

Bibliography on the Occurrence and Intrusion of Saltwater in Aquifers along the Atlantic Coast of the United States

Open-File Report 02-235

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By PAUL M. BARLOW and EMILY C. WILD

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FIGURE

1. Map showing selected areas along the Atlantic coast where saltwater has intruded into freshwater aquifers 2

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By Paul M. Barlow *and* Emily C. Wild

Abstract

Freshwater aquifers along the Atlantic coast of the United States are vulnerable to the intrusion of saltwater from saline waters that bound the aquifers along their seaward margins. Incidences of saltwater intrusion have been documented along the Atlantic coast for more than 100 years. This report provides a bibliography of published literature relating to the occurrence and intrusion of saltwater along the Atlantic coast of the United States, including all of the coastal States from Maine to Florida (including the coast of Florida along the Gulf of Mexico). The bibliography contains 549 references that date from 1896 to 2001. The bibliography contains references to books, journal articles, and government and other technical reports and maps that could be readily obtained through a scientific library. Conference papers and abstracts, unpublished manuscripts, publications in press, newspaper articles, consulting reports, and reports prepared by local or regional water companies or water districts are omitted from the bibliography.

INTRODUCTION

Freshwater aquifers along the Atlantic coast are among the most productive in the United States, supplying drinking water to an estimated 30 million people from Maine to Florida in 1995. These freshwater

aquifers are bounded at their seaward margins by saltwater. Under natural conditions, the seaward flow of freshwater prevents saltwater from encroaching coastal aquifers. Ground-water withdrawals, however, lower coastal water levels and can cause saltwater to be drawn landward and upward toward the points of withdrawal, a process called saltwater intrusion. Saltwater intrusion reduces ground-water storage and can lead to the abandonment of supply wells when concentrations of dissolved ions, such as chloride, in water withdrawn at the wells exceed drinking-water standards. Incidences of saltwater intrusion have been documented throughout the Atlantic coastal zone (fig. 1), in some cases dating back more than 100 years. The degree of saltwater intrusion along the coast varies widely, however, and is affected by the hydrogeologic setting, history of ground-water development, and sources of saline water within a particular area.

As part of its Ground-Water Resources Program, the U.S. Geological Survey (USGS) has undertaken an assessment of saltwater intrusion along the Atlantic coast of the United States. The assessment required a review of the extensive body of literature that has been published on the occurrence and intrusion of saltwater along the Atlantic coast. A product of this review was a bibliography of published literature on the subject. Although the focus of the literature review was saltwater intrusion, knowledge of the occurrence of saltwater in aquifers along the Atlantic coastal zone also is important for the monitoring and management of potential saltwater-intrusion problems.

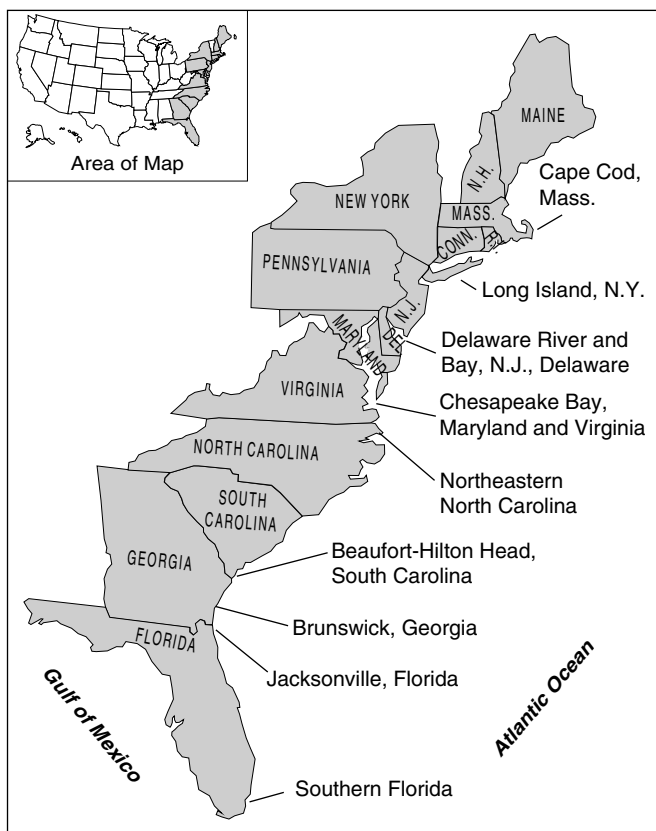


Figure 1. Selected areas along the Atlantic coast where saltwater has intruded into freshwater aquifers.

Purpose and Scope

The purpose of this report is to provide a bibliography of published literature relating to the occurrence and intrusion of saltwater along the Atlantic coast of the United States, including all of the coastal States from Maine to Florida. For completeness, the entire State of Florida is included in the bibliography, even though the western and northwestern coasts of the State lie along the Gulf of Mexico. References in this bibliography date from 1896 to 2001. The bibliography contains references to books, journal articles, and government and other technical reports and maps that could be readily obtained through a scientific library. Conference papers and abstracts, unpublished manuscripts, publications in press, newspaper articles, consulting reports, and reports prepared by local or regional water companies or water districts are omitted from the bibliography.

Approach

The bibliography was compiled from a number of sources. Initially, publications were obtained from reports previously prepared on the subject of saltwater intrusion by Krieger and others (1957), Cooper and others (1964), Feth (1965), Task Committee on Saltwater Intrusion (1969), Todd (1974), Newport (1977), Miller and others (1974, 1977), Reilly and Goodman (1985), Atkinson and others (1986), and Bear and others (1999). A bibliographic listing of reports prepared as part of the USGS Regional Aquifer-System Analysis (RASA) program by Sun and others (1997) also was reviewed. Computerized bibliographic searches then were done for each State by use of the earth-science database GeoRef (produced by the American Geological Institute), which is available from the Cambridge Scientific Abstracts (CSA) Internet Database Service through the USGS Library. These searches consisted of the keyword "salt-water intrusion" in combination with the particular State name. In addition, reports related to the occurrence and intrusion of saltwater listed in bibliographies on several of the USGS web pages for individual States were reviewed. The USGS web pages were accessed at <http://sn.water.usgs.gov/>, where sn is the two-letter State-name abbreviation (such as ma for Massachusetts). Bibliographies listed on a few State Geological Survey web pages also were reviewed; these bibliographies are cited in the respective State listings, with the exception of O'Neil and Lutz (2001) for Pennsylvania. Reference lists for individual reports were reviewed for additional sources of published information; those sources then were reviewed for inclusion in the bibliography. Finally, the draft bibliographic listings for individual States were reviewed by staff of the USGS and three State agencies for completeness and accuracy.

Criteria for selecting documents were relevance to the occurrence and intrusion of saltwater along the Atlantic coastal zone of the United States and availability of documents. Many of the annual data reports produced by the USGS for each State include water-quality data; those reports, however, are not listed in this bibliography. Information about USGS annual data reports for a particular State can be obtained from the USGS web page for that State.

Acknowledgments

The authors thank the U.S. Geological Survey staff who reviewed the bibliographic listings for individual States and contributed bibliographic references. We also thank the following people who reviewed the bibliographic listings for their respective State: Corinne Fitting, Connecticut Department of Environmental Protection; Scott Andres, Delaware Geological Survey; and David Drummond, Maryland Geological Survey. Staff of the U.S. Geological Survey in Reston, Virginia, were particularly helpful in providing the authors many reports for review.

BIBLIOGRAPHY

The bibliography is arranged alphabetically by State and then alphabetically by principal author; where more than one publication by the same author (or authors) is listed, the references are in chronological order. A "Regional Studies" section is provided before the State listings that includes references to reports that discuss the occurrence and intrusion of saltwater within three or more States. Reports that contain information for two States are listed for each of those States. Bibliographies are provided for Connecticut, Delaware, Florida, Georgia, Maine, Maryland, Massachusetts, New Jersey, New York, North Carolina, Rhode Island, South Carolina, and Virginia. No references were found to meet the selection criteria for New Hampshire or Pennsylvania.

Regional Studies

State abbreviations given in the brackets that follow each citation refer to the States covered in that particular citation, arranged from north to south; for example, "[NC-GA]" indicates that the report covers North Carolina, South Carolina, and Georgia.

Aucott, W.R., 1996, Hydrology of the Southeastern Coastal Plain aquifer system in South Carolina and parts of Georgia and North Carolina: U.S. Geological Survey Professional Paper 1410-E, 83 p. [NC-GA]

Back, William, 1966, Hydrochemical facies and ground-water flow patterns in northern part of Atlantic Coastal Plain: U.S. Geological Survey Professional Paper 498-A, 42 p. [NJ-VA]

Barksdale, H.C., Greenman, D.W., Lang, S.M., Hilton, G.S., and Outlaw, D.E., 1958, Ground-water resources in the tri-state region adjacent to the lower Delaware River: New Jersey Department of Conservation and Economic Development, Division of Water Policy and Supply Special Report 13, 190 p. [NJ-DE]

Bush, P.W., and Johnston, R.H., 1988, Ground-water hydraulics, regional flow, and ground-water development of the Floridan aquifer system in Florida and in parts of Georgia, South Carolina, and Alabama: U.S. Geological Survey Professional Paper 1403-C, 80 p. [SC-AL]

Cederstrom, D.J., Boswell, E.H., and Tarver, G.R., 1979, Summary appraisals of the Nation's ground-water resources—South Atlantic-Gulf Region: U.S. Geological Survey Professional Paper 813-O, 35 p. [VA-MS]

Cushing, E.M., Kantrowitz, I.H., and Taylor, K.R., 1973, Water resources of the Delmarva Peninsula: U.S. Geological Survey Professional Paper 822, 58 p. [DE-VA]

Darton, N.H., 1896, Artesian well prospects in the Atlantic Coastal Plain region: U.S. Geological Survey Bulletin 138, 232 p. [NY-GA]

Feth, J.H., and others, 1965, Preliminary map of the conterminous United States showing depth to and quality of shallowest ground water containing more than 1,000 parts per million dissolved solids: U.S. Geological Survey Hydrologic Investigations Atlas 199, 31 p. [ME-FL]

Foster, M.D., 1942, Base-exchange and sulphate reduction in salty ground waters along Atlantic and Gulf Coasts: Bulletin of the American Association of Petroleum Geologists, v. 26, no. 5, p. 838–851. [VA-SC]

Johnston, R.H., 1983, The saltwater-freshwater interface in the Tertiary limestone aquifer, southeast Atlantic outer-continental shelf of the U.S.A.: Journal of Hydrology, v. 61, p. 239–249. [SC-FL]

- Johnston, R.H., and Bush, P.W., 1988, Summary of the hydrology of the Floridan aquifer system in Florida and in parts of Georgia, South Carolina, and Alabama: U.S. Geological Survey Professional Paper 1403-A, 24 p. [SC-AL]
- Knobel, L.L., Chapelle, F.H., and Meisler, Harold, 1998, Geochemistry of the northern Atlantic Coastal Plain aquifer system: U.S. Geological Survey Professional Paper 1404-L, 57 p. [NY-NC]
- Krause, R.E., and Randolph, R.B., 1989, Hydrology of the Floridan aquifer system in southeast Georgia and adjacent parts of Florida and South Carolina: U.S. Geological Survey Professional Paper 1403-D, 65 p. [SC-FL]
- Leahy, P.P., and Martin, Mary, 1993, Geohydrology and simulation of ground-water flow in the northern Atlantic Coastal Plain aquifer system: U.S. Geological Survey Professional Paper 1404-K, 81 p. [NY-NC]
- Lee, R.W., 1984, Ground-water quality data from the Southeastern Coastal Plain, Mississippi, Alabama, Georgia, South Carolina, and North Carolina: U.S. Geological Survey Open-File Report 84-237, 20 p. [NC-MS]
- _____, 1985, Water-quality maps for selected Upper Cretaceous water-bearing zones in the Southeastern Coastal Plain: U.S. Geological Survey Water-Resources Investigations Report 85-4193, scale 1:2,000,000, 2 sheets. [SC-MS]
- _____, 1988a, Water-quality maps for the Middle Tertiary aquifer in the Southeastern Coastal Plain of Mississippi, Alabama, Georgia, and South Carolina: U.S. Geological Survey Water-Resources Investigations Report 86-4117, scale 1:2,000,000, 2 sheets. [SC-MS]
- _____, 1988b, Water-quality maps for the Upper Cretaceous and Lower Tertiary aquifer in the Southeastern Coastal Plain of Mississippi, Alabama, Georgia, South Carolina, and southeastern North Carolina: U.S. Geological Survey Water-Resources Investigations Report 86-4116, scale 1:2,000,000 2 sheets. [NC-MS]
- _____, 1993, Geochemistry of ground water in the Southeastern Coastal Plain aquifer system in Mississippi, Alabama, Georgia, and South Carolina: U.S. Geological Survey Professional Paper 1410-D, 72 p. [SC-MS]
- Lee, R.W., DeJarnette, S.S., and Barker, R.A., 1986, Distribution and altitude of the top of saline ground water in the Southeastern Coastal Plain: U.S. Geological Survey Water-Resources Investigations Report 85-4109, 1 sheet. [SC-MS]
- Lee, R.W., and Strickland, D.J., 1988, Geochemistry of groundwater in Tertiary and Cretaceous sediments of the Southeastern Coastal Plain in eastern Georgia, South Carolina, and southeastern North Carolina: Water Resources Research, v. 24, no. 2, p. 291-303. [NC-GA]
- Manheim, F.T., 1967, Evidence for submarine discharge of water on the Atlantic continental slope of the southern United States, and suggestions for further research: Transactions of the New York Academy of Sciences Series II, v. 29, no. 7, p. 839-853. [SC-FL]
- Manheim, F.T., and Horn, M.K., 1968, Composition of deeper subsurface waters along the Atlantic continental margin: Southeastern Geology, v. 9, no. 4, p. 215-236. [NY-FL]
- Manheim, F.T., and Paull, C.K., 1981, Patterns of groundwater salinity changes in a deep continental-oceanic transect off the southeastern Atlantic coast of the U.S.A.: Journal of Hydrology, v. 54, no. 1-3, p. 95-105. [SC-FL]
- Meisler, Harold, 1980, Preliminary delineation of salty ground water in the northern Atlantic Coastal Plain: U.S. Geological Survey Open-File Report 81-71, 37 p. [NJ-NC]
- _____, 1989, The occurrence and geochemistry of salty ground water in the northern Atlantic Coastal Plain: U.S. Geological Survey Professional Paper 1404-D, 51 p. [NY-NC]
- Miller, J.A., 1986, Hydrogeologic framework of the Floridan aquifer system in Florida and in parts of Georgia, South Carolina and Alabama: U.S. Geological Survey Professional Paper 1403-B, 91 p. [SC-AL]
- _____, 1990, Ground water atlas of the United States, Segment 6—Alabama, Florida, Georgia, South Carolina: U.S. Geological Survey Hydrologic Investigations Atlas 730-G, 28 p. [SC-AL]
- _____, 1992, Summary of the hydrology of the Southeastern Coastal Plain aquifer system in Mississippi, Alabama, Georgia, and South Carolina: U.S. Geological Survey Professional Paper 1410-A, 38 p. [SC-MS]

