

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

**BIBLIOGRAPHY OF HYDROLOGIC AND WATER-QUALITY INVESTIGATIONS CONDUCTED IN OR
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By Jerad D. Bales and Thomas M. Nelson

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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.

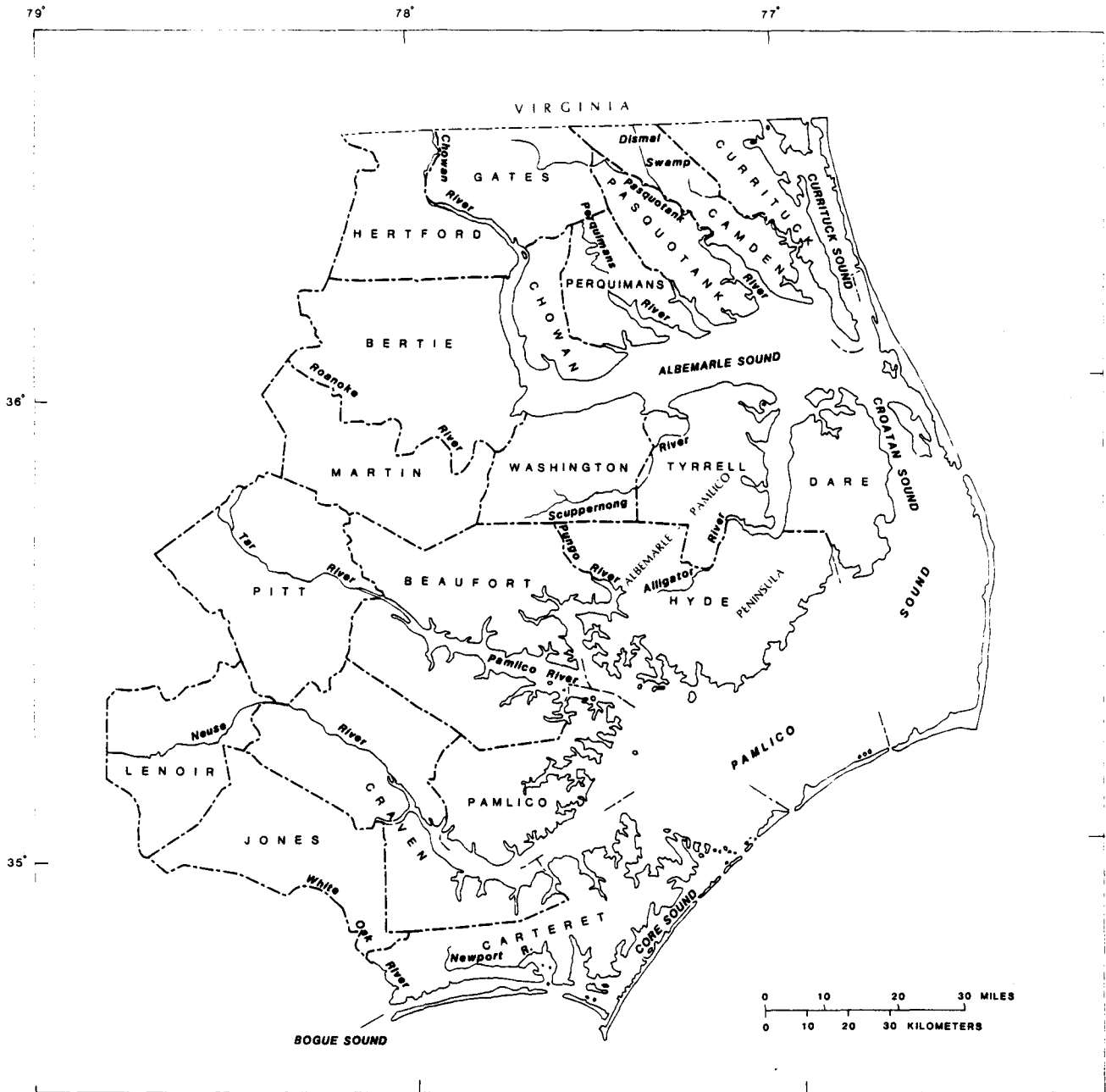


Figure 1.--The Albemarle-Pamlico Sounds region.

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, NRCO, 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 NRCO 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 NRCO 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, NRCO 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	

REFERENCES CITED

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

- 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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Location: System-Wide
Topic: Land-Use Effects (wetlands)
- 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)
- Allen, C., Corcoran, M., McDade, L., Travis, J., and Wheeler, D., 1979, An ecological survey of selected inland Dare county sites, with evaluation for conservation potential: Raleigh, Natural Heritage Program, North Carolina Department of Natural Resources and Community Development.
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.

