Water, North Carolina Department Water and Air Resources, 38 p.
Location: Beaufort County
Topic: Ground Water

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Location: System-Wide
Topic: Ground Water, Geology

Lloyd, O.B., Jr., and Wilder, H.B., 1968, Ground-water supply of Cape Hatteras National Seashore recreational area, North Carolina--Pt. 4, Fort Raleigh National Historic Site: Raleigh, Report on Investigation 5., Division of Ground Water, North Carolina Department Water and Air Resources, 19 p.
Location: Barrier Islands
Topic: Ground Water

Loftin, L.K., 1985, Water chemistry of the pocosins of the Croatan National Forest, Carteret, Craven, and Jones Counties, North Carolina: Greenville, unpublished M.S. thesis, Department of Geology, East Carolina University, 88 p.
Location: Carteret County, Craven County, Jones County
Topic: Water Quality, Land-Use Effects (wetlands)

Lohman, S.W., 1936, Geology and ground water resources of the Elizabeth City area, North Carolina: U.S. Geological Survey Water-Supply Paper 773-A, p. 1-57.
Location: Pasquotank County
Topic: Ground Water

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Location: System-Wide
Topic: Land-Use Effects (wetlands)

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (wetlands, silviculture, agriculture)

Lung, W., and Paerl, H.W., 1987, Modeling blue-green algal blooms in the lower Neuse River, North Carolina: Environmental Science and Technology.
Location: Neuse River
Topic: Water Quality (nutrients, phytoplankton)

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Location: System-Wide
Topic: Geology

Lynch, J.M., and Peacock, S.L., 1982a, Natural areas inventory of Hyde County, North Carolina: Raleigh, Report No. 28, Coastal Energy Impact Program, Office of Coastal Managemet, North Carolina Department of Natural Resources and Community Development, 211 p.
Location: Hyde County
Topic: Land-Use Effects

_____1982b, Natural areas inventory of Washington County, North Carolina: Raleigh, Report No. 30, Coastal Energy Impact Program, Office of Coastal Management, North Carolina Department of Natural Resources and Community Develpoment, 173 p.
Location: Washington County
Topic: Land-Use Effects

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Location: Chowan River
Topic: Water Quality (nutrients, phytoplankton)

MacNeil, B.D., 1952, The Neuse: Raleigh, Division of Water Resources and Engineering, North Carolina Department of Conservation and Development, nonpag.
Location: Neuse River
Topic: Water Quality

Maiola, J., and Tschetter, T., 1984, Social and economic impacts of coastal zone developement on the hard clam and oyster fisheries in North Carolina: Greenville, Report to the University of North Carolina Sea Grant College Program, Department of Sociology, Anthropology, and Economics, East Carolina University.
Location: System-Wide
Topic: Land-Use Effects

Maki, T.E., and others, 1980, Effects of stream channelization on bottomland and swamp forest ecosystems: Raleigh, Report No. UNC-WRRI-80-147, Water Resources Research Institute, North Carolina State University, 135 p.
Location: System-Wide
Topic: Artificial Drainage, Land-Use Effects (wetlands)

Mann, L.T., Jr., 1978, Public water supplies of North Carolina, a summary of water sources, use, treatment, and capacity of water supply systems: U.S. Geological Survey Water-Resources Investigations Report 78-16, 61 p.
Location: System-Wide
Topic: Water Quality

Manooch, C.S., III, 1973, Food habits of yearling and adult striped bass, Morone saxatillis (Walbaum), from Albemarle Sound, North Carolina: Chesapeake Science, v. 14, p. 73-86.
Location: Albemarle Sound
Topic: Water Quality

Marshall, H.L., 1974, Irregularly flooded marsh, *in* Odum, H.T., Copeland, B.J., and McMahan, E.A., eds., Coastal ecological systems of the United States: Washington, D.C., The Conservation Foundation, v. 2, p. 150-171.
Location: Pamlico Sound
Topic: Land-Use Effects (wetlands)

Marshall, M.D., 1976, Anadromous fisheries research program-Neuse River: Morehead City, Progress Report for Project AFCS-13-1, Division of Marine Fisheries, North Carolina Department of Natural Resources and Community Development, 70 p.
Location: Neuse River
Topic: Water Quality