- Parker, G.G., Hely, A.G., Keighton, W.B., Olmsted, F.H., and others, 1964, Water resources of the Delaware River Basin: U.S. Geological Survey Professional Paper 381, 200 p. [NY-DE]
- Renken, R.A., 1996, Hydrogeology of the Southeastern Coastal Plain aquifer system in Mississippi, Alabama, Georgia, and South Carolina: U.S. Geological Survey Professional Paper 1410-B, 101 p. [SC-MS]
- Sanford, Samuel, 1911, Saline artesian waters of the Atlantic Coastal Plain: U.S. Geological Survey Water-Supply Paper 258, p. 75-86. [NY-FL]
- Sprinkle, C.L., 1982a, Chloride concentration in water from the upper permeable zone of the Tertiary limestone aquifer system, southeastern United States: U.S. Geological Survey Water-Resources Investigations Report 81-1103, 1 map, scale 1:1,000,000. [SC-FL]
- _____, 1982b, Dissolved-solids concentration in water from the upper permeable zone of the Tertiary limestone aquifer system, southeastern United States: U.S. Geological Survey Open-File Report 82-94, 1 map, scale 1:1,000,000. [SC-FL]
- _____, 1989, Geochemistry of the Floridan aquifer system in Florida and in parts of Georgia, South Carolina, and Alabama: U.S. Geological Survey Professional Paper 1403-I, 105 p. [SC-AL]
- Strickland, D.J., and Mahon, G.L., 1986, Altitude of the freshwater-saltwater interface in a regionally extensive Coastal Plain aquifer of Mississippi, Alabama, and Georgia: U.S. Geological Survey Water-Resources Investigations Report 86-4058, map, scale 1:2,000,000. [GA-MS]
- Stringfield, V.T., 1966, Artesian water in Tertiary limestone in the southeastern states: U.S. Geological Survey Professional Paper 517, 226 p. [SC-FL]
- Trapp, Henry, Jr., and Meisler, Harold, 1992, The regional aquifer system underlying the northern Atlantic Coastal Plain in parts of North Carolina, Virginia, Maryland, Delaware, New Jersey, and New York—Summary: U.S. Geological Survey Professional Paper 1404-A, 33 p. [NY-NC]
- Upton, J.E., 1966, Relationships of fresh and salty ground water in the northern Atlantic Coastal Plain of the United States, *in* Geological Survey Research 1966: U.S. Geological Survey Professional Paper 550-C, p. 235-243. [NY-MD]
- Wait, R.L., and Callahan, J.T., 1965, Relations of fresh and salty ground water along the southeastern U.S. Atlantic coast: *Ground Water*, v. 3, no. 4, p. 3-17. [NC-FL]

Connecticut

- Brown, J.S., 1922, Relation of sea water to ground water along coasts: *American Journal of Science*, v. 4, p. 274-294.
- _____, 1925, A study of coastal ground water with special reference to Connecticut: U.S. Geological Survey Water-Supply Paper 537, 101 p.
- _____, 1928, Ground water in the New Haven area, Connecticut: U.S. Geological Survey Water-Supply Paper 540, 206 p.
- Gregory, H.E., 1909, Underground water resources of Connecticut, with a study of the occurrence of water in crystalline rocks, by E.E. Ellis: U.S. Geological Survey Water-Supply Paper 232, 200 p.
- Handman, E.H., Grossman, I.G., Bingham, J.W., and Rolston, J.L., 1979, Major sources of ground-water contamination in Connecticut: U.S. Geological Survey Water-Resources Investigations Open-File Report 79-1069, 59 p.
- Mazzaferro, D.L., Handman, E.H., and Thomas, M.P., 1979, Water resources inventory of Connecticut, part 8, Quinnipiac River Basin: *Connecticut Water Resources Bulletin* 27, 88 p.
- Melvin, R.L., and Haeni, F.P., 1974, Map showing dissolved solids in streams and in ground water on the north coast of Long Island Sound, Connecticut: U.S. Geological Survey Open-File Report 74-313, 1 sheet.
- Rolston, J.L., Grossman, I.G., Potterton, R.S., Jr., and Handman, E.H., 1979, Places in Connecticut where ground water is known to have deteriorated in quality: U.S. Geological Survey Miscellaneous Field Studies, Map MF 981-G.
- Ryder, R.B., Cervione, M.A., Jr., Thomas, C.E., Jr., and Thomas, M.P., 1970, Water resources inventory of Connecticut, part 4, southwest coastal river basins: *Connecticut Water Resources Bulletin* 17, 54 p.
- Thomas, C.E., Jr., Cervione, M.A., Jr., and Grossman, I.G., 1968, Water resources inventory of Connecticut, part 3, lower Thames and southeastern coastal river basins: *Connecticut Water Resources Bulletin* 15, 105 p.

Wilson, W.E., Burke, E.L., and Thomas, C.E., Jr., 1974, Water resources inventory of Connecticut, part 5, lower Housatonic River Basin: Connecticut Water Resources Bulletin 19, 79 p.

Delaware

Groot, J.J., 1983, Salinity distribution and ground-water circulation beneath the Coastal Plain of Delaware and the adjacent Continental Shelf: Delaware Geological Survey Open-File Report 26, 24 p.

Hayes, M.A., Phillips, S.W., and Wheeler, J.C., 1998, Selected hydrogeologic and chloride-concentration data for the northern and central coastal area of New Castle County, Delaware: U.S. Geological Survey Open-File Report 95-766, 37 p.

Hodges, A.L., Jr., 1984, Hydrology of the Manokin, Ocean City, and Pocomoke aquifers of southeastern Delaware: Delaware Geological Survey Report of Investigations 38, 60 p.

Marine, I.W., and Rasmussen, W.C., 1955, Preliminary report on the geology and ground-water resources of Delaware: Delaware Geological Survey Bulletin 4, 336 p.

Miller, J.C., 1971, Ground-water geology of the Delaware Atlantic seashore: Delaware Geological Survey Report of Investigations 17, 33 p.

Phelan, D.J., 1987, Water levels, chloride concentrations, and pumpage in the coastal aquifers of Delaware and Maryland: U.S. Geological Survey Water-Resources Investigations Report 87-4229, 106 p.

Phillips, S.W., 1987, Hydrogeology, degradation of ground-water quality, and simulation of infiltration from the Delaware River into the Potomac aquifers, northern Delaware: U.S. Geological Survey Water-Resources Investigations Report 87-4185, 86 p.

Rasmussen, W.C., Groot, J.J., Martin, R.O.R., and McCarren, E.F., 1957, The water resources of northern Delaware: Delaware Geological Survey Bulletin 6, v. 1, 223 p.

Rasmussen, W.C., Wilkens, R.A., Beall, R.M., and others, 1960, Water resources of Sussex County, Delaware, with a section on salt-water encroachment at Lewes: Delaware Geological Survey Bulletin 8, 228 p.

Slaughter, T.H., 1962, Beach-area water supplies between Ocean City, Maryland, and Rehobeth Beach, Delaware: U.S. Geological Survey Water-Supply Paper 1619-T, 10 p.

Sundstrom, R.W., and Pickett, T.E., 1969, The availability of ground water in eastern Sussex County, Delaware: Newark, DE, University of Delaware, Water Resources Center, 136 p.

_____, 1971, The availability of ground water in New Castle County, Delaware: Newark, DE, University of Delaware, Water Resources Center, 156 p.

Sundstrom, R.W., and others, 1967, The availability of ground water from the Potomac Formation in the Chesapeake and Delaware Canal area, Delaware: Newark, DE, University of Delaware, Water Resources Center Special Water Study, 95 p.

Sundstrom, R.W., Pickett, T.E., and Varrin, R.D., 1976, Hydrology, geology, and mineral resources of the coastal zone of Delaware: Delaware Coastal Zone Management Program Technical Report 3, 245 p.

Talley, J.H., and Andres, A.S., 1987, Basic hydrologic data for coastal Sussex County, Delaware: Delaware Geological Survey Special Publication 14, 101 p.

Woodruff, K.D., 1969, The occurrence of saline ground water in Delaware aquifers: Delaware Geological Survey Report of Investigations 13, 45 p.

Florida

In addition to the sources of information described in the "Approach" section of this report, references on the occurrence and intrusion of saltwater in Florida were obtained from Claiborne and others (1983) and Florida Geological Survey (2002). Additional work on the occurrence and intrusion of saltwater in aquifers within the State of Florida has been done by the Florida Water Management Districts and by some of the county agencies.

Andersen, P.F., Mercer, J.W., and White, H.O., Jr., 1988, Numerical modeling of salt-water intrusion at Hallandale, Florida: *Ground Water*, v. 26, no. 5, p. 619–630.

Barnes, H.H., Jr., Meyer, F.W., and Hartwell, J.H., 1968, Some hydrologic effects of Canal 111 near Homestead, Florida: U.S. Geological Survey Open-File Report FL-68002, 17 p.

- Barr, D.E., Hayes, L.R., and Kwader, Thomas, 1985, Hydrology of the southern parts of Okaloosa and Walton Counties, northwest Florida, with special emphasis on the Upper Limestone of the Floridan aquifer: U.S. Geological Survey Water-Resources Investigations Report 84-4305, 66 p.
- Barr, G.L., 1996, Hydrogeology of the surficial and intermediate aquifer systems in Sarasota and adjacent counties, Florida: U.S. Geological Survey Water-Resources Investigations Report 96-4063, 81 p.
- Barracough, J.T., 1962, Ground-water resources of Seminole County, Florida: Florida Geological Survey Report of Investigations 27, 91 p.
- Barracough, J.T., and Marsh, O.T., 1962, Aquifers and quality of ground water along the Gulf Coast of western Florida: Florida Geological Survey Report of Investigations 29, 28 p.
- Bearden, H.W., 1972, Ground water in the Hallandale area, Florida: Florida Geological Survey Information Circular 77, 32 p.
- _____, 1974, Ground-water resources of the Hollywood area, Florida: Florida Geological Survey Report of Investigations 77, 35 p.
- Beaven, T.R., and Meyer, F.W., 1978, Record of wells in the Floridan aquifer in Dade and Monroe Counties, Florida: U.S. Geological Survey Open-File Report 78-881, 30 p.
- Bermes, B.J., Leve, G.W., and Tarver, G.R., 1963, Geology and ground-water resources of Flagler, Putnam, and St. Johns Counties, Florida: Florida Geological Survey Report of Investigations 32, 97 p.
- Bisdorf, R.J., and Zohdy, A.A.R., 1979, Geoelectric investigations with Schlumberger soundings near Venice, Parrish, and Homosassa, Florida: U.S. Geological Survey Open-File Report 79-841, 114 p.
- Black, A.P., Brown, Eugene, and Pearce, J.M., 1953, Salt water intrusion in Florida—1953: Florida State Board of Conservation, Division of Water Survey and Research Paper 9, 38 p.
- Bogges, D.H., 1973, The effects of plugging a deep artesian well on the concentration of chloride in water in the water-table aquifer at Highland Estates, Lee County, Florida: U.S. Geological Survey Open-File Report FL-73003, 20 p.
- _____, 1974a, Saline ground-water resources of Lee County, Florida: U.S. Geological Survey Open-File Report 74-247, 62 p.
- _____, 1974b, The shallow fresh-water system of Sanibel Island, Lee County, Florida, with emphasis on the sources and effects of saline water: Florida Bureau of Geology Report of Investigations 69, 52 p.
- Bogges, D.H., Missimer, T.M., and O'Donnell, T.H., 1977, Saline-water intrusion related to well construction in Lee County, Florida: U.S. Geological Survey Water-Resources Investigations Report 77-33, 29 p.
- Bradner, L.A., 1994, Ground-water resources of Okeechobee County, Florida: U.S. Geological Survey Water-Resources Investigations Report 92-4166, 41 p.
- Broska, J.C., and Knochenmus, L.A., 1996, Assessment of the hydrogeology and water quality in a near-shore well field, Sarasota, Florida: U.S. Geological Survey Water-Resources Investigations Report 96-4036, 64 p.
- Brown, D.P., 1980, Geologic and hydrologic data from a test-monitor well at Fernandina Beach, Florida: U.S. Geological Survey Open-File Report 80-347, 36 p.
- _____, 1982, Water resources and data-network assessment of the Manasota Basin, Manatee and Sarasota Counties, Florida: U.S. Geological Survey Water-Resources Investigations Report 82-37, 80 p.
- _____, 1983, Water resources of Manatee County, Florida: U.S. Geological Survey Water-Resources Investigations Report 81-74, 112 p.
- _____, 1984, Impact of development on availability and quality of ground water in eastern Nassau County, Florida, and southeastern Camden County, Georgia: U.S. Geological Survey Water-Resources Investigations Report 83-4190, 113 p.
- Brown, D.P., Johnson, R.A., and Baker, J.S., 1984, Hydrogeologic data from a test well at Kathryn Abbey Hanna Park, City of Jacksonville, Florida: U.S. Geological Survey Open-File Report 84-143, 41 p.
- Brown, D.P., Johnson, R.A., and Broxton, R.A., 1985, Hydrogeologic data from a test well in east-central Duval County, Florida: U.S. Geological Survey Open-File Report 84-802, 61 p.
- Brown, D.P., Miller, J.A., and Hayes, E.C., 1986, Hydrogeologic data from a test well near Ponte Vedra, northeast St. Johns County, Florida: U.S. Geological Survey Open-File Report 86-410W, 31 p.

- Brown, D.W., 1958, Changes in the chloride content of ground water in Pinellas County, Florida, between 1947 and 1956: Florida Geological Survey Information Circular 16, 11 p.
- Brown, D.W., Kenner, W.E., Crooks, J.W., and Foster, J.B., 1962, Water resources of Brevard County, Florida: Florida Geological Survey Report of Investigations 28, 104 p.
- Brown, R.H., and Parker, G.G., 1945, Saltwater encroachment in limestone at Silver Bluff, Miami, Florida: Economic Geology, v. 40, no. 4, p. 235–262.
- Causseaux, K.W., and Fretwell, J.D., 1982, Position of the saltwater-freshwater interface in the upper part of the Floridan aquifer, southwest Florida, 1979: U.S. Geological Survey Open-File Report 82-90, 1 sheet.
- _____, 1983, Chloride concentrations in the coastal margin of the Floridan aquifer, southwest Florida: U.S. Geological Survey Water-Resources Investigations Report 82-4070, 33 p.
- Cherry, R.N., 1966, Chloride content of ground water in Pinellas County, Florida, in 1950 and 1963: Florida Geological Survey, Florida Division of Geology Map Series 20, 1 sheet.
- Cooper, H.H., Jr., 1942a, Saltwater intrusion in the vicinity of Pensacola, Florida: U.S. Geological Survey Open-File Report FL-42003 (pages unknown).
- _____, 1942b, The possibility of saltwater intrusion in northeast Florida: U.S. Geological Survey Open-File Report FL-42004 (pages unknown).
- _____, 1959, A hypothesis concerning the dynamic balance of fresh water and salt water in a coastal aquifer: *Journal of Geophysical Research*, v. 64, no. 4, p. 461–467.
- Cooper, H.H., Jr., and Stringfield, V.T., 1950, Ground water in Florida: Florida Geological Survey Information Circular 3, 7 p.
- Crain, L.J., Hughes, G.H., and Snell, L.J., 1975, Water resources of Indian River County, Florida: Florida Geological Survey Report of Investigations 80, 75 p.
- Fairchild, R.W., and Bentley, C.B., 1977, Saline-water intrusion in the Floridan aquifer in the Fernandina Beach area, Nassau County, Florida: U.S. Geological Survey Water-Resources Investigations Report 77-32, 27 p.
- Fitterman, D.V., and Deszcz-Pan, Maryla, 1998, Helicopter EM mapping of saltwater intrusion in Everglades National Park, Florida: *Exploration Geophysics*, v. 29, p. 240–243.
- Fitterman, D.V., Deszcz-Pan, Maria, and Stoddard, C.E., 1999, Results of time-domain electromagnetic soundings in Everglades National Park, Florida: U.S. Geological Survey Open-File Report 99-426, 152 p.
- Fitzpatrick, D.J., 1982, Hydrologic data from monitoring of saline-water intrusion in the Cape Coral area, Lee County, Florida: U.S. Geological Survey Open-File Report 82-772, 48 p.
- _____, 1986, Hydrogeologic conditions and saline-water intrusion, Cape Coral, Florida, 1979–81: U.S. Geological Survey Water-Resources Investigations Report 85-4231, 31 p.
- Fretwell, J.D., 1983, Ground-water resources of coastal Citrus, Hernando, and southwestern Levy Counties, Florida: U.S. Geological Survey Water-Resources Investigations Report 83-4079, 87 p.
- _____, 1985, Water resources and effects of development in Hernando County, Florida: U.S. Geological Survey Water-Resources Investigations Report 84-4320, 83 p.
- Fretwell, J.D., and Stewart, M.T., 1981, Resistivity study of a coastal karst terrain, Florida: *Ground Water*, v. 19, no. 2, p. 156–162.
- Grantham, R.G., and Sherwood, C.B., 1968, Chemical quality of waters of Broward County, Florida: Florida Geological Survey Report of Investigations 51, 52 p.
- Guvanasen, Varut, Wade, S.C., and Barcelo, M.D., 2000, Simulation of regional ground water flow and salt water intrusion in Hernando County, Florida: *Ground Water*, v. 38, no. 5, p. 772–783.
- Hagemeyer, R.T., and Stewart, Mark, 1991, Resistivity investigation of salt-water intrusion near a major sea-level canal, *in*, Ward, S.H. (ed.), *Geotechnical and environmental geophysics*, v. II—Environmental and groundwater: Tulsa, OK, Society of Exploration Geophysicists, p. 67–77.
- Hanson, C.E., 1980, Freshwater resources of Big Pine Key, Florida: U.S. Geological Survey Open-File Report 80-447, 36 p.
- Heath, R. C., and Barraclough, J.T., 1954, Interim report on the ground-water resources of Seminole County, Florida: Florida Geological Survey Information Circular 5, 43 p.