- Allen, P.H., 1958, A tidewater swamp forest and succession after clearcutting: Durham, North Carolina, unpublished M.A. thesis, Duke University, 48 p.
Location: Albemarle-Pamlico Peninsula
Topic: Land-Use Effects (silviculture)
- Allgood, G.S., 1983, Nitrogen fixation and denitrification in the Pamlico River, North Carolina: Chapel Hill, M.S.P.H. Technical Report, Department of Environmental Sciences and Engineering, University of North Carolina.
Location: Pamlico River
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Topic: Water Quality (nutrients)
- Amein, M., and Wardick, S.G., 1975, A dynamic water quality model for the Neuse River Estuary, North Carolina: Raleigh, Report No. UNC-SG-75-28, University of North Carolina Sea Grant College Program, North Carolina State University, 62 p.
Location: Neuse River
Topic: Water Quality
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Topic: Land-Use Effects (urbanization)

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 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)
- Ashe, W.W., 1894, The forests, forest lands, and forest products of eastern North Carolina: North Carolina Geological Survey Bulletin No. 5, 128 p.
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 Topic: Water Quality
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 Topic: Water Quality (nutrients)
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 Topic: Water Quality
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 Topic: Water Quality (sediments, shoreline change)
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Location: Chowan River
Topic: Water Quality (macrophytes)
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Location: Barrier Islands
Topic: Water Quality (shoreline change)

- Bond, S., Cook, G., and Howells, D.H., 1977, Summary report, the Chowan River project: Raleigh, Water Resources Research Institute, North Carolina State University, 36 p.
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 Topic: Water Quality
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 Location: System-Wide
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 Location: System-Wide
 Topic: Land-Use Effects (wetlands, agriculture)
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 Location: System-Wide
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 Location: Currituck Sound
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 Topic: Water Quality (nutrients)

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- Boynton, W.R., Kemp, W.M., and Keefe, C.W., 1982, A comparative analysis of nutrients and other factors influencing estuarine productivity; *in* Kennedy, V.S., ed., Estuarine comparisons: New York, Academic Press, p. 69-90.
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 Topic: Water Quality (sediments)
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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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Topic: Water Quality (macrophytes)

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Location: System-Wide
Topic: Land-Use Effects (agriculture)
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Location: Currituck Sound
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Topic: Land-Use Effects (agriculture), Hydrology/Hydrodynamics

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 Topic: Water Quality (nutrients)
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 Topic: Hydrology/Hydrodynamics
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 Location: Pitt County
 Topic: Water Quality (invertebrates)
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 Topic: Land-Use Effects (agriculture, wetlands)
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 Topic: Land-Use Effects (agriculture, wetlands)
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 Topic: Land-Use Effects (wetlands)
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 Topic: Water Quality
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 Topic: Water Quality (salinity)
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 Topic: Water Quality (invertebrates)
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 Topic: Geology
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 Topic: Water Quality (shoreline changes)
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 Topic: Geology
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 Topic: Land-Use Effects
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 Location: Dismal Swamp
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 Location: Pamlico Sound
 Topic: Water Quality (invertebrates)
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 Topic: Water Quality
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 Topic: Water Quality, Land-Use Effects, Hydrology/Hydrodynamics

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 Topic: Water Quality, Land-Use Effects, Hydrology/Hydrodynamics
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 Topic: Land-Use Effects (wetlands)
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 Topic: Land-Use Effects, Water Quality (nutrients)
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 Topic: Land-Use Effects (silviculture)

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 Topic: Water Quality (invertebrates)
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 Location: System-Wide
 Topic: Land-Use Effects, Artificial Drainage
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 Topic: Land-Use Effects (mining)
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 Topic: Land-Use Effects

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 Location: System-Wide
 Topic: Land-Use Effects, Artificial Drainage
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 Topic: Land-Use Effects (wetlands)
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 Topic: Geology
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 Location: System-Wide
 Topic: Water Quality
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 Location: Albemarle-Pamlico Peninsula
 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: Land-Use Effects (mining, wetlands)
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 Topic: Water Quality (nutrients)
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 Topic: Water Quality
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 Topic: Water Quality (point sources)
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 Location: Barrier Islands
 Topic: Water Quality (shoreline change)
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 Location: Barrier Islands
 Topic: Water Quality (shoreline changes)

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 Topic: Water Quality (sediments)
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 Location: Barrier Islands
 Topic: Water Quality (shoreline change)
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 Location: Barrier Islands
 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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 Location: Craven County
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 Location: Tar River
 Topic: Water Quality