Marshall, N., 1951, Hydrography of North Carolina marine waters, *in* Taylor, H.F., ed., Survey of marine fisheries of North Carolina: Chapel Hill, University of North Carolina, p. 1-76.
Location: Pamlico Sound, Albemarle Sound
Topic: Hydrology/Hydrodynamics, Water Quality (salinity)

Matson, E.A., and Brinson, M.M., 1982, Sulfate enrichment in bottom and sediment pore waters of the Neuse and Pamlico Estuaries of North Carolina [abs]: EOS, v. 63, p. 57.
Location: Neuse River, Pamlico River
Topic: Water Quality (sediments)

Matson, E.A., Brinson, M.M., Cahoon, D.D., and Davis, G.J., 1983, Biogeochemistry of the sediments of the Pamlico and Neuse River Estuaries, North Carolina: Raleigh, Report No. UNC-WRRI-83-191, Water Resources Research Institute, North Carolina State University, 103 p.
Location: Pamlico River, Neuse River
Topic: Water Quality (sediments)

Matson, E.A., Heath, J.K., Brinson, M.M., and Christian, R.R., 1983, Benthic metabolism in the Pamlico River Estuary, North Carolina [abs]: Estuaries, v. 6, p. 294.
Location: Pamlico River
Topic: Water Quality (sediments)

McAtee, W.L., 1919, Notes on the flora of Churches Island, North Carolina: Journal of the Elisha Mitchell Scientific Society, v. 35, p. 61-75.
Location: Barrier Islands
Topic: Land-Use Effects

McCoy, E.G., Davis, G.M., and Johnston, K.H., 1963, Laboratory studies of sedimentation rates of soil samples taken from the proposed oyster shell dredging area in eastern Albemarle Sound: Raleigh, North Carolina Wildlife Resources Commission, 31 p.
Location: Albemarle Sound
Topic: Water Quality (sediments)

McCoy, E.G., and Johnston, K.H., 1964, The effects of wind and salinity upon the sedimentation rates of soils from dredging sites in Albemarle Sound, North Carolina: Raleigh, North Carolina Wildlife Resources Commission.
Location: Albemarle Sound
Topic: Water Quality (sediments)

McCullough, M., 1984, North Carolina coastal water quality trends 1970-1984: Raleigh, Division of Coastal Management, North Carolina Department of Natural Resources and Community Development.
Location: System-Wide
Topic: Water Quality

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Topic: Water Quality (nutrients, salinity, point sources)

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Topic: Water Quality (nutrients)

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Topic: Land-Use Effects (mining), Ground Water

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Topic: Ground Water

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Topic: Water Quality

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Topic: Water Quality

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Topic: Water Quality

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Topic: Water Quality

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Location: System-Wide
Topic: Land-Use Effects (wetlands)

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Location: System-Wide
Topic: Land-Use Effects (wetlands, mining)

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Topic: Ground Water

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Topic: Hydrology/Hydrodynamics

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Topic: Land-Use Effects

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Topic: Land-Use Effects

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Topic: Land-Use Effects

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Topic: Ground Water

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Topic: Ground Water

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Topic: Land-Use Effects

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Topic: Land-Use Effects

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Topic: Land-Use Effects (wetlands), Artificial Drainage

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Topic: Water Quality

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Topic: Water Quality (sediments)

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Topic: Water Quality (sediments)

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Topic: Water Quality (sediments, shoreline changes)

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Topic: Geology

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Topic: Land-Use Effects, Water Quality

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Topic: Water Quality (invertebrates)

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Topic: Water Quality (invertebrates)

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Topic: Land-Use Effects

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Location: System-Wide
Topic: Geology

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Location: Barrier Islands
Topic: Geology

_____1967b, Stratigraphy of Atlantic Coastal Plain between Long Island and Georgia--review: Bulletin of the American Association of Petroleum Geologists, v. 51, no. 12, p. 2400-2429.
Location: System-Wide
Topic: Geology

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Location: System-Wide
Topic: Geology

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (wetlands)

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (wetlands)

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Location: System-Wide
Topic: Land-Use Effects (wetlands)

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Location: System-Wide
Topic: Water Quality (nutrients), Land-Use Effects (wetlands)

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Location: Hyde County
Topic: Land-Use Effects (wetlands), Hydrology/Hydrodynamics