- Heath, R.C., and Smith, P.C., 1954, Ground water resources of Pinellas County, Florida: Florida Geological Survey Report of Investigations 12, 139 p.
- Hickey, J.J., 1977, Hydrogeologic data for the McKay Creek subsurface waste-injection test site, Pinellas County, Florida: U.S. Geological Survey Open-File Report 77-802, 62 p.
- _____, 1979, Hydrogeologic data for the South Cross Bayou subsurface-injection test site, Pinellas County, Florida: U.S. Geological Survey Open-File Report 78-575, 87 p.
- _____, 1981, Hydrogeology, estimated impact, and regional well monitoring of effects of subsurface wastewater injection, Tampa Bay area, Florida: U.S. Geological Survey Water-Resources Investigations Report 80-118, 40 p.
- _____, 1982, Hydrogeology and results of injection tests at waste-injection test sites in Pinellas County, Florida: U.S. Geological Survey Water-Supply Paper 2183, 42 p.
- _____, 1989, Circular convection during subsurface injection of liquid waste, St. Petersburg, Florida: Water Resources Research, v. 25, no. 7, p. 1481–1494.
- _____, 1990, An assessment of the flow of variable-salinity ground water in the middle confining unit of the Floridan aquifer system, west-central Florida: U.S. Geological Survey Water-Resources Investigations Report 89-4142, 13 p.
- Hickey, J.J., and Barr, G.L., 1979, Hydrologic data for the Bear Creek subsurface-injection test site, St. Petersburg, Florida: U.S. Geological Survey Open-File Report 78-853, 53 p.
- Hickey, J.J., and Ehrlich, 1984, Subsurface injection of treated sewage into a saline-water aquifer at St. Petersburg, Florida—Water-quality changes and potential for recovery of injected sewage: Ground Water, v. 22, no. 4, p. 397–405.
- Hickey, J.J., and Spechler, R.M., 1979, Hydrologic data for the Southwest subsurface-injection test site, St. Petersburg, Florida: U.S. Geological Survey Open-File Report 78-852, 104 p.
- Hittle, C.D., 1999, Delineation of saltwater intrusion in the surficial aquifer system in eastern Palm Beach, Martin, and St. Lucie Counties, Florida, 1997–98: U.S. Geological Survey Water-Resources Investigations Report 99-4214, 1 sheet.
- Howie, Barbara, 1987, Chemical characteristics of water in the surficial aquifer system, Broward County, Florida: U.S. Geological Survey Water-Resources Investigations Report 86-4330, 2 sheets.
- Hoy, N.D., 1952, Two maps of Dade County, Florida, showing approximate position of the 1,000-PPM isochlor as of 1951 and approximate area of potential saltwater penetration under 1945 conditions: U.S. Geological Survey Open-File Report FL-52001, 2 sheets.
- Hoy, N.D., and others, 1951, Six cross sections and an index map of the Miami area, Florida, showing changes in the position of the salt front in the Biscayne aquifer from 1946 to 1950: U.S. Geological Survey Open-File Report FL-51002 (pages unknown).
- Hutchinson, C.B., 1983, Assessment of the interconnection between Tampa Bay and the Floridan aquifer, Florida: U.S. Geological Survey Water-Resources Investigations Report 82-54, 55 p.
- _____, 1992, Assessment of hydrogeologic conditions with emphasis on water quality and wastewater injection, Southwest Sarasota and West Charlotte Counties, Florida: U.S. Geological Survey Water-Supply Paper 2371, 74 p.
- Jacob, C.E., and Cooper, H.H., Jr., 1940, Report on the ground-water resources of the Pensacola area in Escambia County, Florida: U.S. Geological Survey Open-File Report FL-40001, 89 p.
- Johnston, R.H., Bush, P.W., Krause, R.E., Miller, J.A., and Sprinkle, C.L., 1982, Summary of hydrologic testing in Tertiary limestone aquifer, Tenneco offshore exploration well—Atlantic OCS, Lease-block 427 (Jacksonville NH 17-5): U.S. Geological Survey Water-Supply Paper 2180, 15 p.
- Joyner, B.F., and Sutcliffe, Horace, Jr., 1967, Saltwater contamination in wells in the Sara-Sands area on Siesta Key, Sarasota County, Florida: American Water Works Association Journal, v. 59, no. 12, p. 1504–1512.
- _____, 1976, Water resources of the Myakka River Basin area, southwest Florida: U.S. Geological Survey Water-Resources Investigations 76-58, 87 p.

- Katz, B.G., 1992, Hydrochemistry of the Upper Floridan aquifer, Florida: U.S. Geological Survey Water-Resources Investigations Report 91-4196, 37 p.
- Kaufman, M.I., and Dion, N.P., 1967, Chemical character of water in the Floridan aquifer in southern Peace River Basin, Florida: Florida Board of Conservation, Division of Geology Map Series 27, 1 sheet.
- Klein, Howard, 1954, Ground-water resources of the Naples area, Collier County, Florida: Florida Geological Survey Report of Investigations 11, 64 p.
- _____, 1957, Salt-water encroachment in Dade County, Florida: Florida Geological Survey Information Circular 9, 5 p.
- _____, 1965, Probable effect of Canal 111 on salt-water encroachment, southern Dade County, Florida: U.S. Geological Survey Open-File Report FL-65002, 26 p.
- _____, 1975, Depth to base of potable water in the Floridan aquifer: Florida Department of Natural Resources, Bureau of Geology Map Series 42 (revised), 1 sheet.
- Klein, Howard, and Ratzlaff, K.W., 1989, Changes in salt-water intrusion in the Biscayne aquifer, Hialeah-Miami Springs area, Dade County, Florida: U.S. Geological Survey Water-Resources Investigations Report 87-4249, 1 sheet.
- Klein, Howard, Schroeder, M.C., and Lichtler, W.F., 1964, Geology and ground-water resources of Glades and Hendry Counties, Florida: Florida Geological Survey Report of Investigations 37, 101 p.
- Klein, Howard, and Waller, B.G., 1985, Synopsis of saltwater intrusion in Dade County, Florida, through 1984: U.S. Geological Survey Water-Resources Investigations Report 85-4101, 1 sheet.
- Knochenmus, D. D., and Beard, M.E., 1971, Evaluation of the quantity and quality of the water resources of Volusia County, Florida: Florida Bureau of Geology Report of Investigations 57, 59 p.
- Knochenmus, L.A., and Swenson, E.S., 1996, Assessment of the fresh- and brackish-water resources underlying Dunedin and adjacent areas of northern Pinellas County, Florida: U.S. Geological Survey Water-Resources Investigations Report 96-4164, 47 p.
- Kohout, F.A., 1960a, Cyclic flow of salt water in the Biscayne aquifer of southeastern Florida: *Journal of Geophysical Research*, v. 65, no. 7, p. 2133–2141.
- _____, 1960b, Flow pattern of fresh and salt water in the Biscayne aquifer of the Miami area, Florida: *International Association of Scientific Hydrology Publication* 52, p. 440-448.
- _____, 1961a, Case history of salt water encroachment caused by a storm sewer in Miami: *American Water Works Association Journal*, v. 53, no. 11, p. 1408–1416.
- _____, 1961b, Fluctuations of ground-water levels caused by dispersion of salts: *Journal of Geophysical Research*, v. 66, no. 8, p. 2429–2434.
- _____, 1964, The flow of fresh water and salt water in the Biscayne aquifer of the Miami area, Florida: U.S. Geological Survey Water-Supply Paper 1613-C, p. 12–32.
- _____, 1965, A hypothesis concerning cyclic flow of salt water related to geothermal heating in the Floridan aquifer: *New York Academy of Sciences*, series II, v. 28, no. 2, p. 249–271.
- _____, 1967a, Ground-water flow and the geothermal regime of the Floridan Plateau: *Transactions of the Gulf Coast Association of Geological Societies*, v. 18, p. 339–354.
- _____, 1967b, Relation of seaward and landward flow of ground water to the salinity of Biscayne Bay at Miami, Florida: U.S. Geological Survey Open-File Report 67-136, 98 p.
- Kohout, F.A., Henry, H.R., and Banks, J.E., 1977, Hydrogeology related to geothermal conditions of the Floridan Pateau, *in* Smith, D.L., and Griffin, G.M., eds., *The geothermal nature of the Floridan Plateau*: Florida Geological Survey Special Publication 21, p. ix–41.
- Kohout, F.A., and Hoy, N.D., 1953, Research on salt-water encroachment in the Miami area, Florida: U.S. Geological Survey Open-File Report FL-53004, 20 p.
- Kohout, F.A., and Klein, Howard, 1967, Effect of pulse recharge on the zone of diffusion in the Biscayne aquifer: *International Association of Scientific Hydrology*, v. 70, p. 252–270.

- Konikow, L.F., and Reilly, T.E., 1999, Seawater intrusion in the United States, *in* Bear, Jacob, and others, eds., *Seawater intrusion in coastal aquifers—concepts, methods and practices*: Dordrecht, The Netherlands, Kluwer Academic Publishers, p. 463–506.
- Koszalka, E.J., 1995, Delineation of saltwater intrusion in the Biscayne aquifer, eastern Broward County, Florida, 1990: U.S. Geological Survey Water-Resources Investigations Report 93-4164, 1 sheet.
- Kruse, S.E., Brudzinski, M.R., and Geib, T.L., 1998, Use of electrical and electromagnetic techniques to map seawater intrusion near the Cross-Florida Barge Canal: *Environmental and Engineering Geoscience*, v. IV, no. 3, p. 331–340.
- Land, L.F., 1975, Effects of lowering interior canal stages on salt-water intrusion into the shallow aquifer in southeast Palm Beach County, Florida: U.S. Geological Survey Open-File Report 75-74, 59 p.
- Land, L.F., Rodis, H.G., and Schneider, J.J., 1973, Appraisal of the water resources of eastern Palm Beach County, Florida: Florida Geological Survey Report of Investigations 67, 64 p.
- Langevin, C.D., 2001, Simulation of ground-water discharge to Biscayne Bay, southeastern Florida: U.S. Geological Survey Water-Resources Investigations Report 00-4251, 127 p.
- Langevin, C.D., Stewart, M.T., and Beaudoin, C.M., 1998, Effects of sea water canals on fresh water resources—An example from Big Pine Key, Florida: *Ground Water*, v. 36, no. 3, p. 503–513.
- La Rose, H.R., 1990, Geohydrologic framework and an analysis of a well-plugging program, Lee County, Florida: U.S. Geological Survey Water-Resources Investigations Report 90-4063, 26 p.
- Leach, S.D., and Grantham, R.G., 1966, Salt-water study of the Miami River and its tributaries, Dade County, Florida: Florida Geological Survey Report of Investigations 45, 36 p.
- Leach, S.D., Klein, Howard, and Hampton, E.R., 1972, Hydrologic effects of water control and management of southeastern Florida: Florida Bureau of Geology Report of Investigations 60, 115 p.
- Lee, C.-H., and Cheng, R. T.-S., 1974, On seawater encroachment in coastal aquifers: *Water Resources Research*, v. 10, no. 5, p. 1039–1043.
- Leve, G.W., 1961a, Preliminary investigation of the ground-water resources of northeast Florida: Florida Geological Survey Information Circular 27, 28 p.
- _____, 1961b, Reconnaissance of the ground-water resources of the Fernandina area, Nassau County, Florida: Florida Geological Survey Information Circular 28, 24 p.
- _____, 1966, Ground water in Duval and Nassau Counties, Florida: Florida Geological Survey Report of Investigations 43, 91 p.
- _____, 1968, The Floridan aquifer in northeast Florida: *Ground Water*, v. 6, no. 2, p. 19–29.
- _____, 1975, Maps—(a) chloride concentration of water from the Floridan aquifer in northeastern Florida, May 1974—(b) hardness of water from the Floridan aquifer in northeastern Florida, May 1974, and—(c) potentiometric surface of the Floridan aquifer in northeastern Florida, May 1974: U.S. Geological Survey Open-File Report FL-75003, 3 sheets.
- _____, 1983, Relation of concealed faults to water quality and the formation of solution features in the Floridan aquifer, northeastern Florida, USA: *Journal of Hydrology*, v. 61, no. 1-3, p. 251–264.
- Leve, G.W., and Goolsby, D.A., 1967, Test hole in aquifer with many water-bearing zones at Jacksonville, Florida: *Ground Water*, v. 5, no. 4, p. 18–22.
- Lichtler, W.F., 1960, Geology and ground-water resources of Martin County, Florida: Florida Geological Survey Report of Investigations 23, 149 p.
- Lichtler, W.F., Anderson, Warren, and Joyner, B.F., 1968, Water resources of Orange County, Florida: Florida Geological Survey Report of Investigations 50, 150 p.
- Mahon, G.L., 1989, Potential for saltwater intrusion into the upper Floridan aquifer, Hernando and Manatee Counties, Florida: U.S. Geological Survey Water-Resources Investigations Report 88-4171, 47 p.
- Maslia, M.L., and Hayes, L.R., 1988, Hydrogeology and simulated effects of ground-water development of the Floridan aquifer system, southwest Georgia, northwest Florida, and southernmost Alabama: U.S. Geological Survey Professional Paper 1403-H, 71 p.