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 Location: Tar River
 Topic: Water Quality
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 Topic: Land-Use Effects (mining), Ground Water
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 Location: System-Wide
 Topic: Land-Use Effects (wetlands)
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 Location: Carteret County
 Topic: Land-Use Effects
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 Location: Beaufort County
 Topic: Water Quality (macrophytes)
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 Location: Currituck Sound
 Topic: Water Quality
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 Location: Albemarle-Pamlico Peninsula
 Topic: Land-Use Effects (mining)
- Galloway, G.E., 1978, Assessing man's impact on wetlands: Raleigh, Report No. 136, Water Resources Research Institute, North Carolina State University.
 Location: System-Wide
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 Location: Offshore, Barrier Islands
 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, Land-Use Effects
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 Topic: Water Quality (nutrients), Ground Water
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 Location: System-Wide
 Topic: Land-Use Effects, Water Quality (nutrients)
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 Topic: Land-Use Effects, Artificial Drainage
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 Location: System-Wide
 Topic: Water Quality
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Topic: Land-Use Effects (wetlands), Artificial Drainage

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Topic: Ground Water
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Location: System-Wide
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Topic: Water Quality
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Location: System-Wide
Topic: Land-Use Effects (wetlands)
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Topic: Hydrology/Hydrodynamics (meteorology)
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Topic: Water Quality (shoreline change)
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Location: Beaufort County
Topic: Geology
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Topic: Water Quality (shoreline changes)
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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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Location: Bogue Sound
Topic: Water Quality (sediments)
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Topic: Water Quality
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Topic: Water Quality (shoreline change)
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Topic: Water Quality
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Topic: Hydrology/Hydrodynamics

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 Topic: Water Quality, Hydrology/Hydrodynamics
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 Topic: Hydrology/Hydrodynamics
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 Topic: Hydrology/Hydrodynamics
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 Topic: Hydrology/Hydrodynamics

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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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 Topic: Water Quality
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 Location: Chowan River
 Topic: Water Quality (point sources)
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 Location: Pitt County
 Topic: Water Quality (nutrients)
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 Topic: Hydrology/Hydrodynamics
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 Location: Barrier Islands
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 Location: Bogue Sound
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 Topic: Artificial Drainage, Land-Use Effects
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 Topic: Water Quality
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 Location: Chowan River
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 Topic: Land-Use Effects

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Topic: Water Quality (salinity)
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Topic: Water Quality (sediments)
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Topic: Land-Use Effects (mining)
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Topic: Land-Use Effects (mining)
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Topic: Land-Use Effects (mining)
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Topic: Land-Use Effects (mining)
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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: Hydrology/Hydrodynamics
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Location: System-Wide
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Topic: Land-Use Effects, Water Quality (nutrients)

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 Topic: Hydrology/Hydrodynamics
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 Topic: Water Quality (salinity)
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 Topic: Water Quality (salinity)
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 Topic: Artificial Drainage, Land-Use Effects
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 Topic: Hydrology/Hydrodynamics
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 Location: Pamlico River
 Topic: Water Quality (sediments, nutrients)

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 Topic: Ground Water
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 Location: System-Wide
 Topic: Ground Water
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 Location: Pamlico Sound
 Topic: Geology
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 Topic: Geology
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 Topic: Hydrology/Hydrodynamics
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 Topic: Land-Use Effects

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Topic: Land-Use Effects (wetlands)
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Location: Chowan River
Topic: Water Quality (point sources)
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Topic: Water Quality (macrophytes)
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Location: Barrier Islands
Topic: Geology
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Topic: Water Quality (salinity)
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Topic: Water Quality
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Topic: Water Quality
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Topic: Geology
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 Location: Dismal Swamp
 Topic: Hydrology/Hydrodynamics, Water Quality, Land-Use Effects
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 Topic: Water Quality
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 Topic: Water Quality (nutrients)
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 Topic: Ground Water
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 Topic: Hydrology/Hydrodynamics
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 Topic: Hydrology/Hydrodynamics

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 Topic: Water Quality (shoreline changes)
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 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 (agriucture, wetlands)
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 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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 Topic: Land-Use Effects, Water Quality (nutrients)
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 Location: Albemarle-Pamlico Peninsula
 Topic: Artificial Drainage
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 Topic: Water Quality (phytoplankton)
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 Location: System-Wide
 Topic: Artificial Drainage, Land-Use Effects
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 Location: System-Wide
 Topic: Water Quality (nutrients)
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 Location: Pamlico River
 Topic: Water Quality (nutrients, phytoplankton)
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 Location: Chowan River
 Topic: Water Quality (nutrients, phytoplankton, sediments)