Riggs, S.R., and O'Connor, M.P., 1974, Relict sediment deposits in a major transgressive coastal system: Raleigh, Report No. UNC-SG-74-04, University of North Carolina Sea Grant College Program, North Carolina State University, 37 p.
Location: Pamlico Sound
Topic: Geology

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Location: System-Wide
Topic: Geology

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Location: System-Wide
Topic: Geology

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Location: System-Wide
Topic: Land-Use Effects (urbanization, mining)

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Location: Dare County
Topic: Water Quality (sediments)

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Location: System-Wide
Topic: Water Quality

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Location: Neuse River
Topic: Hydrology/Hydrodynamics, Water Quality

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Topic: Geology

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Topic: Water Quality (sediments)

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Location: Pamlico Sound
Topic: Hydrology/Hydrodynamics

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Location: Pamlico Sound
Topic: Land-Use Effects, Water Quality (salinity)

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Location: Newport River
Topic: Water Quality (macrophytes)

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Location: Barrier Islands
Topic: Water Quality (shoreline changes)

Rulifson, R.A., 1985, Distribution and abundance of fishes in tributaries of South Creek Estuary, North Carolina: Journal of the Elisha Mitchell Scientific Society, v. 101, no. 2, p. 160-176.
Location: Neuse River
Topic: Water Quality

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Location: Beaufort County
Topic: Water Quality (invertebrates)

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Location: Chowan River
Topic: Water Quality (phytoplankton)

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Location: Pamlico River
Topic: Water Quality (point sources, phytoplankton)

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Location: System-Wide
Topic: Land-Use Effects (wetlands)

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Location: System-Wide
Topic: Land-Use Effects

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Location: Pamlico Sound
Topic: Water Quality

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Location: System-Wide
Topic: Land-Use Effects, Water Quality (salinity)

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Location: System-Wide
Topic: Water Quality

_____1973, Hydrographic atlas of North Carolina estuarine and sound waters, 1972: Raleigh, Report No. UNC-SG-73-12, University of North Carolina Sea Grant College Program, North Carolina State University, 132 p.
Location: System-Wide
Topic: Water Quality (salinity)

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Location: Barrier Islands
Topic: Geology

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Location: Dismal Swamp
Topic: Land-Use Effects (wetlands)

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Location: System-Wide
Topic: Land-Use Effects (wetlands)

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Location: System-Wide
Topic: Land-Use Effects

Shaw, S.P., and Fredine, C.G., 1956, Wetlands of the United States--their extent and their value to waterfowl and other wildlife: Washington, D.C., Circular 39, U.S. Fish and Wildlife Service, 67 p.
Location: System-Wide
Topic: Land-Use Effects (wetlands)

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Location: Pasquotank County
Topic: Land-Use Effects

Sheets, T.J., Jackson, M.D., and Phelps, L.D., 1970, Water monitoring system for pesticides in North Carolina: Raleigh, Report No. 19, Water Resources Research Institute, North Carolina State University, 59 p.
Location: System-Wide
Topic: Water Quality

Sherk, J.A. Jr., 1969, Effects of low levels of phosphate mining effluent on periphyton in controlled artificial estuaries: Raleigh, unpublished Ph.D dissertation, Department of Zoology, North Carolina State University, 82 p.
Location: Pamlico River
Topic: Water Quality (nutrients, phytoplankton)

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Location: System-Wide
Topic: Ground Water

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Location: System-Wide
Topic: Ground Water

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Location: Pamlico Sound
Topic: Water Quality (salinity)

Show, B.C., 1955, Effects of hurricanes on North Carolina beaches: Shore and Beach, v. 23, no. 2, p. 14-17.
Location: Barrier Islands
Topic: Water Quality (shoreline changes)

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Location: Pamlico River
Topic: Water Quality

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Location: Chowan River
Topic: Water Quality (nutrients)

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Location: System-Wide
Topic: Water Quality (sediment)

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Location: System-Wide
Topic: Water Quality (sediments)

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Location: Pitt County
Topic: Land-Use Effects, Artificial Drainage

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Location: System-Wide
Topic: Water Quality

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Location: Currituck Sound
Topic: Water Quality

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Location: Pamlico Sound
Topic: Hydrology/Hydrodynamics

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Location: System-Wide
Topic: Geology

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Location: System-Wide
Topic: Land-Use Effects, Hydrology/Hydrodynamics