- McCoy, H.J., 1962, Ground-water resources of Collier County, Florida: Florida Geological Survey Report of Investigations 31, 82 p.
- McCoy, H.J., and Hardee, Jack, 1970, Ground-water resources of the lower Hillsboro Canal area, southeastern Florida: Florida Bureau of Geology Report of Investigations 55, 44 p.
- McKenzie, D.J., 1990, Water-resources potential of the freshwater lens at Key West, Florida: U.S. Geological Survey Water-Resources Investigations Report 90-4115, 24 p.
- Mercer, J.W., Lester, B.H., Thomas, S.D., and Bartel, R.L., 1986, Simulation of saltwater intrusion in Volusia County, Florida: Water Resources Bulletin, v. 22, no. 6, p. 951–965.
- Merritt, M.L., 1996a, Assessment of saltwater intrusion in southern coastal Broward County, Florida: U.S. Geological Survey Water-Resources Investigations Report 96-4221, 133 p.
- _____, 1996b, Numerical simulation of a plume of brackish water in the Biscayne aquifer originating from a flowing artesian well, Dade County, Florida: U.S. Geological Survey Water-Supply Paper 2464, 74 p.
- _____, 1997, Tests of subsurface storage of freshwater at Hialeah, Dade County, Florida, and numerical simulation of the salinity of recovered water: U.S. Geological Survey Water-Supply Paper 2431, 114 p.
- Metz, P.A., and Brendle, D.L., 1996, Potential for water-quality degradation of interconnected aquifers in west-central Florida: U.S. Geological Survey Water-Resources Investigations Report 96-4030, 54 p.
- Meyer, F.W., 1971, Saline artesian water as a supplement: American Water Works Association Journal, v. 63, no. 2, p. 65–71.
- _____, 1972, Preliminary evaluation of infiltration from the Miami Canal to well fields in the Miami Springs-Hialeah area, Dade County, Florida: U.S. Geological Survey Open-File Report FL-72027, 84 p.
- _____, 1988, Summary of well construction, testing, and preliminary findings from the Alligator Alley test well, Broward County, Florida: U.S. Geological Survey Open-File Report 87-551, 68 p.
- _____, 1989, Hydrogeology, ground-water movement, and subsurface storage in the Floridan aquifer system in southern Florida: U.S. Geological Survey Professional Paper 1403-G, 59 p.
- Miller, J.A., 1997, Hydrology of Florida, in Randazzo, A.F., and Jones, D.S., eds., The geology of Florida: Gainesville, FL, University Press of Florida, p. 69–88.
- Mills, L.R., and Ryder, P.D., 1977, Saltwater intrusion in the Floridan aquifer, coastal Citrus and Hernando Counties, Florida, 1975: U.S. Geological Survey Water-Resources Investigations Report, 77-100, 1 sheet.
- Murry, L.C., Jr., and Halford, K.F., 1996, Hydrogeologic conditions and simulation of ground-water flow in the greater Orlando metropolitan area, east-central Florida: U.S. Geological Survey Water-Resources Investigations Report 96-4181, 100 p.
- Navoy, A.S., and Bradner, L.A., 1987, Ground-water resources of Flagler County, Florida: U.S. Geological Survey Water-Resources Investigations Report 87-4021, 45 p.
- Odum, J.K., Stephenson, W.J., Williams, R.A., Pratt, T.L., Toth, D.J., and Spechler, R.M., 1999, Shallow high-resolution seismic-reflection imaging of karst structures within the Floridan aquifer system, northeastern Florida: Journal of Environmental and Engineering Geophysics, v. 4, issue 4, p. 251–261.
- Panday, Sorab, Huyakorn, P.S., Robertson, J.B., and McGurk, Brian, 1993, A density-dependent flow and transport analysis of the effects of groundwater development in a freshwater lens of limited areal extent—the Geneva area (Florida, USA) case study: Journal of Contaminant Hydrology, v. 12, no. 4, p. 329–354.
- Parker, G.G., 1945a, Saltwater encroachment in southern Florida: Journal of the American Water Works Association, v. 37, no. 6, p. 526–542.
- _____, 1945b, The effect of Pleistocene epoch on the geology and ground water of southern Florida: Florida Academy of Sciences Journal, v. 8, no. 2, p. 119–143.
- _____, 1951, Geologic and hydrologic factors in the perennial yield of the Biscayne aquifer: American Water Works Association Journal, v. 43, no. 10, p. 817-834.
- Parker, G.G., Ferguson, G.E., and Love, S.K., 1944, Interim report on the investigations of water resources in southeastern Florida with special reference to the Miami area in Dade County: Florida Geological Survey Report of Investigations 4, 39 p.

- Parker, G.G., Ferguson, G. E., Love, S. K., and others, 1955, Water resources of southeastern Florida with special reference to the geology and ground water of the Miami area: U.S. Geological Survey Water-Supply Paper 1255, 965 p.
- Pascale, C.A., 1974, Water resources of Walton County, Florida: Florida Geological Survey Report of Investigations 76, 65 p.
- Pascale, C.A., and Wagner, J.R., 1982, Water resources of the Ochlockonee River area, northwest Florida: U.S. Geological Survey Water-Resources Investigations Report 81-1121, 114 p.
- Peek, H.M., 1958, Ground-water resources of Manatee County, Florida: Florida Geological Survey Report of Investigations 18, 99 p.
- _____, 1959, The artesian water of the Ruskin area of Hillsborough County, Florida: Florida Geological Survey Report of Investigations 21, 96 p.
- Peek, H.M., and Anders, R.B., 1955, Interim report on the ground-water resources of Manatee County, Florida: Florida Geological Survey Information Circular 6, 38 p.
- Phelps, G.G., 2001, Geochemistry and origins of mineralized waters in the Floridan aquifer system, northeastern Florida: U.S. Geological Survey Water-Resources Investigations Report 01-4112, 64 p.
- Phelps, G.G., and Rohrer, K.P., 1987, Hydrogeology in the area of a freshwater lens in the Floridan aquifer system, northeast Seminole County, Florida: U.S. Geological Survey Water-Resources Investigations Report 86-4078, 74 p.
- Phelps, G.G., and Schiffer, D.M., 1996, Geohydrology and potential for upward movement of saline water in the Cocoa well field, east Orange County, Florida: U.S. Geological Survey Open-File Report 95-736, 38 p.
- Phelps, G.G., and Spechler, R.M., 1997, The relation between hydrogeology and water quality of the lower Floridan aquifer in Duval County, Florida, and implications for monitoring movement of saline water: U.S. Geological Survey Water-Resources Investigations Report 96-4242, 58 p.
- Pitt, W.A.J., Jr., Meyer, F.W., and Hull, J.E., 1977, Disposal of saltwater during well construction—Problems and solutions: *Ground Water*, v. 15, no. 4, p. 276–283.
- Planert, Michael, and Aucott, W.R., 1985, Water-supply potential of the Floridan aquifer in Osceola, eastern Orange, and southwestern Brevard Counties, Florida: U.S. Geological Survey Water-Resources Investigations Report 84-4135, 69 p.
- Reese, R.S., 1994, Hydrogeology and the distribution and origin of salinity in the Floridan aquifer system, southeastern Florida: U.S. Geological Survey Water-Resources Investigations Report 94-4010, 56 p.
- _____, 2000, Hydrogeology and the distribution of salinity in the Floridan aquifer system, southwestern Florida: U.S. Geological Survey Water-Resources Investigations Report 98-4253, 86 p.
- Reese, R.S., and Memberg, S.J., 2000, Hydrogeology and the distribution of salinity in the Floridan aquifer system, Palm Beach County, Florida: U.S. Geological Survey Water-Resources Investigations Report 99-4061, 52 p.
- Reichenbaugh, R.C., 1972, Sea-water intrusion in the upper part of the Floridan aquifer in coastal Pasco County, Florida, 1969: Florida Bureau of Geology Map Series 47, 1 sheet.
- Rodis, H.G., 1973, Encroaching salt water in northeast Palm Beach County, Florida: Florida Bureau of Geology Map Series 59, 1 sheet.
- Ruppel, C., Schultz, G., and Kruse, S., 2000, Anomalous fresh water lens morphology on a strip barrier island: *Ground Water*, v. 38, no. 6, p. 872–881.
- Rutledge, A.T., 1985, Ground-water hydrology of Volusia County, Florida, with emphasis on occurrence and movement of brackish water: U.S. Geological Survey Water-Resources Investigations Report 84-4206, 84 p.
- Ryder, P.D., 1985, Hydrology of the Floridan aquifer system in west-central Florida: U.S. Geological Survey Professional Paper 1403-F, 63 p.
- Ryder, P.D., and Mahon, G.L., 1988, Potential for saltwater intrusion into the Upper Floridan aquifer, Hernando County, Florida, *in* Subitzky, Seymour, ed., Selected papers in the hydrologic sciences, 1987: U.S. Geological Survey Water-Supply Paper 2330, p. 97–114.
- Sacks, L.A., Herman, J.S., and Kauffman, S.J., 1995, Controls on high sulfate concentrations in the Upper Floridan aquifer in southwest Florida: *Water Resources Research*, v. 31, no. 10, p. 2541–2551.

- Sacks, L.A., and Tihansky, A.B., 1996, Geochemical and isotopic composition of ground water, with emphasis on sources of sulfate, in the Upper Floridan aquifer and intermediate aquifer system in southwest Florida: U.S. Geological Survey Water-Resources Investigations Report 96-4146, 54 p.
- Sanford, W.E., Whitaker, F.F., Smart, P.L., and Jones, Gareth, 1998, Numerical analysis of seawater circulation in carbonate platforms—I. Geothermal convection: *American Journal of Science*, v. 298, p. 801–828.
- Schiner, G.R., 1993, Geohydrology of Osceola County, Florida: U.S. Geological Survey Water-Resources Investigations Report 92-4076, 68 p.
- Schiner, G.R., Laughlin, C.P., and Toth, D.J., 1988, Geohydrology of Indian River County, Florida: U.S. Geological Survey Water-Resources Investigations Report 88-4073, 110 p.
- Schmerge, D.L., 2001, Distribution and origin of salinity in the surficial and intermediate aquifer systems, southwestern Florida: U.S. Geological Survey Water-Resources Investigations Report 01-4159, 41 p.
- Schroeder, M.C., Klein, Howard, and Hoy, N.D., 1958, Biscayne aquifer of Dade and Broward Counties, Florida: Florida Geological Survey Report of Investigations 17, 56 p.
- Scott, W.B., Land, L.F., and Rodis, H.G., 1977, Saltwater intrusion in the shallow aquifer in Palm Beach and Martin Counties, Florida: U.S. Geological Survey Water-Resources Investigations Report 76-135, 1 sheet.
- Segol, Genevieve, and Pinder, G.F., 1976, Transient simulation of saltwater intrusion in southeastern Florida: *Water Resources Research*, v. 12, no. 1, p. 65–70.
- Shampine, W.J., 1965, Chloride concentration in water from the upper part of the Floridan aquifer in Florida: Florida Department of Natural Resources, Bureau of Geology Map Series 12, 1 sheet (revised 1975).
- Sharma, Anupma, Kashyap, Deepak, and Asawa, G.L., 2001, New MOC model of seawater transport in coastal aquifers: *Journal of Hydrologic Engineering*, v. 6, no. 5, p. 382–396.
- Sherwood, C.B., 1959, Ground-water resources of the Oakland Park area of eastern Broward County, Florida: Florida Geological Survey Report of Investigations 20, 40 p.
- Sherwood, C.B., and Klein, Howard, 1961, Ground-water resources of northwestern Collier County, Florida: Florida Geological Survey Report of Investigations 29, 44 p.
- _____, 1963, Saline ground water in southern Florida: *Ground Water*, v. 1, no. 2, p. 4–8.
- Sherwood, C.B., McCoy, H.J., and Galliher, C.F., 1973, Water resources of Broward County, Florida: Florida Geological Survey Report of Investigations 65, 141 p.
- Sinclair, W.C., 1979, Test data from the chloride-monitor well at Sun City Center, Hillsborough County, Florida: U.S. Geological Survey Open-File Report 78-1030, 20 p.
- Smith, C.A., Lidz, Lauralee, and Meyer, F.W., 1982, Data on selected deep wells in south Florida: U.S. Geological Survey Open-File Report 82-348, 144 p.
- Sonenshein, R.S., 1997, Delineation and extent of saltwater intrusion in the Biscayne aquifer, eastern Dade County, Florida, 1995: U.S. Geological Survey Water-Resources Investigations Report 96-4285, 1 sheet.
- Sonenshein, R.S., and Koszalka, E.J., 1996, Trends in water-table altitude (1984–93) and saltwater intrusion (1974–93) in the Biscayne aquifer, Dade County, Florida: U.S. Geological Survey Open-File Report 95-705, 2 sheets.
- Sonntag, W.H., 1987, Chemical characteristics of water in the surficial aquifer system, Dade County, Florida: U.S. Geological Survey Water-Resources Investigations Report 87-4080, 42 p.
- Spechler, R.M., 1994, Saltwater intrusion and quality of water in the Floridan aquifer system, northeastern Florida: U.S. Geological Survey Water-Resources Investigations Report 92-4174, 76 p.
- _____, 1995, Estimated discharge and chemical-constituent loading from the Upper Floridan aquifer to the Lower St. Johns River, northeastern Florida, 1990–91: U.S. Geological Survey Water-Resources Investigations Report 94-4132, 32 p.
- _____, 2001, The relation between structure and saltwater intrusion in the Floridan aquifer system, northeastern Florida: U.S. Geological Survey Water-Resources Investigations Report 01-4011, p. 25–29.

- Spechler, R.M., and Halford, K.J., 2001, Hydrogeology, water quality, and simulated effects of ground-water withdrawals from the Floridan aquifer system, Seminole County and vicinity, Florida: U.S. Geological Survey Water-Resources Investigations Report 01-4182, 116 p.
- Spechler, R.M., and Hampson, P.S., 1984, Ground-water resources of St. Johns County, Florida: U.S. Geological Survey Water-Resources Investigations Report 83-4187, 49 p.
- Sproul, C.R., Boggess, D.H., and Woodard, H.J., 1972, Saline-water intrusion from deep artesian sources in the McGregor Isles area of Lee County, Florida: Florida Bureau of Geology Information Circular 75, 30 p.
- Steinkampf, W.C., 1982, Origins and distribution of saline ground waters in the Floridan aquifer in coastal southwest Florida: U.S. Geological Survey Water-Resources Investigations Report 82-4052, 34 p.
- Stewart, M.T., 1982, Evaluation of electromagnetic methods for rapid mapping of salt-water interfaces in coastal aquifers: *Ground Water*, v. 20, no. 5, p. 538–545.
- Stewart, Mark, and Gay, M.C., 1986, Evaluation of transient electromagnetic soundings for deep detection of conductive fluids: *Ground Water*, v. 24, no. 3, p. 351–356.
- Stringfield, V.T., 1936, Artesian water in the Florida peninsula: U.S. Geological Survey Water-Supply Paper 773-C, p. 115–195.
- Stringfield, V.T., and Cooper, H.H., Jr., 1951, Geologic and hydrologic features of an artesian submarine spring east of Florida: Florida Geological Survey Report of Investigations 7, part 2, p. 57–75.
- Stringfield, V.T., and Legrand, H.E., 1969, Relation of sea water to fresh water in carbonate rocks in coastal areas, with special reference to Florida, U.S.A., and Cephalonia (Kephallinia), Greece: *Journal of Hydrology*, v. 9, no. 4, p. 387–404.
- Sutcliffe, H., Jr., 1975, Appraisal of the water resources of Charlotte County, Florida: Florida Geological Survey Report of Investigations 78, 53 p.
- Sutcliffe, H., Jr., and Thompson, T.H., 1983, Occurrence and use of ground water in the Venice-Englewood area, Sarasota and Charlotte Counties, Florida: U.S. Geological Survey Open-File Report 82-700, 59 p.
- Swayze, L.J., 1980a, Altitude of water table and saline-water front, Hialeah-Miami Springs well field area, Biscayne aquifer, Dade County, Florida, May 12, 1980: U.S. Geological Survey Open-File Report 80-1211, 1 sheet.
- _____, 1980b, Altitude of water table and saline-water front, Hialeah-Miami Springs well field area, Dade County, Florida, May 3, 1978: U.S. Geological Survey Open-File Report 80-588, 1 sheet.
- _____, 1980c, Altitude of water table and saline-water front Hialeah-Miami Springs well field area, Dade County, Florida, October 5, 1979: U.S. Geological Survey Open-File Report 80-559, 1 sheet.
- _____, 1980d, Water-level contour and salt-front map, Hialeah-Miami Springs well field area, Dade County, Florida, October 13, 1978: U.S. Geological Survey Open-File Report 80-8, 1 sheet.
- Tarver, G.R., 1964, Hydrology of the Biscayne aquifer in the Pompano Beach area, Broward County, Florida: Florida Geological Survey Report of Investigations 36, 47 p.
- Thompson, T.H., 1982, Chemical quality of water in the upper part of the Floridan aquifer, Duval County, Florida: U.S. Geological Survey Open-File Report 82-119, 1 sheet.
- Tibbals, C.H., 1977, Availability of ground water in Seminole County and vicinity, Florida: U.S. Geological Survey Water-Resources Investigations Report 76-97, 15 p., 4 sheets.
- _____, 1990, Hydrology of the Floridan aquifer system in east-central Florida: U.S. Geological Survey Professional Paper 1403-E, 98 p.
- Tibbals, C.H., and Frazee, J.M., Jr., 1976, Ground-water hydrology of the Cocoa well-field area, Orange County, Florida: U.S. Geological Survey Open-File Report 75-676, 67 p.
- Trapp, Henry, Jr., 1977, Exploratory water well, St. George Island, Florida: U.S. Geological Survey Open-File Report 77-652, 33 p.
- Trapp, Henry, Jr., Pascale, C.A., and Foster, J.B., 1977, Water resources of Okaloosa County and adjacent areas, Florida: U.S. Geological Survey Water-Resources Investigations Report 77-9, 83 p.
- Trommer, J.T., 1993, Description and monitoring of the saltwater-freshwater transition zone in aquifers along the west-central coast of Florida: U.S. Geological Survey Water-Resources Investigations Report 93-4120, 56 p.