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 Location: System-Wide
 Topic: Water Quality
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 Location: System-Wide
 Topic: Geology, Land-Use Effects
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 Location: System-Wide
 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: Water Quality (shoreline change)
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 Location: Albemarle Sound, Pamlico Sound
 Topic: Water Quality (nutrients)
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 Location: Neuse River
 Topic: Water Quality (phytoplankton)
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 Location: Perquimans County, Pasquotank County
 Topic: Land-Use Effects
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 Location: Carteret County
 Topic: Artificial Drainage

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 Topic: Water Quality (nutrients)
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 Location: Chowan River
 Topic: Water Quality (nutrients)
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 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)
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 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
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 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
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 Location: System-Wide
 Topic: Land-Use Effects
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 Location: Chowan County
 Topic: Ground Water
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 Location: Barrier Islands
 Topic: Ground Water
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 Location: Beaufort County
 Topic: Ground Water
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 Location: System-Wide
 Topic: Ground Water, Geology
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 Location: Barrier Islands
 Topic: Ground Water
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 Location: Carteret County, Craven County, Jones County
 Topic: Water Quality, Land-Use Effects (wetlands)

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 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)
- Lyke, W.L., and Winner, M.D., Jr., 1986, Altitude of basement surface in the central Coastal Plain area of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 86-4082.
 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 Management, 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 Development, 173 p.
 Location: Washington County
 Topic: Land-Use Effects
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 Location: Chowan River
 Topic: Water Quality (nutrients, phytoplankton)
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 Location: Neuse River
 Topic: Water Quality

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 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)
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 Location: System-Wide
 Topic: Water Quality
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 Location: Albemarle Sound
 Topic: Water Quality
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 Topic: Water Quality (nutrients)
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 Topic: Water Quality
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 Topic: Water Quality (macrophytes)
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 Topic: Water Quality (invertebrates)
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 Topic: Water Quality (invertebrates)
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 Location: Barrier Islands
 Topic: Water Quality (invertebrates, sediments)
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 Location: System-Wide
 Topic: Hydrology/Hydrodynamics
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 Location: System-Wide
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 Topic: Land-Use Effects

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 Location: System-Wide
 Topic: Water Quality
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 Topic: Hydrology/Hydrodynamics, Water Quality
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 Location: System-Wide
 Topic: Land-Use Effects (wetlands)

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

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Topic: Land-Use Effects
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Location: System-Wide
Topic: Water Quality
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Topic: Water Quality (nutrients, phytoplankton)
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Topic: Ground Water
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Topic: Ground Water
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Location: Pamlico Sound
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Location: Barrier Islands
Topic: Water Quality (shoreline changes)
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Location: Pamlico River
Topic: Water Quality

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 Location: Pitt County
 Topic: Land-Use Effects, Artificial Drainage
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 Location: System-Wide
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 Location: Currituck Sound
 Topic: Water Quality
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 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

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 Location: System Wide
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 Location: Chowan River
 Topic: Water Quality (nutrients)
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 Topic: Hydrology/Hydrodynamics, Water Quality (nutrients)
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 Topic: Land-Use Effects, Water Quality
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 Topic: Land-Use Effects, Artificial Drainage
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 Location: System-Wide
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 Location: Core Sound
 Topic: Water Quality (sediments)
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 Location: System-Wide
 Topic: Geology
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 Location: Barrier Islands
 Topic: Water Quality (shoreline changes)

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Topic: Hydrology/Hydrodynamics
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Location: Offshore
Topic: Water Quality (phytoplankton)
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Location: System-Wide
Topic: Water Quality
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Location: Barrier Islands
Topic: Geology
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Location: Chowan River
Topic: Water Quality
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Topic: Water Quality
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Topic: Water Quality
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Topic: Water Quality (sediments)

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Location: Pitt County
Topic: Water Quality
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Location: Neuse River
Topic: Geology
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Location: Barrier Islands
Topic: Water Quality (shoreline changes)
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Location: Washington County
Topic: Land-Use Effects
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Location: System-Wide
Topic: Geology
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Location: Barrier Islands
Topic: Land-Use Effects (wetlands)
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Location: System-Wide
Topic: Water Quality
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Location: Pamlico Sound
Topic: Land-Use Effects, Water Quality
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Location: Barrier Islands
Topic: Water Quality (shoreline changes)

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Topic: Water Quality (shoreline changes)
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Location: Neuse River
Topic: Water Quality
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Topic: Water Quality
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Topic: Water Quality (nutrients)
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Topic: Water Quality
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Location: Neuse River
Topic: Water Quality (nutrients)
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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)
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Location: Pamlico River
Topic: Water Quality

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