_____1980, A water management model for artificially drained soils: Raleigh, Technical Bulletin No. 267, North Carolina Agricultural Research Service, North Carolina State University, 54 p.
Location: System Wide
Topic: Land-Use Effects, Hydrology/Hydrodynamics

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Location: Chowan River
Topic: Water Quality (nutrients)

Skaggs, R.W., and Gilliam, J.W., 1981, Effect of drainage system design and operation on nitrate transport: Transactions of the American Society of Agricultural Engineers, v. 24, no. 4, 929-934.
Location: Albemarle-Pamlico Peninsula
Topic: Hydrology/Hydrodynamics, Water Quality (nutrients)

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects, Water Quality

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Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects, Artificial Drainage

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Location: System-Wide
Topic: Land-Use Effects, Artificial Drainage

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Location: Core Sound
Topic: Water Quality (sediments)

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Location: System-Wide
Topic: Geology

Slowey, A., 1971, The effect of wind on beach erosion at Pea Island, North Carolina: Raleigh, unpublished M.S. thesis, North Carolina State University, 43 p.
Location: Barrier Islands
Topic: Water Quality (shoreline changes)

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Location: Pamlico Sound
Topic: Hydrology/Hydrodynamics

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Location: Offshore
Topic: Water Quality (phytoplankton)

Smith, C.N., Bailey, G.W., Leonard, R.A., and Langdale, G.W., 1978, Transport of agricultural chemicals from small upland Piedmont watersheds: Athens, Georgia, Report No. EPA-600/3-78-056, U.S. Environmental Protection Agency, 364 p.
Location: System-Wide
Topic: Water Quality

Smith, D.D., and Dolan, R.G., 1961, Complications in Barrier Island development along the Outer Banks of North Carolina: Geological Society of America Special Paper No. 68, 80 p.
Location: Barrier Islands
Topic: Geology

Smith, W.B., 1963, Survey and classification of the Chowan River and tributaries, North Carolina: Raleigh, Job 1-F, Project F-14-R, North Carolina Wildlife Resources Commission, 15 p.
Location: Chowan River
Topic: Water Quality

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Location: Perquimans River, Pasquotank River
Topic: Water Quality

Smith, W.B., and Bayless, J., 1964, Survey and classification of the Tar River and tributaries, North Carolina: Raleigh, Job I-L, Project F-14-4, North Carolina Wildlife Resources Commission.
Location: Tar River
Topic: Water Quality

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Location: Pitt County
Topic: Water Quality (sediments)

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Location: Pitt County
Topic: Water Quality

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Location: Neuse River
Topic: Geology

Sonu, C.J., and Van beek, J.L., 1971, Systematic beach changes on the Outer Banks, North Carolina: Journal of Geology, v. 79, no. 3, p. 416-425.
Location: Barrier Islands
Topic: Water Quality (shoreline changes)

Sopher, C.D., 1969, Factors affecting corn production on selected North Carolina Coastal Plain soils: Raleigh, unpublished Ph.D dissertation, Department of Soil Science, North Carolina State University.
Location: Washington County
Topic: Land-Use Effects

Spangler, W.B., 1950, Subsurface geology of the Atlantic Coastal Plain of North Carolina: Bulletin of the American Association of Petroleum Geologists, v. 34, no. 1, p. 100-132.
Location: System-Wide
Topic: Geology

Spinner, G.P., 1969, The wildlife wetlands and shellfish areas of the Atlantic coastal zone: American Geographical Society, Folio 18, Serial Atlas of the Marine Environment, nonpag.
Location: Barrier Islands
Topic: Land-Use Effects (wetlands)

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Location: System-Wide
Topic: Water Quality

Spitsbergen, D., and Wolff, M., 1974, Survey of nursery areas in western Pamlico Sound, North Carolina: Raleigh, Completion Report Project 2-175-R, Division of Marine Fisheries, North Carolina Department of Natural Resources and Economic Development, 80 p.
Location: Pamlico Sound
Topic: Land-Use Effects, Water Quality

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Location: Barrier Islands
Topic: Water Quality (shoreline changes)

_____1971, An aerial photographic technique for beach erosion surveys in North Carolina: Fort Belvoir, Virginia, Technical Memorandum 36, U.S. Army Coastal Engineering Research Center, 115 p.
Location: Barrier Islands
Topic: Water Quality (shoreline changes)

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Location: Neuse River
Topic: Water Quality