- Vorhis, R.C., 1948, Geology and ground water of the Fort Lauderdale area, Florida: Florida Geological Survey Report of Investigations 6, 32 p.
- Wicks, C.M., and Herman, J.S., 1996, Regional hydrogeochemistry of a modern coastal mixing zone: *Water Resources Research*, v. 32, no. 2, p. 401–407.
- Wicks, C.M., Herman, J.S., Randazzo, A.F., and Jee, J.L., 1995, Water-rock interactions in a modern coastal mixing zone: *Geological Society of America Bulletin*, v. 107, no. 9, p. 1023–1032.
- Wilson, W.E., 1977, Ground-water resources of DeSoto and Hardee Counties, Florida: Florida Bureau of Geology Report of Investigations 83, 102 p.
- _____, 1982, Estimated effects of projected ground-water withdrawals on movement of the saltwater front in the Floridan aquifer, 1976–2000, west-central Florida: U.S. Geological Survey Water-Supply Paper 2189, 24 p.
- Wyrick, G.G., 1960, The ground-water resources of Volusia County, Florida: Florida Geological Survey Report of Investigations 22, 65 p.
- Wyrick, G.G., and Leutze, W.P., 1956, Interim report on ground water resources of the northeastern part of Volusia County, Florida: Florida Geological Survey Information Circular 8, 75 p.
- Cooper, H.H., Jr., and Warren, M.A., 1945, The perennial yield of artesian water in the coastal area of Georgia and northeastern Florida: *Economic Geology*, v. 40, no. 4, p. 263–282.
- Counts, H.B., 1960, Salt water encroachment into the principal artesian aquifer in the Savannah area, Georgia and South Carolina: *Journal Southeastern Section, American Water Works Association*, v. 24, no. 1, p. 25–50.
- Counts, H.B., and Donsky, Ellis, 1959, Salt-water encroachment, geology, and ground-water resources of Savannah area, Georgia and South Carolina—A summary: *Georgia Geological Survey Mineral Newsletter*, v. 12, no. 3, p. 96–102.
- _____, 1963, Saltwater encroachment, geology, and ground-water resources of Savannah area, Georgia and South Carolina: U.S. Geological Survey Water-Supply Paper 1611, 100 p.
- Cressler, A.M., 1991, Chloride concentrations in the Upper Floridan aquifer in the coastal area of Georgia, May 1990: U.S. Geological Survey Open-File Report 91-173, 1 p.
- Foyle, A.M., Henry, V.J., and Alexander, C.R., 1999, Miocene aquiclude mapping project—Phase-I findings report: *Georgia Geologic Survey Project Report 39*, 34 p.
- _____, 2001, The Miocene aquitard and the Floridan aquifer of the Georgia/South Carolina coast—Geophysical mapping of potential seawater intrusion sites: *Georgia Geologic Survey Bulletin 132*, 61 p.
- Furlow, J.W., 1969, Stratigraphy and economic geology of the eastern Chatham County phosphate deposit: *Georgia Geologic Survey Bulletin 82*, 40 p.
- Garza, Reggina, and Krause, R.E., 1997, Water-supply potential of major streams and the Upper Floridan aquifer in the vicinity of Savannah, Georgia: U.S. Geological Survey Water-Supply Paper 2411, 38 p.
- Gill, H.E., and Mitchell, G.D., 1979, Results of Colonels Island deep hydrologic test well, *in* Investigations of alternative sources of ground water in the coastal area of Georgia: *Georgia Department of Natural Resources, Geologic and Water Resources Division Open-File Report 80-3*, p. C1–C13.

Georgia

In addition to the sources of information described in the "Approach" section of this report, references on the occurrence and intrusion of saltwater in Georgia were obtained from Krause and others (1984) and Georgia Geologic Survey (2000).

- Clarke, J.S., Hacke, C.M., and Peck, M.F., 1990, Geology and ground-water resources of the coastal area of Georgia: *Georgia Geologic Survey Bulletin 113*, 106 p.
- Clarke, J.S., and Krause, R.E., 2000, Design, revision, and application of ground-water flow models for simulation of selected water-management scenarios in the coastal area of Georgia and adjacent parts of South Carolina and Florida: U.S. Geological Survey Water-Resources Investigations Report 00-4084, 93 p.

- Grantham, R.G., and Stokes, W.R., 1976, Ground-water quality data for Georgia: Georgia Department of Natural Resources, Geologic and Water Resources Division, 216 p.
- Gregg, D.O., 1971, Protective pumping to reduce aquifer pollution, Glynn County, Georgia: *Ground Water*, v. 9, no. 5, p. 21–29.
- Gregg, D.O., and Zimmerman, E.A., 1974, Geologic and hydrologic control of chloride contamination in aquifers at Brunswick, Glynn County, Georgia: U.S. Geological Survey Water-Supply Paper 2029-D, 44 p.
- Hanshaw, B.B., Back, William, Meyer, Rubin, and Wait, R.L., 1965, Relation of carbon 14 concentrations to saline water contamination of coastal aquifers: *Water Resources Research*, v. 1, no. 1, p. 109–114.
- Herrick, S.M., and Wait, R.L., 1955, Interim report on results of test drilling in the Savannah area, Georgia and South Carolina: U.S. Geological Survey Open-File Report, 48 p.
- Jones, L.E., and Maslia, M.L., 1994, Selected ground-water data, and results of aquifer tests for the Upper Floridan aquifer, Brunswick, Glynn County, Georgia, area: U.S. Geological Survey Open-File Report 94-520, 107 p.
- Kellam, M.F., 1986, Interpretation of the freshwater/saltwater interface zone of the Coastal Plain of Georgia: Georgia Geologic Survey Hydrologic Atlas 14, 2 sheets.
- Krause, R.E., and Clarke, J.S., 2001, Coastal ground water at risk—Saltwater contamination at Brunswick, Georgia, and Hilton Head Island, South Carolina: U.S. Geological Survey Water-Resources Investigations Report 01-4107, 1 sheet.
- Krause, R.E., and Gregg, D.O., 1972, Water from the principal artesian aquifer in coastal Georgia: Georgia Geologic Survey Hydrologic Atlas 1, 1 sheet.
- Krause, R.E., and Randolph, R.B., 1989, Hydrology of the Floridan aquifer system in southeast Georgia and adjacent parts of Florida and South Carolina: U.S. Geological Survey Professional Paper 1403-D, 65 p.
- Maslia, M.L., and Prowell, D.C., 1990, Effect of faults on fluid flow and chloride contamination in a carbonate aquifer system: *Journal of Hydrology*, v. 115, no. 1-4, p. 1–49.
- Matthews, S.E., and Krause, R.E., 1984, Hydrogeologic data from the U.S. Geological Survey test wells near Waycross, Ware County, Georgia: U.S. Geological Survey Water-Resources Investigations Report 83-4204, 29 p.
- McCollum, M.J., 1964, Salt-water movement in the principal artesian aquifer of the Savannah area, Georgia and South Carolina: *Ground Water*, v. 2, no. 4, p. 4–8.
- McCollum, M.J., and Counts, H.B., 1964, Relation of salt-water encroachment to the major aquifer zones, Savannah area, Georgia and South Carolina: U. S. Geological Survey Water-Supply Paper 1613-D, 26 p.
- Pollard, L.D., and Vorhis, R.C., 1980, The geohydrology of the Cretaceous aquifer system in Georgia: Georgia Geologic Survey Hydrologic Atlas 3, 5 sheets.
- Randolph, R.B., Pernik, Maribeth, and Garza, Reggina, 1991, Water-supply potential of the Floridan aquifer system in the coastal area of Georgia—A digital model approach: Georgia Geologic Survey Bulletin 116, 30 p.
- Stephenson, L.W., and Veatch, J.O., 1915, Underground waters of the Coastal Plain of Georgia, and a discussion of The quality of the waters by R.B. Dole: U.S. Geological Survey Water-Supply Paper 341, 539 p.
- Stewart, J.W., 1960, Relation of salty ground water to fresh artesian water in the Brunswick area, Glynn County, Georgia: Georgia Geologic Survey Information Circular 20, 42 p.
- Stringfield, V.T., Warren, M.A., and Cooper, H.H., Jr., 1941, Artesian water in the coastal area of Georgia and northeastern Florida: *Economic Geology*, v. 36, no. 7, p. 698–711.
- Wait, R.L., 1962, Interim report on test drilling and water sampling in the Brunswick area, Glynn County, Georgia: Georgia Geologic Survey Information Circular 23, 46 p.
- _____, 1965, Geology and occurrence of fresh and brackish ground water in Glynn County, Georgia: U. S. Geological Survey Water-Supply Paper 1613-E, 94 p.
- _____, 1970, Notes on the position of a phosphate zone and its relation to ground water in coastal Georgia: U.S. Geological Survey Professional Paper 700-C, p. 202–205.

Wait, R.L., and Gregg, D.O., 1973, Hydrology and chloride contamination of the principal artesian aquifer in Glynn County, Georgia: Georgia Department of Natural Resources Hydrologic Report 1, 93 p.

Wait, R.L., and McCollum, M.J., 1963, Contamination of fresh water aquifers through an unplugged oil-test well in Glynn County, Georgia: Georgia Mineral Newsletter, v. 16, no. 3-4, p. 74–80.

Warren, M.A., 1944, Artesian water in southeastern Georgia, with special reference to the coastal area: Georgia Geological Survey Bulletin 49, 140 p.

Wilson, S.K., 1990, The hydrogeochemistry of southern Cumberland Island, Georgia: U.S. National Park Service, Kings Bay Environmental Monitoring Program Report, Research/Resources Management Report Ser-91/04, 93 p.

Maine

Caswell, W.B., Jr., 1978, Maine's inland salt-water wells: Maine Geological Survey Open-File Report, 14 p.

_____, 1979a, Maine's ground-water situation: Ground Water, v. 17, no. 3, p. 235–243.

_____, 1979b, Maine's inland salt-water wells, in Hussy, A.M., II, and Westerman, D.S., eds., Maine Geology, Bulletin no. 1, Shorter Contributions to the Geology of Maine: Brunswick, ME, Maine Geological Survey, p. 42–48.

Clapp, F.G., 1909, Underground waters of southern Maine: U.S. Geological Survey Water-Supply Paper 223, 268 p.

Prescott, G.G., Jr., 1973, Records of selected wells, springs, and test holes in the southern Washington County area: U.S. Geological Survey Open-File Report, 40 p.

Slater, L.D., and Sandberg, S.K., 2000, Resistivity and induced polarization monitoring of salt transport under natural hydraulic gradients: Geophysics, v. 65, no. 2, p. 408–420.

Snow, M.S., Kahl, J.S., and Norton, S.A., 1990, Geochemistry of high salinity solutions in Maine surficial and bedrock aquifers—final report: Maine Department of Transportation Technical Report 90-1, 23 p.

Tepper, D.H., 1980, Hydrogeologic setting and geochemistry of residual periglacial Pleistocene seawater in wells in Maine: The Maine Geologist, v. 7, no. 2, p. 6–7.

Maryland

Achmad, Grufron, and Wilson, J.M., 1993, Hydrogeologic framework and the distribution and movement of brackish water in the Ocean City-Manokin aquifer system at Ocean City, Maryland: Maryland Geological Survey Report of Investigations 57, 125 p.

Andreasen, D.C., and Fleck, W.B., 1997, Use of bromide:chloride ratios to differentiate potential sources of chloride in a shallow, unconfined aquifer affected by brackish-water intrusion: Hydrogeology Journal, v. 5, no. 2, p. 17–26.

Bennett, R.R., and Meyer, R.R., 1952, Geology and ground-water resources of the Baltimore area: Maryland Department of Geology, Mines, and Water Resources Bulletin 4, 573 p.

Chapelle, F.H., 1985, Hydrogeology, digital solute-transport simulation, and geochemistry of the lower Cretaceous aquifer system near Baltimore, Maryland, with a section on Well records, pumpage information, and other supplemental data, by Kean, T.M.: Maryland Geological Survey Report of Investigations 43, 120 p.

_____, 1986, A solute-transport simulation of brackish-water intrusion near Baltimore, Maryland: Ground Water, v. 24, no. 3, p. 304–311.

Clark, W.B., Mathews, E.G., and Berry, E.W., 1918, The surface and underground water resources of Maryland, including Delaware and the District of Columbia: Maryland Geological Survey, Special Publication, v. 10, pt. 2, 372 p.

Drummond, D.D., 1988, Hydrogeology, brackish-water occurrence, and simulation of flow and brackish-water movement in the Aquia aquifer in the Kent Island area, Maryland: Maryland Geological Survey Report of Investigations 51, 131 p.

_____, 1998, Hydrogeology, simulation of ground-water flow, and ground-water quality of the upper Coastal Plain aquifers in Kent County, Maryland: Maryland Geological Survey Report of Investigations 68, 76 p.

- _____. 2001, Hydrogeology of the Coastal Plain aquifer system in Queen Anne's and Talbot Counties, Maryland, with emphasis on water-supply potential and brackish-water intrusion in the Aquia Aquifer: Maryland Geological Survey Report of Investigations 72, 141 p.
- Drummond, D.D., and Blomquist, J.D., 1993, Hydrogeology, water-supply potential, and water quality of the Coastal Plain aquifers of Harford County, Maryland: Maryland Geological Survey Report of Investigations 58, 160 p.
- Fleck, W.B., and Andreasen, D.C., 1996, Geohydrologic framework, ground-water quality and flow, and brackish-water intrusion in east-central Anne Arundel County, Maryland, with a section on Simulation of brackish-water intrusion in the Aquia aquifer in the Annapolis area using a solute-transport model, by Smith, B.S.: Maryland Geological Survey Report of Investigations 62, 136 p.
- Hansen, H.J., 1972, A user's guide for the artesian aquifers of the Maryland Coastal Plain, part two-Aquifer characteristics: Maryland Geological Survey Open-File Report 72-02-1, 123 p.
- Mack, F.K., 1962, Ground-water supplies for industrial and urban development in Anne Arundel County, with a section on the Chemical character of the water, by Richardson, C.A.: Maryland Department of Geology, Mines and Water Resources Bulletin 26, 90 p.
- _____. 1974, An evaluation of the Magothy aquifer in the Annapolis area, Maryland: Maryland Geological Survey Report of Investigations 22, 75 p.
- Nutter, L.J., 1977, Ground-water resources of Harford County, Maryland: Maryland Geological Survey Bulletin 32, 44 p.
- Otton, E.G., and Mandle, R.J., 1984, Hydrogeology of the Upper Chesapeake Bay area, Maryland, with emphasis on aquifers in the Potomac Group: Maryland Geological Survey Report of Investigations 39, 62 p.
- Otton, E.G., Martin, R.O.R., and Durum, W.H., 1964, Water resources of the Baltimore area, Maryland: U.S. Geological Survey Water-Supply Paper 1499-F, 105 p.
- Phelan, D.J., 1987, Water levels, chloride concentrations, and pumpage in the coastal aquifers of Delaware and Maryland: U.S. Geological Survey Water-Resources Investigations Report 87-4229, 106 p.
- Rasmussen, W.C., and Slaughter, T.H., 1955, The ground-water resources of Somerset, Wicomico, and Worcester Counties: Maryland Department of Geology, Mines and Water Resources Bulletin 16, 533 p.
- Rasmussen, W.C., Slaughter, T.H., Hulme, A.E., and Murphy, J.J., 1957, The water resources of Caroline, Dorchester, and Talbot Counties: Maryland Department of Geology, Mines and Water Resources Bulletin 18, 465 p.
- Slaughter, T.H., 1962, Beach-area water supplies between Ocean City, Maryland, and Rehobeth Beach, Delaware: U.S. Geological Survey Water-Supply Paper 1619-T, 10 p.
- Trapp, Henry, Jr., Knobel, L.L., Meisler, Harold, and Leahy, P.P., 1984, Test well DO-CE 88 at Cambridge, Dorchester County, Maryland: U.S. Geological Survey Water-Supply Paper 2229, 48 p.
- Weigle, J.M., 1974, Availability of fresh ground water in northeastern Worcester County, Maryland: Maryland Geological Survey Report of Investigations 24, 64 p.
- Weigle, J.M., and Achmad, Grufron, 1982, Geohydrology of the fresh-water aquifer system in the vicinity of Ocean City, Maryland, with a section on simulated water-level changes: Maryland Geological Survey Report of Investigations 37, 55 p.
- Werkheiser, W.H., 1990, Hydrogeology and ground-water resources of Somerset County, Maryland: Maryland Geological Survey Bulletin 35, 156 p.

Massachusetts

- Burns, A.W., Frimpter, M.H., and Willey, R.E., 1975, Evaluation of data availability and examples of modeling for ground-water management on Cape Cod, Massachusetts: U.S. Geological Survey Water-Resources Investigations 16-75, 22 p.

- Collins, M.A., 1978, Response to "Fresh ground water stored in aquifers under the Continental Shelf—Implications from a deep test, Nantucket Island, Massachusetts": American Water Resources Association Water Resources Bulletin, v. 14, no. 2, p. 484–485.
- Delaney, D.F., 1980, Water resources of Martha's Vineyard, Massachusetts: U.S. Geological Survey Hydrologic Investigations Atlas 618, 2 pls.
- Fitterman, D.V., Brooks, G.A., and Snyder, S.L., 1989, Geophysical investigation of depth to saltwater near the Herring River (Cape Cod National Seashore), Wellfleet, Massachusetts: U.S. Geological Survey Open-File Report 89-0677, 69 p.
- Fitterman, D.V., and Dennehy, K.F., 1991, Verification of geophysically determined depths to saltwater near the Herring River (Cape Cod National Seashore), Wellfleet, Massachusetts: U.S. Geological Survey Open-File Report 91-0321, 49 p.
- Frimpter, M.H., and Gay, F.B., 1979, Chemical quality of ground water on Cape Cod, Massachusetts: U.S. Geological Survey Water-Resources Investigations 79-65, 11 p.
- Guswa, J.H., and LeBlanc, D.R., 1985, Digital models of ground-water flow in the Cape Cod aquifer system, Massachusetts: U.S. Geological Survey Water-Supply Paper 2209, 112 p.
- Guswa, J.H., and Londquist, C.J., 1976, Potential for development of ground water at a test site near Truro, Massachusetts: U.S. Geological Survey Open-File Report 76-614, 22 p.
- Hoekstra, P., and Evans, L.E., 1986, Transient electromagnetic (TDEM) soundings for mapping the interface between fresh water and saline water in coastal aquifers: Hydrological Science and Technology, v. 2, no. 3, p. 17–26.
- Hynes, V.M., 1942, Salt content of wells in Massachusetts affected by the tidal wave and hurricane of 1938: Journal of New England Water Works Association, v. 56, no. 3, p. 355–360.
- Kingsbury, F.H., 1936, Public ground water supplies in Massachusetts: Journal of New England Water Works Association, v. 50, no. 2, p. 149–196.
- Kohout, F.A., and Delaney, D.F., 1979, Fresh ground water stored in aquifers under the Continental Shelf—Implications from a deep test, Nantucket Island, Massachusetts: American Water Resources Association Water Resources Bulletin, v. 15, no. 1, p. 252–254.
- Kohout, F.A., Hathaway, J.C., Folger, D.W., Bothner, M.H., Walker, E.H., Delaney, D.F., Frimpter, M.H., Weed, E.G.A., and Rhodehamel, E.C., 1977, Fresh ground water stored in aquifers under the Continental Shelf—implications from a deep test, Nantucket Island, Massachusetts: American Water Resources Association Water Resources Bulletin, v. 13, no. 2, p. 373–386.
- Kohout, F.A., Walker, E.H., Bothner, M.H., and Hathaway, J.C., 1976, Fresh ground water found deep beneath Nantucket Island, Massachusetts: U.S. Geological Survey Journal of Research, v. 4, no. 5, p. 511–515.
- LeBlanc, D.R., 1982, Potential hydrologic impacts of ground-water withdrawal from the Cape Cod National Seashore, Truro, Massachusetts: U.S. Geological Survey Open-File Report 82-438, 42 p.
- LeBlanc, D.R., Guswa, J.H., Frimpter, M.H., and Londquist, C.J., 1986, Ground-water resources of Cape Cod, Massachusetts: U.S. Geological Survey Hydrologic Investigations Atlas 692, 4 pls.
- Martin, Larry, 1993, Investigation of effects of ground water withdrawals from the Pamet and Chequesset aquifers, Cape Cod National Seashore: U.S. National Park Service Technical Report NPS/NRWRD/NRTR-93/14, 48 p.
- Masterson, J.P., and Barlow, P.M., 1997, Effects of simulated ground-water pumping and recharge on ground-water flow in Cape Cod, Martha's Vineyard, and Nantucket Island Basins, Massachusetts: U.S. Geological Survey Water-Supply Paper 2447, 79 p.
- Person, Mark, Taylor, J.Z., and Dingman, S.L., 1998, Sharp interface models of salt water intrusion and wellhead delineation on Nantucket Island, Massachusetts: Ground Water, v. 36, no. 5, p. 731–742.
- Reilly, T.E., Frimpter, M.H., LeBlanc, D.R., and Goodman, A.S., 1987, Analysis of steady-state salt-water upconing with application at Truro Well Field, Cape Cod, Massachusetts: Ground Water, v. 25, no. 2, p. 194–206.

- Reilly, T.E., and Goodman, A.S., 1987, Analysis of saltwater upconing beneath a pumping well: *Journal of Hydrology*, v. 89, no. 3-4, p. 169–204.
- Walker, E.H., 1980, Water resources of Nantucket Island, Massachusetts: U.S. Geological Survey Hydrologic Investigations Atlas 615, 2 pls.
- Williams, J.R., Farrell, D.F., and Willey, R.E., 1973, Water resources of the Taunton River Basin, southeastern Massachusetts: U.S. Geological Survey Hydrologic Investigations Atlas 460, 3 pls.
- Williams, J.R., and Tasker, G.D., 1974, Water resources of the coastal drainage basins of southern Massachusetts, Weir River, Hingham, to Jones River, Kingston: U.S. Geological Survey Hydrologic Investigations Atlas 504, 2 pls.
- New Jersey**
- Anderson, H.R., and Appel, C.A., 1969, Geology and ground-water resources of Ocean County, New Jersey: New Jersey Department of Conservation and Economic Development, Division of Water Policy and Supply Special Report 29, 93 p.
- Appel, C.A., 1962, Salt-water encroachment into aquifers of the Raritan Formation in the Sayreville area, Middlesex County, New Jersey, with a section on a proposed tidal dam on the South River: New Jersey Department of Conservation and Economic Development Special Report 17, 47 p.
- Barksdale, H.C., 1937, Water supplies from the No. 1 Sand in the vicinity of Parlin, New Jersey: New Jersey Water Policy Commission Special Report 7, 33 p.
- _____, 1945, Ground water problems in New Jersey: *American Water Works Association Journal*, v. 37, no. 6, p. 563–568.
- Barksdale, H.C., Johnson, M.E., Baker, R.C., Schaefer, E.J., and DeBuchananne, G.D., 1943, The ground-water supplies of Middlesex County, New Jersey: New Jersey State Water Policy Commission Special Report 8, 160 p.
- Barksdale, H.C., Sundstrom, R.W., and Brunstein, M.S., 1936, Supplementary report on the ground-water supplies of the Atlantic City region [New Jersey]: New Jersey Water Policy Commission Special Report 6, 139 p.
- Cauller, S.J., Carleton, G.B., and Storck, M.J., 1999, Hydrogeology of, water withdrawal from, and water levels and chloride concentrations in the major Coastal Plain aquifers of Gloucester and Salem Counties, New Jersey: U.S. Geological Survey Water-Resources Investigations Report 98-4136, 123 p.
- Clark, G.A., Meisler, Harold, Rhodehamel, E.C., and Gill, H.E., 1968, Summary of ground-water resources of Atlantic County, New Jersey, with special reference to public water supplies: New Jersey Department of Conservation and Economic Development, Division of Water Policy and Supply Water-Resources Circular 18, 53 p.
- Ervin, E.M., Voronin, L.M., and Fusillo, T.V., 1994, Water quality of the Potomac-Raritan-Magothy aquifer system in the coastal plain, west-central New Jersey: U.S. Geological Survey Water-Resources Investigations Report 94-4113, 114 p.
- Fusillo, T.V., and Voronin, L.M., 1981, Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980: U.S. Geological Survey Open-File Report 81-814, 38 p.
- Gill, H.E., 1962, Ground-water resources of Cape May County, New Jersey—Salt-water invasion of principal aquifers: New Jersey Department of Conservation and Economic Development, Division of Water Policy and Supply Special Report 18, 171 p.
- Gill, H.E., and Farlekas, G.M., 1976, Geohydrologic maps of the Potomac-Raritan-Magothy aquifer system in the New Jersey coastal plain: U.S. Geological Survey Hydrologic Investigations Atlas 557, scale 1:500,000, 2 sheets.
- Hardt, W.F., and Hilton, G.S., 1969, Water resources and geology of Gloucester County, New Jersey: New Jersey Department of Conservation and Economic Development, Division of Water Policy and Supply Special Report 30, 130 p.
- Hasan, Asghar, Kasabach, H.F., and Malone, J.E., 1969, Water resources of the Sayreville area, Middlesex County, New Jersey: New Jersey Department of Conservation and Economic Development, Division of Water Policy and Supply Water Resources Circular 20, 32 p.

- Herpers, Henry, and Barksdale, H.C., 1951, Preliminary report on the geology and ground-water supply of the Newark, New Jersey, area: New Jersey Department of Conservation, Division of Water Policy and Supply Special Report 10, 52 p.
- Lacombe, P.J., and Carleton, G.B., 1992, Saltwater intrusion into fresh ground-water supplies, Southern Cape May County, New Jersey, 1890–1991, in Borden, R.C., and Lyke, W.L., eds., Future availability of groundwater resources: Raleigh, NC, American Water Resources Association Technical Publication Series TPS-92-1, p. 287–297.
- Lacombe, P.J., and Rosman, Robert, 1997, Water levels in, extent of freshwater in, and water withdrawal from eight major confined aquifers, New Jersey Coastal Plain, 1993: U.S. Geological Survey Water-Resources Investigations Report 96-4206, 8 pls.
- _____, 2001, Water levels in, extent of freshwater in, and water withdrawals from ten confined aquifers, New Jersey and Delaware coastal plain, 1998: U.S. Geological Survey Water-Resources Investigations Report 00-4143, 10 pls.
- Luzier, J.E., 1980, Digital-simulation and projection of head changes in the Potomac-Raritan-Magothy aquifer system, Coastal Plain, New Jersey: U.S. Geological Survey Water-Resources Investigations 80-11, 72 p.
- Navoy, A.S., and Carleton, G.B., 1995, Ground-water flow and future conditions in the Potomac-Raritan-Magothy aquifer system, Camden area, New Jersey: New Jersey Geological Survey Report GSR 38, 183 p.
- Nemickas, Bronius, and Carswell, L.D., 1976, Stratigraphic and hydrologic relationship of the Piney Point aquifer and the Alloway Clay member of the Kirkwood Formation in New Jersey: U.S. Geological Survey Journal of Research, v. 4, no. 1, p. 1–7.
- Pope, D.A., and Gordon, A.D., 1999, Simulation of ground-water flow and movement of the freshwater-saltwater interface in the New Jersey Coastal Plain: U.S. Geological Survey Water-Resources Investigations Report 98-4216, 159 p.
- Pucci, A.A., Jr., 1985, Summary of studies on the hydrogeology of saltwater intrusion in the Potomac-Raritan-Magothy aquifer system, central New Jersey, 1926–85, in Epstein, C.M., and Talkington, R.W., eds., Geological investigations of the coastal plain of southern New Jersey—Part 2, A, hydrogeology and the coastal plain—B, paleontologic investigations: Geological Survey of New Jersey, p. 1–18.
- _____, 1999, Sulfate transport in a coastal plain confining unit, New Jersey, USA: Hydrogeology Journal, v. 7, no. 3, p. 251–263.
- Pucci, A.A., Jr., Harriman, D.A., Ervin, E.M., Bratton, Lisa, and Gordon, A.D., 1989, Lead and cadmium contamination associated with saltwater intrusion in a New Jersey aquifer system: Water Resources Bulletin, v. 25, no. 6, p. 1267–1272.
- Pucci, A.A., Jr., Pope, D.A., and Gronberg, J.M., 1994, Hydrogeology, simulation of regional ground-water flow, and saltwater intrusion, Potomac-Raritan-Magothy aquifer system, northern Coastal Plain of New Jersey: New Jersey Department of Environmental Protection, New Jersey Geological Survey Report GSR 36, 209 p.
- Rooney, J.G., 1971, Ground-water resources Cumberland County, New Jersey: New Jersey Department of Environmental Protection, Division of Water Resources Special Report 34, 65 p.
- Rosenau, J.C., Lang, S.M., Hilton, G.S., and Rooney, J.G., 1969, Geology and ground-water resources of Salem County, New Jersey: New Jersey Department of Conservation and Economic Development, Division of Water Policy and Supply Special Report 33, 142 p.
- Rosman, Robert, Lacombe, P.J., and Storck, D.A., 1995, Water levels in major artesian aquifers of the New Jersey Coastal Plain, 1988: U.S. Geological Survey Water-Resources Investigations Report 95-4060, 74 p.
- Schaefer, F.L., 1983, Distribution of chloride concentrations in the principal aquifers of the New Jersey Coastal Plain, 1977–1981: U.S. Geological Survey Water-Resources Investigations Report 83-4061, 55 p.
- Schaefer, F.L., and Walker, R.L., 1981, Saltwater intrusion into the Old Bridge aquifer in the Keyport-Union Beach area of Monmouth County, New Jersey: U.S. Geological Survey Water-Supply Paper 2184, 21 p.