_____1982, Annual report for research on the ecology of the Pamlico River Estuary, 1981: Greenville, North Carolina, Institute for Coastal and Marine Resources, East Carolina University.
Location: Pamlico River
Topic: Water Quality

_____1983a, Nutrient cycling and phytoplankton growth in the Neuse River, North Carolina: Raleigh, Report No. UNC-WRRI-83-204, Water Resources Research Institute, North Carolina State University, 85 p.
Location: Neuse River
Topic: Water Quality (nutrients)

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Location: Pamlico River
Topic: Water Quality

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Location: Neuse River
Topic: Water Quality (nutrients)

_____1983d, Phytoplankton in the Pamlico River Estuary, 1982: Greenville, North Carolina, Project Completion Report to the North Carolina Phosphate Corporation, Institute for Coastal and Marine Resources, East Carolina University.
Location: Pamlico River
Topic: Water Quality (phytoplankton)

_____1984a, Phytoplankton in the Pamlico River Estuary, 1983: Greenville, North Carolina, Technical Report No. 84-01, Institute for Coastal and Marine Resources, East Carolina University, 335 p.
Location: Pamlico River
Topic: Water Quality (phytoplankton)

_____1984b, Water quality in the Pamlico River Estuary, 1983: Greenville, North Carolina, Technical Report No. 84-02, Institute for Coastal and Marine Resources, East Carolina University.
Location: Pamlico River
Topic: Water Quality

_____1985, Nationwide review of oxygen depletion and eutrophication in estuarine and coastal waters--southern region: Washington, D.C., Completion Report for Contract 186246-S, Ocean Assessment Division, National Ocean Survey, National Oceanic and Atmospheric Administration, 354 p.
Location: System-Wide
Topic: Water Quality

_____1986a, Water quality in the Pamlico River Estuary, 1984: Greenville, North Carolina, Technical Report 86-01, Institute for Coastal and Marine Resources, East Carolina University, 62 p.
Location: Pamlico River
Topic: Water Quality

_____1986b, Water quality in the Pamlico Estuary--a report to Texasgulf, Inc.: Greenville, North Carolina, Technical Report 86-04, Institute for Coastal and Marine Research, East Carolina University, 71 p.
Location: Pamlico River
Topic: Water Quality (nutrients)

_____1987, Water quality in the Pamlico River Estuary, 1986: Greenville, North Carolina, Technical Report 87-01, Institute for Coastal and Marine Resources, East Carolina University, 77 p.
Location: Pamlico River
Topic: Water Quality

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Location: Neuse River
Topic: Water Quality (nutrients)

_____1988b, Water quality in the Pamlico River Estuary, 1967-1986--a report to Texasgulf Chemicals Company: Greenville, North Carolina, ICMR Technical Report 88-01, Institute for Coastal and Marine Resources, East Carolina University, 199 p.
Location: Pamlico River
Topic: Water Quality

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Location: Neuse River
Topic: Water Quality (nutrients, phytoplankton)

_____1984, Nutrients in estuaries--research needs and priorities, *in* Copeland, B.J., Hart, K., Davis, N., and Friday, S., eds., Research for managing the nation's estuaries: Raleigh, Report No. UNC-SG-84-08, University of North Carolina Sea Grant College Program, North Carolina State University, p. 203-219.
Location: System-Wide
Topic: Water Quality (nutrients)

Stanley, D.W., and Daniel, D.A., 1985a, Seasonal phytoplankton density and biomass changes in South Creek, North Carolina: Journal of the Elisha Mitchell Scientific Society, v. 101, no. 2, p. 130-141.
Location: Pamlico River
Topic: Water Quality (phytoplankton)

_____1985b, Phytoplankton in the Pamlico River Estuary, 1984: Greenville, North Carolina, Technical Report No. 85-01, Institute for Coastal and Marine Resources, East Carolina University, 461 p.
Location: Pamlico River
Topic: Water Quality (phytoplankton)

_____1986, Phytoplankton ecology in the Pamlico River Estuary, N.C., 1985: Greenville, Technical Report No. 86-05, Institute for Coastal and Marine Resources, East Carolina University, 319 p.
Location: Pamlico Rvier
Topic: Water Quality (phytoplankton)

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Location: Chowan River
Topic: Water Quality (nutrients)

_____1981, Nitrogen cycling in a North Carolina coastal river: Limnology and Oceanography, v. 26, p. 30-42.
Location: Chowan River
Topic: Water Quality (nutrients)