- Seaber, P.R., 1963, Chloride concentrations of water from wells in the Atlantic Coastal Plain of New Jersey, 1923-61: New Jersey Department of Conservation and Economic Development, Division of Water Policy and Supply Special Report 22, 250 p.
- Spitz, F.J., 1996, Hydrologic feasibility of water-supply-development alternatives in Cape May County, New Jersey: U.S. Geological Survey Water-Resources Investigations Report 96-4041, 42 p.
- _____, 1998, Analysis of ground-water flow and saltwater encroachment in the shallow aquifer system of Cape May County, New Jersey: U.S. Geological Survey Water-Supply Paper 2490, 51 p.
- Spitz, F.J., and Barringer, T.H., 1992, Ground-water hydrology and simulation of saltwater encroachment, shallow aquifer system of southern Cape May County, New Jersey: U.S. Geological Survey Water-Resources Investigations Report 91-4191, 87 p.
- Thompson, D.G., 1928, Ground-water supplies of the Atlantic City region: New Jersey Department of Conservation and Development, Division of Waters Bulletin 30, 138 p.
- _____, 1930, Ground water supplies in the vicinity of Asbury Park [New Jersey]: New Jersey Department of Conservation and Development Bulletin 35, 50 p.
- Voronin, L.M., Spitz, F.J., and McAuley, S.D., 1996, Evaluation of saltwater intrusion and travel time in the Atlantic City 800-foot sand, Cape May County, New Jersey, 1992, by use of a coupled-model approach and flow-path analysis: U.S. Geological Survey Water-Resources Investigations Report 95-4280, 38 p.
- New York**
- Anderson, M.P., 1976, Unsteady groundwater flow beneath strip oceanic islands: *Water Resources Research*, v. 12, no. 4, p. 640–644.
- Anderson, M.P., and Berkebile, C.A., 1976, Evidence of salt-water intrusion in southeastern Long Island: *Ground Water*, v. 14, no. 5, p. 315–319.
- Buxton, H.T., and Shernoff, P.K., 1999, Ground-water resources of Kings and Queens counties, Long Island, New York: U.S. Geological Survey Water-Supply Paper 2498, 113 p.
- Buxton, H.T., Soren, Julian, Posner, Alex, and Shernoff, P.K., 1981, Reconnaissance of the ground-water resources of Kings and Queens Counties, New York: U.S. Geological Survey Open-File Report 81-1186, 64 p.
- Cohen, Philip, Franke, O.L., and Foxworthy, B.L., 1968, An atlas of Long Island's water resources: New York Water Resources Commission Bulletin 62, 117 p.
- Cohen, Philip, and Kimmel, G.E., 1970, Status of saltwater encroachment in 1969 in southern Nassau and southeastern Queens Counties, Long Island, N.Y., in *Geological Survey Research 1970*: U.S. Geological Survey Professional Paper 700-D, p. 281–286.
- Collins, M.A., 1976, The extended Boussinesq problem: *Water Resources Research*, v. 12, no. 1, p. 54–56.
- Collins, M.A., Gelhar, L.W., and Wilson, J.L., 1972, Hele-Shaw model of Long Island aquifer system: *Journal of the Hydraulics Division, American Society of Civil Engineers*, v. 98, no. HY9, p. 1701–1714.
- Crandell, H.C., Jr., 1962, Geology and ground-water resources of Plum Island, Suffolk County, New York: U.S. Geological Survey Water-Supply Paper 1539-X, 35 p.
- _____, 1963, Geology and ground-water resources of the Town of Southold, Suffolk County, New York: U.S. Geological Survey Water-Supply Paper 1619-GG, 36 p.
- DeLuca, F.A., Hoffman, J.F., and Lubke, E.R., 1965, Chloride concentration and temperature of the waters of Nassau County, Long Island, New York: New York State Water Resources Commission Bulletin 55, 35 p.
- Fetter, C.W., Jr., 1972, Position of the saline water interface beneath oceanic islands: *Water Resources Research*, v. 8, no. 5, p. 1307–1315.
- _____, 1976, Hydrogeology of the south fork of Long Island, New York: *Geological Society of America Bulletin*, v. 87, no. 3, p. 401–406.

- Hoffman, J.F., and Speigel, S.J., 1958, Chloride concentration and temperature of water from wells in Suffolk County, Long Island, New York, 1928–53: New York State Water Power and Control Commission Bulletin GW-38, 55 p.
- Isbister, John, 1962, Relation of fresh water to salt water at Centre Island, Nassau County, New York: U.S. Geological Survey Professional Paper 450-E, p. 154–156.
- Kilburn, Chabot, and Krulikas, R.K., 1987, Hydrogeology and ground-water quality of the northern part of the Town of Oyster Bay, Nassau County, New York, in 1980: U.S. Geological Survey Water-Resources Investigations Report 85-4051, 61 p.
- Kontis, A.L., 1999, Simulation of freshwater-saltwater interfaces in the Brooklyn-Queens aquifer system, Long Island, New York: U.S. Geological Survey Water-Resources Investigations Report 98-4067, 26 p.
- Leggette, R.M., 1947, Salt water encroachment in the Lloyd Sand on Long Island, N.Y.: *Water Works Engineering*, v. 100, p. 1076–1079, 1107–1109.
- Luszczynski, N.J., 1952, The recovery of ground-water levels in Brooklyn, New York, from 1947 to 1950: U.S. Geological Survey Circular 167, 29 p.
- Luszczynski, N.J., and Hoffman, J.F., 1951, Salinity of ground water in Riverhead and Southold townships, Suffolk County, New York, 1948–50: U.S. Geological Survey Open-File Report, 4 p.
- Luszczynski, N.J., and others, 1956, Saline waters in New York State: New York Water Power and Control Comm. Bull. GW-36, 15 p.
- Luszczynski, N.J., and Swarzenski, W.V., 1960, Position of the salt-water body in the Magothy(?) Formation in the Cedarhurst-Woodmere area of southwestern Nassau County, Long Island, N.Y.: *Economic Geology*, v. 55, no. 8, p. 1739–1750.
- _____, 1966, Salt-water encroachment in southern Nassau and southeastern Queens Counties, Long Island, New York: U.S. Geological Survey Water-Supply Paper 1613-F, 76 p.
- McNew, E.R., and Arav, S., 1995, Surface geophysical surveys of the freshwater-saltwater interface in a coastal area of Long Island, New York: *Ground Water*, v. 33, no. 4, p. 615–626.
- McNew-Cartwright, E.R., 1996, Hydrogeologic data from an investigation of water resources near Greenport, Suffolk County, New York: U.S. Geological Survey Open-File Report 95-0427, 41 p.
- Nemickas, Bronius, and Koszalka, E.J., 1982, Geohydrologic appraisal of water resources of the South Fork, Long Island, New York: U.S. Geological Survey Water-Supply Paper 2073, 55 p.
- Perlmutter, N.M., and Crandell, H.C., 1959, Geology and ground-water supplies of the south-shore beaches of Long Island, N.Y.: *New York Academy of Science Annals*, v. 80, no. 4, p. 1060–1076.
- Perlmutter, N.M., and DeLuca, F.A., 1963, Availability of fresh ground water, Montauk Point area, Suffolk County, Long Island, New York: U.S. Geological Survey Water-Supply Paper 1613-B, 39 p.
- Perlmutter, N.M., and Geraghty, J.J., 1963, Geology and ground water conditions in southern Nassau and southeastern Queens Counties, Long Island, N.Y.—With special reference to sea-water encroachment: U.S. Geological Survey Water-Supply Paper 1613-A, 205 p.
- Perlmutter, N.M., Geraghty, J.J., and Upson, J.E., 1959, The relation between fresh and salty ground water in southern Nassau and southeastern Queens Counties, Long Island, New York: *Economic Geology*, v. 54, no. 3, p. 416–435.
- Prince, K.R., 1986, Ground-water resource assessment of the Montauk area, Long Island, New York: U.S. Geological Survey Water-Resources Investigations Report 85-4013, 103 p.
- Scorca, M.P., Reilly, T.E., and Franke, O.L., 1995, Selected hydrogeologic and water-quality data from Jones Beach Island, Long Island, New York: U.S. Geological Survey Water-Resources Investigations Report 92-4171, 21 p.
- Simmons, D.L., 1986, Geohydrology and ground-water quality on Shelter Island, Suffolk County, New York, 1983-84: U.S. Geological Survey Water - Resources Investigations Report 85-4165, 39 p.
- Soren, Julian, 1971, Ground-water and geohydrologic conditions in Queens County, Long Island, New York: U.S. Geological Survey Water-Supply Paper 2001-A, 39 p.

- _____. 1978, Hydrogeologic conditions in the Town of Shelter Island, Suffolk County, Long Island, New York: U.S. Geological Survey Water-Resources Investigations Report 77-77, 22 p.
- Spear, W.E., 1912, Long Island sources of an additional supply of water for the city of New York, v. 1: New York, New York Board of Water Supply, p. 144–149. (Reproduced in Brown, 1925, p. 44–49).
- Stumm, Frederick, 2001, Hydrogeology and extent of saltwater intrusion of the Great Neck Peninsula, Great Neck, Long Island, New York: U.S. Geological Survey Water-Resources Investigations Report 99-4280, 41 p.
- Swarzenski, W.V., 1963, Hydrogeology of northwestern Nassau and northeastern Queens Counties, Long Island, New York: U.S. Geological Survey Water-Supply Paper 1657, 90 p.
- Terracciano, S.A., 1997, Position of the freshwater/saltwater interface in southeastern Queens and southwestern Nassau counties, Long Island, New York, 1987–88: U.S. Geological Survey Open-File Report 96-0456, 17 p.
- Veatch, A.C., Slichter, C.S., Bowman, Isaiah, Crosby, W.O., and Horton, R.E., 1906, Underground water resources of Long Island, N.Y.: U.S. Geological Survey Professional Paper 44, 394 p.
- North Carolina**
- Bain, G.L., 1970, Geology and ground-water resources of New Hanover County, North Carolina: North Carolina Department of Water and Air Resources Ground-Water Bulletin 17, 79 p.
- Brown, P.M., 1959, Geology and ground-water resources in the Greenville area, North Carolina: North Carolina Department of Conservation and Development Bulletin 73, 87 p.
- Cardinell, A.P., Berg, S.A., and Lloyd, O.B., Jr., 1993, Hydrogeologic framework of U.S. Marine Corps Base at Camp Lejeune, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 93-4049, 45 p.
- Floyd, E.O., 1969, Ground-water resources of Craven County, North Carolina: U.S. Geological Survey Hydrologic Investigations Atlas 343, 2 sheets.
- Harris, W.H., 1967, Stratification of fresh and salt water on barrier islands as a result of differences in sediment permeability: Water Resources Research, v. 3, no. 1, p. 89–97.
- Harris, W.H., and Wilder, H.B., 1966, Geology and ground-water resources of the Hertford-Elizabeth City area, North Carolina: North Carolina Department of Water Resources Ground-Water Bulletin 10, 89 p.
- Heath, R.C., 1975, Hydrology of the Albemarle-Pamlico region, North Carolina: U.S. Geological Survey Water-Resources Investigation 9-75, 98 p.
- Heath, R.C., Thomas, N.O., and Dubach, Harold, 1975, Water resources, in Clay, J.W., Orr, D.M., Jr., and Stuart, A.W., eds., North Carolina atlas: Chapel Hill, University of North Carolina Press, chap. 8, p. 150–177.
- Kriz, G.J., 1972, Analog modeling to determine the fresh water availability on the Outer Banks of North Carolina: Water Resources Research Institute, University of North Carolina Report 64, 88 p.
- Lautier, J.C., 1998, Hydrogeologic framework and ground water resources of the north Albemarle region, North Carolina: North Carolina Department of Environment and Natural Resources, Division of Water Resources, 61 p.
- LeGrand, H.E., 1955, Brackish water and its structural implications in Great Carolina Ridge, North Carolina: American Association of Petroleum Geologists Bulletin, v. 39, no. 10, p. 2020–2037.
- _____. 1960, Geology and ground-water resources of the Wilmington-New Bern area: North Carolina Department of Water Resources Ground-Water Bulletin 1, 80 p.
- Lloyd, O.B., Jr., 1968a, Ground-water resources of Chowan County, North Carolina: North Carolina Department of Water and Air Resources Ground-Water Bulletin 14, 133 p.
- _____. 1968b, Ground-water resources of Chowan County, North Carolina: U.S. Geological Survey Hydrologic Investigations Atlas 292, 1 sheet.
- Lloyd, O.B., Jr., and Floyd, E.O., 1968, Ground-water resources of the Belhaven area, North Carolina: North Carolina Department of Water and Air Resources Report of Investigations 8, 38 p.
- Mundorff, M.J., 1945, Progress report on ground water in North Carolina: North Carolina Department of Conservation and Development, Division of Mineral Resources Bulletin 47, 78 p.
- Nelson, P.F., 1964, Geology and ground-water resources of the Swanquarter area, North Carolina: North Carolina Department of Water Resources Ground-Water Bulletin 4, 79 p.

- Peek, H.M., 1969, Effects of large-scale mining withdrawals of ground water: *Ground Water*, v. 7, no. 4, p. 12–20.
- Peek, H.M., and others, 1974, Status report on ground-water conditions in capacity use area no. 1, central Coastal Plain, North Carolina: North Carolina Department of Natural and Economic Resources Groundwater Bulletin 21, 146 p.
- Peek, H.M., and Register, L.A., 1975, A preliminary report on anomalous pressures in deep artesian aquifers in southeastern North Carolina: North Carolina Department of Natural and Economic Resources Report of Investigation 10, 20 p.
- Peek, H.M., Register, L.A., and Nelson, P.F., 1972, Potential ground-water supplies for Roanoke Island and the Dare County beaches, North Carolina: North Carolina Department of Natural and Economic Resources Report of Investigations 9, 26 p.
- Sutton, L.C., and Woods, T.L., 1995, Geochemistry of ground water from the Castle Hayne Aquifer in northeastern North Carolina: *Southeastern Geology*, v. 35, no. 2, p. 93–119.
- Winner, M.D., Jr., 1975, Ground-water resources of the Cape Hatteras National Seashore, North Carolina: U.S. Geological Survey Hydrologic Investigations Atlas 540, 2 sheets.
- _____, 1978, Ground-water resources of the Cape Lookout National Seashore, North Carolina: U.S. Geological Survey Water-Resources Investigations 78-52, 49 p.
- Winner, M.D., Jr., and Coble, R.W., 1996, Hydrogeologic framework of the North Carolina Coastal Plain: U.S. Geological Survey Professional Paper 1404-I, 106 p.
- Woods, T.L., Beck, E.G., Tolen-Hehlhop, D.L., Troiano, Rae, and Whitley, J.K., 2000, Geochemical tracers of groundwater movement between the Castle Hayne and associated coastal plain aquifers: Water Resources Research Institute of the University of North Carolina Report 328, 237 p.
- Woods, T.L., Fullagar, P.D., Spruill, R.K., and Sutton, L.C., 2000, Strontium isotopes and major elements as tracers of ground water evolution—Example from the Upper Castle Hayne Aquifer of North Carolina: *Ground Water*, v. 38, no. 5, p. 762–771.
- ## Rhode Island
- Allen, W.B., 1953, The ground-water resources of Rhode Island: Rhode Island Development Council Geological Bulletin 6, 170 p.
- _____, 1956, Ground-water resources of the East Greenwich quadrangle, Rhode Island: Rhode Island Development Council Geological Bulletin 8, 56 p.
- Bierschenk, W.H., 1954, Ground-water resources of the Bristol quadrangle, Rhode Island-Massachusetts: Rhode Island Development Council Geological Bulletin 7, 98 p.
- _____, 1956, Ground-water resources of the Kingston quadrangle, Rhode Island: Rhode Island Development Council Geological Bulletin 9, 60 p.
- _____, 1959, Ground-water resources of the Providence quadrangle, Rhode Island: Rhode Island Water Resources Coordinating Board Geological Bulletin 10, 104 p.
- Burns, Emily, 1993, Hydrologic data for Block Island, Rhode Island: U.S. Geological Survey Open-File Report 92-155, 141 p.
- Church, P.E., and Brandon, W.C., 1999, Distribution of salinity in ground water from the interpretation of borehole-geophysical logs and salinity data, Calf Pasture Point, Davisville, Rhode Island: U.S. Geological Survey Water-Resources Investigations Report 99-4153, 47 p.
- Hansen, A.J., and Schiner, G.R., 1964, Ground-water resources of Block Island, Rhode Island: Rhode Island Water Resources Coordinating Board Geological Bulletin 14, 35 p.
- Schiner, G.R., and Gonthier, J.B., 1965a, Ground-water map of the Prudence Island and Newport quadrangles, Rhode Island, and the Rhode Island portion of the Westport quadrangle, Massachusetts: Rhode Island Water Resources Coordinating Board Ground-Water Map 20, scale 1:24,000.
- _____, 1965b, Ground-water map of the Tiverton and Sakonnet Point quadrangles, Rhode Island, and the Rhode Island portion of the Westport quadrangle, Massachusetts: Rhode Island Water Resources Coordinating Board Ground-Water Map 21, scale 1:24,000.
- Urish, D.W., and Ozbilgin, M.M., 1989, The coastal ground-water boundary: *Ground Water*, v. 27, no. 3, p. 310–315.

Veeger, A.I., Johnston, H.E., Stone, B.D., and Sirkin, L.A., 1996, Hydrogeology and water resources of Block Island, Rhode Island: U.S. Geological Survey 94-4096, 68 p.

South Carolina

Back, William, Hanshaw, B.B., and Rubin, Meyer, 1970, Carbon-14 ages related to occurrence of salt water: *Journal of the Hydraulics Division, American Society of Civil Engineers*, v. 96, no. HY11, p. 2325–2336.

Burt, R.A., 1993, Ground-water chemical evolution and diagenetic processes in the Upper Floridan aquifer, southern South Carolina and northeastern Georgia: U.S. Geological Survey Water-Supply Paper 2392, 76 p.

Burt, R.A., Belval, D.L., Crouch, Michael, and Hughes, W.B., 1987, Geohydrologic data from Port Royal Sound, Beaufort County, South Carolina: U.S. Geological Survey Open-File Report 86-497, 67 p.

Bush, P.W., 1988, Simulation of saltwater movement in the Floridan aquifer system, Hilton Head Island, South Carolina: U.S. Geological Survey Water-Supply Paper 2331, 19 p.

Campbell, B.G., Conlon, K.J., Mirecki, J.E., and Petkewich, M.D., 1997, Evaluation of aquifer storage recovery in the Santee Limestone/Black Mingo aquifer near Charleston, South Carolina, 1993–95: U.S. Geological Survey Water-Resources Investigations Report 96-4283, 89 p.

Counts, H.B., 1958, The quality of ground water in the Hilton Head Island area, Beaufort County, South Carolina: *Georgia Geological Survey Mineral Newsletter*, v. 11, no. 2, p. 50–51.

Davies, M.R., 1986, Chloride conditions in the Floridan aquifer, Beaufort County, South Carolina—Data collected during May 1985: South Carolina Water Resources Commission Open-File Report 18, 13 p.

Duncan, D.A., 1972, High resolution seismic study, *in* Port Royal Sound Environmental Study: South Carolina Water Resources Commission, p. 86–106.

Foyle, A.M., Henry, V.J., and Alexander, C.R., 2001, The Miocene aquitard and the Floridan aquifer of the Georgia/South Carolina coast—Geophysical mapping of potential seawater intrusion sites: *Georgia Geologic Survey Bulletin* 132, 61 p.

Hassen, J.A., 1985, Ground-water conditions in the Ladies and St. Helena Islands area, South Carolina: South Carolina Water Resources Commission Report No. 147, 56 p.

Hayes, L.R., 1979, The ground-water resources of Beaufort, Colleton, Hampton, and Jasper Counties, South Carolina: South Carolina Water Resources Commission Report No. 9, 91 p.

Hockensmith, B.L., and Castro, J.E., 1993, Chemical quality of ground water in aquifers of the Black Creek Formation, Horry County, South Carolina: South Carolina Water Resources Commission Open-File Report 42, 57 p.

Hughes, W.B., Crouch, M.S., and Park, A.D., 1989, Hydrogeology and saltwater contamination of the Floridan Aquifer in Beaufort and Jasper Counties, South Carolina: South Carolina Water Resources Commission Report No. 158, 52 p.

Landmeyer, J.E., and Belval, D.L., 1996, Water-chemistry and chloride fluctuations in the Upper Floridan aquifer in the Port Royal Sound area, South Carolina, 1917–93: U.S. Geological Survey Water-Resources Investigations Report 96-4102, 106 p.

Landmeyer, J.E., and Stone, P.A., 1995, Radiocarbon and delta C-13 values related to ground-water recharge and mixing: *Ground Water*, v. 33, no. 2, p. 227–234.

Mirecki, J.E., Campbell, B.G., Conlon, K.J., and Petkewich, M.D., 1998, Solute changes during aquifer storage recovery testing in a limestone/clastic aquifer: *Ground Water*, v. 36, no. 3, p. 394–403.

Park, A.D., 1985, The ground-water resources of Charleston, Berkeley, and Dorchester Counties, South Carolina: South Carolina Water Resources Commission Report Number 139, 146 p.

Pelletier, A.M., 1985, Ground-water conditions and water-supply alternatives in the Waccamaw Capacity Use Area, South Carolina: South Carolina Water Resources Commission Report 144, 32 p.

- Siple, G.E., 1946, Progress report on ground-water investigations in South Carolina: Columbia, SC, Research, Planning and Development Board Bulletin 15, 116 p.
- _____, 1956, Memorandum on the geology and ground-water resources of the Parris Island area, South Carolina: U.S. Geological Survey Open-File Report, 27 p.
- _____, 1957, Ground water in the South Carolina Coastal Plain: Journal American Water Works Association, v. 49, no. 3, p. 283–300.
- _____, 1960, Geology and ground-water conditions in the Beaufort area, South Carolina: U.S. Geological Survey Open-File Report, 124 p.
- _____, 1967, Salt-water encroachment in coastal South Carolina: South Carolina Geological Survey Geologic Notes, v. 11, no. 2, p. 21–36.
- _____, 1969, Salt-water encroachment of Tertiary limestone along coastal South Carolina: South Carolina Geological Survey, Geologic Notes, v. 13, no. 2, p. 51–65.
- Smith, B.S., 1988, Ground-water flow and saltwater encroachment in the Upper Floridan aquifer, Beaufort and Jasper Counties, South Carolina: U.S. Geological Survey Water-Resources Investigations Report 87-4285, 61 p.
- _____, 1994, Saltwater movement in the Upper Floridan Aquifer beneath Port Royal Sound, South Carolina: U.S. Geological Survey Water-Supply Paper 2421, 40 p.
- Speiran, G.K., and Aucott, W.R., 1994, Effects of sediment depositional environment and ground-water flow on the quality and geochemistry of water in aquifers in sediments of Cretaceous age in the Coastal Plain of South Carolina: U.S. Geological Survey Water-Supply Paper 2416, 53 p.
- Spigner, B.C., and Ransom, Camille, 1979, Report on ground-water conditions in the Low Country area, South Carolina: South Carolina Water Resources Commission Report No. 132, 144 p.
- Zack, Allen, 1977, The occurrence, availability, and chemical quality of ground water, Ground Strand area and surrounding parts of Horry and Georgetown Counties, South Carolina: South Carolina Water Resources Commission Report no. 8, 100 p.
- Zack, Allen, and Roberts, Ivan, 1988, The geochemical evolution of aqueous sodium in the Black Creek aquifer, Horry and Georgetown Counties, South Carolina: U.S. Geological Survey Water-Supply Paper 2324, 15 p.

Virginia

- Brown, D.L., and Silvey, W.D., 1977, Artificial recharge to a freshwater-sensitive brackish-water sand aquifer, Norfolk, Virginia: U.S. Geological Survey Professional Paper 939, 53 p.
- Brown, G.A., and Cosner, O.J., 1974, Ground-water conditions in the Franklin area, southeastern Virginia: U.S. Geological Survey Hydrologic Atlas 538, 3 sheets.
- Cederstrom, D.J., 1941, Ground-water resources of the Southeastern Virginia Coastal Plain: Virginia Geological Survey Circular 1, 11 p.
- _____, 1943a, Chloride in ground water in the Coastal Plain of Virginia: Virginia Geological Survey Bulletin 58, 36 p.
- _____, 1943b, Deep wells in the Coastal Plain of Virginia: Virginia Geological Survey Report Series 6, 14 p.
- _____, 1945a, Geology and ground-water resources of the Coastal Plain in southeastern Virginia: Virginia Geological Survey Bulletin 63, 384 p.
- _____, 1945b, Selected well logs in the Virginia Coastal Plain north of James River: Virginia Geological Survey Circular 3, 82 p.
- _____, 1945c, Structural geology of southeastern Virginia: American Association of Petroleum Geologists Bulletin, v. 29, no. 1, p. 71–95.
- _____, 1946a, Chemical character of ground water in the Coastal Plain of Virginia: Virginia Geological Survey Bulletin 68, 62 p.
- _____, 1946b, Genesis of ground waters in the Coastal Plain of Virginia: Economic Geology, v. 41, no. 3, p. 218–245.
- _____, 1957, Geology and ground-water resources of the York-James Peninsula, Virginia: U.S. Geological Survey Water-Supply Paper 1361, 237 p.
- _____, 1969, Geology and ground-water resources of the Middle Peninsula, Virginia: U.S. Geological Survey Open-File Report 69-37, 231 p.

- Commonwealth of Virginia, 1978, Ground water 1978: Commonwealth of Virginia, State Control Board, 64 p.
- _____. 1979, Ground water 1979: Commonwealth of Virginia, State Control Board, 90 p.
- Fennema, R.J., and Newton, V.P., 1982, Ground water resources of the Eastern Shore of Virginia: Virginia State Water Control Board Planning Bulletin 332, 74 p.
- Focazio, M.J., Speiran, G.K., and Rowan, M.E., 1993, Quality of ground water in the Coastal Plain physiographic province of Virginia: U.S. Geological Survey Water-Resources Investigations Report 92-4175, 20 p.
- Harsh, J.F., 1980, Ground-water hydrology of James City County, Virginia: U.S. Geological Survey Open-File Report 80-961, 73 p.
- Laczniaik, R.J., and Meng, A.A., III, 1988, Ground-water resources of the York-James Peninsula of Virginia: U.S. Geological Survey Water-Resources Investigations Report 88-4059, 178 p.
- Larson, J.D., 1981, Distribution of saltwater in the coastal plain aquifers of Virginia: U.S. Geological Survey Open-File Report 81-1013, 25 p.
- Lichtler, W.F., and Wait, R.L., 1974, Summary of the ground-water resources of the James River Basin, Virginia: U.S. Geological Survey Open-File Report 74-139, 54 p.
- Newton, V.P., and Siudyla, E.A., 1979, Groundwater of the Northern Neck Peninsula, Virginia: Virginia State Water Control Board Planning Bulletin 307, 48 p.
- Nowroozi, A.A., Horrocks, S.B., and Henderson, Peter, 1999, Saltwater intrusion into the freshwater aquifer in the eastern shore of Virginia—A reconnaissance electrical resistivity survey: *Journal of Applied Geophysics*, v. 42, p. 1–22.
- Poag, C.W., 1999, Chesapeake invader-Discovering America's giant meteorite crater: Princeton, NJ, Princeton University Press, 183 p.
- Powars, D.S., 2000, The effects of the Chesapeake Bay impact crater on the geologic framework and the correlation of hydrogeologic units of southeastern Virginia, south of the James River: U.S. Geological Survey Professional Paper 1622, 53 p.
- Powars, D.S., and Bruce, T.S., 1999, The effects of the Chesapeake Bay impact crater on the geological framework and correlation of hydrogeologic units of the lower York-James Peninsula, Virginia: U.S. Geological Survey Professional Paper 1612, 82 p.
- Richardson, D.L., 1993, Ground-water concerns for the Eastern Shore, Virginia: U.S. Geological Survey Open-File Report 93-93, 4 p.
- _____. 1994, Hydrogeology and analysis of the ground-water-flow system of the Eastern Shore, Virginia: U.S. Geological Survey Water-Supply Paper 2401, 108 p.
- Rogers, W.S., and Spencer, R.S., 1971, Ground-water quality and structural control in southeastern Virginia: *Geological Society of America Bulletin* 82, p. 2313–2318.
- Sanford, Samuel, 1913, The underground water resources of the Coastal Plain Province of Virginia: Virginia Geological Survey Bulletin 5, 361 p.
- Sinnott, Allen, and Tibbitts, G.C., Jr., 1968, Ground-water resources of Accomack and Northampton Counties, Virginia: Virginia Department of Conservation and Economic Development Mineral Resources Report 9, 113 p.
- Siudyla, E.A., Berglund, T.D., and Newton, V.P., 1977, Groundwater of the Middle Peninsula, Virginia: Virginia State Water Control Board Planning Bulletin 305, 90 p.
- Siudyla, E.A., May, A.E., and Hawthorne, D.W., 1981, Groundwater resources of the four cities area, Virginia: Virginia State Water Control Board Planning Bulletin 331, 90 p.
- Smith, B.S., 1999, The potential for saltwater intrusion in the Potomac aquifers of the York-James Peninsula, Virginia: U.S. Geological Survey Water-Resources Investigations Report 98-4187, 24 p.
- Virginia State Water Control Board, 1973, Ground water of the York-James Peninsula, Virginia: Virginia State Water Control Board Basic Data Bulletin 39, 74 p.

REFERENCES CITED

- Atkinson, S.F., Miller, G.D., Curry, D.S., and Lee, S.B., 1986, Salt water intrusion—Status and potential in the contiguous United States: Chelsea, MI, Lewis Publishers, 390 p.
- Bear, Jacob, Cheng, A. H.-D., Sorek, Shaul, Ouazar, Driss, and Herrera, Ismael, eds. 1999, Seawater intrusion in coastal aquifers-concepts, methods and practices: Dordrecht, The Netherlands, Kluwer Academic Publishers, 625 p.
- Claiborne, Maude, Nierstheimer, L.O., and Hoy, N.D., 1983, Bibliography of U.S. Geological Survey reports on the water resources of Florida, 1886–1982: U.S. Geological Survey Open-File Report 83-540, 318 p.
- Cooper, H.H., Jr., Kohout, F.A., Henry, H.R., and Glover, R.E., 1964, Sea water in coastal aquifers: U.S. Geological Survey Water-Supply Paper 1613-C, 84 p.
- Feth, J.H., 1965, Selected references on saline ground-water resources of the United States: U.S. Geological Survey Circular 499, 30 p.
- Florida Geological Survey, 2002, List of publications: Florida Geological Survey Information Circular 87 (2002 ed.), 55 p., accessed April 15, 2002, at URL <http://www.dep.state.fl.us/geology/publications>.
- Georgia Geologic Survey, 2000, Publications of the Georgia Geologic Survey (25th ed.): accessed February 8, 2002, at URL <http://www.ganet.org/dnr/environ>.
- Krieger, R.A., Hatchett, J.L., and Poole, J.L., 1957, Preliminary survey of the saline-water resources of the United States: U. S. Geological Survey Water-Supply Paper 1374, 172 p.
- Krause, R.E., Mathews, S.E., and Gill, H.E., 1984, Evaluation of the ground-water resources of coastal Georgia—Preliminary report on the data available as of July 1983: Georgia Geologic Survey Information Circular 62, 55 p.
- Miller, D.W., DeLuca, F.A., and Tessier, T.L., 1974, Ground water contamination in the northeast States: U.S. Environmental Protection Agency, Office of Research and Development, 660/2-74-056, 325 p.
- Miller, J.C., Hackenberry, P.S., and DeLuca, F.A., 1977, Ground-water pollution problems in the southeastern United States: U.S. Environmental Protection Agency, Office of Research and Development, 600/3-77-012, 361 p.
- Newport, B.D., 1977, Salt water intrusion in the United States: U.S. Environmental Protection Agency 600/8-77-011, 31 p.
- O’Neil, Caron, and Lutz, A.B. (compilers), 2001, Pennsylvania geological publications: Pennsylvania Geological Survey, 48 p., accessed April 16, 2002, at URL <http://www.dcnr.state.pa.us/topogeo/pub/pub.html>.
- Reilly, T.E., and Goodman, A.S., 1985, Quantitative analysis of saltwater-freshwater relationships in groundwater systems—A historical perspective: *Journal of Hydrology*, v. 80, p. 125–160.
- Sun, R.J., Weeks, J.B., and Grubb, H.F., 1997, Bibliography of Regional Aquifer-System Analysis program of the U.S. Geological Survey, 1978–96: U.S. Geological Survey Water-Resources Investigations Report 97-4074, 63.
- Task Committee on Saltwater Intrusion, 1969, Saltwater intrusion in the United States: *Journal of the Hydraulics Division, American Society of Civil Engineers*, v. 95, no. HY5, p. 1651–1669.
- Todd, D.K., 1974, Salt-water intrusion and its control: *Journal of the American Water Works Association*, v. 66, no. 3, p. 180–187.