Stearns, D., Ross, S.W., and Miller, J.M., 198_, Review and annotated bibliography of non-commercial invertebrates and associated environmental factors within the estuarine complex of western Pamlico Sound: Raleigh, Sea Grant Publication, University of North Carolina Sea Grant College Program, North Carolina State University.
Location: Pamlico Sound
Topic: Water Quality (invertebrates)

Stefansson, V., Atkinson, L.P., and Bumpus, D.F., 1971, Hydrographic properties and circulation of the North Carolina shelf and slope waters: Deep Sea Research, v. 18, p. 383-420.
Location: Offshore
Topic: Hydrology/Hydrodynamics

Stempfli, S., 1979, A preliminary assessment of the environmental impacts of peat mining in North Carolina: Durham, unpublished M.S. thesis, Duke University.
Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (mining)

Stephens, J.C., 1969, Peat and muck drainage problems: Journal of the Irrigation and Drainage Division, American Society of Civil Engineers, p. 285-305.
Location: Albemarle-Pamlico Peninsula
Topic: Artificial Drainage, Land-Use Effects (mining)

Stephenson, R., O'Rear, C., Jr., and Kornegay, W., 1975, Hydrography and nutrients in the Pamlico Estuary, January to June, 1975: Greenville, North Carolina, Institute for Coastal and Marine Resources, East Carolina University.
Location: Pamlico River
Topic: Hydrology/Hydrodynamics

Stick, D., 1958, The Outer Banks of North Carolina 1584-1958: Chapel Hill, The University of North Carolina Press, 352 p.
Location: Barrier Islands
Topic: Land-Use Effects

_____1982, Historical perspective of Albemarle Sound; *in* Albemarle Sound trends and management: Raleigh, Report No. UNC-SG-82-02, University of North Carolina Sea Grant College Program, North Carolina State University, p. 3-7.
Location: Albemarle Sound
Topic: Land-Use Effects

Stirewalt, G.L. and Ingram, R.L., 1974a, Shoreline changes along Pamlico Sound, North Carolina [abs.]: Geological Society of America Abstracts, v. 6, no. 4, p. 403.
Location: Pamlico Sound
Topic: Water Quality (shoreline changes)

_____1974b, Aerial photographic study of shoreline erosion and deposition, Pamlico Sound, North Carolina: Raleigh, Report No. UNC-SG-74-09, University of North Carolina Sea Grant College Program, North Carolina State University, 66 p.
Location: Pamlico Sound
Topic: Water Quality (shoreline changes)

Stiven, A.E., and Plotecia, R.K., 1976, Salt marsh primary productivity estimates for North Carolina coastal counties--projections from a regression model: Raleigh, Report No. UNC-SG-76-06, University of North Carolina Sea Grant College Program, North Carolina State University, 17 p.
Location: System-Wide
Topic: Land-Use effects (wetlands)

Stone, K.L., 1982, Kinetics of phosphorous uptake in the Chowan River, North Carolina: Chapel Hill, MSPH Report, Department of Environmental Sciences and Engineering, University of North Carolina, 89 p.
Location: Chowan River
Topic: Water Quality (nutrients)

Stratton, A.C., 1943, Reclaiming the North Carolina "Banks": Shore and Beach, v. 11, no. 2, p. 25-27, 32.
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Topic: Land-Use Effects

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Topic: Ground Water

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Topic: Water Quality (nutrients)

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Topic: Water Quality (nutrients), Artificial Drainage

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Hazel, J.E., 1975
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Watkins, S.A., and others, 1984
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Bertie County

Kuenzler, E.J., 1987
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Camden County

Perkins, S.O., and others, 1926

Carteret County

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Craven County

Duque, T.A., 1978
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Perkins, S.O., and others, 1926

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Chescheir, G.M., and others, 1986, 1987
Daniel, P.B., 1981
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Winner, M.D., 1975

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Lynch, J.M., and others, 1982a
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Ingram, R.L., and others, 1981a
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Lenoir County

Barnhill, W.L., 1977
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Miller, J.T., and others, 1937
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Pasquotank County

Harris, W.H., and others, 1967
Lapham, J.E., and others, 1905
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Perquimans County

Lapham, J.E., and others, 1905
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Brinson, M.M., and others, 1981
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